NIMS GUIDE TO THE E6 ORBIT

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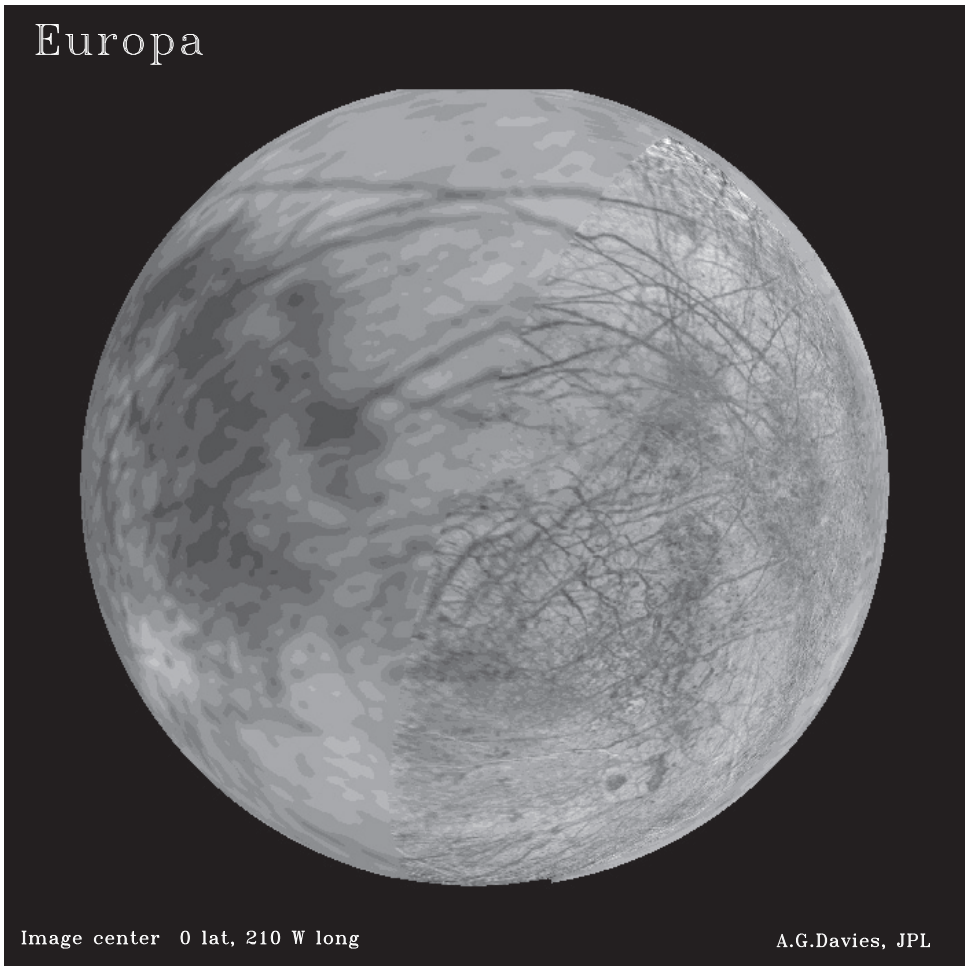

E6 Encounter starts 02/17/97, E6 Playback starts 02/23/97

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 E6 Orbit for the NIMS Team. The aim of this guide is to provide detailed information on the various NIMS E6 observations and calibrations. Also included in this document is background information on the E6 orbit. This guide was produced before the start of the E6 orbit. After analysis of the NIMS E6 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 E6 orbit. Chapter 2 gives an overview of the E6 orbit and summarizes the NIMS science objectives for the E6 orbit using tables, spreadsheets and timelines. Chapter 3 contains diagrams of various aspects of spacecraft geometry for the E6 orbit. Chapter 4 summarizes the NIMS E6 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 E6 orbit.

For more information on the E6 orbit, please refer to the Galileo Orbit Planning guide and the Galileo Orbit Activity Plan for the E6 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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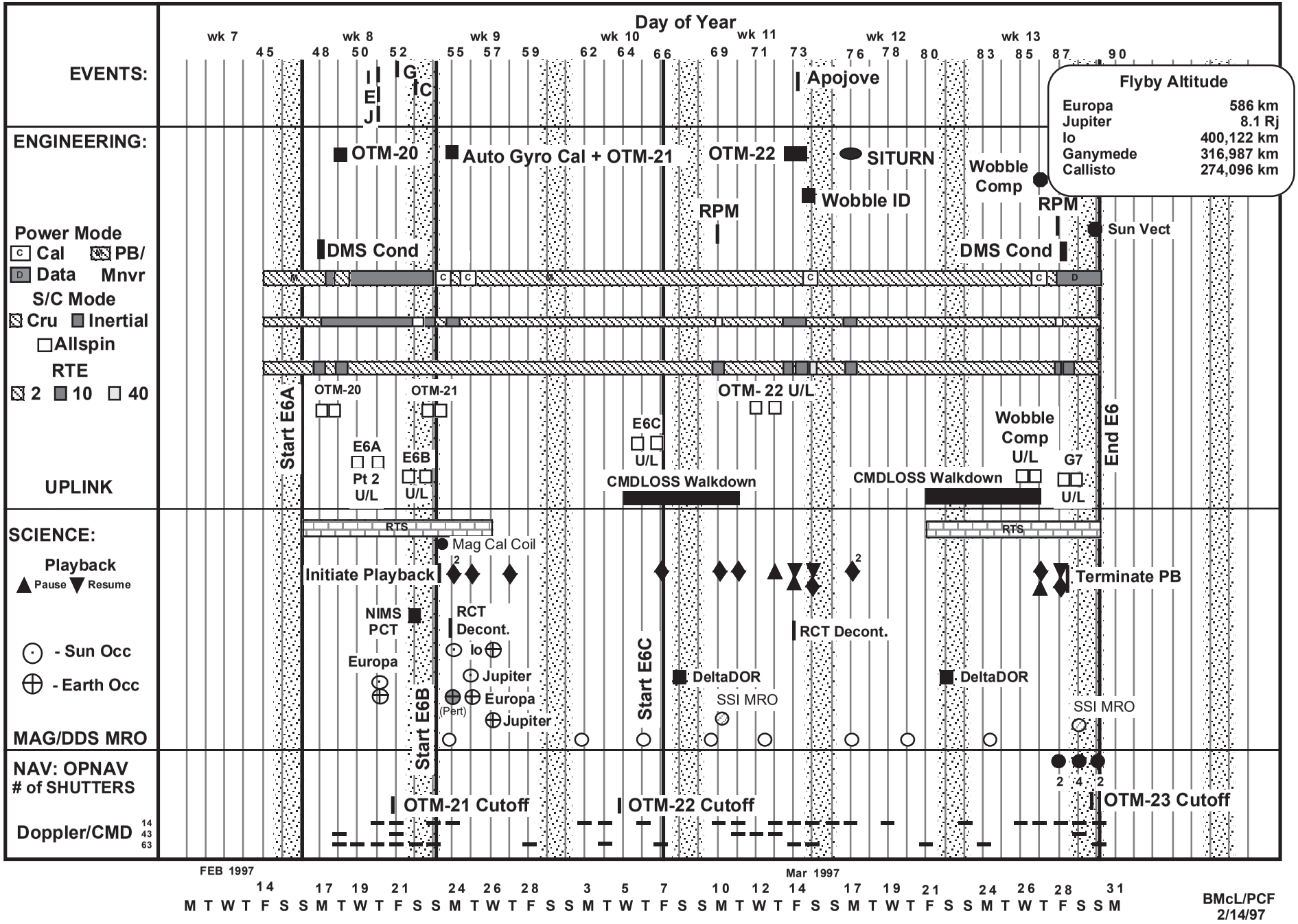
Introduction

This E6 orbit is the sixth 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 ten autonomous reloads of the NIMS RAM code from CDS planned during the E6A 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 E6A 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 E6 orbit is divided into 3 sequence loads: one Encounter Load (E6A) and two Orbital Cruise Loads (E6B and E6C). The Encounter Load, E6A, begins on D048 of 1997 (02/17/97) and ends on D054 of 1997 (02/23/97). This load contains the flybys of Jupiter, Europa, Io, Ganymede and Callisto. The first Cruise Load, E6B, runs from D054 to D066. The second Cruise Load, E6C, runs from D066 to D089. Playback of the recorded data takes place during the two Cruise phases, E6B and E6C. A high-level overview timeline of the E6 orbit can be found at the end of this chapter.

E6 Overview



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2/14/97

E6 Major Events

The following table lists the major events during E6, including NIMS Real Time observations, in UTC.

02/17/97	97-048/00:00:00	E6 Encounter Start
02/18/97	97-049/12:38:47	NIMS R/T Jupiter Aurora
02/19/97	97-050/21:31:28	NIMS R/T Health 01
02/19/97	97-050/21:37:32	NIMS RAM Reload 01
02/20/97	97-051/03:24:21	NIMS R/T Jupiter Hot Spot
02/20/97	97-051/03:48:37	NIMS RAM Reload 08
02/20/97	97-051/08:17:41	NIMS R/T Health 02
02/20/97	97-051/08:23:45	NIMS RAM Reload 02
02/20/97	97-051/11:39:48	NIMS RAM Reload 10
02/20/97	97-051/11:55:58	NIMS R/T Europa
02/20/97	97-051/12:04:00	Io Closest Approach
02/20/97	97-051/15:58:38	NIMS RAM Reload 09
02/20/97	97-051/16:40:06	NIMS R/T Io
02/20/97	97-051/17:03:00	Europa Closest Approach (E6)
02/20/97	97-051/20:53:00	Jupiter Closest Approach (PJ6)
02/20/97	97-051/21:39:23	NIMS R/T Health 03
02/20/97	97-051/21:48:29	NIMS RAM Reload 03
02/21/97	97-052/06:44:22	NIMS R/T Health 04
02/21/97	97-052/06:50:26	NIMS RAM Reload 04
02/21/97	97-052/09:36:15	NIMS R/T Health 05
02/21/97	97-052/09:42:19	NIMS RAM Reload 05
02/21/97	97-052/15:59:28	NIMS R/T Health 06
02/21/97	97-052/16:05:32	NIMS RAM Reload 06
02/21/97	97-052/16:26:00	Ganymede Closest Approach
02/22/97	97-053/02:42:32	NIMS R/T Health 07
02/22/97	97-053/02:48:36	NIMS RAM Reload 07
02/22/97	97-053/21:55:12	NIMS R/T Callisto
02/22/97	97-053/22:55:00	Callisto Closest Approach
02/23/97	97-054/01:30:00	Start E6 Playback
02/24/97	97-055/15:52:52	NIMS R/T RCT CAL
03/15/97	97-074/01:38:07	NIMS R/T RCT CAL
03/27/97	97-086/00:07:01	NIMS R/T OPCAL
03/30/97	97-089/16:00:00	End E6 Playback

Chapter 2 - Orbit Overview

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Introduction to Chapter 2

This chapter gives an overview of the NIMS observations in the E6 Orbit.

The text on pages 3 and 4 summarizes the NIMS science objectives for E6. The NIMS calibrations are discussed on page 4. Early data return and E6 playback are discussed on page 5.

The table on pages 6, 7 and 8 is a time-ordered listing of the NIMS Oapels for E6.

The plot on page 9 shows the geometry of the NIMS E6 observations using a north trajectory pole view projection. The plots on pages 10 and 11 show the geometry of the NIMS Satellite and Jupiter observations. The plot on page 12 shows the geometry of the NIMS E6 calibrations. The plot on page 13 shows the geometry of the NIMS RAM Reloads and MROs.

The table on pages 14 through 16 lists various NIMS E6 observing parameters: target latitude/longitude, range, cone angle, incidence angle (light), emission angle (view) and phase angle.

The spreadsheet on pages 17 through 19 summarizes the various inputs for the NIMS E6 Observations. The spreadsheet on pages 20 through 25 summarizes the resource usage for the NIMS E6 observations.

The tapemap on pages 26 through 29 shows the placement of the E6 observations on the spacecraft's tape recorder. The NIMS observation names are written with a larger type.

The timeline on pages 30 through 35 shows the preliminary E6 playback schedule.

The NIMS E6 mosaic designs are summarized on pages 36 through 42 in time-order.

NIMS E6 Science Overview

Io Science

The Io monitoring campaign continues in the E6 orbit. It consists of CHEMIS, THRMAL, and VOLCAN observations. The CHEMIS observations concentrate on Io's dayside; searching for chemical changes such as SO2 distribution. The THRMAL observations are designed to monitor Io's nightside in search of hot spots, thermal anomalies, and auroral effects. The VOLCAN observations will monitor time variations in volcanic activity of Loki, Pele, and other selected regions. The monitoring observations occur -1 to +1 day of Io closest approach. There will be one high spectral (408 wavelengths) global observation of Io just at closest approach.

Europa Science

There are four NIMS observations and one NIMS/SSI ride along observation of Europa in this orbit. The first, a global mosaic, is planned approximately 4 hrs before closest approach. The longitudes observed are 150 - 240 degrees which cover the trailing hemisphere. The global mosaic consists of four scans of which one scan will be played back. Two high spectral and spatial resolution observations are included in SUCOMP01 and SUCOMP02 observing a newly discovered impact crater and the North polar region, respectively. This observation is (TERINC01) is one of a set of NIMS global mosaics in which surface composition is the primary science objective. There are two observations planned within 45 minutes of Europa closest approach. The first of the two is targeted to the region of Argiope Linea; the objective is to determine the composition of the dark linea material. The second of the two observations will target the same region (new crater) as SSI, PPR and UVS. The SEAICE observation will aim to detect new ice (hexagonal ice crystals) versus old ice (homogeneous ice crystals). The ride along observation SBRTPLN01 with SSI is a joint effort to determine mineralogical composition in the northern hemisphere.

Ganymede Science

There is one Ganymede global observation of Ganymede's lit surface covering longitudes 230 to 360 degrees. The objective is to study the compositional units in a global context.

Callisto Science

There is one observation of Callisto within an hour of closest approach. This observation is a part of the set of distant global mosaics which will be used as a collaborative data set for comparison studies with recent IUE data and other NIMS data sets. The primary objectives are to determine composition and distribution of components over Callisto's surface. One real-time Callisto observation in this orbit provides 408 wavelength samples in the Equatorial region.

NIMS E6 Science Overview

Jupiter Science

NIMS conducts an intensive Feature Track Campaign during E6, focusing on White Oval BC, located at 107 degrees W. longitude (System III) and 33 degrees S. Latititude (planetographic). The vertical cloud structure, microphysical properties of cloud particles, water and ammonia gas content, and the abundances of dis-equilibrium species phosphine and germane are to be determined for this enigmatic long-lived cyclonic feature. To best address cloud microphysical properties (size, shape, composition), observations over eight phase angles are planned, the largest number of phase angles observed for any feature during the Galileo Tour. The specific phase angles are: 20, 38, 48, 64, 95, 124, 140, and 150 degrees. To address vertical distribution of gas and aerosols, several observations are conducted at most phase angles, sampling a variety of emission angles. In addition, two high-spectral-resolution maps are made with the feature on the nightside, enabling accurate determination of trace species abundances.

In all, 26 White Oval observations are recorded and sent down (three others are recorded, but not transmitted down to Earth). Due to timeline/sequencing constraints, four of these (the first observation of the 124, 140, and 150 degree phase angle data as well as the second 150 phase angle observation) are of the neighboring White Oval DE, located at 85 degrees W. Longitude, 33 degrees S. latitude. Portions of this feature (mostly the westernmost third) is also observed together with White Oval BC in five other OAPELS during 20, 38, and 48 degree phase angle observations: PFTB4801, PFTB4802, FEA02001, FEA02003, and FEA03801.

Ring Science

The Ring observation for NIMS has been deleted due to resource constraints.

Calibration

NIMS has three calibrations which include two Real-Time RCT calibrations and one recorded PCT calibration. The first RCT calibration will be taken after the +3 day OTM and one following the Apoapse OTM. Also, four dark observations are planned for the E6 orbit and will collect one RIM of data for each day of the NIMS science data taking in E6 in gain states 2, 3 and 4.

NIMS E6 Science Overview

Early Data Return

There are 15 realtime NIMS observations in E6: 7 instrument health checks of 3 wavelengths (HEALTH), 1 408 wavelength Jupiter Aurora observation (AURORA), 1 408 wavelength Jupiter Hotspot observation (RTHOTS), 1 8 wavelength Fixed Map Io observation (RTIMON), 1 408 wavelength Europa observation (EURORT), 1 408 wavelength Callisto observation (CALLRT), 2 RCT Calibrations and 1 OPCAL. The times for when these realtime observations will be returned can be found on page 1-05 of the NIMS Guide, but these realtime observations are subject to buffer dumps to tape.

E6 Playback

E6 playback is split into two passes through the all 4 tape tracks. One observations, E6ENSUCOMP02, uses two distinct playback edit tables to return the data in the two tape passes.

E6 Time-Ordered Listing

OAPEL	Start (UTC)	End (UTC)	Duration
E6NNCHOPON01-	97-049/11:30:02	97-049/11:40:09	000/00:10:06
E6JNAURORA01+	97-049/12:38:47	97-049/12:45:52	000/00:07:04
E6JNFEA06401-	97-050/11:55:08	97-050/12:02:13	000/00:07:04
E6JNFEA06402-	97-050/12:11:19	97-050/12:18:23	000/00:07:04
E6JNFEA06403-	97-050/13:19:03	97-050/13:26:08	000/00:07:04
E6NNHNDARK01-	97-050/20:11:36	97-050/20:18:40	000/00:07:04
E6INCHEMIS01-	97-050/20:29:48	97-050/20:35:52	000/00:06:04
E6NNHEALTH01-	97-050/21:31:28	97-050/21:37:32	000/00:06:04
E6NIMSP2LD01-	97-050/21:37:32	97-050/21:47:39	000/00:10:06
E6JNFEA04801-	97-050/21:48:06	97-050/21:51:41	000/00:03:35
E6JNFEA04802-	97-050/22:09:53	97-050/22:14:57	000/00:05:03
E6JNPFTB4801-	97-050/22:31:07	97-050/22:40:13	000/00:09:06
E6JNFEA04803-	97-050/23:35:50	97-050/23:43:35	000/00:07:45
E6JNPFTA4802-	97-050/23:43:55	97-050/23:52:15	000/00:08:19
E6JNPFTB4802-	97-050/23:52:35	97-051/00:01:07	000/00:08:32
E6JNRTHOTS01-	97-051/03:24:21	97-051/03:31:26	000/00:07:04
E6NIMSP2LD08-	97-051/03:48:37	97-051/03:57:50	000/00:09:12
E6INCHEMIS02-	97-051/03:57:54	97-051/04:07:50	000/00:09:56
E6NNHNDARK02-	97-051/05:17:36	97-051/05:24:40	000/00:07:04
E6JNFEA02001-	97-051/07:42:11	97-051/08:02:24	000/00:20:13
E6JNFEA02002-	97-051/08:12:31	97-051/08:17:34	000/00:05:03
E6NNHEALTH02-	97-051/08:17:41	97-051/08:23:38	000/00:05:57
E6NIMSP2LD02-	97-051/08:23:45	97-051/08:31:51	000/00:08:06
E6JNFEA02003-	97-051/08:31:54	97-051/08:49:55	000/00:18:01
E6JNFEA02004-	97-051/09:38:27	97-051/09:46:33	000/00:08:05
E6JNFEASUB01-	97-051/09:47:33	97-051/09:56:39	000/00:09:06
E6NIMSP2LD10-	97-051/11:39:48	97-051/11:49:54	000/00:10:06
E6ENEURORT01-	97-051/11:55:58	97-051/12:01:59	000/00:06:00
E6ENTERINC01-	97-051/12:02:02	97-051/12:39:24	000/00:37:21
E6INHRSPEC01-	97-051/12:39:27	97-051/12:46:31	000/00:07:04
E6INCHEMIS03-	97-051/14:07:25	97-051/14:14:30	000/00:07:04
E6NIMSP2LD09-	97-051/15:58:38	97-051/16:08:38	000/00:10:00

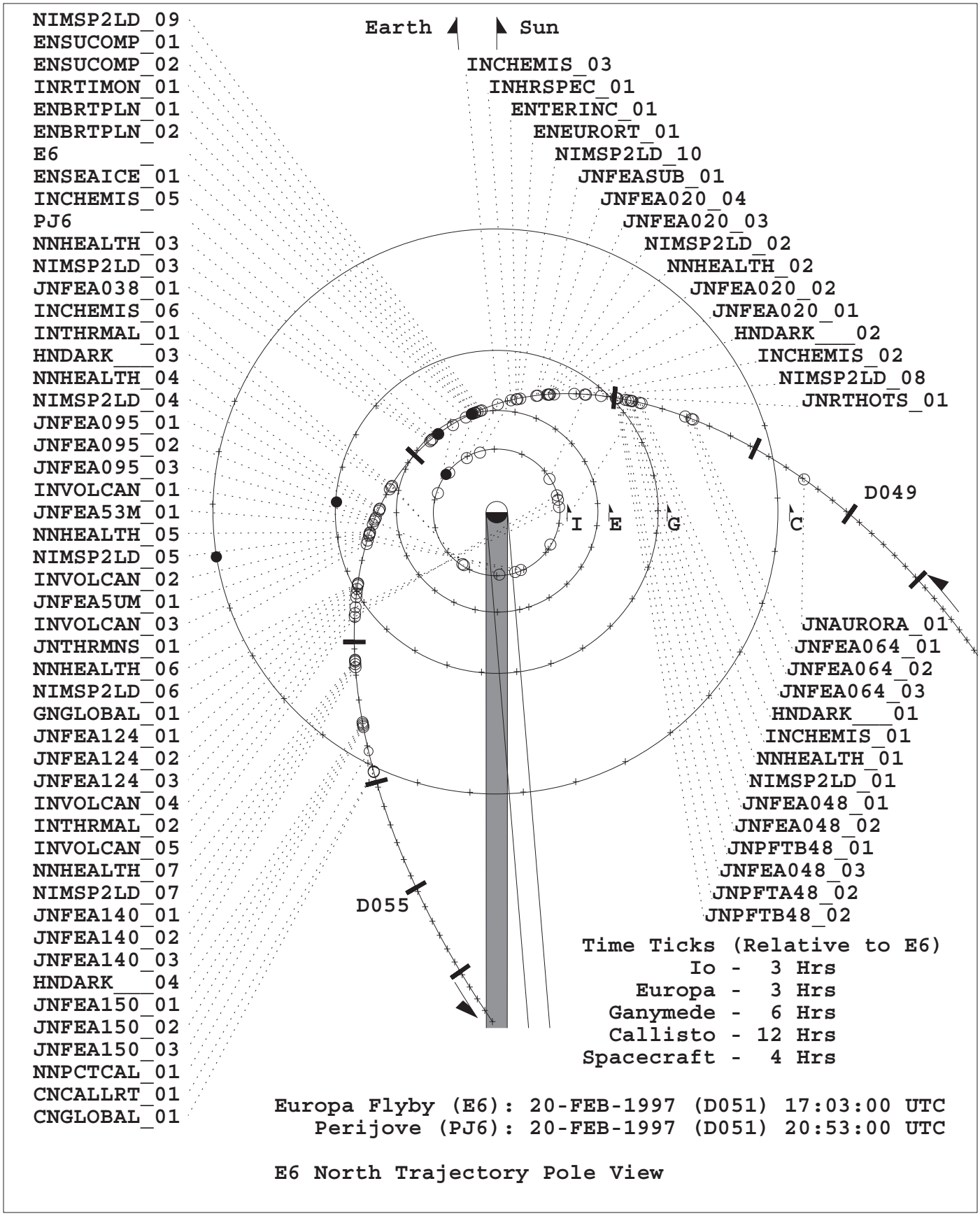
E6 Time-Ordered Listing

OAPEL	Start (UTC)	End (UTC)	Duration
E6ENSUCOMP01-	97-051/16:08:45	97-051/16:22:54	000/00:14:09
E6ENSUCOMP02-	97-051/16:26:57	97-051/16:40:05	000/00:13:08
E6INRTIMON01-	97-051/16:40:06	97-051/16:45:04	000/00:04:58
E6ENBRTPLN01+	97-051/16:45:09	97-051/16:48:11	000/00:03:02
E6ENBRTPLN02+	97-051/16:57:17	97-051/17:00:19	000/00:03:02
E6ENSEAICE01-	97-051/17:45:49	97-051/18:11:05	000/00:25:16
E6INCHEMIS05-	97-051/19:11:45	97-051/19:20:51	000/00:09:06
E6NNHEALTH03-	97-051/21:39:23	97-051/21:43:25	000/00:04:02
E6NIMSP2LD03-	97-051/21:48:29	97-051/21:58:35	000/00:10:06
E6JNFEA03801-	97-051/21:59:36	97-051/22:19:09	000/00:19:32
E6INCHEMIS06-	97-052/03:57:32	97-052/04:05:29	000/00:07:56
E6INTHRMAL01-	97-052/04:05:30	97-052/04:12:08	000/00:06:38
E6NNHNDARK03-	97-052/04:22:49	97-052/04:29:53	000/00:07:04
E6NNHEALTH04-	97-052/06:44:22	97-052/06:50:26	000/00:06:04
E6NIMSP2LD04-	97-052/06:50:26	97-052/07:00:33	000/00:10:06
E6JNFEA09501-	97-052/07:01:33	97-052/07:08:38	000/00:07:04
E6JNFEA09502-	97-052/07:49:05	97-052/07:56:09	000/00:07:04
E6JNFEA09503-	97-052/08:01:13	97-052/08:08:17	000/00:07:04
E6INVOLCAN01-	97-052/08:14:21	97-052/08:20:59	000/00:06:37
E6JNFEA53M01-	97-052/08:38:37	97-052/08:59:51	000/00:21:14
E6NNHEALTH05-	97-052/09:36:15	97-052/09:42:17	000/00:06:02
E6NIMSP2LD05-	97-052/09:42:19	97-052/09:52:26	000/00:10:06
E6INVOLCAN02-	97-052/09:53:27	97-052/10:01:18	000/00:07:51
E6JNFEA5UM01-	97-052/10:01:32	97-052/10:12:59	000/00:11:27
E6INVOLCAN03-	97-052/10:36:55	97-052/10:42:07	000/00:05:11
E6JNTHRMNS01-	97-052/11:02:12	97-052/11:38:36	000/00:36:24
E6NNHEALTH06-	97-052/15:59:28	97-052/16:04:31	000/00:05:03
E6NIMSP2LD06-	97-052/16:05:32	97-052/16:14:38	000/00:09:06
E6GNGLOBAL01-	97-052/16:15:32	97-052/16:43:47	000/00:28:14
E6JNFEA12401-	97-052/16:43:51	97-052/16:50:01	000/00:06:10
E6JNFEA12402-	97-052/17:17:19	97-052/17:24:24	000/00:07:04
E6JNFEA12403-	97-052/17:48:40	97-052/17:55:45	000/00:07:04

E6 Time-Ordered Listing

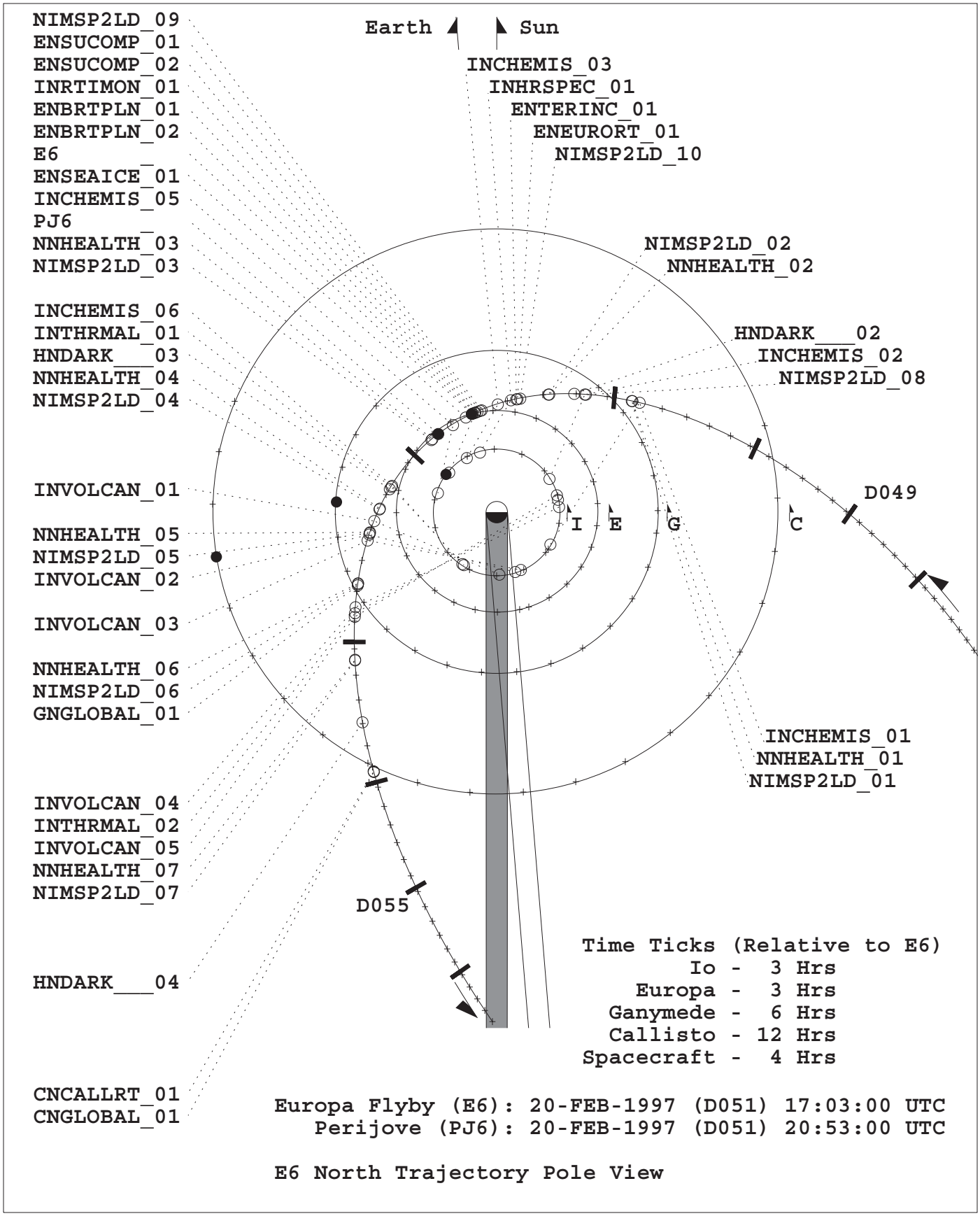
OAPEL	Start (UTC)	End (UTC)	Duration
E6INVOLCAN04-	97-052/19:10:34	97-052/19:14:37	000/00:04:02
E6INTHRMAL02-	97-052/19:58:05	97-052/20:04:09	000/00:06:04
E6INVOLCAN05-	97-052/20:28:25	97-052/20:33:38	000/00:05:12
E6NNHEALTH07-	97-053/02:42:32	97-053/02:48:36	000/00:06:04
E6NIMSP2LD07-	97-053/02:48:36	97-053/02:58:43	000/00:10:06
E6JNFEA14001-	97-053/02:59:43	97-053/03:06:48	000/00:07:04
E6JNFEA14002-	97-053/03:22:59	97-053/03:30:03	000/00:07:04
E6JNFEA14003-	97-053/03:50:17	97-053/03:57:21	000/00:07:04
E6NNHNDARK04-	97-053/12:51:13	97-053/12:57:27	000/00:06:14
E6JNFEA15001-	97-053/13:07:24	97-053/13:14:29	000/00:07:04
E6JNFEA15002-	97-053/13:24:35	97-053/13:31:40	000/00:07:04
E6JNFEA15003-	97-053/13:41:47	97-053/13:48:51	000/00:07:04
E6NNPCTCAL01-	97-053/18:05:41	97-053/21:05:39	000/02:59:58
E6CNCALLRT01-	97-053/21:55:12	97-053/22:02:17	000/00:07:04
E6CNGLOBAL01-	97-053/22:03:17	97-053/22:17:27	000/00:14:09
E6NCHOPOFF01-	97-053/22:26:33	97-053/22:36:39	000/00:10:06
E6NNSHDOFF01-	97-054/03:10:40	97-055/15:52:52	001/12:42:12
E6NNRCTRLT01-	97-055/15:52:52	97-056/05:08:37	000/13:15:44
E6NNSHDOFF02-	97-072/12:55:55	97-074/01:38:07	001/12:42:12
E6NNRCTRLT02-	97-074/01:38:07	97-074/14:53:52	000/13:15:44
E6NNOPCAL_01-	97-086/00:07:01	97-086/00:26:14	000/00:19:12

NIMS E6 OBSERVATIONS



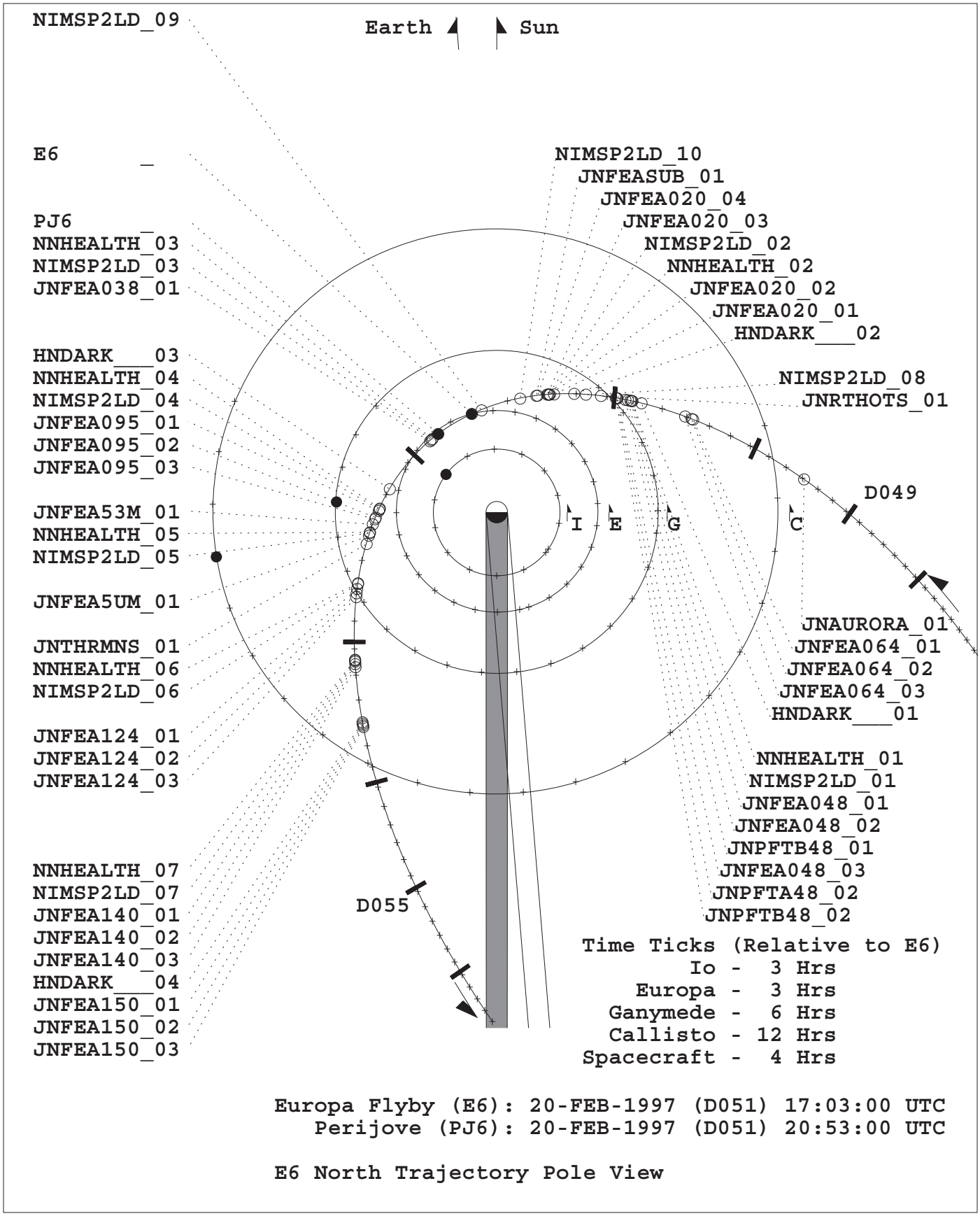
NIMS - FEL - 02/13/97

NIMS E6 SATELLITE OBSERVATIONS



NIMS - FEL - 02/13/97

NIMS E6 JUPITER OBSERVATIONS



Europa Flyby (E6): 20-FEB-1997 (D051) 17:03:00 UTC
Perijove (PJ6): 20-FEB-1997 (D051) 20:53:00 UTC

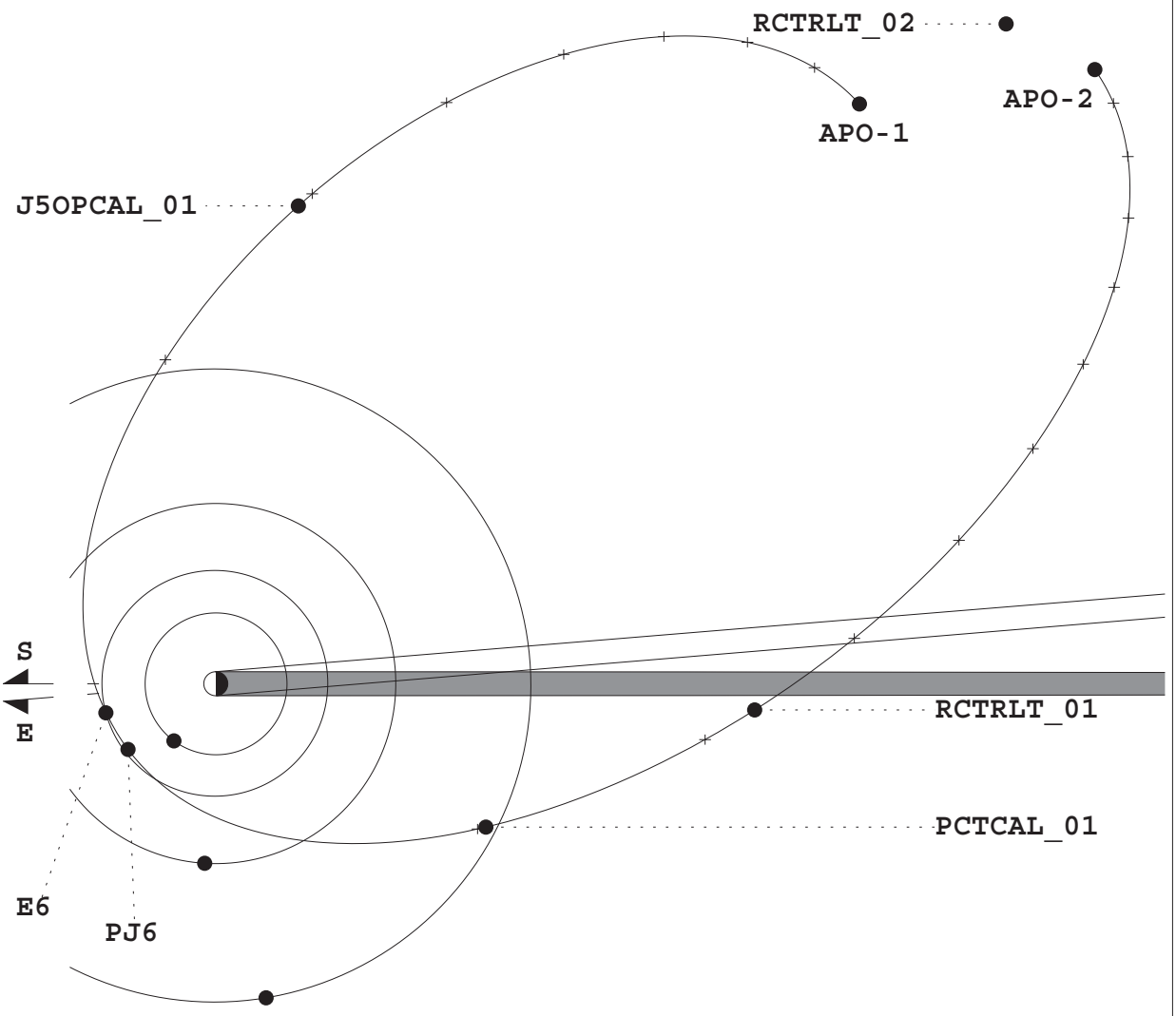
E6 North Trajectory Pole View

NIMS - FEL - 02/13/97

NIMS E6 CALIBRATIONS

Europa Flyby (E6): 20-FEB-1997 (D051) 17:07:15 UTC
Perijove (PJ6): 20-FEB-1997 (D051) 20:55:15 UTC

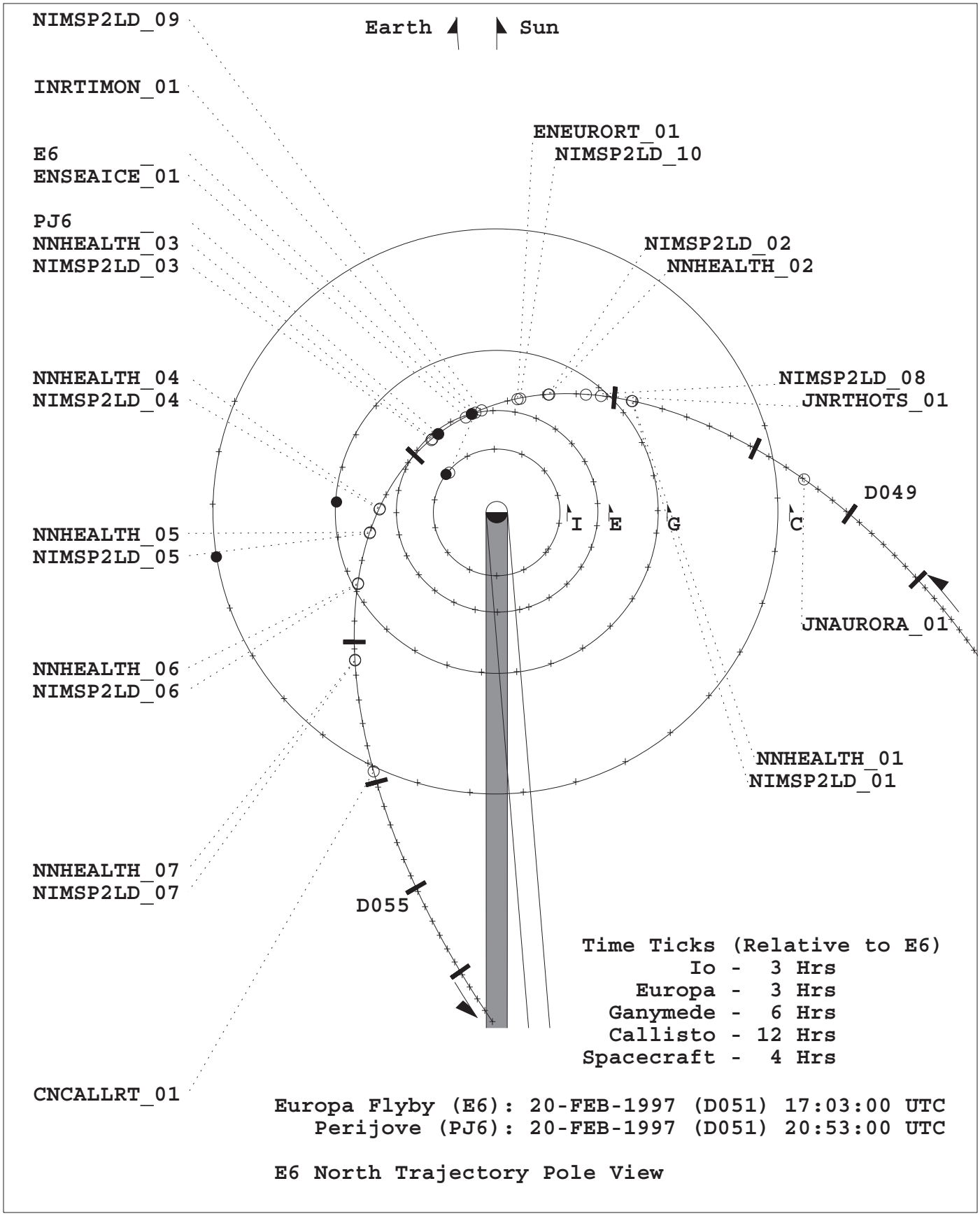
Time Ticks (Relative to E6)
Spacecraft - 2 Days



E6 North Trajectory Pole View, Apoapsis to Apoapsis

NIMS - FEL - 02/13/97

NIMS E6 RAM RELOADS



NIMS - FEL - 02/13/97

NIMS E6 OBSERVING GEOMETRY

OAPEL	Latitude (deg)	Longitude (deg)	Range (km)	Cone (deg)	Light (deg)	View (deg)	Phase (deg)
E6JNAURORA01	60	----------	2090K	90	122	90	----------
E6JNFEA06401	-36 to -28	85 to 98	1384K	109	67 to 79	34 to 36	64
E6JNFEA06402	-36 to -28	85 to 98	1377K	109	59 to 71	34 to 36	64
E6JNFEA06403	-36 to -28	80 to 100	1362K	109	33 to 42	48 to 64	65
E6INCHEMIS01	-90 to +90	----------	1116K	142	--------	--------	---------
E6JNFEA04801	-35 to -29	85 to 97	1105K	125	70 to 81	38 to 45	49
E6JNFEA04802	-35 to -29	98 to 110	1095K	126	69 to 80	38 to 45	48
E6JNPFTB4801	-40 to -20	87 to 110	1074K	125	46 to 67	27 to 30	48
E6JNFEA04803	-35 to -29	83 to 98	1060K	125	32 to 35	47 to 59	49
E6JNPFTA4802	-40 to -20	83 to 114	1050K	125	24 to 34	33 to 55	48
E6JNPFTB4802	-40 to -20	86 to 114	1050K	125	24 to 31	36 to 61	48
E6JNRTHOTS01	6.5	211	950K	133	13	53	41
E6INCHEMIS02	-90 to +90	60 to 240	600K	152	20 to 112	19 to 90	22
E6JNFEA02001	-45 to -17	80 to 110	830K	151	59 to 85	40 to 65	22
E6JNFEA02002	-35 to -29	86 to 96	810K	152	57 to 65	44 to 51	22
E6JNFEA02003	-40 to -25	85 to 125	800K	154	40 to 75	31 to 60	20
E6JNFEA02004	-35 to -29	100 to 109	763K	154	34 to 37	34 to 36	20
E6JNFEASUB01	-35 to -29	86 to 96	763K	154	32 to 34	38 to 45	20

NIMS E6 OBSERVING GEOMETRY

OAPEL	Latitude (deg)	Longitude (deg)	Range (km)	Cone (deg)	Light (deg)	View (deg)	Phase (deg)
E6ENEURORT01	0	216	101K	139	41	6	35
E6ENTERINC01	-90 to +90	140 to 260	99K	138	55 to 112	56 to 90	35
E6INHRSPEC01	-90 to +90	150 to 330	402K	142	3 to 90	2 to 90	31
E6INCHEMIS03	-90 to +90	150 to 250	409K	143	--------	--------	---------
E6ENSUCOMP01	-37 to -22	260 to 270	15K	133	69 to 78	35 to 44	41
E6ENSUCOMP02	+18 to +22	195 to 207	9K	119	21	49 to 63	52 to 58
E6INRTIMON01	-20 to +40	285 to 345	432K	150	60 to 113	37 to 90	24
E6ENBRTPLN01	+9 to +11	270 to 275	5.4K	125	77	35	49
E6ENBRTPLN02	+14 to +17	273 to 274	2.1K	97	78	48	78
E6ENSEAICE01	-5 to +5	110 to 140	150K	34	60 to 90	62 to 92	150 to 152
E6INCHEMIS05	-90 to +90	180 to 260	465K	161	0 to 63	8 to 76	15
E6JNFEA03801	-40 to -25	85 to 122	600K	145	60 to 91	34 to 58	41
E6INCHEMIS06	-90 to +90	230 to 360	703K	144	54 to 107	35 to 90	41
E6INTHRMAL01	-90 to +90	200 to 260	709K	143	75 to 126	44 to 90	43
E6JNFEA09501	-37 to -29	86 to 97	747K	94	55 to 64	48 to 56	93
E6JNFEA09502	-37 to -29	88 to 96	755K	92	79 to 87	37 to 40	94
E6JNFEA09503	-37 to -29	89 to 98	759K	92	84 to 91	36 to 38	94
E6INVOLCAN01	-90 to +90	210 to 280	911K	119	110 to 127	90	---------
E6JNFEA53M01	-37 to -29	85 to 97	780K	91	103 to 120	37 to 48	95

NIMS E6 OBSERVING GEOMETRY

OAPEL	Latitude (deg)	Longitude (deg)	Range (km)	Cone (deg)	Light (deg)	View (deg)	Phase (deg)
E6INVOLCAN02	-90 to +90	230 to 290	1004K	111	100 to 124	90	---------
E6JNFEA5UM01	-37 to -29	69 to 106	840K	89	135 to 144	59 to 92	97
E6INVOLCAN03	-90 to +90	230 to 290	1040K	107	103 to 118	90	---------
E6JNTHRMNS01	-90 to +90	186	835K	82	113	10	104
E6GNGLOBAL01	-90 to +90	210 to 360	320K	152	59 to 121	25 to 90	34
E6JNFEA12401	-37 to -27	71 to 102	1050K	64	45 to 69	64 to 90	122
E6JNFEA12402	-37 to -27	82 to 105	1050K	63	59 to 78	57 to 76	123
E6JNFEA12403	-37 to -27	85 to 99	1050K	63	78 to 91	46 to 57	123
E6INVOLCAN04	-90 to +90	230 to 290	1520K	70	94 to 106	90	---------
E6INTHRMAL02	-90 to +90	75 to 250	1560K	67	---------	--------	---------
E6INVOLCAN05	-90 to +90	75 to 250	1580K	65	72 to 108	90	---------
E6JNFEA14001	-37 to -27	62 to 98	1350K	47	57 to 87	59 to 90	139
E6JNFEA14002	-37 to -27	77 to 112	1370K	47	57 to 87	60 to 90	140
E6JNFEA14003	-37 to -27	86 to 116	1370K	46	67 to 93	55 to 81	140
E6JNFEA15001	-40 to -25	60 to 97	1650K	36	64 to 95	60 to 91	150
E6JNFEA15002	-40 to -25	70 to 107	1655K	36	64 to 96	60 to 91	150
E6JNFEA15003	-40 to -25	75 to 117	1660K	36	65 to 101	56 to 91	150
E6CNCALLRT01	5	53	275K	47	87	40	126
E6CNGLOBAL01	-25 to +50	0 to 60	275K	47	90 to 120	31 to 48	127

NIMS E6 Inputs

ACTID	N_DESCR	Record Table	Playback Table	N_CMODE	Gain	N_GSTART	N_GOF	Record Mode
E6TNAURORA01+	Aurora observation	E6JLM442	R/T	LM	4	0	4	R/T
E6JNFEA06401-	Jupiter Feature Track 64 deg phase pt 1	E6JFT68A	E6JFT04A	SM	2	1	4	LPU
E6JNFEA06402-	Jupiter Feature Track 64 deg phase pt 2	E6JFT68A	E6JFT20A	SM	2	1	4	LPU
E6JNFEA06403-	Jupiter Feature Track 64 deg phase pt 3	E6JFT68A	E6JFT04A	SM	2	1	4	LPU
E6NNHNDARK01-	Dark Observation	E6DRK34	E6DRK32	LM	2	0	4	LPU
E6INCHEMIS01-	Monitoring of IO's Dayside	E6ILM245	E6ILM96	LM	2	0	4	MPW
E6NNHEALTH01-	Health Observation	E6RCVY3	R/T	LM	2	0	4	R/T
E6NIMSP2LD01	NIMS Reload							
E6JNFEA04801-	Jupiter Feature Track 48 deg phase pt 1	E6JFT68A	E6JFT04A	SM	2	1	4	LPU
E6JNFEA04802-	Jupiter Feature Track 48 deg phase pt 2	E6JFT68A	E6JFT04A	SM	2	1	4	LPU
E6JNPFTB4801-	Jupiter Feature Track B 48 deg part 1	E6JFT68C	E6JFT04A	SM	2	1	4	LPU
E6JNFEA04803-	Jupiter Feature Track 48 deg phase pt 3	E6JFT68A	E6JFT04A	SM	2	1	4	LPU
E6JNPFTA4802-	Jupiter Feature Track A 48 deg part 2	E6JFT68C	E6JFT19A	SM	2	1	4	LPU
E6JNRTHOTS01-	Jupiter Real-time Hotspot	E6JLM442	R/T	LM	2	0	4	R/T
E6NIMSP2LD08	NIMS Reload							
E6INCHEMIS02-	Monitoring of IO's Dayside	E6ILM442	E6ILM96	LM	2	0	4	MPW
E6NNHNDARK02-	Dark Observation	E6DRK34	E6DRK32	LM	2	0	4	LPU
E6JNFEA02001-	Jupiter Feature Track 20 deg phase pt 1	E6JFT68C	E6JFT20A	SM	2	1	4	LPU
E6JNFEA02002-	Jupiter Feature Track 20 deg phase pt 2	E6JFT68C	E6JFT25A	SM	2	1	4	LPU
E6NNHEALTH02-	Health Observation	E6RCVY3	R/T	LM	2	0	4	R/T
E6NIMSP2LD02	NIMS Reload							
E6JNFEA02003-	Jupiter Feature Track 20 deg phase pt 3	E6JFT68C	E6JFT25A	SM	2	1	4	LPU
E6JNFEA02004-	Jupiter Feature Track 20 deg phase pt 4	E6JFT68C	E6JFT25A	SM	2	0	4	LPU
E6JNFEASUB01-	Jupiter Campaign Feature sub-spectra	E6JSB253A	E6JSB80A	LM	2	0	4	LPU
E6NIMSP2LD10	NIMS Reload							
E6ENEURORT01-	Europa Real-Time Observation	E6ELM442	R/T	LM	2	0	4	R/T
E6ENTERINC01-	Europa Terra Incognito	E6EFM221	E6EFM192	FM	2	0	4	MPW
E6ENTERINC01-		E6EFM221	E6EFM192	FM	2	0	4	MPW
E6INHRSPEC01-	High spatial and spectral Obs of IO	E6ILM245	E6ILM216	LM	2	0	4	MPW
E6INCHEMIS03-	Monitoring of IO's Dayside	E6ILM245	E6ILM96	LM	2	1	4	LPU
E6NIMSP2LD09	NIMS Reload							
E6ENSUCOMP01-	Europa Surface Composition	E6ELM442	E6ELM192	LM	3	0	4	MPW
E6ENSUCOMP02-	Europa Surface Composition	E6ELM442	E6ELM192	LM	3	0	4	MPW
E6INRTIMON01-	NIMS Io Real-Time Observation	E6IXM8RTB	R/T	XM	2	21	4	R/T
E6ENBRTPLN01+	BRTPLN Ride-Along with SSI	E6ELM442	E6ELM384	LM	2	0	4	MPW
E6ENBRTPLN02+	BRTPLN Ride-Along with SSI	E6ELM442	E6ELM384	LM	2	0	4	MPW
E6ENSEAICE01-	Europa Hexangonal Ice	E6EXM10B	E6EXM10B	XM	3	0	4	LPU
E6INCHEMIS05-	Monitoring of IO's Dayside	E6ILM245	E6ILM96	LM	2	0	4	LPU
E6NNHEALTH03-	Health Observation	E6RCVY3	R/T	LM	2	0	4	R/T

NIMS E6 Inputs

ACTID	N_DESCR	Record Table	Playback Table	N_CMODE	Gain	N_GSTART	N_GOF	Record Mode
E6NIMSP2LD03	NIMS Reload							
E6JNFEA03801-	Jupiter Feature Track 38 deg phase pt 1	E6JFT68C	E6JFT04A	SM	2	1	4	LPU
E6INCHEMIS06-	Monitoring of IO's Dayside	E6ILM245	E6ILM96	LM	2	0	4	LPU
E6INTHRMAL01-	Monitoring of IO's Nightside	E6ILMDK245	E6ILMDK96	LM	4	0	4	LPU
E6NNHNDARK03-	Dark Observation	E6DRK34	E6DRK32	LM	4	0	4	LPU
E6NNHEALTH04-	Health Observation	E6RCVY3	R/T	LM	2	0	4	R/T
E6NIMSP2LD04	NIMS Reload							
E6JNFEA09501-	Jupiter Feature Track 95 deg phase pt 1	E6JFT68A	E6JFT04A	SM	2	1	4	LPU
E6JNFEA09502-	Jupiter Feature Track 95 deg phase pt 2	E6JFT68A	E6JFT20A	SM	2	1	4	LPU
E6JNFEA09503-	Jupiter Feature Track 95 deg phase pt 3	E6JFT68A	E6JFT04A	SM	2	1	4	LPU
E6INVOLCAN01-	Monitoring of Selected Volcanic Regions	E6ILMDK245	E6ILMDK10B	LM	4	0	4	LPU
E6JNFEA53M01-	Jupiter Campaign Feature 5 and 3 um Map	E6J35160	E6J35160	LM	4	0	4	LPU
E6NNHEALTH05-	Health Observation	E6RCVY3	R/T	LM	2	0	4	R/T
E6NIMSP2LD05	NIMS Reload							
E6INVOLCAN02-	Monitoring of Selected Volcanic Regions	E6ILMDK245	E6ILMDK10B	LM	4	0	4	LPU
E6JNFEA5UM01-	Jupiter Feature Track 5 Micron Map 2	E6J5M253B	E6J5M80B	LM	4	0	4	LPU
E6INVOLCAN03-	Monitoring of Selected Volcanic Regions	E6ILMDK245	E6ILMDK10B	LM	4	0	4	LPU
E6JNTHRMNS01-	Jupiter Thermal North South Stripe	E6J5M253A	E6J5M80A	LM	4	0	4	LPU
E6NNHEALTH06-	Health Observation	E6RCVY3	R/T	LM	2	0	4	R/T
E6NIMSP2LD06	NIMS Reload							
E6GNGLOBAL01-	NIMS Ganymede Global	E6GLM245D	E6GLM192	LM	3	0	4	LPU
E6JNFEA12401-	Jupiter Feature Track 124 deg phase pt 1	E6JFT68A	E6JFT04A	SM	2	1	4	LPU
E6JNFEA12402-	Jupiter Feature Track 124 deg phase pt 2	E6JFT68A	E6JFT20A	SM	2	1	4	LPU
E6JNFEA12403-	Jupiter Feature Track 124 deg phase pt 3	E6JFT68A	E6JFT04A	SM	2	1	4	LPU
E6INVOLCAN04-	Monitoring of Selected Volcanic Regions	E6ILMDK245	E6ILMDK10B	LM	4	0	4	LPU
E6INTHRMAL02-	Monitoring of IO's Nightside	E6ILMDK245	E6ILMDK96	LM	4	0	4	LPU
E6INVOLCAN05-	Monitoring of Selected Volcanic Regions	E6ILMDK245	E6ILMDK10B	LM	4	0	4	LPU
E6NNHEALTH07-	Health Observation	E6RCVY3	R/T	LM	2	0	4	R/T
E6NIMSP2LD07	NIMS Reload							
E6JNFEA14001-	Jupiter Feature Track 140 deg phase pt 1	E6JFT68B	E6JFT19D	SM	2	1	4	LPU
E6JNFEA14002-	Jupiter Feature Track 140 deg phase pt 2	E6JFT68B	E6JFT19D	SM	2	1	4	LPU
E6JNFEA14003-	Jupiter Feature Track 140 deg phase pt 3	E6JFT68B	E6JFT19D	SM	2	1	4	LPU
E6NNHNDARK04-	Dark Observation	E6DRK34	E6DRK32	LM	2	0	4	LPU
E6JNFEA15001-	Jupiter Feature Track 150 deg phase pt 1	E6JFT68A	E6JFT20A	SM	2	1	4	LPU
E6JNFEA15002-	Jupiter Feature Track 150 deg phase pt 2	E6JFT68A	E6JFT20A	SM	2	1	4	LPU
E6JNFEA15003-	Jupiter Feature Track 150 deg phase pt 3	E6JFT68A	E6JFT20A	SM	2	1	4	LPU
E6NNPCTCAL01	PCT Recorded Calibration	E6PCT252	E6PCT228		4			LPU
E6CNCALLRT01-	Callisto Real-Time Observation	E6CLM442	R/T	LM	4	0	4	R/T
E6CNGLOBAL01-	Callisto Global Observation	E6CLM442	E6CLM192	LM	4	0	4	MPW
E6NNRCTRLT01		E6RCT252	R/T		1			

NIMS E6 Inputs

ACTID	N_DESCR	Record Table	Playback Table	N_CMODE	Gain	N_GSTART	N_GOF	Record Mode
E6NNRCTRLT02		E6RCT252	R/T		1			
E6NNOPCAL_01		E6OPCAL120	R/T		4			
E6JNPFTB4802-	Jupiter Feature Track B 48 deg part 2	E6JFT68C	E6JFT20A	SM	2	1	4	LPU
E6INCHEMIS02-	Monitoring of IO's Dayside	E6ILM442	E6ILM384	LM	2	0	4	MPW
E6JNFEA02001-	Jupiter Feature Track 20 deg phase pt 1	E6JFT68C	E6JFT20A	SM	2	1	4	LPU
E6JNFEA02003-	Jupiter Feature Track 20 deg phase pt 3	E6JFT68C	E6JFT25A	SM	2	1	4	LPU
E6ENTERINC01-	Europa Terra Incognito	E6EFM221	E6EFM192	FM	2	0	4	MPW
E6ENTERINC01-		E6EFM221	E6EFM192	FM	2	0	4	MPW
E6INHRSPEC01-	High spatial and spectral Obs of IO	E6ILM245	E6ILM216	LM	2	0	4	MPW
E6ENSUCOMP01-	Europa Surface Composition	E6ELM442	E6ELM192	LM	3	0	4	MPW
E6ENSUCOMP02-	Europa Surface Composition	E6ELM442	E6ELM96	LM	3	0	4	MPW
E6ENSEAICE01-	Europa Hexangonal Ice	E6EXM10B	E6EXM10B	XM	3	0	4	LPU
E6JNFEA03801-	Jupiter Feature Track 38 deg phase pt 1	E6JFT68C	E6JFT25A	SM	2	1	4	LPU
E6JNFEA53M01-	Jupiter Campaign Feature 5 and 3 um Map	E6J35160	E6J35160	LM	4	0	4	LPU
E6JNTHRMNS01-	Jupiter Thermal North South Stripe	E6J5M253A	E6J5M80A	LM	4	0	4	LPU
E6GNGLOBAL01-	NIMS Ganymede Global	E6GLM245D	E6GLM192	LM	3	0	4	LPU
E6CNGLOBAL01-	Callisto Global Observation	E6CLM442	E6CLM192	LM	4	0	4	MPW

NIMS E6 Resource Tables

ACTID	NIMS mode	Record mode	Tics	Obs. Cost (tracks)	Number wavelength returned	Observation record time (sec)	Observation playback time (sec)	Selected Bits of Tape sBOT (Mbits)	Total Bits of Tape BOT (Mbits)	Mode cycle time (sec)
E6TNAURORA01+	LM	R/T								
E6JNFEA06401-	SM	LPU	25.3776	0.0038	4	104	100	0.62	0.64	2.33
E6JNFEA06402-	SM	LPU	25.3776	0.0038	20	104	100	0.62	0.64	2.33
E6JNFEA06403-	SM	LPU	25.3776	0.0038	4	104	100	0.62	0.64	2.33
E6NNHNDARK01-	LM	LPU	16.2360	0.0025	32	65	61	0.38	0.40	8.667
E6INCHEMIS01-	LM	MPW	97.9212	0.0139	96	108	104	1.20	1.24	8.667
E6NNHEALTH01-										
E6NIMSP2LD01										
E6JNFEA04801-	SM	LPU	25.3776	0.0038	4	104	100	0.62	0.64	2.33
E6JNFEA04802-	SM	LPU	25.3776	0.0038	20	104	14	0.09	0.64	2.33
E6JNPFTB4801-	SM	LPU	98.8222	0.0143	4	417.33	413.33	2.55	2.57	2.33
E6JNFEA04803-	SM	LPU	25.3776	0.0038	4	104	100	0.62	0.64	2.33
E6JNPFTA4802-	SM	LPU	76.9456	0.0112	19	324	14	0.09	2.00	2.33
E6JNRTHOTS01-	LM	R/T								
E6NIMSP2LD08										
E6INCHEMIS02-	LM	MPW	191.0846	0.0273	384	214	120	1.38	2.47	8.667
E6NNHNDARK02-	LM	LPU	16.2360	0.0025	32	65	61	0.38	0.40	8.667
E6JNFEA02001-	SM	LPU	203.5216	0.0293	20	864	648	4.00	5.33	2.33
E6JNFEA02002-	SM	LPU	25.3776	0.0038	25	104	100	0.62	0.64	2.33
E6NNHEALTH02-										
E6NIMSP2LD02										
E6JNFEA02003-	SM	LPU	203.5216	0.0293	25	864	212	1.31	5.33	2.33
E6JNFEA02004-	SM	LPU	25.3776	0.0038	25	104	14	0.09	0.64	2.33
E6JNFEASUB01-	LM	LPU	87.2592	0.0127	80	368	364	2.25	2.27	8.667
E6NIMSP2LD10										
E6ENEURORT01-		R/T								
E6ENTERINC01A-	FM	MPW	1729.1596	0.2477	192	1964	0	0.00	22.63	4.333
E6ENTERINC01B-	FM	MPW			192	1964	251	2.89		4.333
E6INHRSPEC01-	LM	MPW	258.4962	0.0369	216	290.7	130	1.50	3.35	8.667
E6INCHEMIS03-	LM	LPU	68.5072	0.0100	96	288	0	0.00	1.78	8.667
E6ENSUCOMP01-	LM	MPW	433.0458	0.0619	192	489.3	253	2.91	5.64	8.667
E6ENSUCOMP02-	LM	MPW	433.0458	0.0619	192	489.3	486	5.60	5.64	8.667
E6INRTIMON01-	LM	R/T		0.0003	8					8.667
E6ENBRTPLN01+	LM	MPW	31.7251	0.0044	384	32.683	32	0.37	0.38	8.667
E6ENBRTPLN02+	LM	MPW	39.3460	0.0055	384	41.354	40	0.46	0.48	8.667
E6ENSEAICE01-	XM	LPU	113.5120	0.0164	10	480	63.4	0.39	2.96	0.333
E6INCHEMIS05-	LM	LPU	62.2567	0.0091	96	261.334	0	0.00	1.61	8.667
E6NNHEALTH03-										
E6NIMSP2LD03										

NIMS E6 Resource Tables

ACTID	NIMS mode	Record mode	Tics	Obs. Cost (tracks)	Number wavelength returned	Observation record time (sec)	Observation playback time (sec)	Selected Bits of Tape sBOT (Mbits)	Total Bits of Tape BOT (Mbits)	Mode cycle time (sec)
E6JNFEA03801-	SM	LPU	203.5216	0.0293	25	864	432	2.66	5.33	2.33
E6INCHEMIS06-	LM	LPU	40.3792	0.0059	96	168	164	1.01	1.04	8.667
E6INTHRMAL01-	LM	LPU	18.1886	0.0028	192	73.33	0	0.00	0.45	8.667
E6NNHNDARK03-	LM	LPU	16.2360	0.0025	32	65	61	0.38	0.40	8.667
E6NNHEALTH04- E6NIMSP2LD04										
E6JNFEA09501-	SM	LPU	25.3776	0.0038	4	104	100	0.62	0.64	2.33
E6JNFEA09502-	SM	LPU	25.3776	0.0038	20	104	100	0.62	0.64	2.33
E6JNFEA09503-	SM	LPU	25.3776	0.0038	4	104	100	0.62	0.64	2.33
E6INVOLCAN01-	LM	LPU	19.7520	0.0030	50	80	76	0.47	0.49	8.667
E6JNFEA53M01-	LM	LPU	87.2592	0.0127	160	368	191	1.18	2.27	8.667
E6NNHEALTH05- E6NIMSP2LD05										
E6INVOLCAN02-	LM	LPU	24.6041	0.0037	10	100.7	96.67	0.60	0.62	8.667
E6JNFEA5UM01-	LM	LPU	87.2592	0.0127	80	368	364	2.25	2.27	8.667
E6INVOLCAN03-	LM	LPU	15.2281	0.0023	10	60.7	56.67	0.35	0.37	8.667
E6JNTHRMNS01-	LM	LPU	421.3566	0.0605	80	1793.33	1040	6.41	11.06	8.667
E6NNHEALTH06- E6NIMSP2LD06										
E6GNGLOBAL01-	LM	LPU	336.3561	0.0484	192	1430.7	478	2.95	8.82	8.667
E6JNFEA12401-	SM	LPU	25.3776	0.0038	4	104	100	0.62	0.64	2.33
E6JNFEA12402-	SM	LPU	25.3776	0.0038	20	104	100	0.62	0.64	2.33
E6JNFEA12403-	SM	LPU	25.3776	0.0038	4	104	100	0.62	0.64	2.33
E6INVOLCAN04-	LM	LPU	11.3136	0.0018	10	44	40	0.25	0.27	8.667
E6INTHRMAL02-	LM	LPU	30.3774	0.0045	96	125.33	0	0.00	0.77	8.667
E6INVOLCAN05-	LM	LPU	30.3703	0.0045	10	125.3	121.33	0.75	0.77	8.667
E6NNHEALTH07- E6NIMSP2LD07										
E6JNFEA14001-	SM	LPU	25.3776	0.0038	19	104	100	0.62	0.64	2.33
E6JNFEA14002-	SM	LPU	25.3776	0.0038	19	104	100	0.62	0.64	2.33
E6JNFEA14003-	SM	LPU	25.3776	0.0038	19	104	100	0.62	0.64	2.33
E6NNHNDARK04-	LM	LPU	16.2360	0.0025	32	65	61	0.38	0.40	8.667
E6JNFEA15001-	SM	LPU	23.9009	0.0036	20	97.7	93.667	0.58	0.60	2.33
E6JNFEA15002-	SM	LPU	23.9009	0.0036	20	97.7	93.667	0.58	0.60	2.33
E6JNFEA15003-	SM	LPU	23.9712	0.0036	20	98	94	0.58	0.60	2.33
E6NNPCTCAL01-	LM	LPU	132.9672	0.0192	228	563	60.667	0.37	3.47	8.667
E6CNCALLRT01-	LM	R/T			384					
E6CNGLOBAL01-	LM	MPW	443.0389	0.0634	192	500.67	121	1.39	5.77	8.667
	LM									
	LM									

NIMS E6 Resource Tables

ACTID	NIMS mode	Record mode	Tics	Obs. Cost (tracks)	Number wavelength returned	Observation record time (sec)	Observation playback time (sec)	Selected Bits of Tape sBOT (Mbits)	Total Bits of Tape BOT (Mbits)	Mode cycle time (sec)
	LM									
E6JNPFTB4802-	SM	LPU	98.8222	0.0143	20	417.33	413.33	2.55	2.57	2.33
E6INCHEMIS02-	LM	MPW	191.0846	0.0273	384	214	98	1.13	2.47	8.667
E6JNFEA02001-	SM	LPU	203.5216	0.0293	20	864	216	1.33	5.33	2.33
E6JNFEA02003-	SM	LPU	203.5216	0.0293	25	864	620	3.82	5.33	2.33
E6ENTERINC01A-	FM	MPW	1729.1596	0.2477	192	1964	0	0.00	22.63	4.333
E6ENTERINC01B-	FM	MPW			192	1964	247	2.85		4.333
E6INHRSPEC01-	LM	MPW	258.4962	0.0369	216	290.7	165	1.90	3.35	8.667
E6ENSUCOMP01-	LM	MPW	433.0458	0.0619	192	489.3	241	2.78	5.64	8.667
E6ENSUCOMP02-	LM	MPW	433.0458	0.0619	96	489.3	486	5.60	5.64	8.667
E6ENSEAICE01-	XM	LPU	113.5120	0.0164	10	480	63.39	0.39	2.96	0.333
E6JNFEA03801-	SM	LPU	203.5216	0.0293	25	864	485	2.99	5.33	2.33
E6JNFEA53M01-	LM	LPU	87.2592	0.0127	160	368	182	1.12	2.27	8.667
E6JNTHRMNS01-	LM	LPU	421.3566	0.0605	80	1793.33	546	3.37	11.06	8.667
E6GNGLOBAL01-	LM	LPU	336.3561	0.0484	192	1430.7	237	1.46	8.82	8.667
E6CNGLOBAL01-	LM	MPW	443.0389	0.0634	192	500.67	242	2.79	5.77	8.667
Total				**0.9521**					123.77	
Allocated				**1.296**						
Oversubscribed				**-0.3439**						

NIMS E6 Resource Tables

ACTID	AACS Mbits compress 2.5	RT BTG (Mbits)	Thold	Comp.	Playback BTG (Mbits) (4% Ohead)	Data Reduct. Factor (sBOT/BTG)	Pass
E6TNAURORA01+		0.0163					
E6JNFEA06401-	0.0058		0	1.88	0.019	32.47	1
E6JNFEA06402-	0.0058		0	1.88	0.095	6.49	1
E6JNFEA06403-	0.0058		0	1.88	0.019	32.47	1
E6NNHNDARK01-	0.0035		0	2.50	0.019	20.08	1
E6INCHEMIS01-	0.0060		2	1.50	0.160	7.50	1
E6NNHEALTH01-		0.001					
E6NIMSP2LD01							
E6JNFEA04801-	0.0058		0	1.88	0.019	32.47	1
E6JNFEA04802-	0.0008		0	1.88			1
E6JNPFTB4801-	0.0238		0	1.88	0.079	32.47	1
E6JNFEA04803-	0.0058		0	1.88	0.019	32.47	1
E6JNPFTA4802-	0.0008		0	2.00			1
E6JNRTHOTS01-		0.0160					
E6NIMSP2LD08							
E6INCHEMIS02-	0.0069		2	1.30	0.851	1.63	1
E6NNHNDARK02-	0.0035		0	2.50	0.019	20.08	1
E6JNFEA02001-	0.0373		0	1.88	0.615	6.49	1
E6JNFEA02002-	0.0058		0	1.88	0.119	5.20	1
E6NNHEALTH02-		0.0010		1.88			1
E6NIMSP2LD02				1.88			1
E6JNFEA02003-	0.0122		0	1.88	0.252	5.20	1
E6JNFEA02004-	0.0008		0	2.00			1
E6JNFEASUB01-	0.0210		0	1.90	0.368	6.10	1
E6NIMSP2LD10							
E6ENEURORT01-		0.0160					
E6ENTERINC01A-	0.0000		2	1.40	0.000		1,2
E6ENTERINC01B-	0.0145		0	1.35	1.714	1.69	1
E6INHRSPEC01-	0.0075		2	1.25	0.539	2.78	1
E6INCHEMIS03-	0.0000		2	1.20	0.000		1
							1
E6ENSUCOMP01-	0.0146		0	1.30	0.897	3.25	1
E6ENSUCOMP02-	0.0280		0	1.30	1.723	3.25	1
E6INRTIMON01-		0.016	0	1.30			
E6ENBRTPLN01+			0	1.30	0.227	1.63	1
E6ENBRTPLN02+			0	1.30			1
E6ENSEAICE01-	0.0037		0	2.00	0.198	1.97	1
E6INCHEMIS05-	0.0000		2	1.20	0.000		1
E6NNHEALTH03-		0.001					
E6NIMSP2LD03							

NIMS E6 Resource Tables

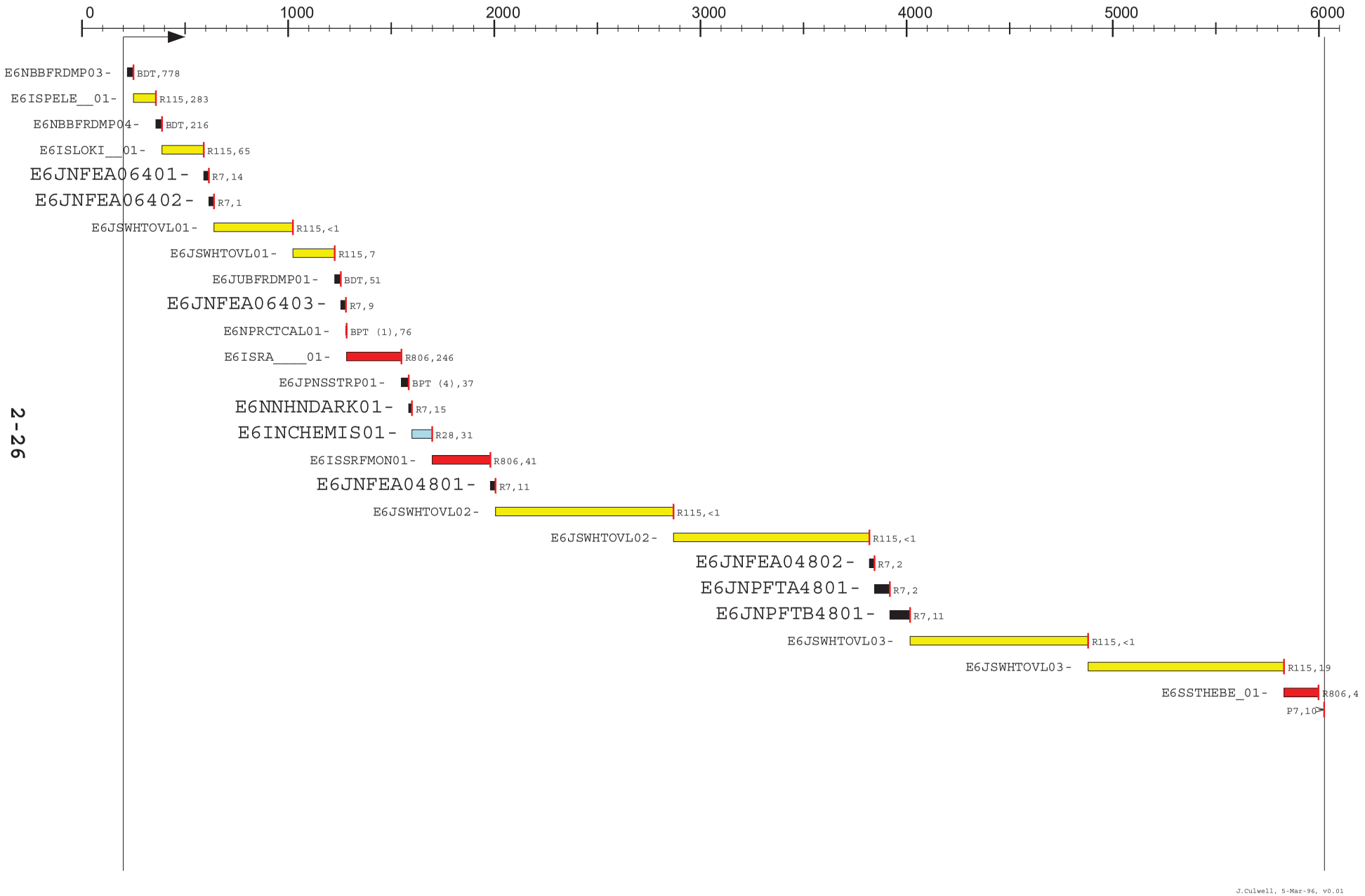
ACTID	AACS Mbits compress 2.5	RT BTG Thold (Mbits)	Comp.	Playback BTG (Mbits) (4% Ohead)	Data Reduct. Factor (sBOT/BTG)	Pass
E6JNFEA03801-	0.0249	0	2.00			1
E6INCHEMIS06-	0.0094	2	1.50	0.252	4.02	1
E6INTHRMAL01-	0.0000	2	2.00	0.000		1
E6NNHNDARK03-	0.0035	0	2.50	0.019	20.08	1
E6NNHEALTH04-		0.001				
E6NIMSP2LD04						
E6JNFEA09501-	0.0058	0	1.88	0.019	32.47	1
E6JNFEA09502-	0.0058	0	1.88	0.095	6.49	1
E6JNFEA09503-	0.0058	0	1.88	0.019	32.47	1
E6INVOLCAN01-	0.0044	2	3.00	0.030	15.42	1
E6JNFEA53M01-	0.0110	0	1.30	0.564	2.09	1
E6NNHEALTH05-		0.0010				
E6NIMSP2LD05						
E6INVOLCAN02-	0.0056	2	3.00			1
E6JNFEA5UM01-	0.0210	0	1.30	0.538	4.18	1
E6INVOLCAN03-	0.0033	2	3.00			1
E6JNTHRMNS01-	0.0599	0	1.30	1.536	4.18	1
E6NNHEALTH06-		0.0010				
E6NIMSP2LD06						1
E6GNGLOBAL01-	0.0275	0	2.00	1.101	2.68	1
E6JNFEA12401-	0.0058	0	1.88	0.019	32.47	1
E6JNFEA12402-	0.0058	0	1.88	0.095	6.49	1
E6JNFEA12403-	0.0058	0	1.88	0.019	32.47	1
E6INVOLCAN04-	0.0023	2	3.00			1
E6INTHRMAL02-	0.0000	2	2.00	0.000		1
E6INVOLCAN05-	0.0070	2	3.00			1
E6NNHEALTH07-		0.001				
E6NIMSP2LD07						
E6JNFEA14001-	0.0058	0	1.88	0.090	6.84	1
E6JNFEA14002-	0.0058	0	1.88	0.090	6.84	1
E6JNFEA14003-	0.0058	0	1.88	0.090	6.84	1
E6NNHNDARK04-	0.0035	0	2.50	0.019	20.08	1
E6JNFEA15001-	0.0054	0	1.88	0.089	6.49	1
E6JNFEA15002-	0.0054	0	1.88	0.089	6.49	1
E6JNFEA15003-	0.0054	0	1.88	0.089	6.49	1
E6NNPCTCAL01-	0.0035	0	2.20	0.151	2.48	1
E6CNCALLRT01-		0.0480				
E6CNGLOBAL01-	0.0070	2	2.25	0.248	5.63	1
		0.040				
		0.040				

NIMS E6 Resource Tables

ACTID	AACS Mbits compress 2.5	RT BTG (Mbits)	Thold	Comp.	Playback BTG (Mbits) (4% Ohead)	Data Reduct. Factor (sBOT/BTG)	Pass
		0.014					
E6JNPFTB4802-	0.0238		0	2.00	0.369	6.91	2
E6INCHEMIS02-	0.0056		2	1.30	0.695	1.63	2
E6JNFEA02001-	0.0124		0	1.88	0.205	6.49	2
E6JNFEA02003-	0.0357		0	1.88	0.736	5.20	2
E6ENTERINC01A-	0.0000		2	1.40	0.000		2
E6ENTERINC01B-	0.0142		0	1.35	1.686	1.69	2
E6INHRSPEC01-	0.0095		2	1.25	0.684	2.78	2
E6ENSUCOMP01-	0.0139		0	1.30	0.854	3.25	2
E6ENSUCOMP02-	0.0280		0	1.30	0.861	6.50	2
E6ENSEAICE01-	0.0037		0	2.00	0.198	1.97	2
E6JNFEA03801-	0.0279		0	1.88	0.576	5.20	2
E6JNFEA53M01-	0.0105		0	1.30	0.538	2.09	2
E6JNTHRMNS01-	0.0314		0	1.30			2
E6GNGLOBAL01-	0.0137		0	2.00			2
E6CNGLOBAL01-	0.0139		2	2.25			2
Total					20.611	Planned BTG	
Allocated					20.612	Allocation	
Oversubscribed					-0.001	Over/under	

Phase 2A Tapemap of /home/dbliss/camel.961217c.ssdf
Date: Wed Dec 18 13:32:41 1996 Page: 1

Track 1



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

Phase 2A Tapemap of /home/dbliss/camel.961217c.ssdf
Date: Wed Dec 18 13:32:41 1996 Page: 2

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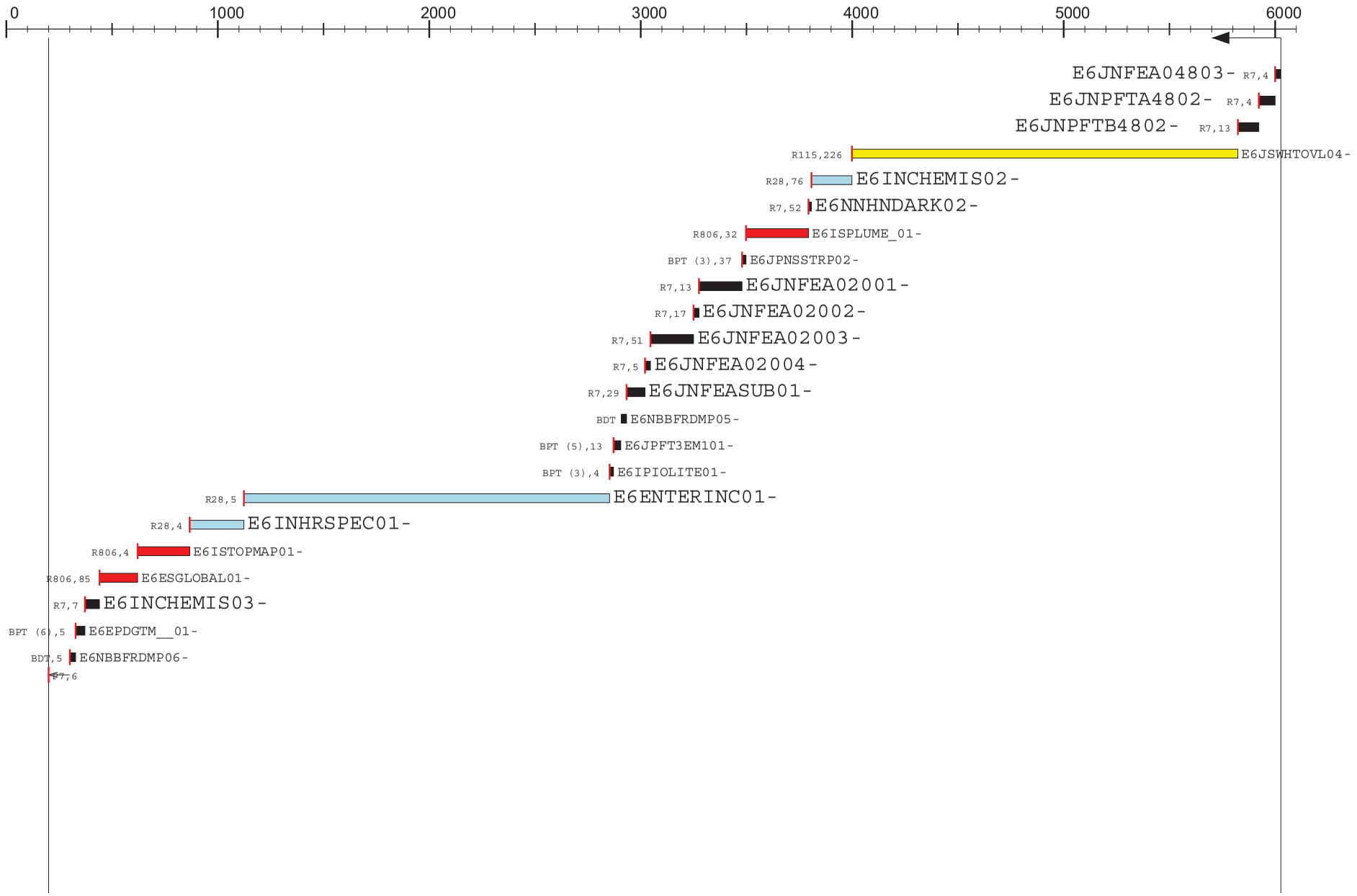

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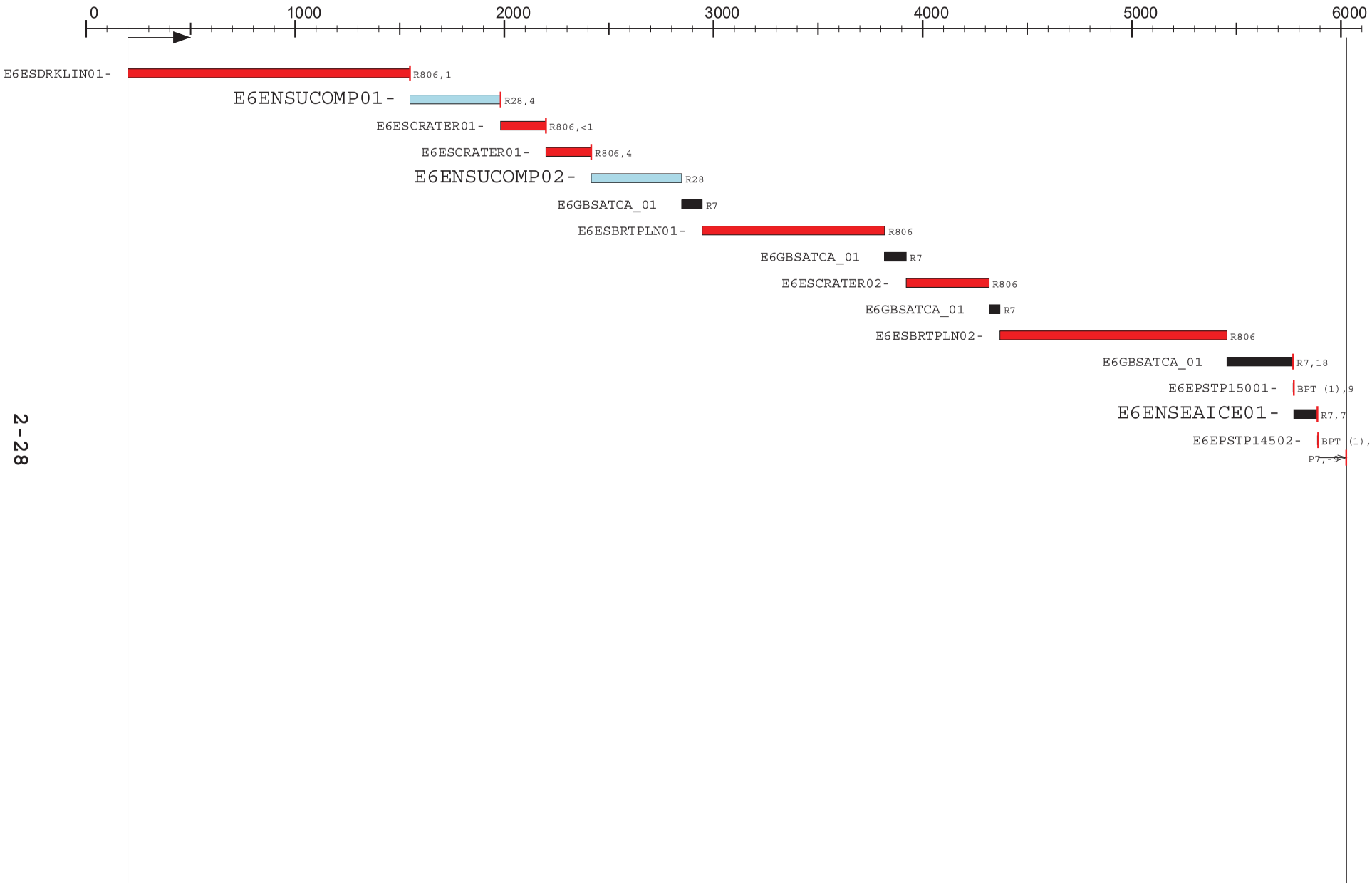

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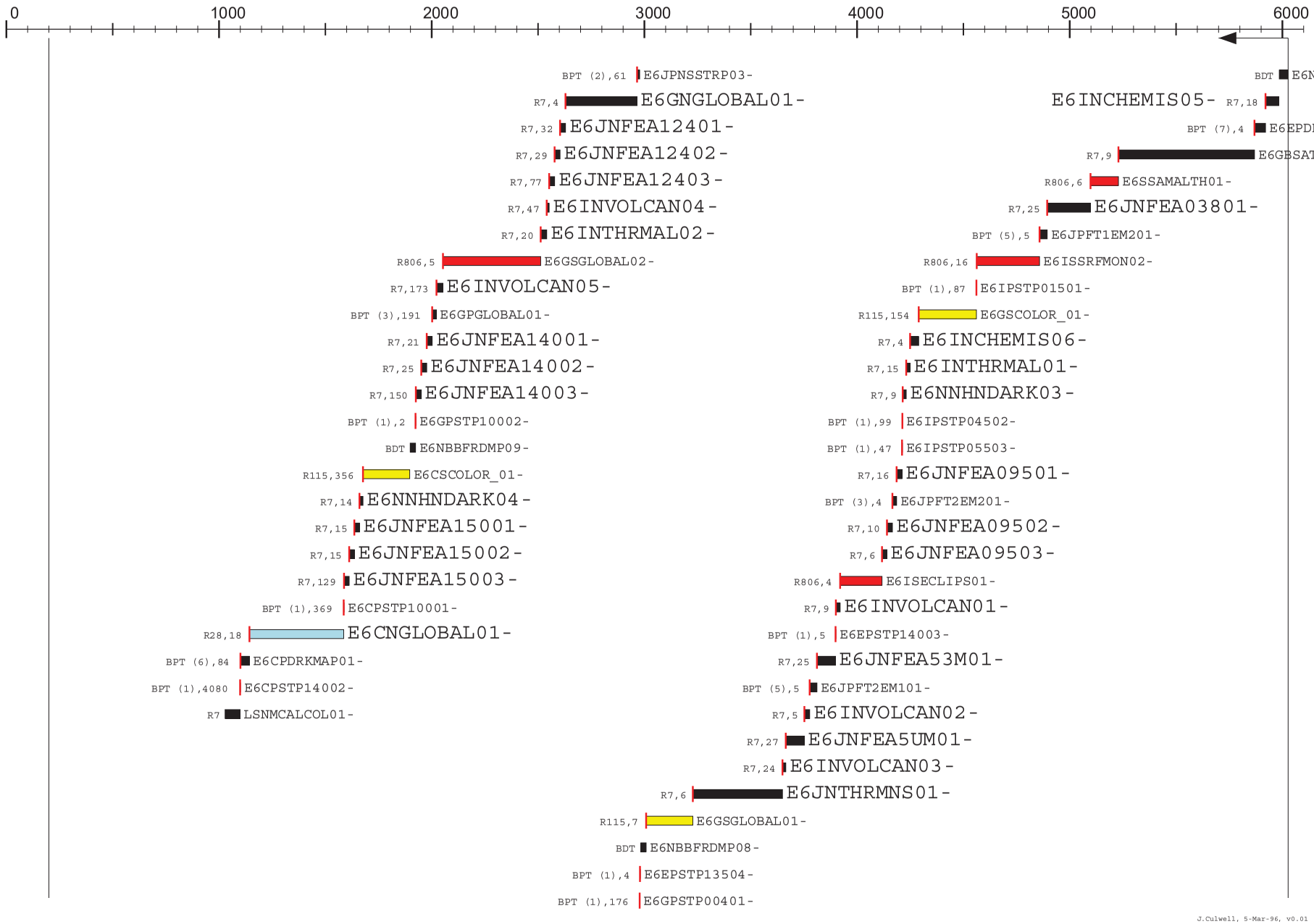

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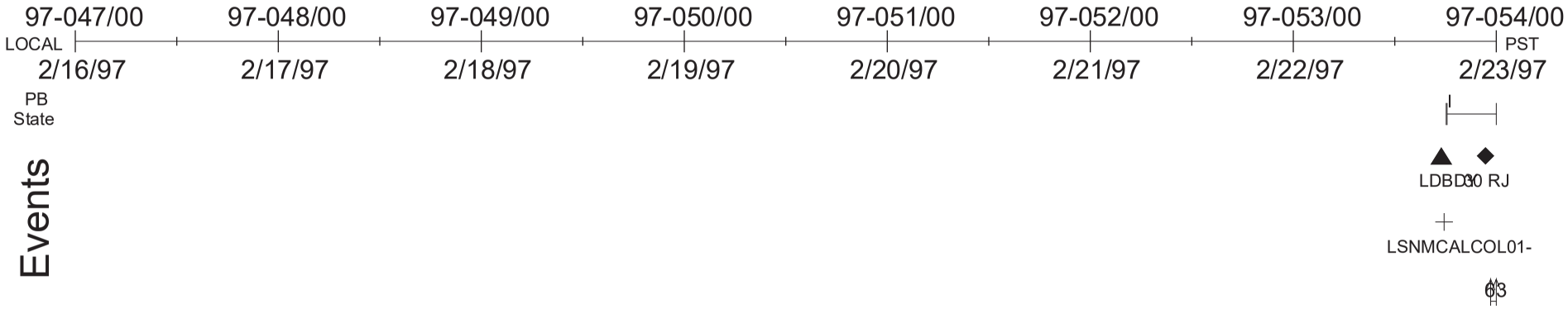
2-30

Playback / Date Returned



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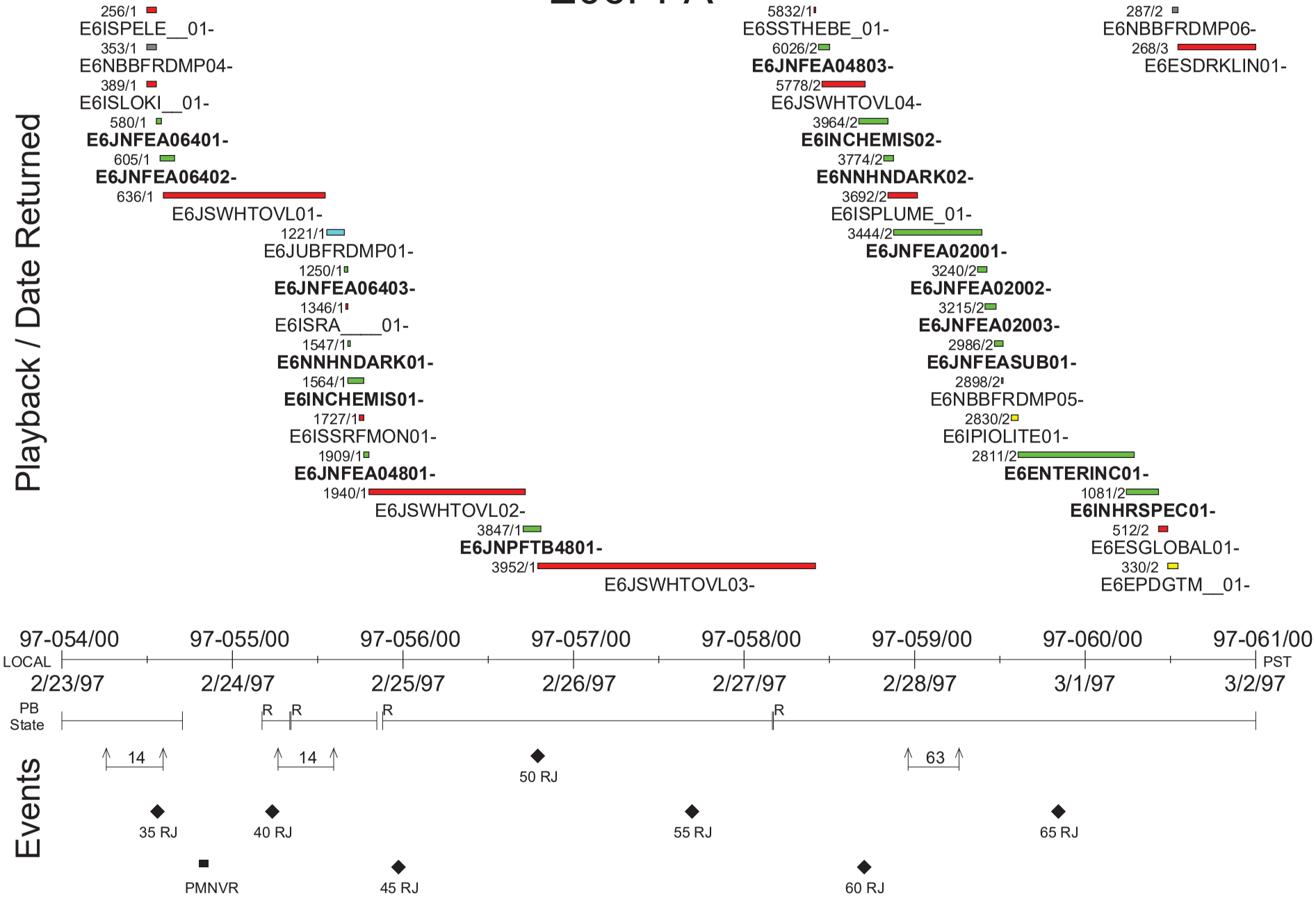
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636/1
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1346/1
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1909/1
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R
R
R
R
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63
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65 RJ
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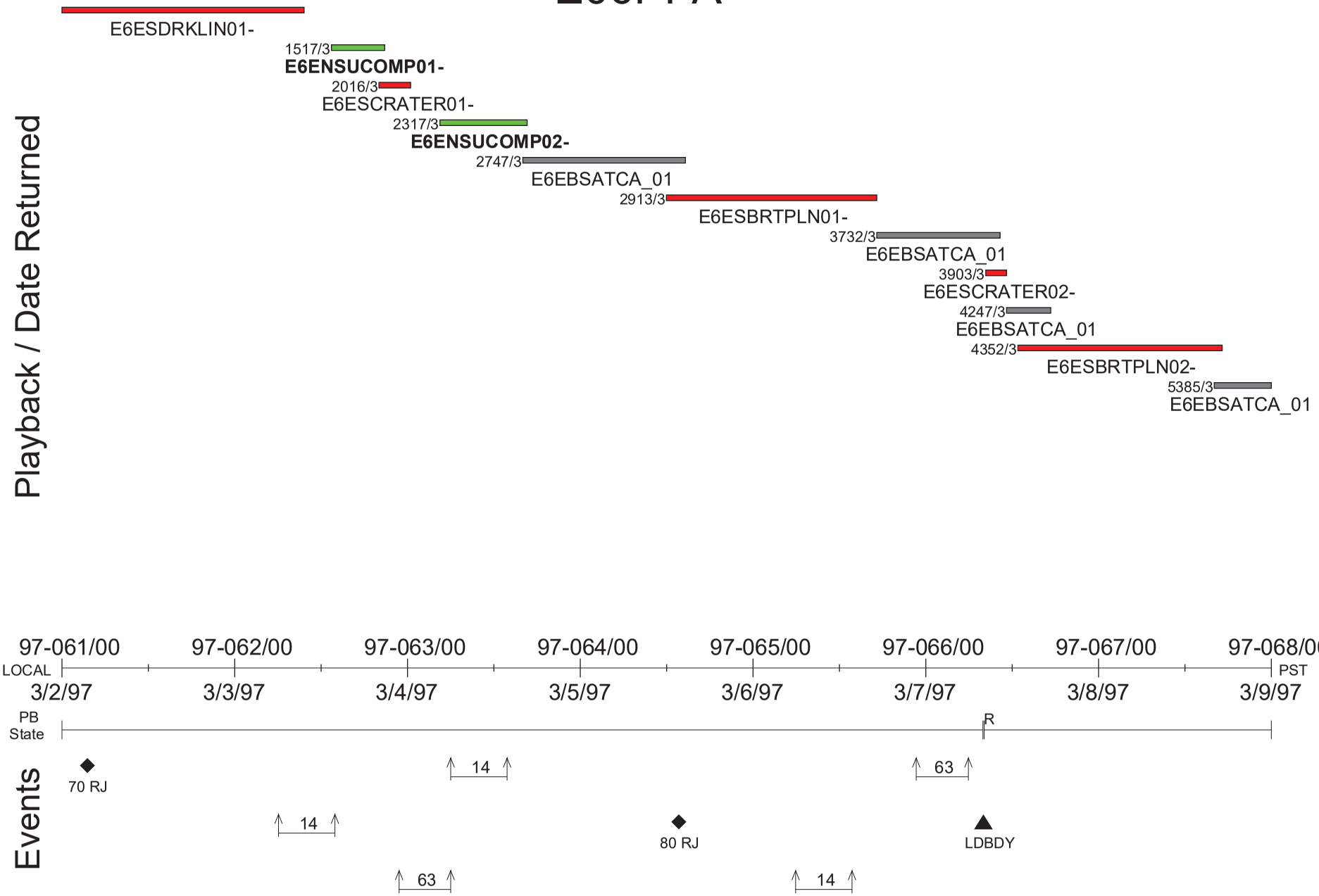
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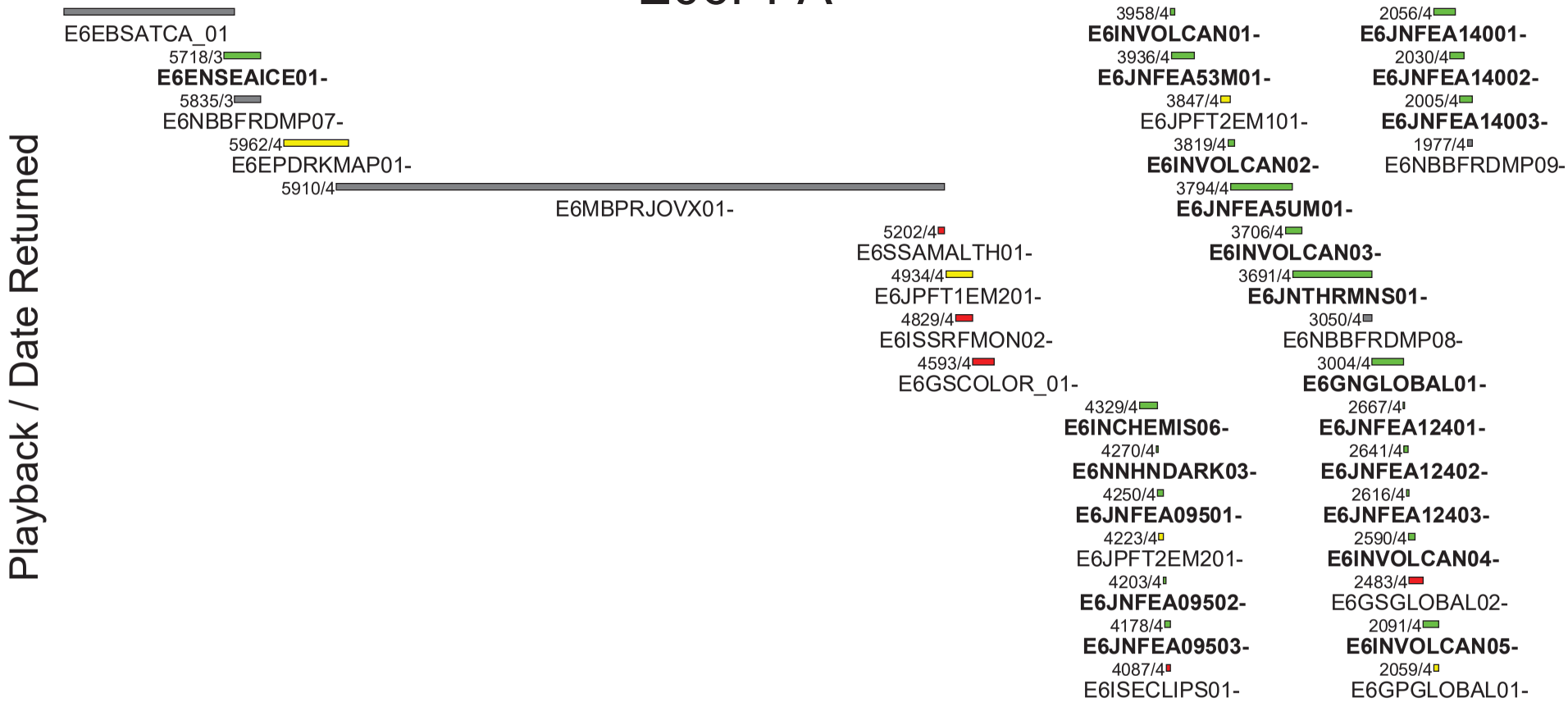
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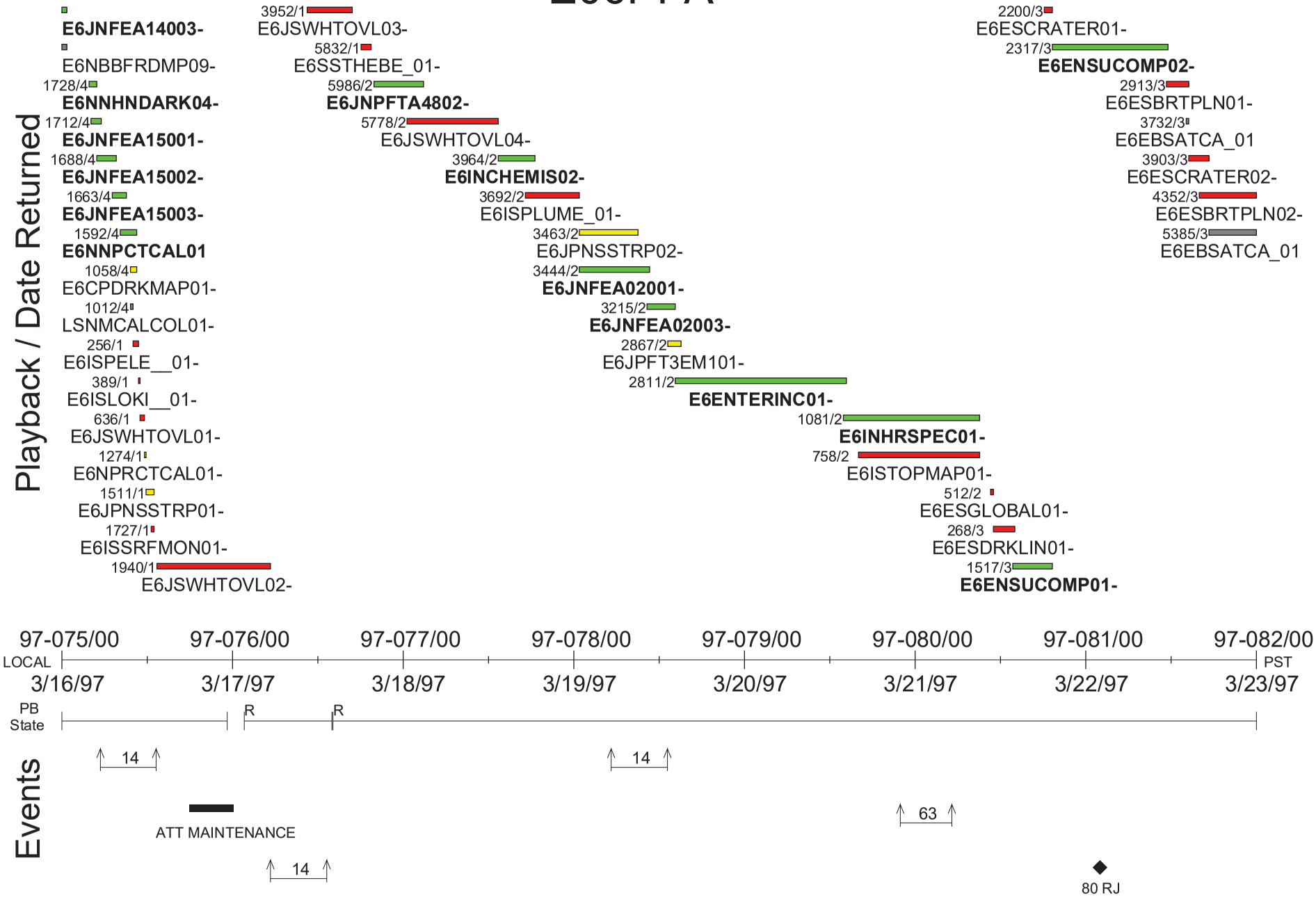
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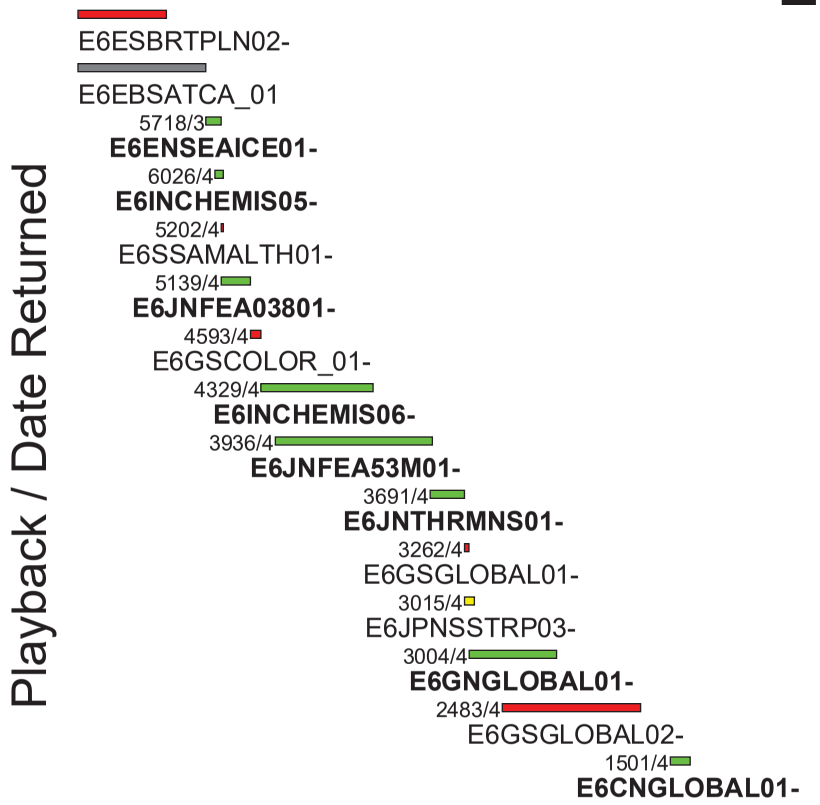
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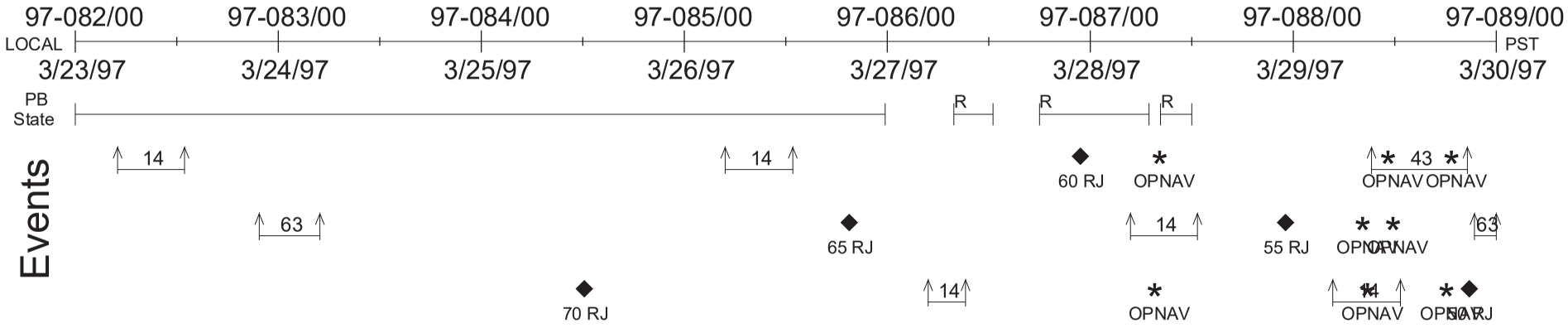
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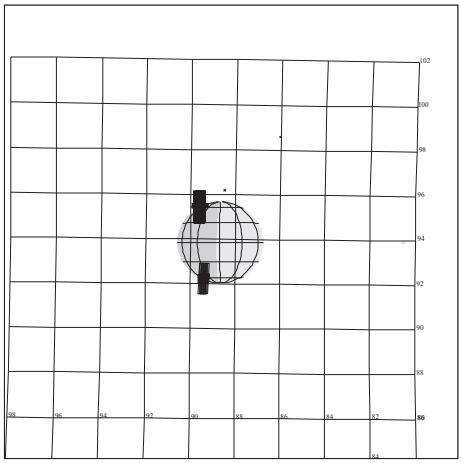

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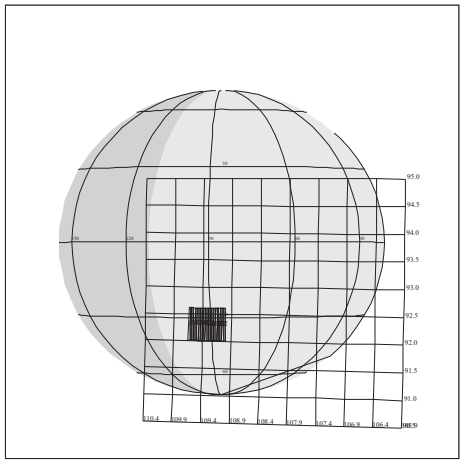

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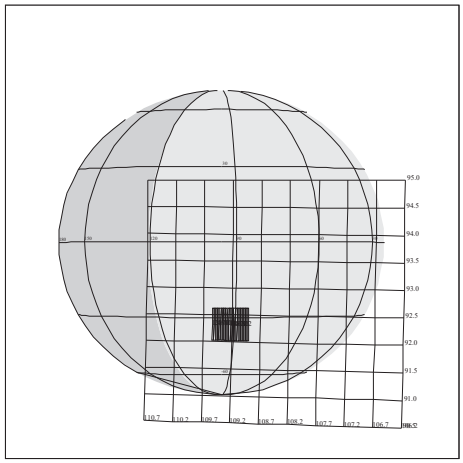

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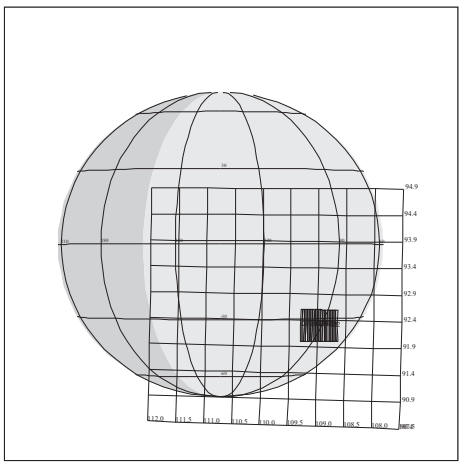

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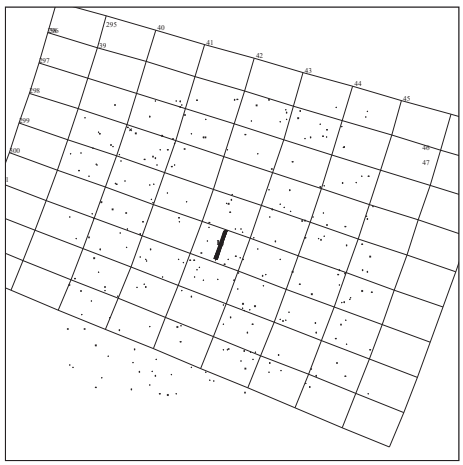

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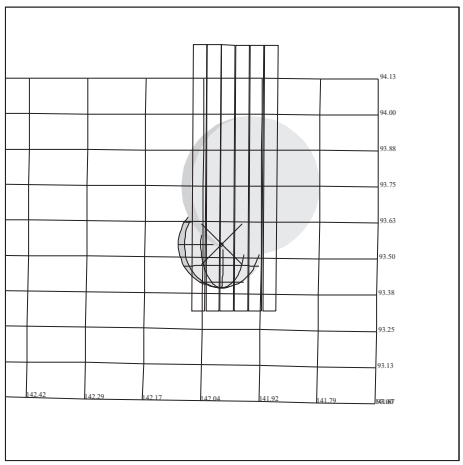

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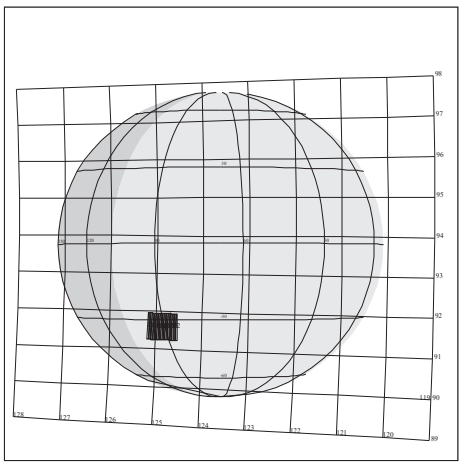

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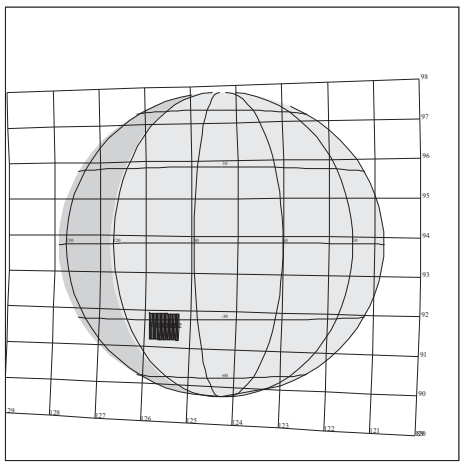

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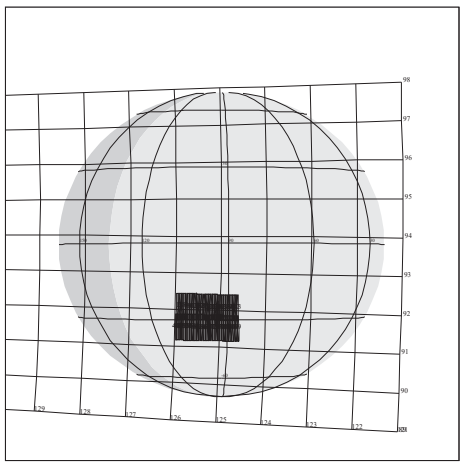

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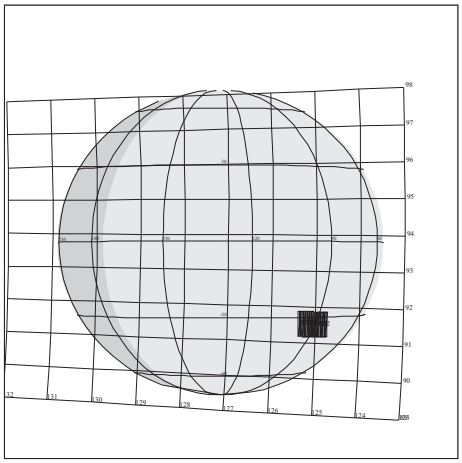

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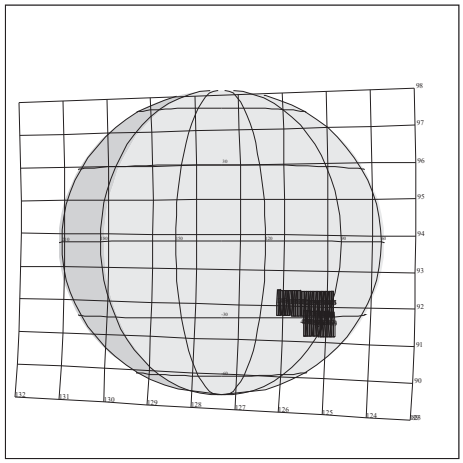

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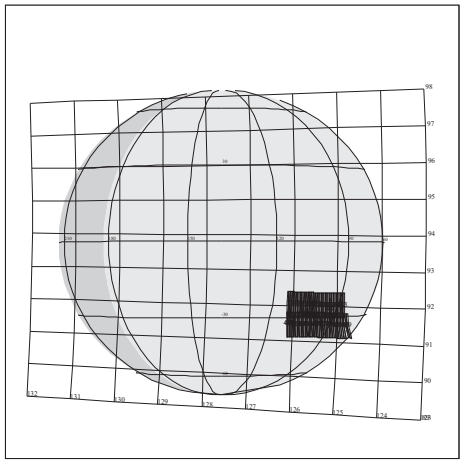

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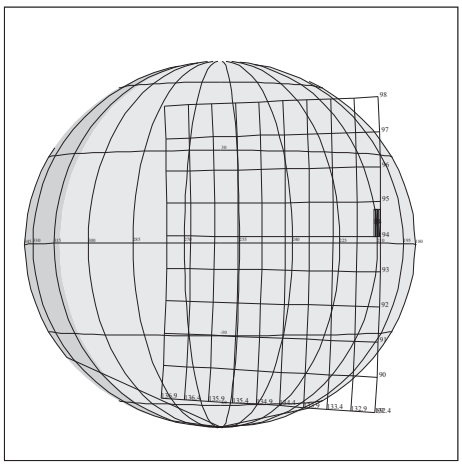

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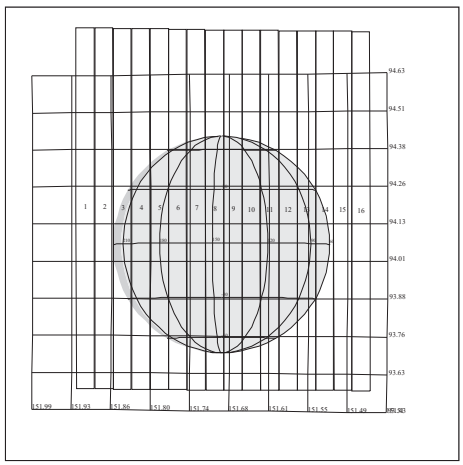

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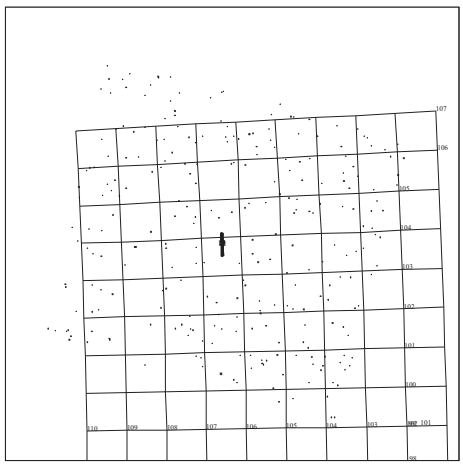

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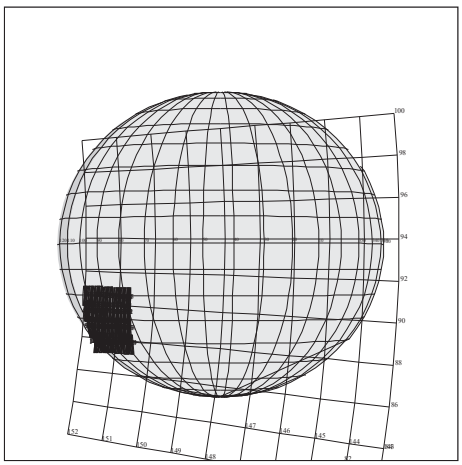

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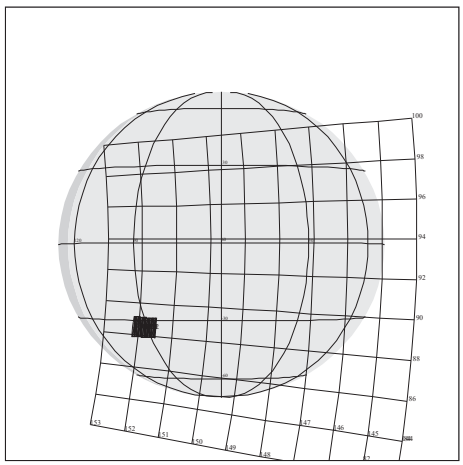

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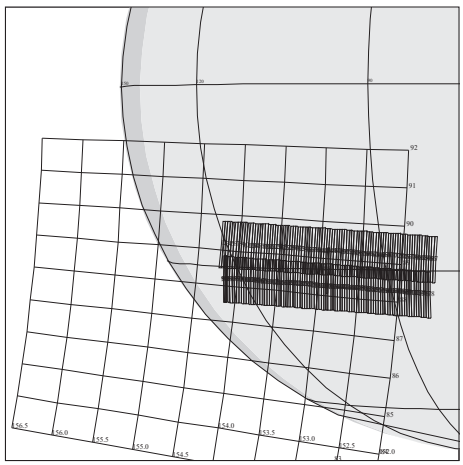

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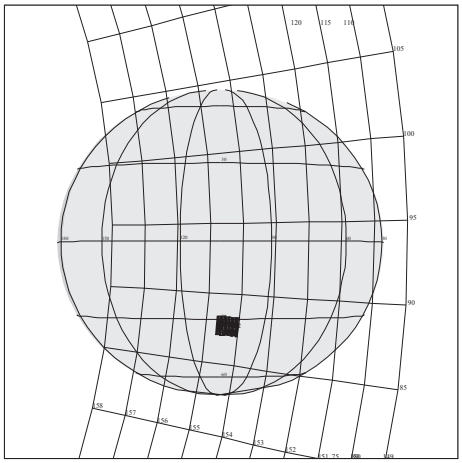

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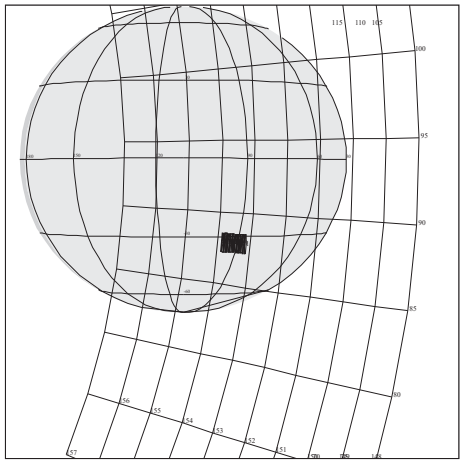

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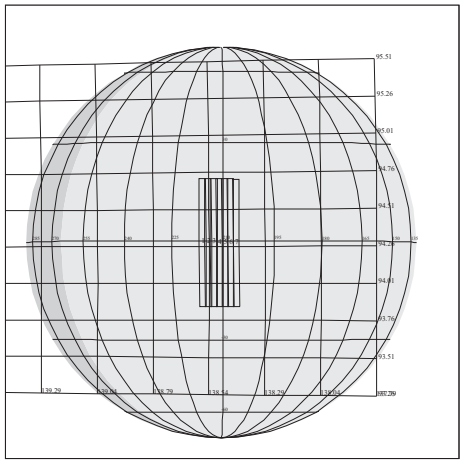

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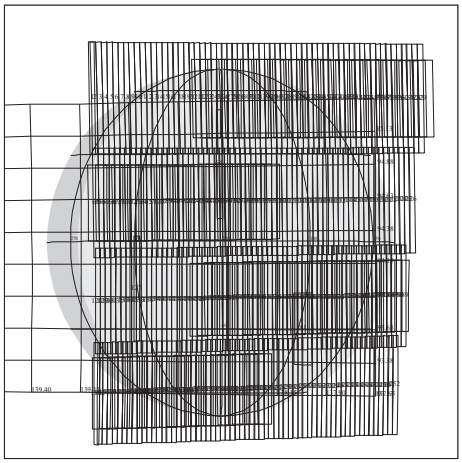

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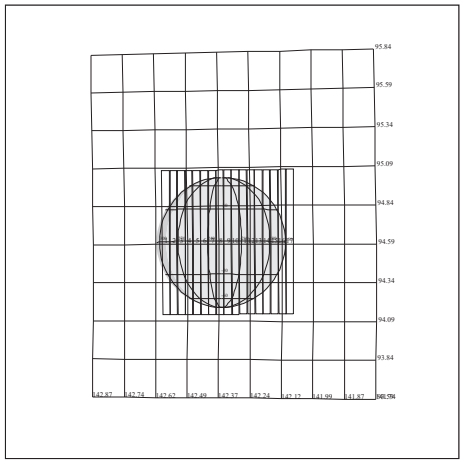

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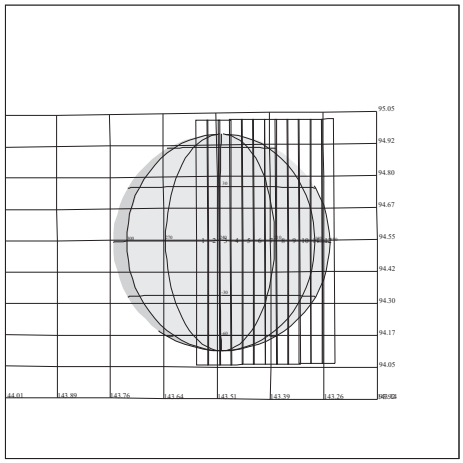

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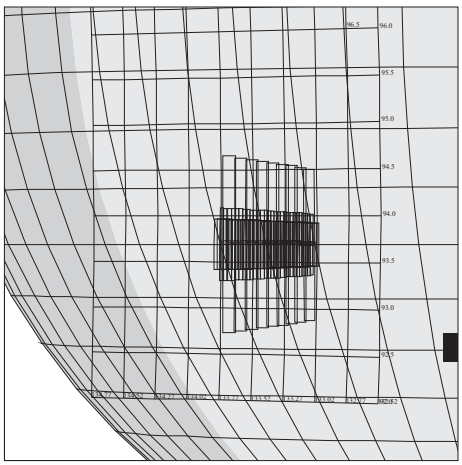

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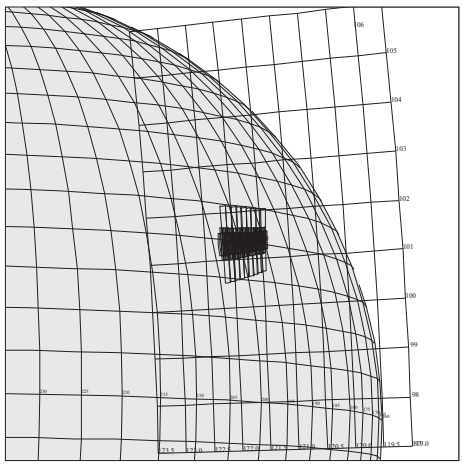

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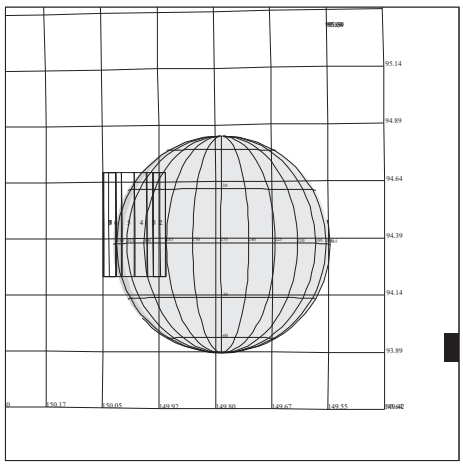

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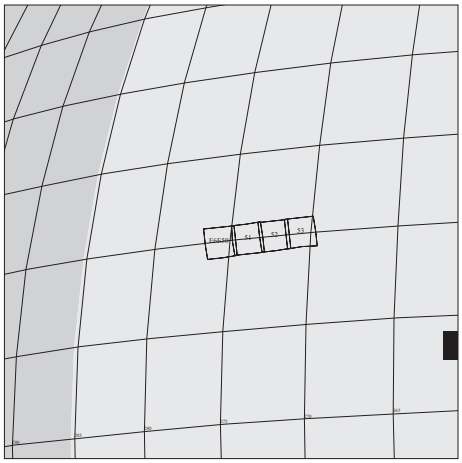

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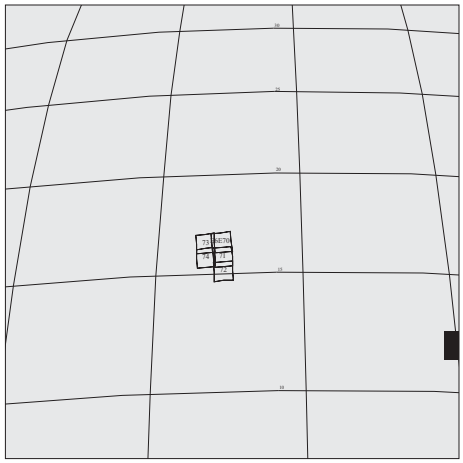

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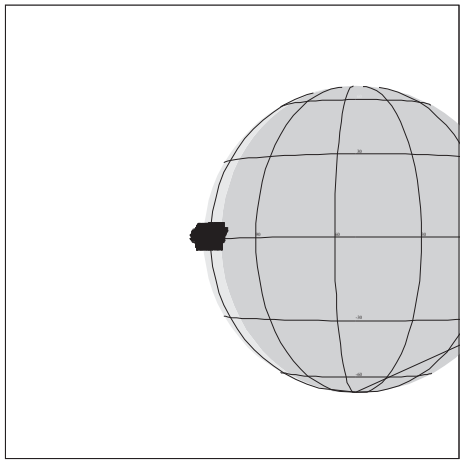

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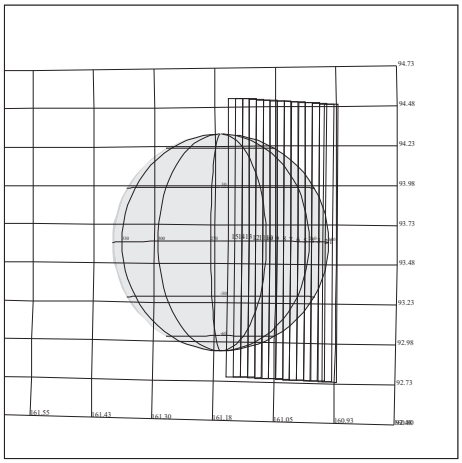

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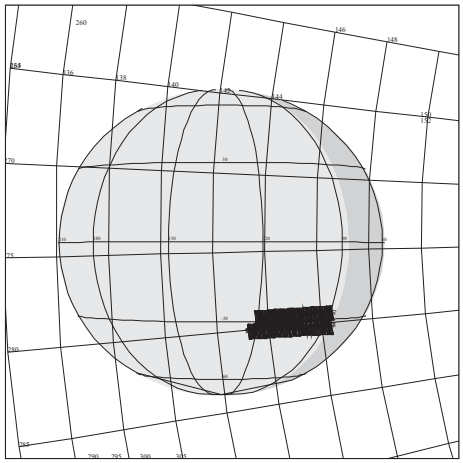

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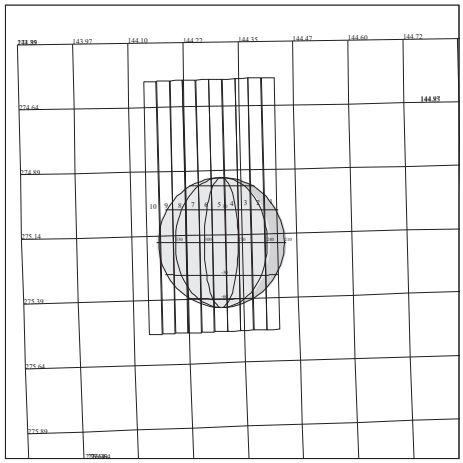

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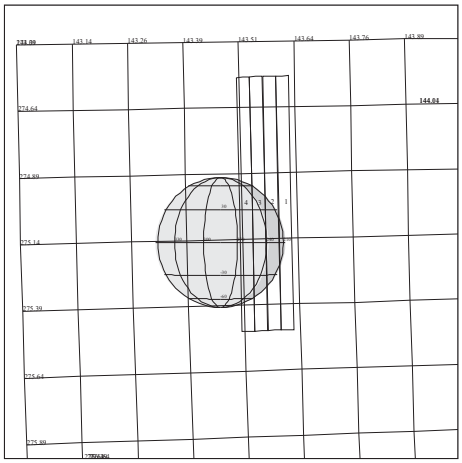

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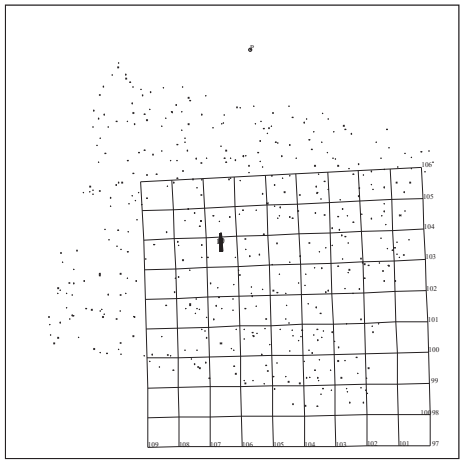

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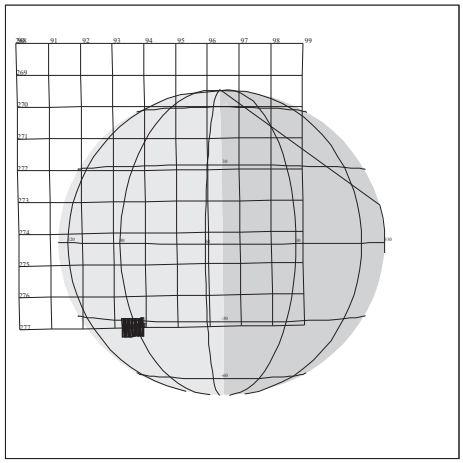

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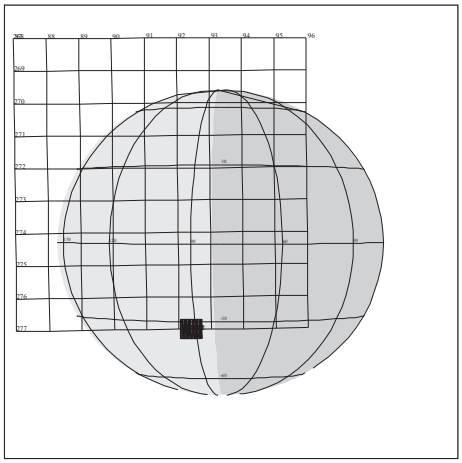
E6 NIMS E



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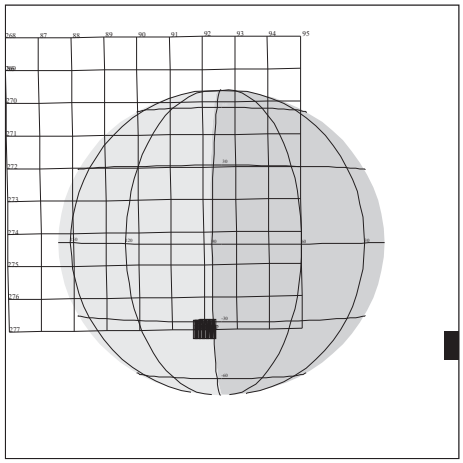

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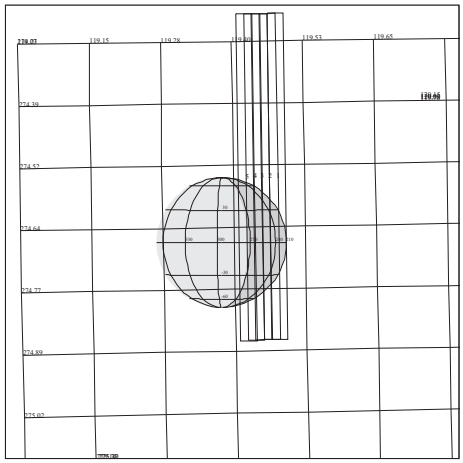

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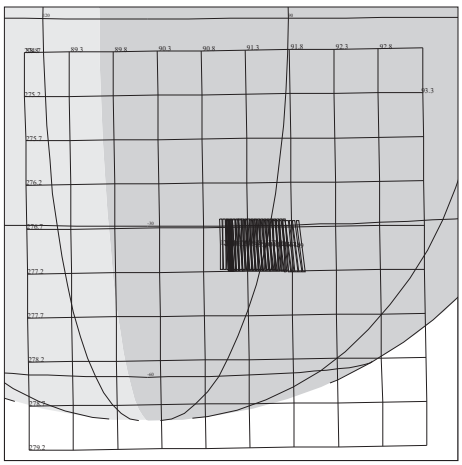

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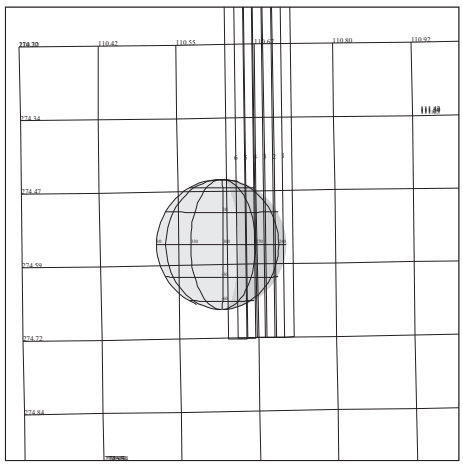

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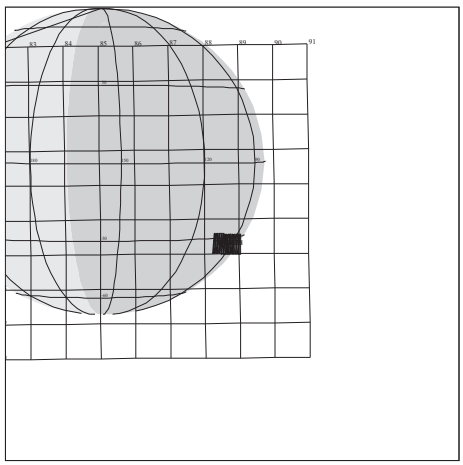

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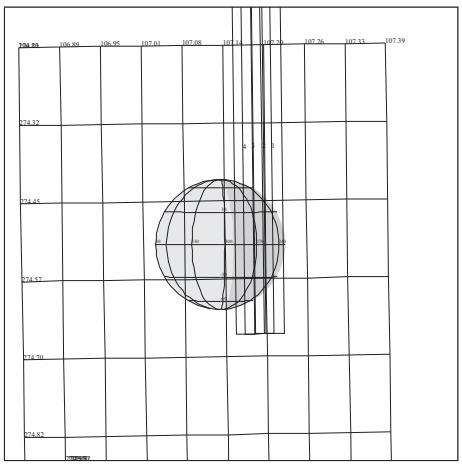

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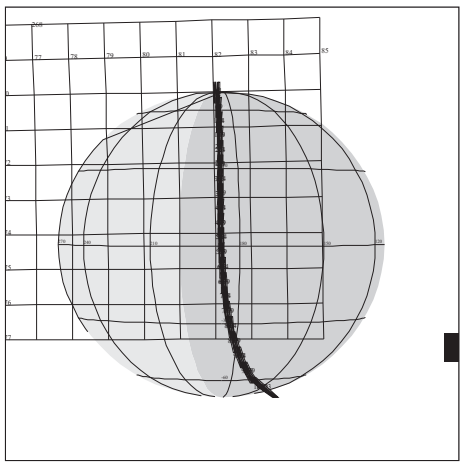
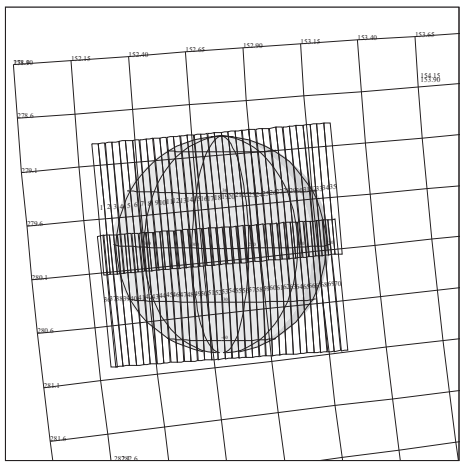
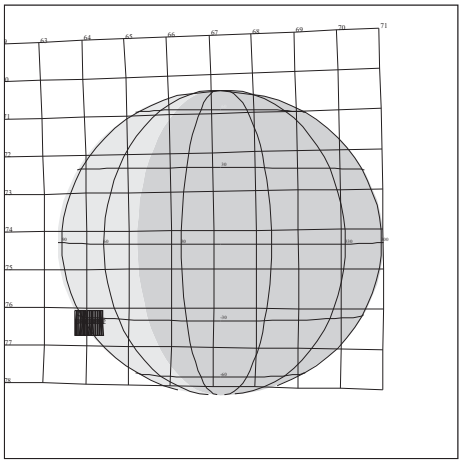


E6JNTHRMNS01
97-052/11:02:12

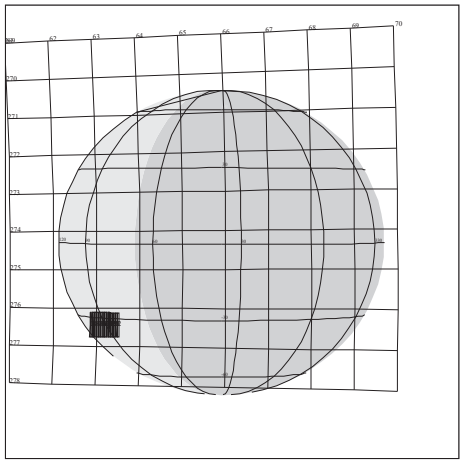


E6GNGLOBAL01
97-052/16:15:32

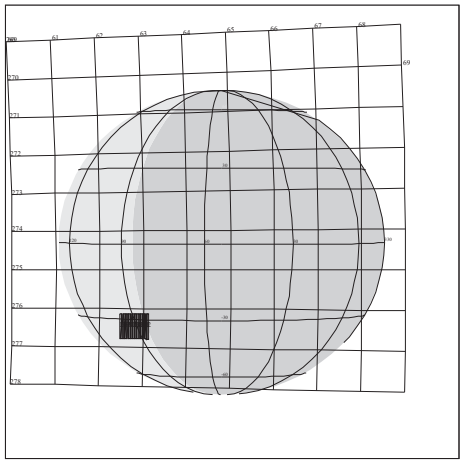
E6 NIMS F



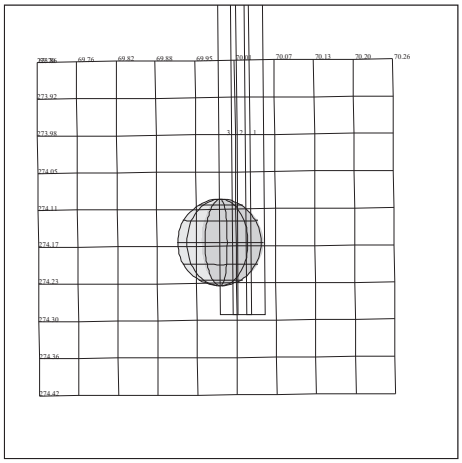
E6JNFEA12401
97-052/16:43:51



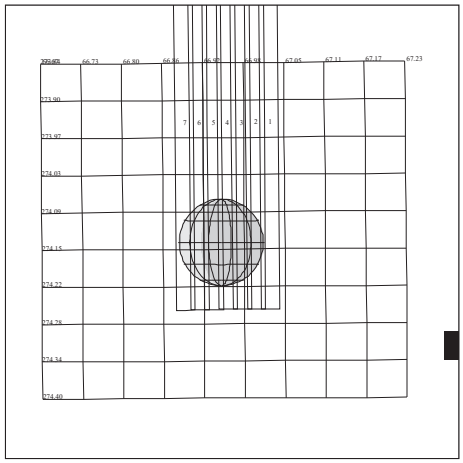
E6JNFEA12402
97-052/17:17:19



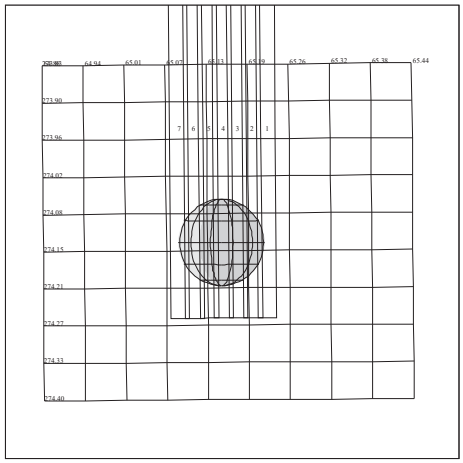
E6JNFEA12403
97-052/17:48:40



E6INVOLCAN04
97-052/19:10:34



E6INTHRMAL02
97-052/19:58:05



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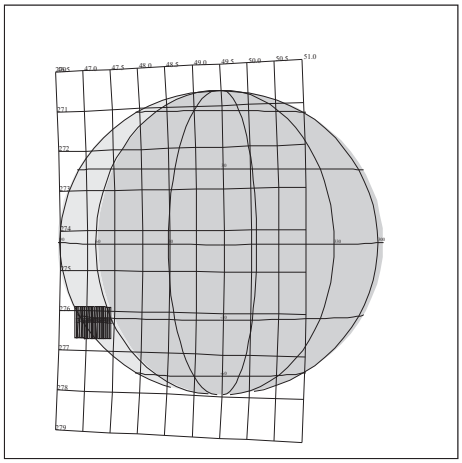
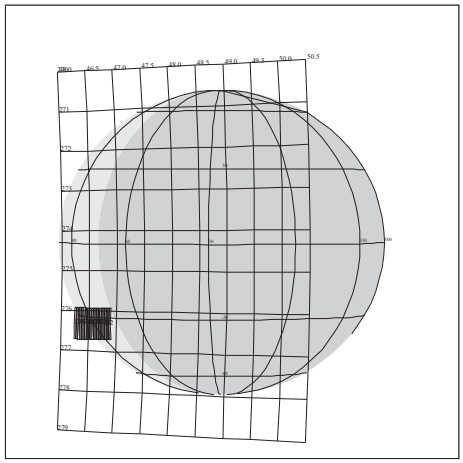
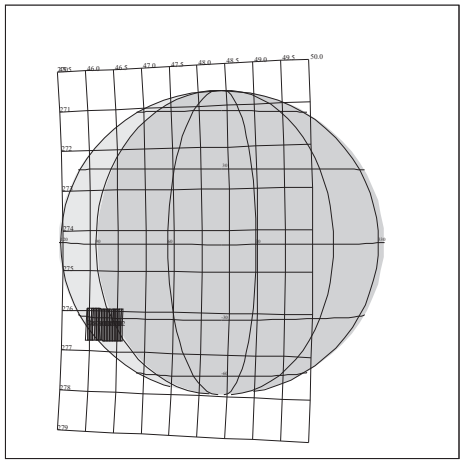
97-052/20:28:25



E6JNFEA14001
97-053/02:59:43

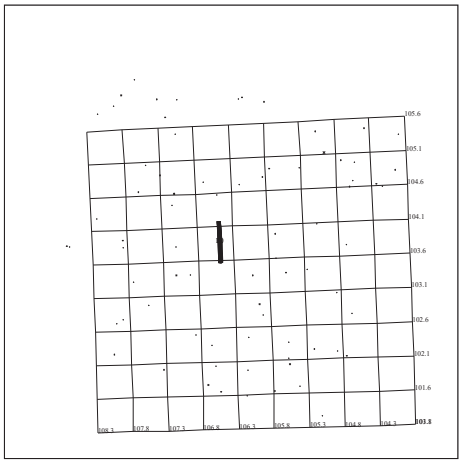


E6JNFEA14002
97-053/03:22:59

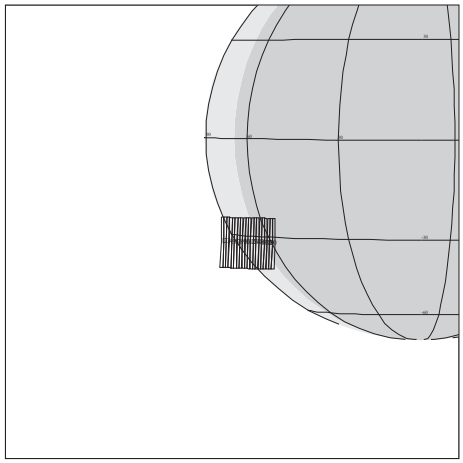


E6JNFEA14003
97-053/03:50:17

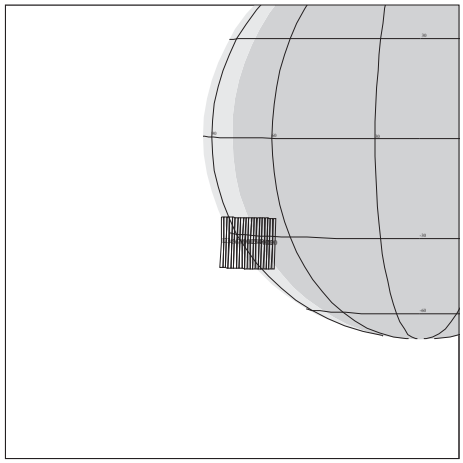
E6 NIMS G



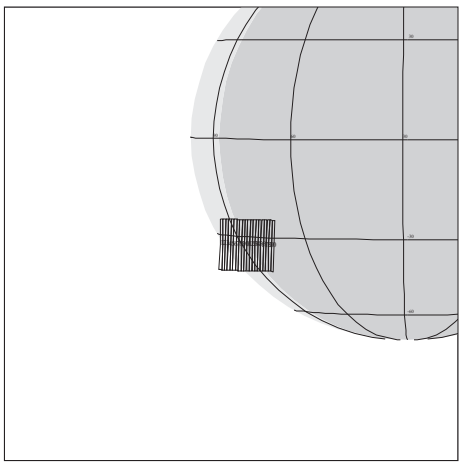
E6HNDARK__04
97-053/12:51:13



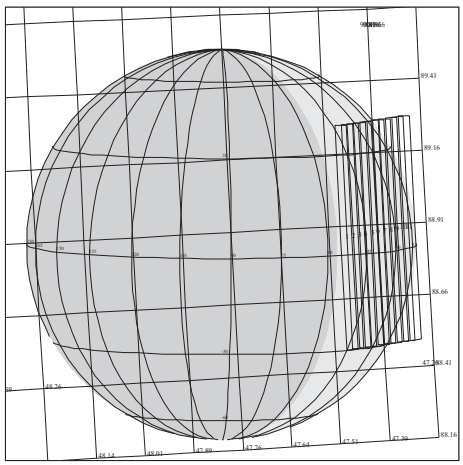
E6JNFEA15001
97-053/13:07:24



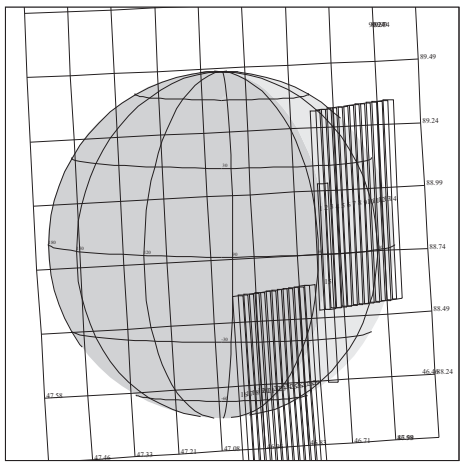
E6JNFEA15002
97-053/13:24:35



E6JNFEA15003
97-053/13:41:47



E6CNCALLRT01
97-053/21:55:12



E6CNGLOBAL01
97-053/22:03:17

Chapter 3 - Orbit Geometries

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Introduction to Chapter 3

This chapter contains diagrams of various aspects of geometry for the E6 Orbit.

The figure on page 3 is a North Trajectory Pole View of the E6 Orbit from apoapsis to apoapsis.

The figure on page 4 is a North Trajectory Pole View of the E6 Orbit from +/- 5 days of Europa closest approach.

The figure on page 5 is a North Trajectory Pole View of the E6 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 E6 Orbit from +/- 1 hour of Europa closest approach.

The figure on page 9 is a South Trajectory Pole View of the E6 Orbit from +/- 1 hour of Europa closest approach.

The figure on page 10 shows spacecraft altitude with respect to Europa (km).

The figure on page 11 shows the cone angle of Europa (Earth - S/C - Europa, deg).

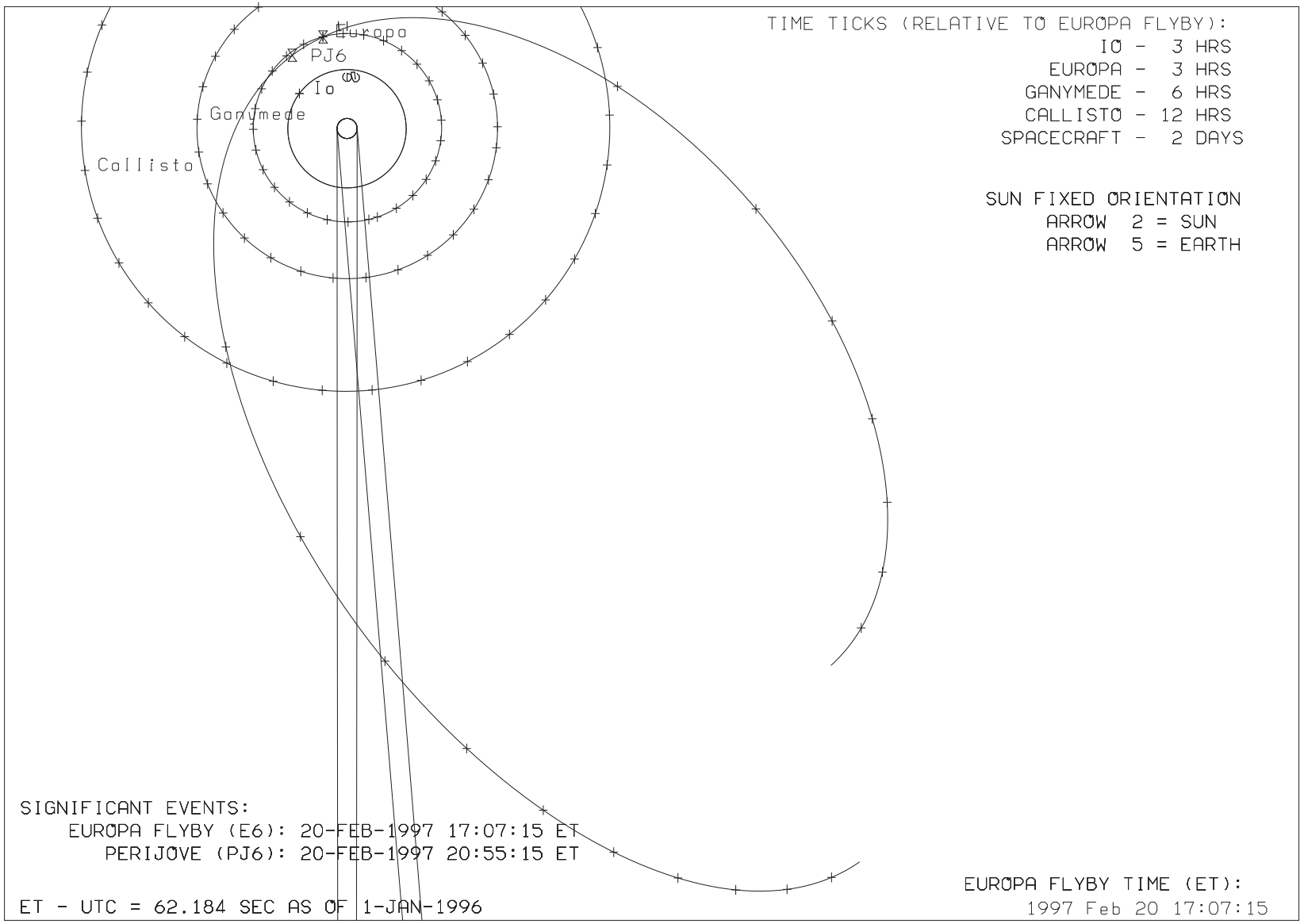
The figure on page 12 shows the Sun-Europa-S/C Angle (deg).

The figure on page 13 shows spacecraft range to Jupiter's center of mass (Rj).

The figure on page 14 shows the cone angle of Jupiter (Earth - S/C - Jupiter, deg).

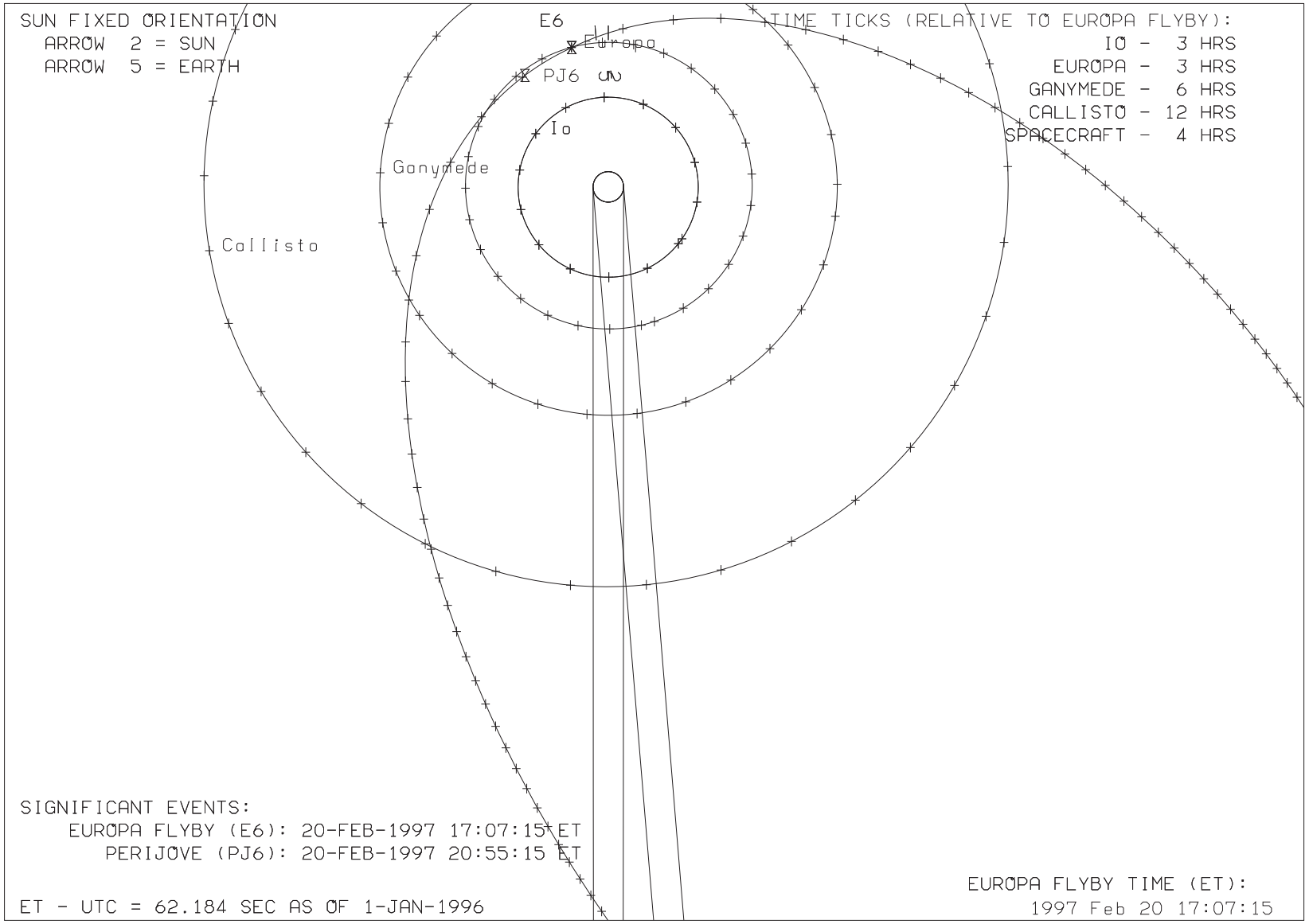
The figure on page 15 shows the Sun-Jupiter-S/C Angle (deg).

Jupiter 6: North Trajectory Pole View (E6 Apo to Apo)



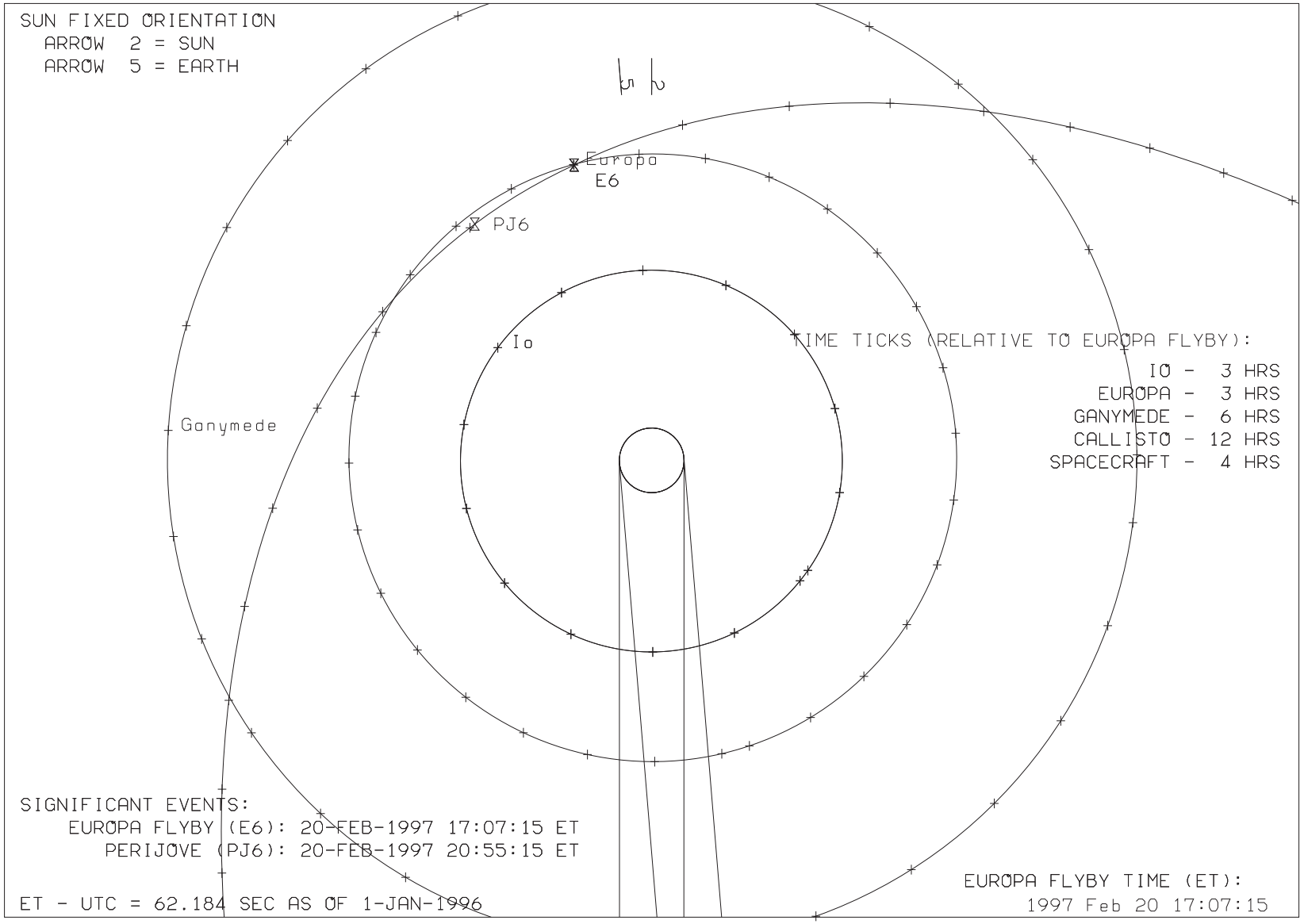
JLB 1/9/97

Jupiter 6: North Trajectory Pole View (E6 +/- 5 days)



JLB 1/9/97

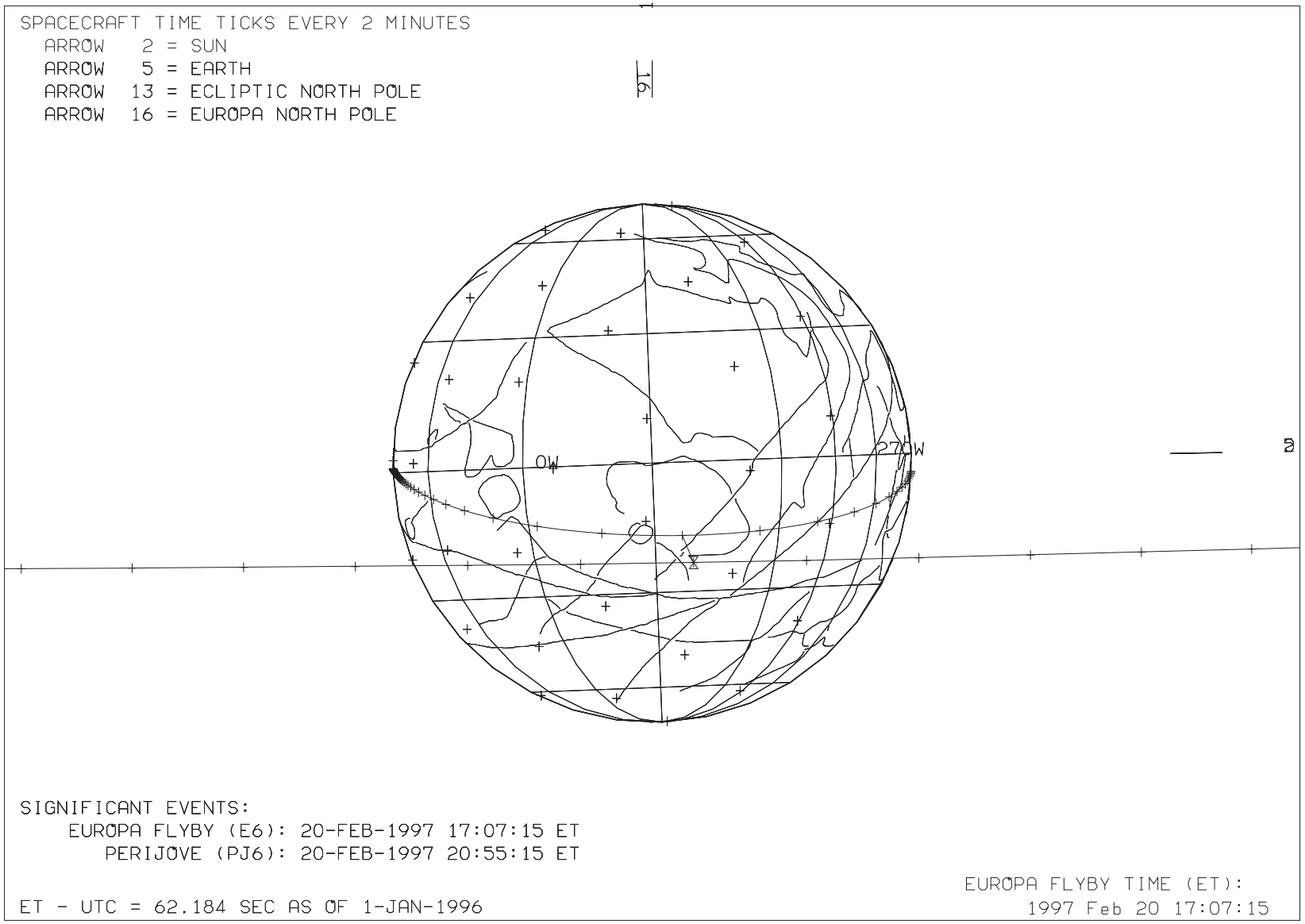
Jupiter 6: North Trajectory Pole View (E6 +/- 1 day)



JLB 1/9/97

EUROPA 6: GROUNDTRACK AT CLOSEST APPROACH

SPACECRAFT TIME TICKS EVERY 2 MINUTES
ARROW 2 = SUN
ARROW 5 = EARTH
ARROW 13 = ECLIPTIC NORTH POLE
ARROW 16 = EUROPA NORTH POLE



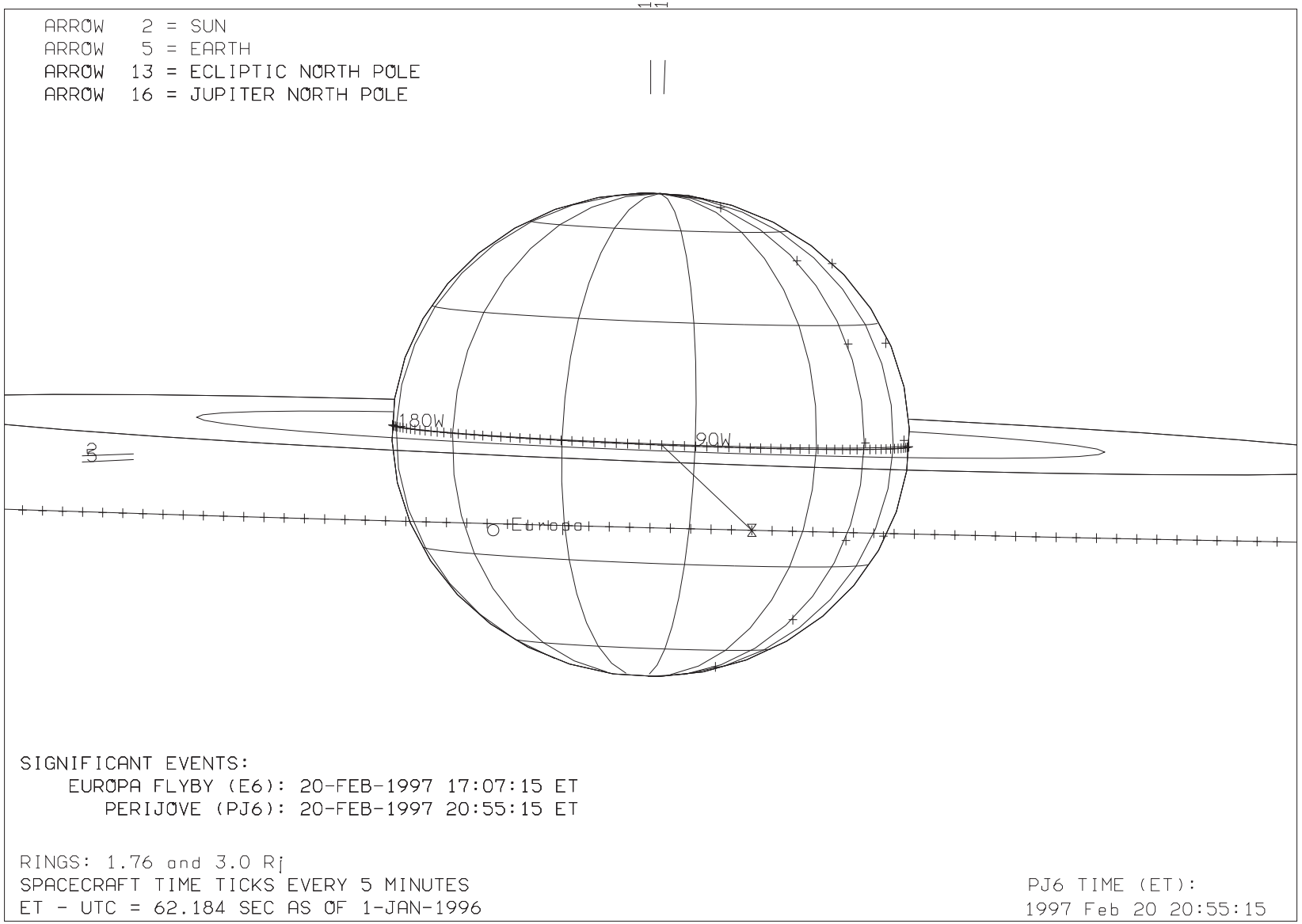
SIGNIFICANT EVENTS:
EUROPA FLYBY (E6): 20-FEB-1997 17:07:15 ET
PERIJOVE (PJ6): 20-FEB-1997 20:55:15 ET

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

EUROPA FLYBY TIME (ET):
1997 Feb 20 17:07:15

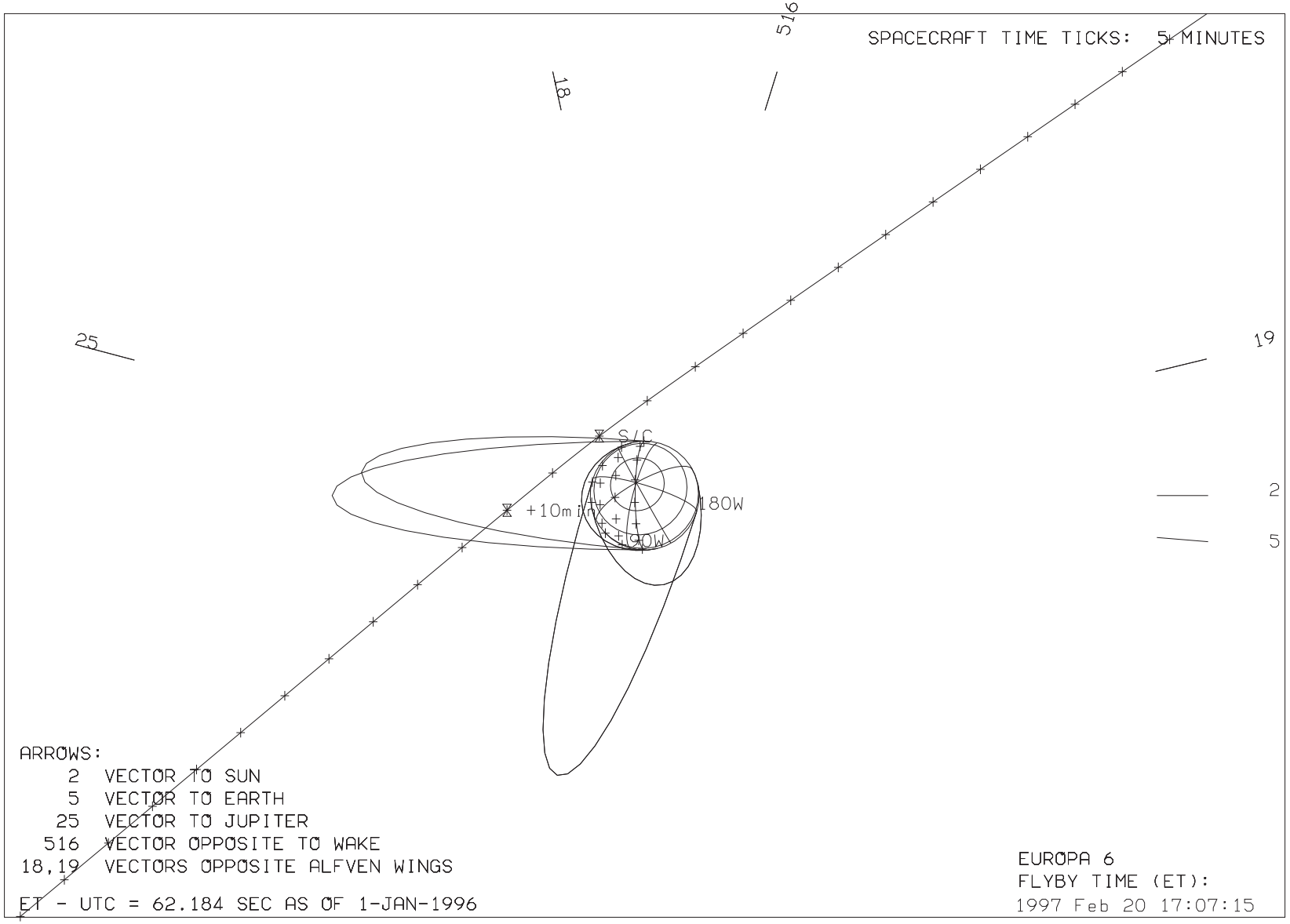
JLB 1/9/97

JUPITER 6: GROUNDTRACK AT CLOSEST APPROACH



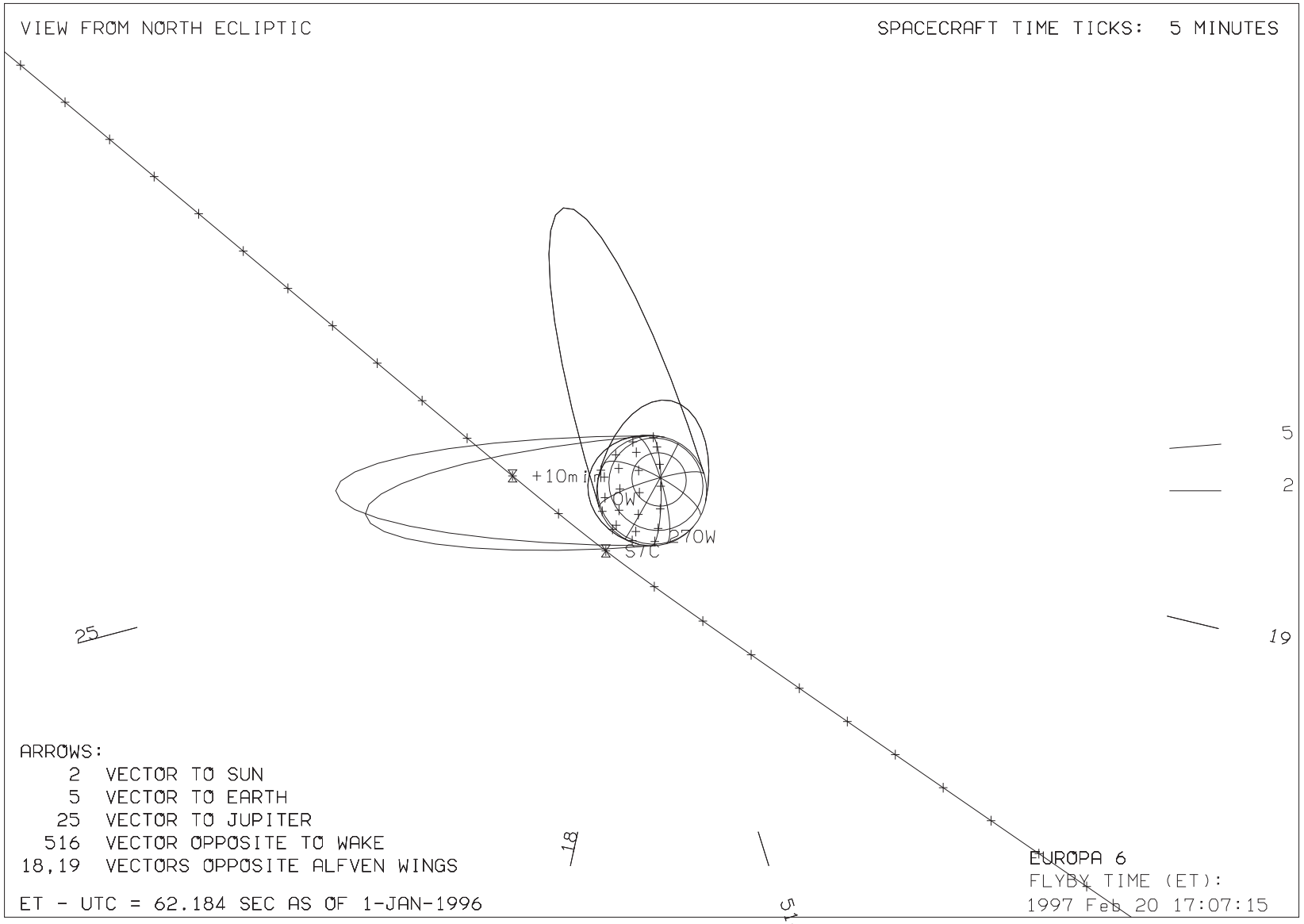
JLB 1/9/97

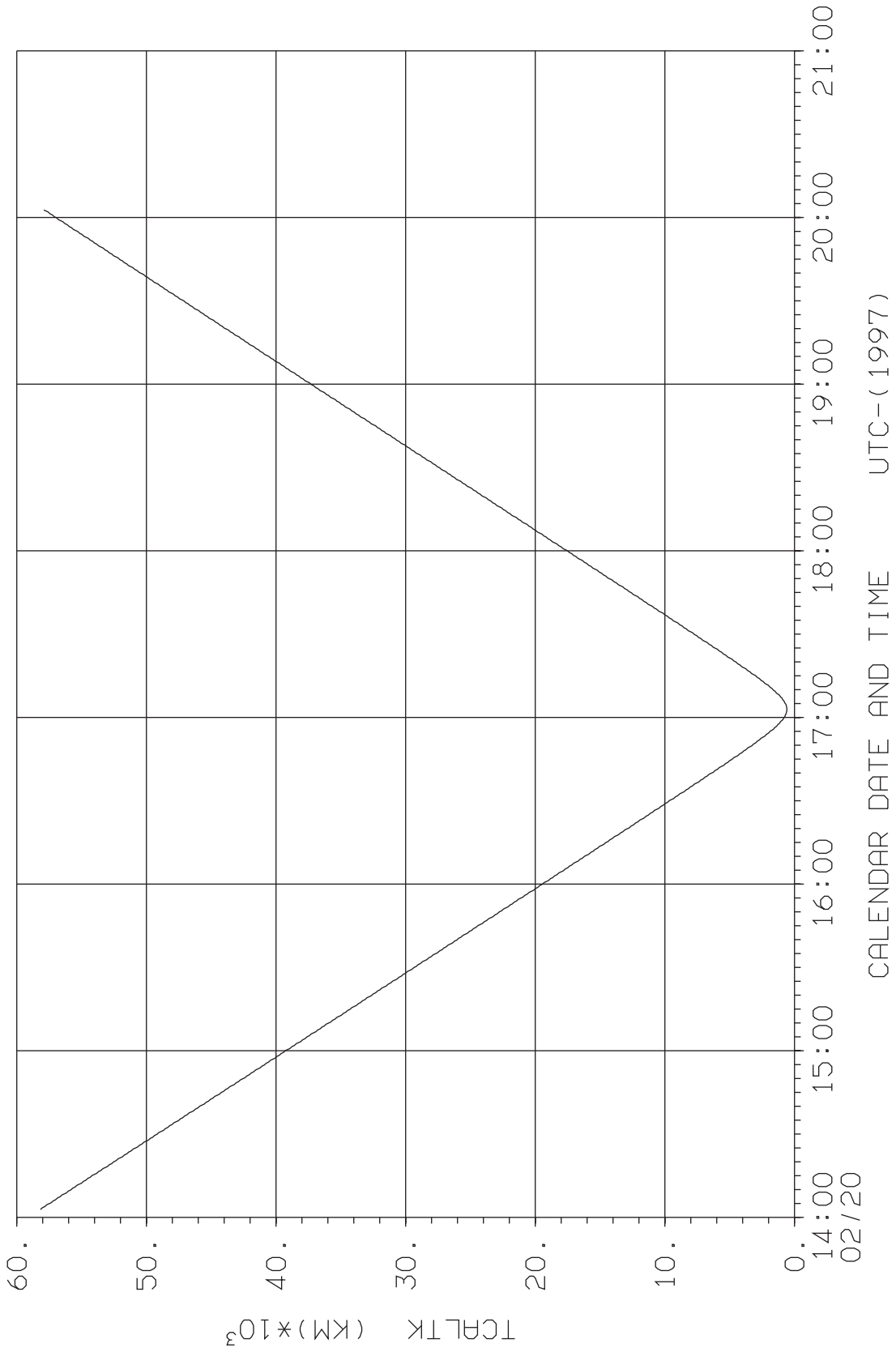
EUROPA 6: CLOSEST APPROACH (NORTH TRAJECTORY POLE VIEW)

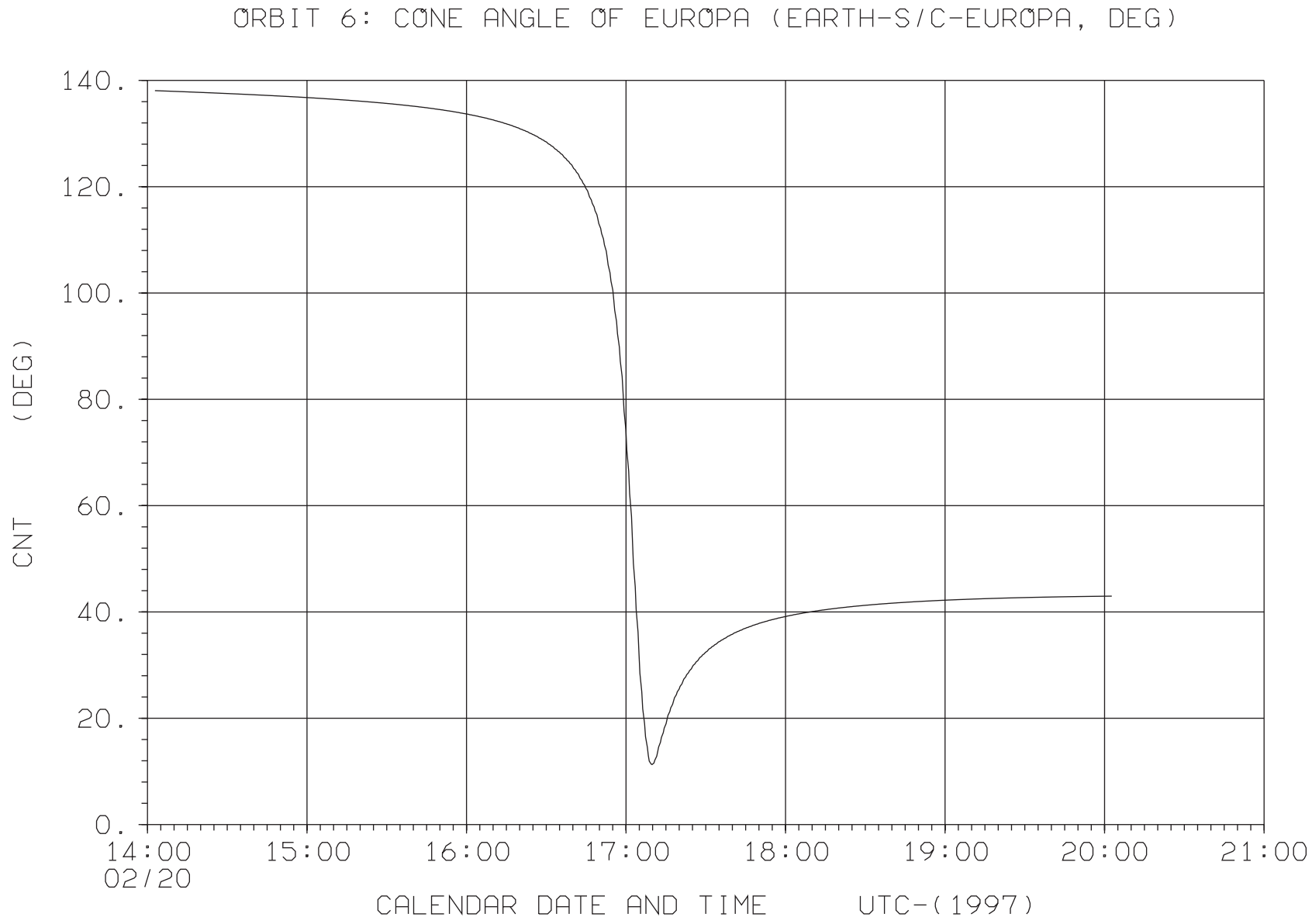


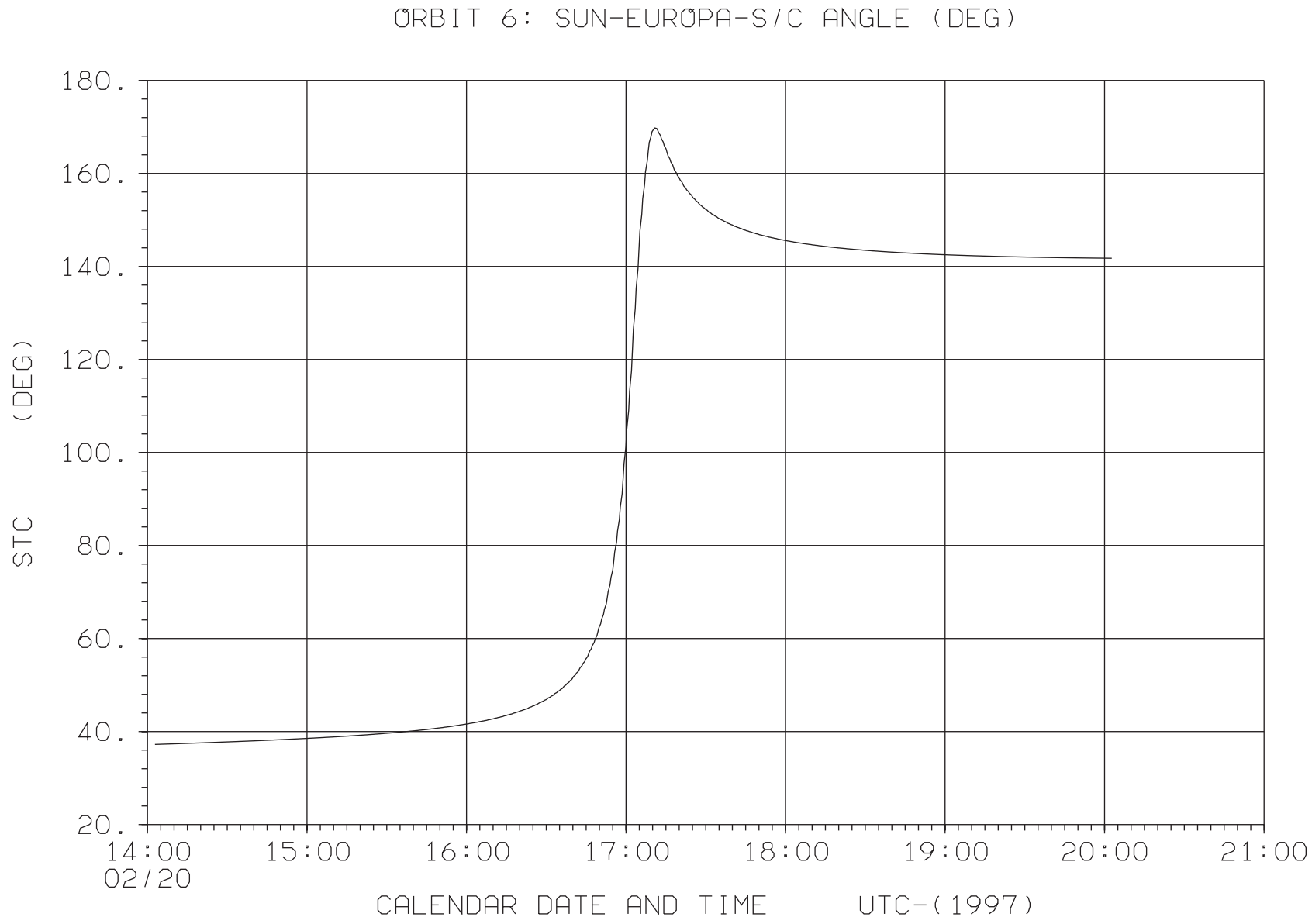
JLB 1/9/97

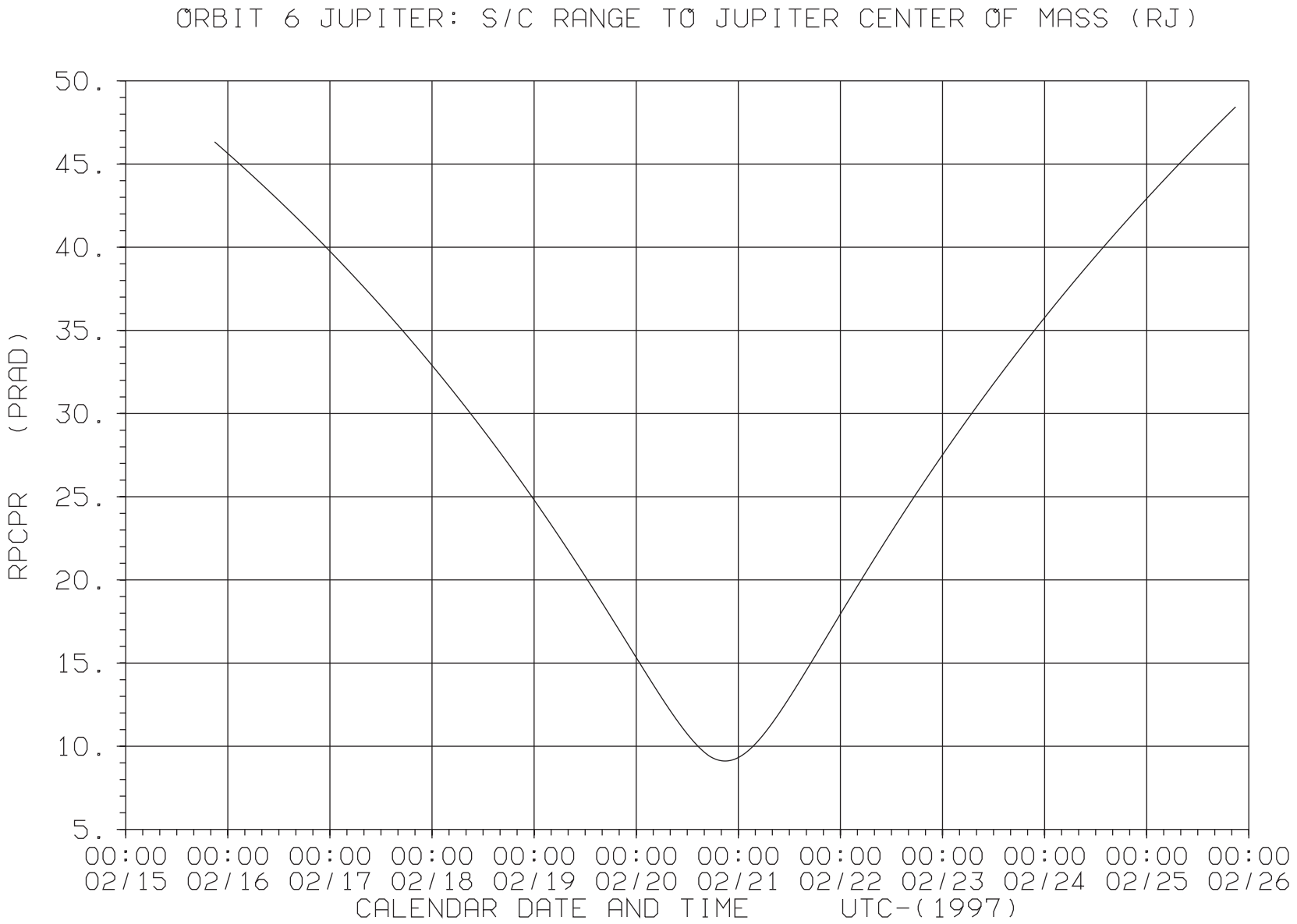
EUROPA 6: CLOSEST APPROACH (SOUTH TRAJECTORY POLE VIEW)

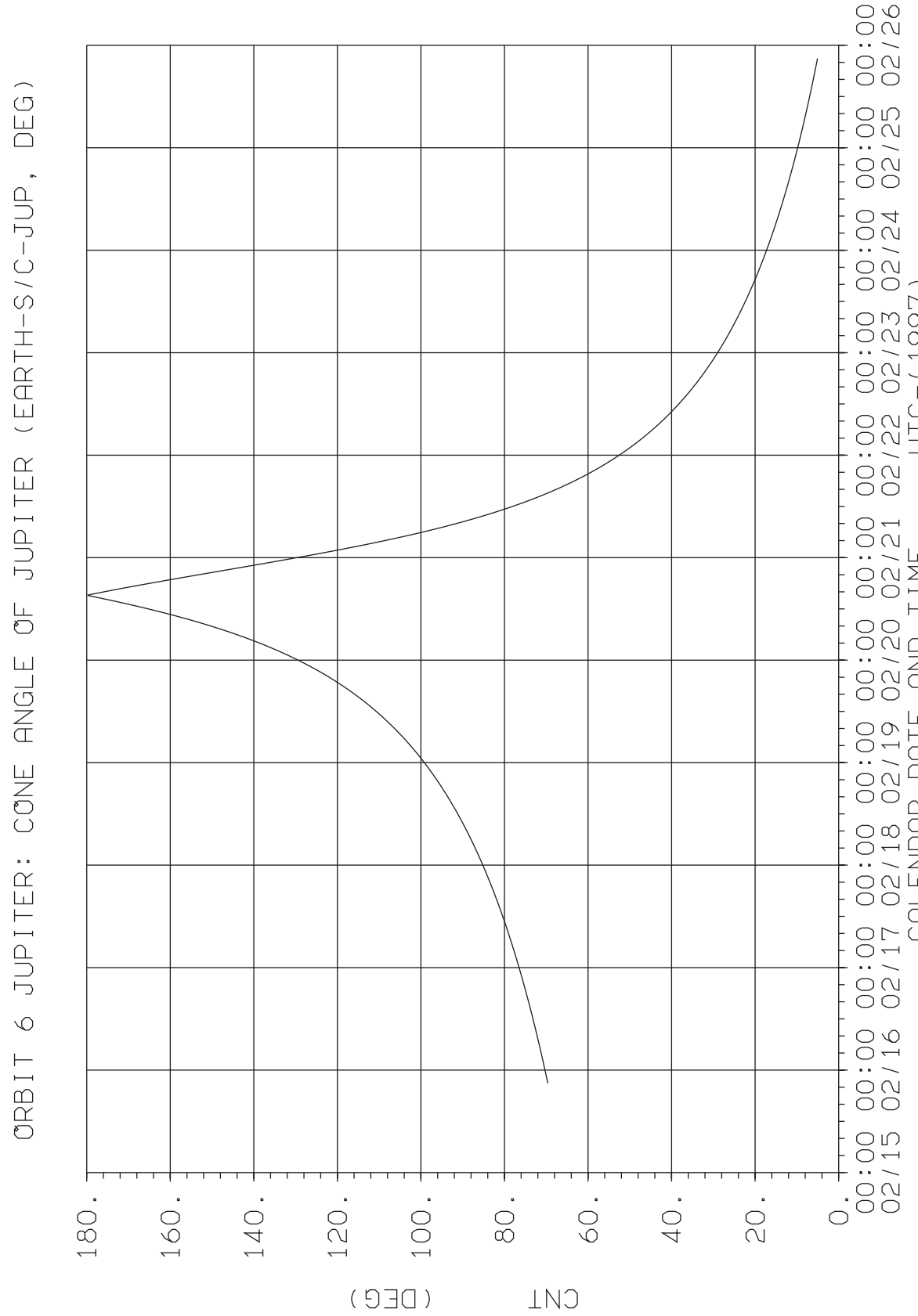


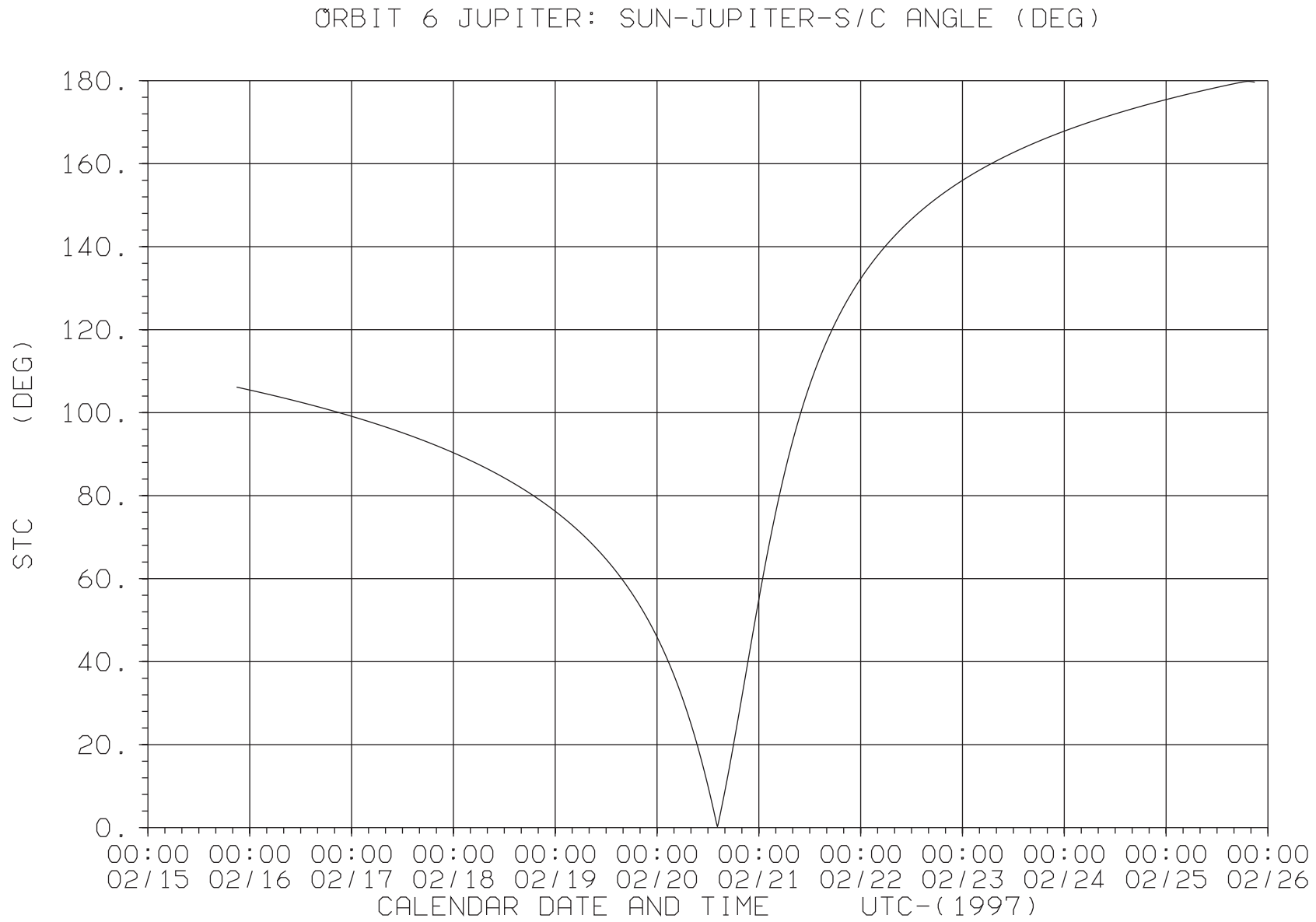

ORBIT 6: S/C ALTITUDE WITH RESPECT TO EUROPA (KM)
TCALTK (KM)*10³
60.
50.
40.
30.
20.
10.
0.
14:00
02/20
15:00
16:00
17:00
18:00
19:00
20:00
21:00
CALENDAR DATE AND TIME
UTC-(1997)


ORBIT 6: CONE ANGLE OF EUROPA (EARTH-S/C-EUROPA, DEG)
CNT (DEG)
140.
120.
100.
80.
60.
40.
20.
0.
14:00
02/20
15:00
16:00
17:00
18:00
19:00
20:00
21:00
CALENDAR DATE AND TIME UTC-(1997)


ORBIT 6: SUN-EUROPA-S/C ANGLE (DEG)
180.
160.
140.
120.
100.
80.
60.
40.
20.
STC (DEG)
14:00
02/20
15:00
16:00
17:00
18:00
19:00
20:00
21:00
CALENDAR DATE AND TIME UTC-(1997)


ORBIT 6 JUPITER: S/C RANGE TO JUPITER CENTER OF MASS (RJ)
RPCPR (PRAD)
50.
45.
40.
35.
30.
25.
20.
15.
10.
5.
00:00 02/15
00:00 02/16
00:00 02/17
00:00 02/18
00:00 02/19
00:00 02/20
00:00 02/21
00:00 02/22
00:00 02/23
00:00 02/24
00:00 02/25
00:00 02/26
CALENDAR DATE AND TIME UTC-(1997)


ORBIT 6 JUPITER: CONE ANGLE OF JUPITER (EARTH-S/C-JUP, DEG)
CNT (DEG)
180.
160.
140.
120.
100.
80.
60.
40.
20.
0.
00:00 00:00 00:00 00:00 00:00 00:00 00:00 00:00 00:00 00:00 00:00
02/15 02/16 02/17 02/18 02/19 02/20 02/21 02/22 02/23 02/24 02/25 02/26
CALENDAR DATE AND TIME UTC-(1997)


ORBIT 6 JUPITER: SUN-JUPITER-S/C ANGLE (DEG)
STC (DEG)
180.
160.
140.
120.
100.
80.
60.
40.
20.
0.
00:00 02/15
00:00 02/16
00:00 02/17
00:00 02/18
00:00 02/19
00:00 02/20
00:00 02/21
00:00 02/22
00:00 02/23
00:00 02/24
00:00 02/25
00:00 02/26
CALENDAR DATE AND TIME UTC-(1997)

Chapter 4 - NIMS Observation Summaries

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Introduction to Chapter 4

This chapter summarizes the NIMS E6 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 E6 Sequence. The information in this summary is derived from the E6 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 E6 data. It is also derived from the E6 SEFs and PBTs. Each Obstab entry is 512 bytes long but is presented here as 4 lines of 128 characters per entry.

			Sequence:	E06A-AR		Created: 3/12/97		Begin: 97-047/23:05:00 Finish: 97-054/01:30:00				
Line	YR	DOY	SCET - GMT	PSID	Command	Parameters		Description	GCM	GO	GS	RIM MF I
1	97	47	23:05:00.000	20A3EW	37A	Initial Condition		NIMS Power ON	4O0	4	0	3,831,852:02:7
2	97	47	23:05:00.000	20A3EX	37HR	Initial Condition		Replacement Heaters OFF	4O0	4	0	3,831,852:02:7
3	97	47	23:05:00.000	20A3EY	37C1PR	Initial Condition		Optics Heater 1 OFF (primary relay)	4O0	4	0	3,831,852:02:7
4	97	47	23:05:00.000	20A3EZ	37C2PR	Initial Condition		Optics Heater 2 OFF (primary relay)	4O0	4	0	3,831,852:02:7
5	97	47	23:05:00.000	20A3FA	37F1PR	Initial Condition		Radiator Flash Heater OFF (primary relay)	4O0	4	0	3,831,852:02:7
6	97	47	23:05:00.000	20A3FB	37F2P	Initial Condition		Shield Flash Heater ON (primary relay)	4O0	4	0	3,831,852:02:7
7	97	47	23:05:00.000	20A3FD	40HRPR	Initial Condition		RCT Heater OFF (primary relay)	4O0	4	0	3,831,852:02:7
8	97	47	23:05:00.000	20A3FE	40T1PR	Initial Condition		PCT Heater 1 OFF (primary relay)	4O0	4	0	3,831,852:02:7
9	97	47	23:05:00.000	20A3FF	40T2R	Initial Condition		PCT Heater 2 OFF	4O0	4	0	3,831,852:02:7
10	97	47	23:05:00.200		DMS:	: READY		RDY, TRACK 2, REV, TIC 4269.00 +/-	4O0	4	0	3,831,852:03:0
11	97	47	23:05:34.200	20UE4A	7SAFE	STOP		S/P NO MOVEMENT	4O0	4	0	3,831,852:54:0
12	97	47	23:06:20.200	418SA6B	6BUFHI		10	MUB Buffer high water	4O0	4	0	3,831,853:32:0
13	97	47	23:06:20.200	418SA6A	6BUFLO		2	MUB Buffer low water m	4O0	4	0	3,831,853:32:0
14	97	47	23:06:24.200	20UE4B	7SLEW	DIS,POS,0.0		Stator movement	4O0	4	0	3,831,853:38:0
15	97	47	23:06:30.866	488AA6A	6TMSED	NORM,AL6		Sci, Eng, and D/L Chan	4O0	4	0	3,831,853:48:0
16	97	47	23:06:32.200	488AA6B	6TMSED	NORM,AL6		Sci, Eng, and D/L Chan	4O0	4	0	3,831,853:50:0
17	97	47	23:06:58.200	432JA6B	6RTDS2	NIMDSL,AACDSL,RT		NIMS R/T DESELECTAACS DESELECT	4O0	4	0	3,831,853:89:0
18	97	47	23:09:00.866	176UB6A	6TMREC	RPB		RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	3,831,856:00:0
19	97	48	04:00:00.133	418JA6A	6BUFHI		5	MUB Buffer high water	4O0	4	0	3,832,143:72:0
20	97	48	04:09:26.800	488AA6C	6TMSED	NORM,AL4		Sci, Eng, and D/L Chan	4O0	4	0	3,832,153:12:0
21	97	48	05:29:11.466	176UA6A	6TMREC	TPB		TERMINATE PLAYBACK (PB CONTROL) Record Mo	4O0	4	0	3,832,232:00:0
22	97	48	05:32:38.800	488AB6A	6TMSED	NORM,AL1		Sci, Eng, and D/L Chan	4O0	4	0	3,832,235:38:0
23	97	48	05:35:00.133	418JO6A	6BUFHI		10	MUB Buffer high water	4O0	4	0	3,832,237:68:0
24	97	48	05:45:00.133	41SA99A	POWER	PWR MODE change		Change to Data Taking Mode	4O0	4	0	3,832,247:58:0
25	97	48	05:45:04.133	41SA3K	37F2PR		1	Shield Flash Heater OFF (primary relay)	4O0	4	0	3,832,247:64:0
26	97	48	05:45:14.133	41SA3L	37F2PR		2	Shield Flash Heater OFF (primary relay)	4O0	4	0	3,832,247:79:0
27	97	48	05:45:24.133	41SA3A	40T1PR		1	PCT Heater 1 OFF (primary relay)	4O0	4	0	3,832,248:03:0
28	97	48	05:45:34.133	41SA3B	40T1PR		2	PCT Heater 1 OFF (primary relay)	4O0	4	0	3,832,248:18:0
29	97	48	05:45:44.133	41SA3C	40T2R		1	PCT Heater 2 OFF	4O0	4	0	3,832,248:33:0
30	97	48	05:45:54.133	41SA3D	40T2R		2	PCT Heater 2 OFF	4O0	4	0	3,832,248:48:0
31	97	48	05:59:30.133	432JB6B	6RTDS2	NIMDSL,AACNCG,RT		NIMS R/T DESELECT	4O0	4	0	3,832,261:89:0
32	97	48	05:59:30.800	432JB431A6A	6RCDSL	DDSDSL,PLSDSL,EP		Record Deselect (DDS o	4O0	4	0	3,832,261:90:0
33	97	48	05:59:31.466	432JB6D	6RTSL2	NIMNCG,AACSEL,RT		AACS SELECT	4O0	4	0	3,832,262:00:0
34	97	48	05:59:31.466	432JB6C	6RTSL1			R/T Select of DDS and	4O0	4	0	3,832,262:00:0
35	97	48	06:00:00.133	488AB6B	6TMSED	NORM,AL1		Sci, Eng, and D/L Chan	4O0	4	0	3,832,262:43:0
36	97	48	06:02:33.466		DMS:	: *SLEW-TIC		P7, TRACK *1, *FWD, TIC 4269.00 +/-	4O0	4	0	3,832,265:00:0
37	97	48	06:02:33.466	465WA6A	6DMST		5000	DMS Slew to TIC	4O0	4	0	3,832,265:00:0
38	97	48	06:45:10.800	488AB6C	6TMSED	NORM,AL2		Sci, Eng, and D/L Chan	4O0	4	0	3,832,307:14:0
39	97	48	07:40:38.800	488AB6D	6TMSED	NORM,AL3		Sci, Eng, and D/L Chan	4O0	4	0	3,832,362:01:0
40	97	48	11:30:00.133	481UA4A	7VECT			Inert vect update UTC	4O0	4	0	3,832,588:77:0
41	97	48	11:56:14.800	465WB6A	6DMSC	P100,4		DMS Control Tape P/B 100.8kbps	4O0	4	0	3,832,614:73:0
42	97	48	12:22:06.800	465WB6B	6DMSC	RDY,4		DMS Control Tape stop	4O0	4	0	3,832,640:35:0
43	97	48	12:43:34.800	488AC6A	6TMSED	NORM,AL2		Sci, Eng, and D/L Chan	4O0	4	0	3,832,661:56:0
44	97	48	12:44:00.133	444UA443A4B	7MODE	INT		AACS INERTIAL MODE	4O0	4	0	3,832,662:03:0
45	97	48	14:13:00.133	488AC6B	6TMSED	NORM,AH2		Sci, Eng, and D/L Chan	4O0	4	0	3,832,750:05:0
46	97	48	14:15:18.800	488AC6C	6TMSED	NORM,AH3		Sci, Eng, and D/L Chan	4O0	4	0	3,832,752:31:0
47	97	48	14:16:58.133	165BA4A	7TMOT	DIS,TMC		Disable IVP - Target Motion	4O0	4	0	3,832,753:89:0
48	97	48	14:16:58.800	165BA4B	7SCAN	NORM,214.853998,		Check S/P Position	4O0	4	0	3,832,753:90:0
49	97	48	14:30:01.466	465WC6A	6DTRN	CMD,6DTRN,465WC6		DMS TRACK TURNAROUND	4O0	4	0	3,832,766:81:0
50	97	48	14:40:04.133	465WD6A	6DMSC	P100,1		DMS Control Tape P/B 100.8kbps	4O0	4	0	3,832,776:75:0
51	97	48	15:11:58.133	465WD6B	6DMSC	RDY,1		DMS Control Tape stop	4O0	4	0	3,832,808:34:0
52	97	48	15:27:34.133	465WE6A	6DMSC	P100,2		DMS Control Tape P/B 100.8kbps	4O0	4	0	3,832,823:73:0
53	97	48	15:40:38.800	488AC6D	6TMSED	NORM,AH4		Sci, Eng, and D/L Chan	4O0	4	0	3,832,836:67:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
54	97	48	15:59:42.133	465WF6A	6DMSC	P100,3	DMS Control Tape P/B 100.8kbps	4O0	4	0	3,832,855:53:0
55	97	48	16:31:42.800	465WF6B	6DMSC	RDY,3	DMS Control Tape stop	4O0	4	0	3,832,887:22:0
56	97	48	16:46:26.133	465WG6A	6DMSC	P100,4	DMS Control Tape P/B 100.8kbps	4O0	4	0	3,832,901:73:0
57	97	48	17:15:00.133	488AC6E	6TMSED	NORM,EH4	Sci, Eng, and D/L Chan	4O0	4	0	3,832,930:05:0
58	97	48	17:18:33.466	465WH6A	6DMSC	P100,3	DMS Control Tape P/B 100.8kbps	4O0	4	0	3,832,933:52:0
59	97	48	17:19:39.466	465WH6B	6DMSC	RDY,3	DMS Control Tape stop	4O0	4	0	3,832,934:60:0
60	97	48	17:34:09.466	465WI6A	6DMSC	RDY,4	DMS Control Tape stop	4O0	4	0	3,832,949:00:0
61	97	48	17:35:03.466	465WJ6A	6DTRN	CMD,6DTRN,465WJ6	DMS TRACK TURNAROUND	4O0	4	0	3,832,949:81:0
62	97	48	17:56:00.133	488AD6A	6TMSED	NORM,EL4	Sci, Eng, and D/L Chan	4O0	4	0	3,832,970:55:0
63	97	48	18:01:26.800	488AD6B	6TMSED	NORM,EL5	Sci, Eng, and D/L Chan	4O0	4	0	3,832,975:90:0
64	97	48	19:39:30.800	488AD6C	6TMSED	FILL,EL5	Sci, Eng, and D/L Chan	4O0	4	0	3,833,072:89:0
65	97	48	19:54:30.800	488AD6D	6TMSED	FILL,EL6	Sci, Eng, and D/L Chan	4O0	4	0	3,833,087:74:0
66	97	48	19:58:57.466	488AD6E	6TMSED	NORM,EL6	Sci, Eng, and D/L Chan	4O0	4	0	3,833,092:19:0
67	97	48	20:25:00.800	165BB4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4O0	4	0	3,833,117:89:0
68	97	48	20:25:01.466	165BB4B	7SCAN	NORM,214.462999,	Check S/P Position	4O0	4	0	3,833,117:90:0
69	97	48	22:02:30.800	488AE6A	6TMSED	NORM,EL5	Sci, Eng, and D/L Chan	4O0	4	0	3,833,214:37:0
70	97	49	01:15:00.133	488AE6B	6TMSED	NORM,BL5	Sci, Eng, and D/L Chan	4O0	4	0	3,833,404:71:0
71	97	49	04:13:42.800	488AF6A	6TMSED	NORM,BL3	Sci, Eng, and D/L Chan	4O0	4	0	3,833,581:48:0
72	97	49	05:13:26.800	488AF6B	6TMSED	NORM,BL2	Sci, Eng, and D/L Chan	4O0	4	0	3,833,640:55:0
73	97	49	05:15:00.133	488AF6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,833,642:13:0
74	97	49	05:44:25.466	488AF6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,833,671:22:0
75	97	49	05:58:14.800	488AF6E	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,833,684:83:0
76	97	49	06:34:30.800	488AG6A	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,833,720:71:0
77	97	49	07:15:40.133	488AG6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,833,761:44:0
78	97	49	07:18:22.133	488AG6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,833,764:14:0
79	97	49	08:00:44.800	20KC4A	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	4O0	4	0	3,833,806:06:0
80	97	49	08:38:04.066	165BC4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4O0	4	0	3,833,842:89:0
81	97	49	08:38:04.733	165BC4B	7SCAN	NORM,214.75,-15.	Check S/P Position	4O0	4	0	3,833,842:90:0
82	97	49	08:45:39.400	488AG6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,833,850:44:0
83	97	49	10:41:25.400	165BD4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4O0	4	0	3,833,964:89:0
84	97	49	10:41:26.066	165BD4B	7SCAN	NORM,215.292999,	Check S/P Position	4O0	4	0	3,833,964:90:0
85	97	49	11:32:56.066	125DA	NIMSINIT	GS	##### GROUP START INIT	4O0	4	0	3,834,015:84:0
86	**97**	**49**	**11:32:56.066**	**125DA4A**	**37IST**	**1,0,0,OFF,0,0,0**	**Chopper ON, Sync, 63Hz (Ref)**	**460**	**4**	**0**	**3,834,015:84:0**
87	**97**	**49**	**11:33:56.733**	**125DA4B**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**4R0**	**4**	**0**	**3,834,016:84:0**
88	**97**	**49**	**11:34:57.400**	**125DA4C**	**37MB**	**0,0,0,0,0,0**	**Selects mirror (spatial) edit table**	**4R0**	**4**	**0**	**3,834,017:84:0**
89	97	49	11:34:57.400	125DA11A	NIMSINIT	GE	##### GROUP END INIT	4R0	4	0	3,834,017:84:0
90	**97**	**49**	**11:35:05.934**	**E6NNCHOPON01-**		**-----START------**		**4R0**	**4**	**0**	**: :**
91	97	49	11:43:06.066	165BE4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R0	4	0	3,834,025:89:0
92	97	49	11:43:06.733	165BE4B	7SCAN	NORM,214.459999,	Check S/P Position	4R0	4	0	3,834,025:90:0
93	**97**	**49**	**11:44:11.934**	**E6NNCHOPON01-**		**-----STOP-------**		**4R0**	**4**	**0**	**: :**
94	97	49	11:59:18.066	465KF6A	6DMSC	RDY,1	DMS Control Tape stop	4R0	4	0	3,834,042:00:0
95	97	49	12:29:38.066	465KG6A	6DMST	220	DMS Slew to TIC	4R0	4	0	3,834,072:00:0
96	97	49	12:29:38.066		DMS:	: *SLEW-TIC	P7, TRACK 1, FWD, TIC 201.62 +/-	4R0	4	0	3,834,072:00:0
97	97	49	12:39:40.066	125FH	NIMSINIT	GS	##### GROUP START INIT	4R0	4	0	3,834,081:84:0
98	**97**	**49**	**12:39:40.066**	**125FH4A**	**37IST**	**0,2,0,OFF,0,1,1**	**Gain State 4**	**4R0**	**4**	**0**	**3,834,081:84:0**
99	**97**	**49**	**12:40:40.733**	**125FH4B**	**37MB**	**1B,1B,0,0,0,0**	**Selects mirror (spatial) edit table**	**4R0**	**4**	**0**	**3,834,082:84:0**
100	97	49	12:40:40.733	125FH11A	NIMSINIT	GE	##### GROUP END INIT	4R0	4	0	3,834,082:84:0
101	**97**	**49**	**12:40:49.267**	**E6TNAURORA01+**		**-----START------**		**4R0**	**4**	**0**	**: :**
102	**97**	**49**	**12:41:41.400**	**127FH4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**4R3**	**4**	**0**	**3,834,083:84:0**
103	97	49	12:41:41.400	127FH	NIMSTAB	GS	%%%%% GROUP START TAB	4R3	4	0	3,834,083:84:0
104	**97**	**49**	**12:41:42.066**	**127FH4B**	**37ETB**	**04,C4,35,FF,FF**	**Loads wavelength edit table**	**4R3**	**4**	**0**	**3,834,083:85:0**
105	97	49	12:41:50.066	127FH11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	3,834,084:06:0
106	**97**	**49**	**12:42:06.066**	**432DA6A**	**6RTSL2**	**NIMSEL,AACSEL,RT**	**NIMS R/T SELECTAACS SELECT**	**4R3**	**4**	**0**	**3,834,084:30:0**
107	**97**	**49**	**12:43:05.400**	**432DB6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**4R3**	**4**	**0**	**3,834,085:28:0**
108	97	49	12:44:43.400	125DV	NIMSINIT	GS	##### GROUP START INIT	4R3	4	0	3,834,086:84:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
109	97	49	12:44:43.400	125DV11A	NIMSINIT	GE	##### GROUP END INIT	4R3	4	0	3,834,086:84:0	
110	**97**	**49**	**12:44:43.400**	**125DV4A**	**37MB**	**0,0,0,0,0,0**	**Selects mirror (spatial) edit table**	**4R3**	**4**	**0**	**3,834,086:84:0**	
111	97	49	12:44:46.733	165BF4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,834,086:89:0	
112	97	49	12:44:47.400	165BF4B	7SCAN	NORM,215.911999,	Check S/P Position	4R3	4	0	3,834,086:90:0	
113	**97**	**49**	**12:45:52.600**	**E6TNAURORA01+**		**-----STOP-------**		**4R3**	**4**	**0**	**: :**	
114	97	49	12:58:22.733	488AH6A	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4R3	4	0	3,834,100:39:0	
115	97	49	13:09:04.066	465KH6A	6DMSC	RDY,1	DMS Control Tape stop	4R3	4	0	3,834,111:00:0	
116	97	49	13:29:17.400	411JC6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	3,834,131:00:0	
117	97	49	13:29:25.466		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC * 220.12 +/-	4R3	4	0	3,834,131:12:1	
118	97	49	13:29:27.400	411JC6B	6TMREC	BDT	7.68 KBPS BUFFER DUMP TO TAPE Record Mode	4R3	4	0	3,834,131:15:0	
119	97	49	13:30:00.066	488AH6B	6TMSED	FILL,CL2	Sci, Eng, and D/L Chan	4R3	4	0	3,834,131:64:0	
120	97	49	13:31:28.733	411JC6C	6TMREC	**NRC**	NO RECORD Record Mode Change	4R3	4	0	3,834,133:15:0	
121	97	49	13:31:29.400	411JC6D	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,834,133:16:0	
122	97	49	13:31:29.400		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC * 249.17 +/-	4R3	4	0	3,834,133:16:0	
123	97	49	13:40:40.733	488AH6C	6TMSED	NORM,CL2	Sci, Eng, and D/L Chan	4R3	4	0	3,834,142:24:0	
124	97	49	14:11:02.733	488AH6D	6TMSED	NORM,CL3	Sci, Eng, and D/L Chan	4R3	4	0	3,834,172:27:0	
125	97	49	14:47:07.400	165BG4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,834,207:89:0	
126	97	49	14:47:08.066	165BG4B	7SCAN	NORM,218.407,-15	Check S/P Position	4R3	4	0	3,834,207:90:0	
127	97	49	15:24:35.400	488AH6E	6TMSED	FILL,CL3	Sci, Eng, and D/L Chan	4R3	4	0	3,834,245:03:0	
128	97	49	15:53:26.733	488AI6A	6TMSED	FILL,CL4	Sci, Eng, and D/L Chan	4R3	4	0	3,834,273:52:0	
129	97	49	15:57:42.733	488AI6B	6TMSED	NORM,CL4	Sci, Eng, and D/L Chan	4R3	4	0	3,834,277:72:0	
130	97	49	16:50:00.066	41SB99A	**POWER**	**PWR MODE change**	Change to Maneuver Mode	4R3	4	0	3,834,329:46:0	
131	**97**	**49**	**16:50:04.066**	**41SB3K**	**37F2PR**	**1**	**Shield Flash Heater OFF (primary relay)**	**4R3**	**4**	**0**	**3,834,329:52:0**	
132	**97**	**49**	**16:50:14.066**	**41SB3L**	**37F2PR**	**2**	**Shield Flash Heater OFF (primary relay)**	**4R3**	**4**	**0**	**3,834,329:67:0**	
133	97	49	16:51:29.400	431YL6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	4R3	4	0	3,834,330:89:0	
134	97	49	16:52:00.066	488AI6C	6TMSED	NORM,CH4	Sci, Eng, and D/L Chan	4R3	4	0	3,834,331:44:0	
135	**97**	**49**	**16:52:24.066**	**41SB3G**	**40T1P**	**1**	**PCT Heater 1 ON (primary relay)**	**4R3**	**4**	**0**	**3,834,331:80:0**	
136	**97**	**49**	**16:52:34.066**	**41SB3H**	**40T1P**	**2**	**PCT Heater 1 ON (primary relay)**	**4R3**	**4**	**0**	**3,834,332:04:0**	
137	**97**	**49**	**16:52:44.066**	**41SB3I**	**40T2**	**1**	**PCT Heater 2 ON**	**4R3**	**4**	**0**	**3,834,332:19:0**	
138	**97**	**49**	**16:52:54.066**	**41SB3J**	**40T2**	**2**	**PCT Heater 2 ON**	**4R3**	**4**	**0**	**3,834,332:34:0**	
139	97	49	16:54:39.400	20YC6A	6HICON			4R3	4	0	3,834,334:10:0	
140	97	49	16:55:33.400	431YM6A	6RCSEL	DDSNCG,PLSNCG,EP	Record Select (DDS onl	4R3	4	0	3,834,335:00:0	
141	97	49	16:55:44.733	432OC6A	6RTSL1		R/T Select of DDS and	4R3	4	0	3,834,335:17:0	
142	97	49	16:56:01.400	20OA6A	6HICON			4R3	4	0	3,834,335:42:0	
143	97	49	17:30:00.066	488AI6D	6TMSED	NORM,EH4	Sci, Eng, and D/L Chan	4R3	4	0	3,834,369:06:0	
144	97	49	18:01:26.733	488AI6E	6TMSED	NORM,EH5	Sci, Eng, and D/L Chan	4R3	4	0	3,834,400:15:0	
145	97	49	18:33:26.733	488AJ6A	6TMSED	NORM,EH6	Sci, Eng, and D/L Chan	4R3	4	0	3,834,431:74:0	
146	97	49	21:30:00.066	488AJ6B	6TMSED	NORM,FL6	Sci, Eng, and D/L Chan	4R3	4	0	3,834,606:39:0	
147	97	49	21:31:00.066	41SC99A	**POWER**	**PWR MODE change**	Change to Data Taking Mode	4R3	4	0	3,834,607:38:0	
148	**97**	**49**	**21:31:04.066**	**41SC3K**	**37F2PR**	**1**	**Shield Flash Heater OFF (primary relay)**	**4R3**	**4**	**0**	**3,834,607:44:0**	
149	**97**	**49**	**21:31:14.066**	**41SC3L**	**37F2PR**	**2**	**Shield Flash Heater OFF (primary relay)**	**4R3**	**4**	**0**	**3,834,607:59:0**	
150	**97**	**49**	**21:31:24.066**	**41SC3A**	**40T1PR**	**1**	**PCT Heater 1 OFF (primary relay)**	**4R3**	**4**	**0**	**3,834,607:74:0**	
151	**97**	**49**	**21:31:34.066**	**41SC3B**	**40T1PR**	**2**	**PCT Heater 1 OFF (primary relay)**	**4R3**	**4**	**0**	**3,834,607:89:0**	
152	**97**	**49**	**21:31:44.066**	**41SC3C**	**40T2R**	**1**	**PCT Heater 2 OFF**	**4R3**	**4**	**0**	**3,834,608:13:0**	
153	**97**	**49**	**21:31:54.066**	**41SC3D**	**40T2R**	**2**	**PCT Heater 2 OFF**	**4R3**	**4**	**0**	**3,834,608:28:0**	
154	97	49	21:39:59.400	432OB431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	4R3	4	0	3,834,616:28:0	
155	97	49	21:40:00.066	432OB6A	6RTSL1		R/T Select of DDS and	4R3	4	0	3,834,616:29:0	
156	97	49	21:47:44.733	165AA4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,834,623:89:0	
157	97	49	21:47:45.400	165AA4B	7SCAN	NORM,222.007999,	Check S/P Position	4R3	4	0	3,834,623:90:0	
158	97	49	21:51:39.400	117AA	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	3,834,627:77:0	
159	97	49	21:51:48.733	117AA105A106A4A	7STRP	0.0,0.0,0,0,0,0,	Slew =,0.01	4R3	4	0	3,834,628:00:0	
160	97	49	22:21:08.066	117AA105A106A4B	7STRP	0.007,0.0,0,0,0,	Slew =12.01	4R3	4	0	3,834,657:00:0	
161	97	49	22:22:08.733	117AA105A106A4C	7STRP	0.0,0.0,0,0,0,0,	Slew =,0.01	4R3	4	0	3,834,658:00:0	
162	97	49	22:51:28.066	117AA105A106A4D	7STRP	0.007,0.0,0,0,0,	Slew =12.01	4R3	4	0	3,834,687:00:0	
163	97	49	22:52:28.733	117AA105A106A4E	7STRP	0.0,0.0,0,0,0,0,	Slew =,0.01	4R3	4	0	3,834,688:00:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
164	97	49	23:21:48.066	117AA105A106A4F	7STRP	0.007,0.0,0,0,0,	Slew =12.01	4R3	4	0	3,834,717:00:0	
165	97	49	23:22:48.733	117AA105A106A4G	7STRP	0.0,0.0,0,0,0,0,	Slew =,0.01	4R3	4	0	3,834,718:00:0	
166	97	49	23:52:08.066	117AA105A106A4H	7STRP	0.007,0.0,0,0,0,	Slew =12.01	4R3	4	0	3,834,747:00:0	
167	97	49	23:53:08.733	117AA105A106A4I	7STRP	0.0,0.0,0,0,0,0,	Slew =,0.01	4R3	4	0	3,834,748:00:0	
168	97	50	00:22:28.066	117AA11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	3,834,777:00:0	
169	97	50	00:22:57.400	165AB4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,834,777:44:0	
170	97	50	00:22:58.066	165AB4B	7SCAN	NORM,229.179998,	Check S/P Position	4R3	4	0	3,834,777:45:0	
171	97	50	00:53:47.400	165AC4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,834,807:89:0	
172	97	50	00:53:48.066	165AC4B	7SCAN	NORM,223.210999,	Check S/P Position	4R3	4	0	3,834,807:90:0	
173	97	50	00:57:42.066	117AB	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	3,834,811:77:0	
174	97	50	00:57:51.400	117AB105A106A4A	7STRP	0.0,0.0,0,0,0,0,	Slew =,0.01	4R3	4	0	3,834,812:00:0	
175	97	50	01:23:08.066	117AB105A106A4B	7STRP	0.008,0.0,0,0,0,	Slew =12.01	4R3	4	0	3,834,837:00:0	
176	97	50	01:24:08.733	117AB105A106A4C	7STRP	0.0,0.0,0,0,0,0,	Slew =,0.01	4R3	4	0	3,834,838:00:0	
177	97	50	01:49:25.400	117AB105A106B4A	7STRP	-0.013001,0.0,0,	Slew =12.01	4R3	4	0	3,834,863:00:0	
178	97	50	01:51:26.733	117AB105A106B4B	7STRP	0.0,0.0,0,0,0,0,	Slew =,0.01	4R3	4	0	3,834,865:00:0	
179	97	50	02:14:42.066	117AB11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	3,834,888:00:0	
180	97	50	02:25:48.066	165JK4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,834,898:89:0	
181	97	50	02:25:48.733	165JK4B	7SCAN	NORM,220.584999,	Check S/P Position	4R3	4	0	3,834,898:90:0	
182	97	50	02:28:55.400	118JK	**SMOS**	GS		4R3	4	0	3,834,902:06:0	
183	97	50	02:29:25.400	118JK110A111A4A	7STRP	-0.002,0.0,92,0,	Slew =,4.87	4R3	4	0	3,834,902:51:0	
184	97	50	02:29:56.066	117AC	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	3,834,903:06:0	
185	97	50	02:30:14.733	175IA422A6A	6DMSC	R115,1	DMS Control	4R3	4	0	3,834,903:34:0	
186	97	50	02:30:25.400	175IA176A6A	6TMREC	HMA	115.2 KBPS IMAGE(1-400)RECORD Record Mode	4R3	4	0	3,834,903:50:0	
187	97	50	02:30:25.400		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC * 255.53 +/-	4R3	4	0	3,834,903:50:0	
188	97	50	02:30:26.733	118JK11A	**SMOS**	GE		4R3	4	0	3,834,903:52:0	
189	97	50	02:30:40.066	117AC105A106A4A	7STRP	0.0022,0.0,0,0,0	Slew =,0.16	4R3	4	0	3,834,903:72:0	
190	97	50	02:30:52.733	175IA422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,834,904:00:0	
191	97	50	02:30:52.733		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC * 351.62 +/-	4R3	4	0	3,834,904:00:0	
192	97	50	02:30:55.400	117AC11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	3,834,904:04:0	
193	97	50	02:54:06.733	165AD4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,834,926:89:0	
194	97	50	02:54:07.400	165AD4B	7SCAN	NORM,223.49,-18.	Check S/P Position	4R3	4	0	3,834,926:90:0	
195	97	50	02:58:01.400	117AD	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	3,834,930:77:0	
196	97	50	02:58:10.733	117AD105A106A4A	7STRP	0.0,0.0,0,0,0,0,	Slew =,1.01	4R3	4	0	3,834,931:00:0	
197	97	50	03:27:30.066	117AD105A106A4B	7STRP	0.008,0.0,0,0,0,	Slew =12.01	4R3	4	0	3,834,960:00:0	
198	97	50	03:28:30.733	117AD105A106A4C	7STRP	0.0,0.0,0,0,0,0,	Slew =,1.01	4R3	4	0	3,834,961:00:0	
199	97	50	03:30:00.066	488AK6A	6TMSED	NORM,EL6	Sci, Eng, and D/L Chan	4R3	4	0	3,834,962:43:0	
200	97	50	03:43:50.733	488AK6B	6TMSED	NORM,EL4	Sci, Eng, and D/L Chan	4R3	4	0	3,834,976:15:0	
201	97	50	03:57:50.066	117AD105A106A4D	7STRP	0.008,0.0,0,0,0,	Slew =12.01	4R3	4	0	3,834,990:00:0	
202	97	50	03:58:50.733	117AD105A106A4E	7STRP	0.0,0.0,0,0,0,0,	Slew =,1.01	4R3	4	0	3,834,991:00:0	
203	97	50	04:28:10.066	117AD105A106A4F	7STRP	0.008,0.0,0,0,0,	Slew =12.01	4R3	4	0	3,835,020:00:0	
204	97	50	04:29:10.733	117AD105A106A4G	7STRP	0.0,0.0,0,0,0,0,	Slew =,1.01	4R3	4	0	3,835,021:00:0	
205	97	50	04:58:30.066	117AD105A106A4H	7STRP	0.008,0.0,0,0,0,	Slew =12.01	4R3	4	0	3,835,050:00:0	
206	97	50	04:59:30.733	117AD105A106A4I	7STRP	0.0,0.0,0,0,0,0,	Slew =,1.01	4R3	4	0	3,835,051:00:0	
207	97	50	05:24:06.733	488AK6C	6TMSED	NORM,EL2	Sci, Eng, and D/L Chan	4R3	4	0	3,835,075:30:0	
208	97	50	05:28:50.066	117AD11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	3,835,080:00:0	
209	97	50	05:37:54.733	165BH4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,835,088:89:0	
210	97	50	05:37:55.400	165BH4B	7SCAN	NORM,214.441999,	Check S/P Position	4R3	4	0	3,835,088:90:0	
211	97	50	05:43:10.066	488AK6D	6TMSED	FILL,EL2	Sci, Eng, and D/L Chan	4R3	4	0	3,835,094:16:0	
212	97	50	05:56:06.733	488AK6E	6TMSED	FILL,EL1	Sci, Eng, and D/L Chan	4R3	4	0	3,835,106:89:0	
213	97	50	06:31:45.400	488AL6A	6TMSED	NORM,EL1	Sci, Eng, and D/L Chan	4R3	4	0	3,835,142:21:0	
214	97	50	07:15:00.066	411JD6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	3,835,185:00:0	
215	97	50	07:15:02.733	488AL6B	6TMSED	NORM,EL2	Sci, Eng, and D/L Chan	4R3	4	0	3,835,185:04:0	
216	97	50	07:15:08.133		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC * 352.74 +/-	4R3	4	0	3,835,185:12:1	
217	97	50	07:15:10.066	411JD6B	6TMREC	BDT	7.68 KBPS BUFFER DUMP TO TAPE Record Mode	4R3	4	0	3,835,185:15:0	
218	97	50	07:17:11.400	411JD6C	6TMREC	**NRC**	NO RECORD Record Mode Change	4R3	4	0	3,835,187:15:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
219	97	50	07:17:12.066	411JD6D	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,835,187:16:0
220	97	50	07:17:12.066		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC * 381.79 +/-	4R3	4	0	3,835,187:16:0
221	97	50	07:30:00.066	488AL6C	6TMSED	NORM,DL2	Sci, Eng, and D/L Chan	4R3	4	0	3,835,199:76:0
222	97	50	07:43:18.733	488AL6D	6TMSED	FILL,DL2	Sci, Eng, and D/L Chan	4R3	4	0	3,835,213:00:0
223	97	50	08:40:35.400	488AL6E	6TMSED	NORM,DL2	Sci, Eng, and D/L Chan	4R3	4	0	3,835,269:59:0
224	97	50	10:49:54.733	165JN4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,835,397:50:0
225	97	50	10:49:55.400	165JN4B	7SCAN	NORM,242.278,-23	Check S/P Position	4R3	4	0	3,835,397:51:0
226	97	50	10:52:27.400	118JN	**SMOS**	GS		4R3	4	0	3,835,400:06:0
227	97	50	10:53:00.066	118JN110A111A4A	7STRP	0.0035,0.0,26,0,	Slew =,3.01	4R3	4	0	3,835,400:55:0
228	97	50	10:53:08.733	118JN110A111A4B	7STRP	-0.0032,0.0033,0	Slew =,3.01	4R3	4	0	3,835,400:68:0
229	97	50	10:53:17.400	118JN110A111A4C	7STRP	0.0035,0.0,26,0,	Slew =,3.01	4R3	4	0	3,835,400:81:0
230	97	50	10:53:20.066	175IB422A6A	6DMSC	R115,1	DMS Control	4R3	4	0	3,835,400:85:0
231	97	50	10:53:26.066	118JN11A	**SMOS**	GE		4R3	4	0	3,835,401:03:0
232	97	50	10:53:30.733	175IB176A6A	6TMREC	HIM	115.2 KBPS SSI + NIMS RECORD Record Mode	4R3	4	0	3,835,401:10:0
233	97	50	10:53:30.733		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC * 388.15 +/-	4R3	4	0	3,835,401:10:0
234	97	50	10:54:24.733		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC * 577.99 +/-	4R3	4	0	3,835,402:00:0
235	97	50	10:54:24.733	175IB422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,835,402:00:0
236	97	50	10:55:24.066	165BI4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,835,402:89:0
237	97	50	10:55:24.733	165BI4B	7SCAN	NORM,214.441999,	Check S/P Position	4R3	4	0	3,835,402:90:0
238	**97**	**50**	**11:56:09.267**	**E6JNFEA06401-**		**-----START------**		**4R3**	**4**	**0**	**: :**
239	**97**	**50**	**11:58:02.066**	**125DB4A**	**37IST**	**0,2,0,OFF,0,1,0**	**Gain State 2**	**2R3**	**4**	**0**	**3,835,464:84:0**
240	97	50	11:58:02.066	125DB	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	3,835,464:84:0
241	97	50	11:58:02.066	125DB11A	NIMSINIT	GE	##### GROUP END INIT	2R3	4	0	3,835,464:84:0
242	97	50	11:58:04.066	176DA6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	3,835,464:87:0
243	97	50	11:58:05.400	165DB4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,835,464:89:0
244	97	50	11:58:06.066	165DB4B	7SCAN	NORM,234.285999,	Check S/P Position	2R3	4	0	3,835,464:90:0
245	97	50	11:59:02.733	127DB	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	3,835,465:84:0
246	**97**	**50**	**11:59:02.733**	**127DB4A**	**37IOP**	**5,1**	**Short Map, Grating Start Position =01**	**2R5**	**4**	**1**	**3,835,465:84:0**
247	**97**	**50**	**11:59:03.400**	**127DB4B**	**37ETB**	**,CD,02,00,00,05,**	**Loads wavelength edit table**	**2R5**	**4**	**1**	**3,835,465:85:0**
248	97	50	11:59:11.400	127DB11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R5	4	1	3,835,466:06:0
249	97	50	11:59:56.733	175DB422A6A	6DMSC	R7,1	DMS Control Tape runup 7.68kbp	2R5	4	1	3,835,466:74:0
250	97	50	11:59:58.733	117DB	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,835,466:77:0
251	97	50	12:00:04.733	175DB176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	3,835,466:86:0
252	97	50	12:00:04.800		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC * 579.11 +/-	2R5	4	1	3,835,466:86:1
253	97	50	12:00:08.066	117DB105A106A4A	**7STRP**	**-0.0109,0.0,0,0,**	**Slew =,0.11**	2R5	4	1	3,835,467:00:0
254	**97**	**50**	**12:00:08.174**	**E6JNFEA06401-**	**NIMPBK**	**301DA**	**JUPITER FEATURE TRACK 64 DEG PHA**	**2R5**	**4**	**1**	**: :**
255	**97**	**50**	**12:01:47.508**	**E6JNFEA06401-**	**DESELC**	**300DA**	**JUPITER FEATURE TRACK 64 DEG PHA**	**2R5**	**4**	**1**	**: :**
256	97	50	12:01:48.066	117DB11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,835,468:59:0
257	97	50	12:01:49.400	175DB422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,835,468:61:0
258	97	50	12:01:49.400	175DB6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,835,468:61:0
259	97	50	12:01:49.400		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC * 603.63 +/-	2R5	4	1	3,835,468:61:0
260	**97**	**50**	**12:02:13.267**	**E6JNFEA06401-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**
261	97	50	12:12:14.733	165DC4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,835,478:89:0
262	97	50	12:12:15.400	165DC4B	7SCAN	NORM,234.189999,	Check S/P Position	2R5	4	1	3,835,478:90:0
263	**97**	**50**	**12:12:19.934**	**E6JNFEA06402-**		**-----START------**		**2R5**	**4**	**1**	**: :**
264	97	50	12:16:07.400	175DC422A6A	6DMSC	R7,1	DMS Control Tape runup 7.68kbp	2R5	4	1	3,835,482:74:0
265	97	50	12:16:09.400	117DC	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,835,482:77:0
266	97	50	12:16:15.400	175DC176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	3,835,482:86:0
267	97	50	12:16:15.466		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC * 603.81 +/-	2R5	4	1	3,835,482:86:1
268	97	50	12:16:18.733	117DC105A106A4A	**7STRP**	**-0.0109,0.0,0,0,**	**Slew =,0.11**	2R5	4	1	3,835,483:00:0
269	**97**	**50**	**12:16:18.840**	**E6JNFEA06402-**	**NIMPBK**	**301DB**	**JUPITER FEATURE TRACK 64 DEG PHA**	**2R5**	**4**	**1**	**: :**
270	**97**	**50**	**12:17:58.173**	**E6JNFEA06402-**	**DESELC**	**300DB**	**JUPITER FEATURE TRACK 64 DEG PHA**	**2R5**	**4**	**1**	**: :**
271	97	50	12:17:58.733	117DC11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,835,484:59:0
272	97	50	12:18:00.066	175DC422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,835,484:61:0
273	97	50	12:18:00.066	175DC6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,835,484:61:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
274	97	50	12:18:00.066		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC * 628.32 +/-	2R5	4	1	3,835,484:61:0	
275	**97**	**50**	**12:18:23.934**	**E6JNFEA06402-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**	
276	97	50	12:18:33.400	165JV4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,835,485:20:0	
277	97	50	12:18:34.066	165JV4B	7SCAN	NORM,234.9,-23.2	Check S/P Position	2R5	4	1	3,835,485:21:0	
278	97	50	12:19:24.733	118JV	**SMOS**	GS		2R5	4	1	3,835,486:06:0	
279	97	50	12:19:26.066	175IC422A6A	6DMSC	R115,1	DMS Control	2R5	4	1	3,835,486:08:0	
280	97	50	12:19:36.733		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC * 634.68 +/-	2R5	4	1	3,835,486:24:0	
281	97	50	12:19:36.733	175IC176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R5	4	1	3,835,486:24:0	
282	97	50	12:19:38.066	118JV110A111A4A	7STRP	-0.007,0.0,46,0,	Slew =,3.01	2R5	4	1	3,835,486:26:0	
283	97	50	12:20:24.066	118JV110A111A4B	7STRP	0.0,0.007,0,0,0,	Slew =0,5.0	2R5	4	1	3,835,487:04:0	
284	97	50	12:20:39.400	118JV110A111A4C	7STRP	-0.007,0.0,46,0,	Slew =,3.01	2R5	4	1	3,835,487:27:0	
285	97	50	12:21:22.066	176IA6A	6TMREC	HIM	115.2 KBPS SSI + NIMS RECORD Record Mode	2R5	4	1	3,835,488:00:0	
286	97	50	12:21:25.400	118JV11A	**SMOS**	GE		2R5	4	1	3,835,488:05:0	
287	97	50	12:22:21.400	165AE4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,835,488:89:0	
288	97	50	12:22:22.066	165AE4B	7SCAN	NORM,234.473,-22	Check S/P Position	2R5	4	1	3,835,488:90:0	
289	97	50	12:22:22.733	175IC422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,835,489:00:0	
290	97	50	12:22:22.733		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *1218.28 +/-	2R5	4	1	3,835,489:00:0	
291	97	50	12:23:14.066	117AE	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,835,489:77:0	
292	97	50	12:23:23.400	117AE105A106A4A	7STRP	0.0,0.0,0,0,0,0,	Slew =,1.01	2R5	4	1	3,835,490:00:0	
293	97	50	12:24:54.066	117AE105A106A4B	7STRP	0.004,0.0,0,0,0,	Slew =12.01	2R5	4	1	3,835,491:45:0	
294	97	50	12:25:24.066	117AE105A106A4C	7STRP	0.0,0.0,0,0,0,0,	Slew =,1.01	2R5	4	1	3,835,491:90:0	
295	97	50	12:26:54.733	117AE105A106A4D	7STRP	0.004,0.0,0,0,0,	Slew =12.01	2R5	4	1	3,835,493:44:0	
296	97	50	12:27:24.733	117AE105A106A4E	7STRP	0.0,0.0,0,0,0,0,	Slew =,1.01	2R5	4	1	3,835,493:89:0	
297	97	50	12:28:55.400	117AE105A106A4F	7STRP	0.004,0.0,0,0,0,	Slew =12.01	2R5	4	1	3,835,495:43:0	
298	97	50	12:29:25.400	117AE105A106A4G	7STRP	0.0,0.0,0,0,0,0,	Slew =,1.01	2R5	4	1	3,835,495:88:0	
299	97	50	12:30:56.066	117AE105A106B4A	7STRP	-0.013001,-0.007	Slew =12.01	2R5	4	1	3,835,497:42:0	
300	97	50	12:31:26.733	117AE105A106B4B	7STRP	0.0,0.0,0,0,0,0,	Slew =,1.01	2R5	4	1	3,835,497:88:0	
301	97	50	12:32:57.400	117AE105A106C4A	7STRP	0.004,0.0,0,0,0,	Slew =12.01	2R5	4	1	3,835,499:42:0	
302	97	50	12:33:28.066	117AE105A106C4B	7STRP	0.0,0.0,0,0,0,0,	Slew =,1.01	2R5	4	1	3,835,499:88:0	
303	97	50	12:34:58.733	117AE105A106C4C	7STRP	0.004,0.0,0,0,0,	Slew =12.01	2R5	4	1	3,835,501:42:0	
304	97	50	12:35:29.400	117AE105A106C4D	7STRP	0.0,0.0,0,0,0,0,	Slew =,1.01	2R5	4	1	3,835,501:88:0	
305	97	50	12:37:00.066	117AE105A106C4E	7STRP	0.004,0.0,0,0,0,	Slew =12.01	2R5	4	1	3,835,503:42:0	
306	97	50	12:37:30.733	117AE105A106C4F	7STRP	0.0,0.0,0,0,0,0,	Slew =,1.01	2R5	4	1	3,835,503:88:0	
307	97	50	12:39:01.400	117AE11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,835,505:42:0	
308	97	50	12:39:02.066	165AF4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,835,505:43:0	
309	97	50	12:39:02.733	165AF4B	7SCAN	NORM,234.802999,	Check S/P Position	2R5	4	1	3,835,505:44:0	
310	97	50	12:40:34.733	411AA6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,835,507:00:0	
311	97	50	12:40:42.800		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *1219.40 +/-	2R5	4	1	3,835,507:12:1	
312	97	50	12:40:44.733	411AA6B	6TMREC	BDT	7.68 KBPS BUFFER DUMP TO TAPE Record Mode	2R5	4	1	3,835,507:15:0	
313	97	50	12:42:46.066	411AA6C	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,835,509:15:0	
314	97	50	12:42:46.733		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *1248.44 +/-	2R5	4	1	3,835,509:16:0	
315	97	50	12:42:46.733	411AA6D	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,835,509:16:0	
316	97	50	12:46:37.400	165CE4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,835,512:89:0	
317	97	50	12:46:38.066	165CE4B	7SCAN	NORM,248.424,-24	Check S/P Position	2R5	4	1	3,835,512:90:0	
318	97	50	12:48:27.400	488AM6A	6TMSED	FILL,DL2	Sci, Eng, and D/L Chan	2R5	4	1	3,835,514:72:0	
319	97	50	13:19:59.400	165DE4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,835,545:89:0	
320	97	50	13:20:00.066	165DE4B	7SCAN	NORM,233.966,-22	Check S/P Position	2R5	4	1	3,835,545:90:0	
321	**97**	**50**	**13:20:04.600**	**E6JNFEA06403-**		**-----START------**		**2R5**	**4**	**1**	**: :**	
322	97	50	13:23:52.066	175DE422A6A	6DMSC	R7,1	DMS Control Tape runup 7.68kbp	2R5	4	1	3,835,549:74:0	
323	97	50	13:23:54.066	117DE	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,835,549:77:0	
324	97	50	13:24:00.066	175DE176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	3,835,549:86:0	
325	97	50	13:24:00.133		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *1248.62 +/-	2R5	4	1	3,835,549:86:1	
326	97	50	13:24:03.400	117DE105A106A4A	**7STRP**	**-0.0109,0.0,0,0,**	**Slew =,0.11**	2R5	4	1	3,835,550:00:0	
327	**97**	**50**	**13:24:03.505**	**E6JNFEA06403-**	**NIMPBK**	**301DC**	**JUPITER FEATURE TRACK 64 DEG PHA**	**2R5**	**4**	**1**	**: :**	
328	**97**	**50**	**13:25:42.838**	**E6JNFEA06403-**	**DESELC**	**300DC**	**JUPITER FEATURE TRACK 64 DEG PHA**	**2R5**	**4**	**1**	**: :**	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
329	97	50	13:25:43.400	117DE11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,835,551:59:0	
330	97	50	13:25:44.733		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *1273.14 +/-	2R5	4	1	3,835,551:61:0	
331	97	50	13:25:44.733	175DE6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,835,551:61:0	
332	97	50	13:25:44.733	175DE422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,835,551:61:0	
333	**97**	**50**	**13:26:08.600**	**E6JNFEA06403-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**	
334	97	50	13:29:06.733	192GA4A	**7CONE**	**17.4,0.0**	Check S/P Position	2R5	4	1	3,835,555:00:0	
335	97	50	13:33:53.400	176GA6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R5	4	1	3,835,559:66:0	
336	97	50	13:35:20.066	176GA6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,835,561:14:0	
337	97	50	13:35:32.066		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *1273.77 +/-	2R5	4	1	3,835,561:32:0	
338	97	50	13:35:40.066		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *1275.65 +/-	2R5	4	1	3,835,561:44:0	
339	97	50	13:40:46.066	488AM6B	6TMSED	NORM,DL2	Sci, Eng, and D/L Chan	2R5	4	1	3,835,566:48:0	
340	97	50	13:59:25.400	165CF4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,835,584:89:0	
341	97	50	13:59:26.066	165CF4B	7SCAN	NORM,252.000999,	Check S/P Position	2R5	4	1	3,835,584:90:0	
342	97	50	14:15:19.333	488AM6C	6TMSED	NORM,DL3	Sci, Eng, and D/L Chan	2R5	4	1	3,835,600:64:0	
343	97	50	14:48:58.000	165JP4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,835,633:89:0	
344	97	50	14:48:58.666	165JP4B	7SCAN	NORM,254.157999,	Check S/P Position	2R5	4	1	3,835,633:90:0	
345	97	50	14:51:53.333	118JP	**SMOS**	GS		2R5	4	1	3,835,636:79:0	
346	97	50	14:52:03.333	118JP110A111A4A	7STRP	0.00015,-0.0032,	Slew =,3.01	2R5	4	1	3,835,637:03:0	
347	97	50	14:52:12.000	118JP110A111A4B	7STRP	-0.0035,0.0032,0	Slew =,3.01	2R5	4	1	3,835,637:16:0	
348	97	50	14:52:17.333	175ID422A6A	6DMSC	R806,1	DMS Control	2R5	4	1	3,835,637:24:0	
349	97	50	14:52:20.666	118JP110A111A4C	7STRP	0.00015,-0.0032,	Slew =,3.01	2R5	4	1	3,835,637:29:0	
350	97	50	14:52:28.666	175ID176A6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	2R5	4	1	3,835,637:41:0	
351	97	50	14:52:29.266		DMS:	**: *RECORD**	R806, TRACK 1, FWD, TIC *1341.71 +/-	2R5	4	1	3,835,637:41:9	
352	97	50	14:52:29.333	118JP11A	**SMOS**	GE		2R5	4	1	3,835,637:42:0	
353	97	50	14:52:35.333	175ID422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,835,637:51:0	
354	97	50	14:52:35.333		DMS:	**: *RUNDOWN**	R806, TRACK 1, FWD, TIC *1491.00 +/-	2R5	4	1	3,835,637:51:0	
355	97	50	14:53:00.666	165CG4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,835,637:89:0	
356	97	50	14:53:01.333	165CG4B	7SCAN	NORM,254.591999,	Check S/P Position	2R5	4	1	3,835,637:90:0	
357	97	50	15:19:30.666	488AM6D	6TMSED	FILL,DL3	Sci, Eng, and D/L Chan	2R5	4	1	3,835,664:17:0	
358	97	50	15:36:29.333	165AG4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,835,680:89:0	
359	97	50	15:36:30.000	165AG4B	7SCAN	NORM,241.974998,	Check S/P Position	2R5	4	1	3,835,680:90:0	
360	97	50	15:40:24.000	117AG	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,835,684:77:0	
361	97	50	15:40:33.333	117AG105A106A4A	7STRP	0.0,0.0,0,0,0,0,	Slew =,0.01	2R5	4	1	3,835,685:00:0	
362	97	50	15:53:38.666	488AM6E	6TMSED	NORM,DL3	Sci, Eng, and D/L Chan	2R5	4	1	3,835,697:86:0	
363	97	50	16:09:52.666	117AG105A106A4B	7STRP	0.013501,0.0,0,0	Slew =12.01	2R5	4	1	3,835,714:00:0	
364	97	50	16:10:53.333	117AG105A106A4C	7STRP	0.0,0.0,0,0,0,0,	Slew =,0.01	2R5	4	1	3,835,715:00:0	
365	97	50	16:31:50.666	488AN6A	6TMSED	NORM,DL4	Sci, Eng, and D/L Chan	2R5	4	1	3,835,735:66:0	
366	97	50	16:40:12.666	117AG105A106A4D	7STRP	0.013501,0.0,0,0	Slew =12.01	2R5	4	1	3,835,744:00:0	
367	97	50	16:41:13.333	117AG105A106A4E	7STRP	0.0,0.0,0,0,0,0,	Slew =,0.01	2R5	4	1	3,835,745:00:0	
368	97	50	17:00:00.000	488AN6B	6TMSED	NORM,EL4	Sci, Eng, and D/L Chan	2R5	4	1	3,835,763:52:0	
369	97	50	17:10:32.666	117AG105A106A4F	7STRP	0.013501,0.0,0,0	Slew =12.01	2R5	4	1	3,835,774:00:0	
370	97	50	17:11:33.333	117AG105A106A4G	7STRP	0.0,0.0,0,0,0,0,	Slew =,0.01	2R5	4	1	3,835,775:00:0	
371	97	50	17:40:52.666	117AG105A106A4H	7STRP	0.013501,0.0,0,0	Slew =12.01	2R5	4	1	3,835,804:00:0	
372	97	50	17:41:53.333	117AG105A106A4I	7STRP	0.0,0.0,0,0,0,0,	Slew =,0.01	2R5	4	1	3,835,805:00:0	
373	97	50	17:57:10.666	488AN6C	6TMSED	NORM,EL5	Sci, Eng, and D/L Chan	2R5	4	1	3,835,820:11:0	
374	97	50	18:11:12.666	117AG105A106A4J	7STRP	0.013501,0.0,0,0	Slew =12.01	2R5	4	1	3,835,834:00:0	
375	97	50	18:12:13.333	117AG105A106A4K	7STRP	0.0,0.0,0,0,0,0,	Slew =,0.01	2R5	4	1	3,835,835:00:0	
376	97	50	18:31:18.666	488AN6D	6TMSED	NORM,EL6	Sci, Eng, and D/L Chan	2R5	4	1	3,835,853:80:0	
377	97	50	18:41:32.666	117AG11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,835,864:00:0	
378	97	50	18:42:32.000	165GB4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,835,864:89:0	
379	97	50	18:42:32.666	165GB4B	7SCAN	NORM,245.087999,	Check S/P Position	2R5	4	1	3,835,864:90:0	
380	97	50	18:46:26.666	117GB	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,835,868:77:0	
381	97	50	18:46:36.000	117GB105A106A4A	7STRP	0.0,0.107344,0,0	Slew =,0.04	2R5	4	1	3,835,869:00:0	
382	97	50	18:46:36.000	176GB6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R5	4	1	3,835,869:00:0	
383	97	50	18:59:36.000		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *1506.51 +/-	2R5	4	1	3,835,881:78:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
384	97	50	18:59:56.000		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *1511.20 +/-	2R5	4	1	3,835,882:17:0
385	97	50	19:12:38.000		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *1515.27 +/-	2R5	4	1	3,835,894:68:0
386	97	50	19:12:58.000		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *1519.96 +/-	2R5	4	1	3,835,895:07:0
387	97	50	19:25:40.000		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *1524.03 +/-	2R5	4	1	3,835,907:58:0
388	97	50	19:26:00.000		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *1528.72 +/-	2R5	4	1	3,835,907:88:0
389	97	50	19:38:24.000	176GB6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,835,920:21:0
390	97	50	19:38:24.000	117GB11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,835,920:21:0
391	97	50	19:38:42.000		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *1532.63 +/-	2R5	4	1	3,835,920:48:0
392	97	50	19:39:01.333		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *1537.16 +/-	2R5	4	1	3,835,920:77:0
393	97	50	20:12:31.333	165DF4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,835,953:89:0
394	97	50	20:12:32.000	165DF4B	7SCAN	NORM,88.115999,7	Check S/P Position	2R5	4	1	3,835,953:90:0
395	**97**	**50**	**20:12:36.667**	**E6NNHNDARK01-**		**-----START------**		**2R5**	**4**	**1**	**: :**
396	**97**	**50**	**20:15:30.000**	**127DF4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**3,835,956:84:0**
397	97	50	20:15:30.000	127DF	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	3,835,956:84:0
398	**97**	**50**	**20:15:30.666**	**127DF4B**	**37ETB**	**07,C7,05,FF,FF,3**	**Loads wavelength edit table**	**2R3**	**4**	**0**	**3,835,956:85:0**
399	97	50	20:15:38.666	127DF11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	3,835,957:06:0
400	97	50	20:16:24.000	175DF422A6A	6DMSC	R7,1	DMS Control Tape runup 7.68kbp	2R3	4	0	3,835,957:74:0
401	97	50	20:16:32.000	175DF176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R3	4	0	3,835,957:86:0
402	97	50	20:16:32.066		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *1537.34 +/-	2R3	4	0	3,835,957:86:1
403	**97**	**50**	**20:16:34.822**	**E6NNHNDARK01-**	**NIMPBK**	**301DD**	**DARK OBSERVATION**	**2R3**	**4**	**0**	**: :**
404	**97**	**50**	**20:17:35.489**	**E6NNHNDARK01-**	**DESELC**	**300DD**	**DARK OBSERVATION**	**2R3**	**4**	**0**	**: :**
405	97	50	20:17:38.000	175DF422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,835,959:03:0
406	97	50	20:17:38.000	175DF6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	3,835,959:03:0
407	97	50	20:17:38.000		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *1552.80 +/-	2R3	4	0	3,835,959:03:0
408	**97**	**50**	**20:18:40.667**	**E6NNHNDARK01-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**
409	97	50	20:30:43.333	165DG4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,835,971:89:0
410	97	50	20:30:44.000	165DG4B	7SCAN	NORM,269.807999,	Check S/P Position	2R3	4	0	3,835,971:90:0
411	**97**	**50**	**20:30:48.667**	**E6INCHEMIS01-**		**-----START------**		**2R3**	**4**	**0**	**: :**
412	**97**	**50**	**20:32:41.333**	**127DG4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**3,835,973:84:0**
413	97	50	20:32:41.333	127DG	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	3,835,973:84:0
414	**97**	**50**	**20:32:42.000**	**127DG4B**	**37ETB**	**07,C7,02,01,80,0**	**Loads wavelength edit table**	**2R3**	**4**	**0**	**3,835,973:85:0**
415	97	50	20:32:50.000	127DG11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	3,835,974:06:0
416	97	50	20:33:32.666	175DG422A6A	6DMSC	R28,1	DMS Control	2R3	4	0	3,835,974:70:0
417	97	50	20:33:37.333	117DG	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	3,835,974:77:0
418	97	50	20:33:43.333	175DG176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	2R3	4	0	3,835,974:86:0
419	97	50	20:33:43.333		DMS:	**: *RECORD**	R28, TRACK 1, FWD, TIC *1554.36 +/-	2R3	4	0	3,835,974:86:0
420	**97**	**50**	**20:33:46.155**	**E6INCHEMIS01-**	**NIMPBK**	**301DE**	**MONITORING OF IO'S DAYSIDE**	**2R3**	**4**	**0**	**: :**
421	97	50	20:33:46.666	117DG105A106A4A	**7STRP**	**-0.002,0.0,0,0,0**	**Slew =,0.02**	2R3	4	0	3,835,975:00:0
422	**97**	**50**	**20:35:30.155**	**E6INCHEMIS01-**	**DESELC**	**300DE**	**MONITORING OF IO'S DAYSIDE**	**2R3**	**4**	**0**	**: :**
423	97	50	20:35:30.666	117DG11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	3,835,976:65:0
424	97	50	20:35:32.000	175DG422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,835,976:67:0
425	97	50	20:35:32.000		DMS:	**: *RUNDOWN**	R28, TRACK 1, FWD, TIC *1649.86 +/-	2R3	4	0	3,835,976:67:0
426	**97**	**50**	**20:35:52.000**	**E6INCHEMIS01-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**
427	97	50	21:03:04.666	165JS4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,836,003:89:0
428	97	50	21:03:05.333	165JS4B	7SCAN	NORM,270.960999,	Check S/P Position	2R3	4	0	3,836,003:90:0
429	97	50	21:07:00.666	118JS	**SMOS**	GS		2R3	4	0	3,836,007:79:0
430	97	50	21:07:10.666	118JS110A111A4A	7STRP	0.0041,0.0,26,0,	Slew =,3.01	2R3	4	0	3,836,008:03:0
431	97	50	21:07:19.333	118JS110A111A4B	7STRP	-0.00394,0.0039,	Slew =,3.01	2R3	4	0	3,836,008:16:0
432	97	50	21:07:24.666	175IE422A6A	6DMSC	R806,1	DMS Control	2R3	4	0	3,836,008:24:0
433	97	50	21:07:28.000	118JS110A111A4C	7STRP	0.0041,0.0,26,0,	Slew =,3.01	2R3	4	0	3,836,008:29:0
434	97	50	21:07:36.000	175IE176A6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	2R3	4	0	3,836,008:41:0
435	97	50	21:07:36.600		DMS:	**: *RECORD**	R806, TRACK 1, FWD, TIC *1716.16 +/- 1	2R3	4	0	3,836,008:41:9
436	97	50	21:07:36.666	118JS11A	**SMOS**	GE		2R3	4	0	3,836,008:42:0
437	97	50	21:07:43.333		DMS:	**: *RUNDOWN**	R806, TRACK 1, FWD, TIC *1881.87 +/- 1	2R3	4	0	3,836,008:52:0
438	97	50	21:07:43.333	175IE422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,836,008:52:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
439	97	50	21:32:20.666	125FY11A	NIMSINIT	GE	##### GROUP END INIT	2R3	4	0	3,836,032:84:0	
440	97	50	21:32:20.666	125FY	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	3,836,032:84:0	
441	**97**	**50**	**21:32:20.666**	**125FY4A**	**37IST**	**0,2,0,OFF,0,1,0**	**Gain State 2**	**2R3**	**4**	**0**	**3,836,032:84:0**	
442	**97**	**50**	**21:32:29.267**	**E6NNHEALTH01-**		**-----START------**		**2R3**	**4**	**0**	**: :**	
443	**97**	**50**	**21:33:21.333**	**127FY4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**3,836,033:84:0**	
444	97	50	21:33:21.333	127FY	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	3,836,033:84:0	
445	**97**	**50**	**21:33:22.000**	**127FY4B**	**37ETB**	**07,C7,02,80,44,3**	**Loads wavelength edit table**	**2R3**	**4**	**0**	**3,836,033:85:0**	
446	97	50	21:33:30.000	127FY11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	3,836,034:06:0	
447	**97**	**50**	**21:33:46.000**	**432EA6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**	**NIMS R/T SELECT**	**2R3**	**4**	**0**	**3,836,034:30:0**	
448	**97**	**50**	**21:34:45.333**	**432EB6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**2R3**	**4**	**0**	**3,836,035:28:0**	
449	**97**	**50**	**21:37:32.600**	**E6NIMSP2LD01-**		**-----START------**		**2R3**	**4**	**0**	**: :**	
450	**97**	**50**	**21:37:32.600**	**E6NNHEALTH01-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**	
451	**97**	**50**	**21:38:33.333**	**20EB6A**	**6CKSUM**	**NIMS**	**NIMS,1000,14BC**	**2R3**	**4**	**0**	**3,836,039:06:0**	
452	**97**	**50**	**21:39:34.000**	**20EB5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**2R3**	**4**	**0**	**3,836,040:06:0**	
453	**97**	**50**	**21:40:34.666**	**20EB5B**	**37MRL**		**Memory Realocate (software operates from R**	**2R3**	**4**	**0**	**3,836,041:06:0**	
454	**97**	**50**	**21:41:35.333**	**20EB6B**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**2R3**	**4**	**0**	**3,836,042:06:0**	
455	**97**	**50**	**21:42:36.000**	**20EB6C**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**2R3**	**4**	**0**	**3,836,043:06:0**	
456	**97**	**50**	**21:43:36.666**	**20EB5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**3,836,044:06:0**	
457	**97**	**50**	**21:44:37.333**	**20EB5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**3,836,045:06:0**	
458	97	50	21:45:32.666	165DH4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	260	4	0	3,836,045:89:0	
459	97	50	21:45:33.333	165DH4B	7SCAN	NORM,251.030998,	Check S/P Position	260	4	0	3,836,045:90:0	
460	**97**	**50**	**21:45:37.934**	**E6JNFEA04801-**		**-----START------**		**260**	**4**	**0**	**: :**	
461	**97**	**50**	**21:45:38.000**	**20EB4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**3,836,046:06:0**	
462	**97**	**50**	**21:46:38.666**	**20EB4B**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**3,836,047:06:0**	
463	**97**	**50**	**21:47:39.267**	**E6NIMSP2LD01-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**	
464	**97**	**50**	**21:48:31.333**	**127DH4A**	**37IOP**	**5,1**	**Short Map, Grating Start Position =01**	**2R5**	**4**	**1**	**3,836,048:84:0**	
465	97	50	21:48:31.333	127DH	NIMSTAB	GS	%%%%% GROUP START TAB	2R5	4	1	3,836,048:84:0	
466	**97**	**50**	**21:48:32.000**	**127DH4B**	**37ETB**	**,CD,02,00,00,05,**	**Loads wavelength edit table**	**2R5**	**4**	**1**	**3,836,048:85:0**	
467	97	50	21:48:40.000	127DH11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R5	4	1	3,836,049:06:0	
468	97	50	21:49:25.333	175DH422A6A	6DMSC	R7,1	DMS Control Tape runup 7.68kbp	2R5	4	1	3,836,049:74:0	
469	97	50	21:49:27.333	117DH	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,836,049:77:0	
470	97	50	21:49:33.333	175DH176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	3,836,049:86:0	
471	97	50	21:49:33.400		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *1893.49 +/- 1	2R5	4	1	3,836,049:86:1	
472	97	50	21:49:36.666	117DH105A106A4A	**7STRP**	**-0.0109,0.0,0,0,**	**Slew =,0.11**	2R5	4	1	3,836,050:00:0	
473	**97**	**50**	**21:49:36.819**	**E6JNFEA04801-**	**NIMPBK**	**301DF**	**JUPITER FEATURE TRACK 48 DEG PHA**	**2R5**	**4**	**1**	**: :**	
474	**97**	**50**	**21:51:16.153**	**E6JNFEA04801-**	**DESELC**	**300DF**	**JUPITER FEATURE TRACK 48 DEG PHA**	**2R5**	**4**	**1**	**: :**	
475	97	50	21:51:16.666	117DH11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,836,051:59:0	
476	97	50	21:51:18.000	175DH422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,836,051:61:0	
477	97	50	21:51:18.000		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *1918.00 +/- 1	2R5	4	1	3,836,051:61:0	
478	97	50	21:51:18.000	175DH6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,836,051:61:0	
479	**97**	**50**	**21:51:41.934**	**E6JNFEA04801-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**	
480	97	50	22:01:43.333	165JA4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,836,061:89:0	
481	97	50	22:01:44.000	165JA4B	7SCAN	NORM,252.127998,	Check S/P Position	2R5	4	1	3,836,061:90:0	
482	**97**	**50**	**22:01:48.600**	**E6JNFEA04802-**		**-----START------**		**2R5**	**4**	**1**	**: :**	
483	97	50	22:02:35.333	175IF422A6A	6DMSC	R115,1	DMS Control	2R5	4	1	3,836,062:76:0	
484	97	50	22:02:37.333	118JA	**SMOS**	GS		2R5	4	1	3,836,062:79:0	
485	97	50	22:02:46.000		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *1924.36 +/- 1	2R5	4	1	3,836,063:01:0	
486	97	50	22:02:46.000	175IF176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R5	4	1	3,836,063:01:0	
487	97	50	22:02:47.333	118JA110A111A4A	7STRP	-0.007,0.0,46,0,	Slew =,3.01	2R5	4	1	3,836,063:03:0	
488	97	50	22:03:33.333	118JA110A111B4A	7STRP	0.0,-0.007,0,0,0	Slew =0,5.0	2R5	4	1	3,836,063:72:0	
489	97	50	22:03:48.666	118JA110A111B4B	7STRP	-0.007,0.0,46,0,	Slew =,3.01	2R5	4	1	3,836,064:04:0	
490	97	50	22:04:34.666	118JA110A111A4B	7STRP	0.0,0.007,0,0,0,	Slew =0,5.0	2R5	4	1	3,836,064:73:0	
491	97	50	22:04:50.000	118JA110A111A4C	7STRP	-0.007,0.0,46,0,	Slew =,3.01	2R5	4	1	3,836,065:05:0	
492	**97**	**50**	**22:04:50.600**	**E6JNFEA04802-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**	
493	97	50	22:05:36.000	118JA110A111B4C	7STRP	0.0,-0.007,0,0,0	Slew =0,5.0	2R5	4	1	3,836,065:74:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
494	97	50	22:05:51.333	118JA110A111B4D	7STRP	-0.007,0.0,46,0,	Slew =,3.01	2R5	4	1	3,836,066:06:0
495	97	50	22:06:37.333	118JA11A	**SMOS**	GE		2R5	4	1	3,836,066:75:0
496	97	50	22:06:41.333	116JA4A	7STRP	0.0,0.007,0,0,0,	Slew =0,5.0	2R5	4	1	3,836,066:81:0
497	97	50	22:06:48.000	176IB6A	6TMREC	HIM	115.2 KBPS SSI + NIMS RECORD Record Mode	2R5	4	1	3,836,067:00:0
498	97	50	22:06:52.000	118JB	**SMOS**	GS		2R5	4	1	3,836,067:06:0
499	97	50	22:07:35.333	118JB110A111A4A	7STRP	-0.007,0.0,46,0,	Slew =,3.51	2R5	4	1	3,836,067:71:0
500	97	50	22:07:48.666	176IC6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R5	4	1	3,836,068:00:0
501	97	50	22:08:21.333	118JB110A111B4A	7STRP	0.0,-0.007,0,0,0	Slew =0,5.0	2R5	4	1	3,836,068:49:0
502	97	50	22:08:36.666	118JB110A111B4B	7STRP	-0.007,0.0,46,0,	Slew =,3.51	2R5	4	1	3,836,068:72:0
503	97	50	22:09:22.666	118JB110A111A4B	7STRP	0.0,0.007,0,0,0,	Slew =0,5.0	2R5	4	1	3,836,069:50:0
504	97	50	22:09:38.000	118JB110A111A4C	7STRP	-0.007,0.0,46,0,	Slew =,3.51	2R5	4	1	3,836,069:73:0
505	97	50	22:10:24.000	118JB110A111B4C	7STRP	0.0,-0.007,0,0,0	Slew =0,5.0	2R5	4	1	3,836,070:51:0
506	97	50	22:10:39.333	118JB110A111B4D	7STRP	-0.007,0.0,46,0,	Slew =,3.51	2R5	4	1	3,836,070:74:0
507	97	50	22:11:21.333	175IF422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,836,071:46:0
508	97	50	22:11:21.333		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *3736.08 +/- 1	2R5	4	1	3,836,071:46:0
509	97	50	22:11:25.333	118JB11A	**SMOS**	GE		2R5	4	1	3,836,071:52:0
510	97	50	22:11:50.000	165DI4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,836,071:89:0
511	97	50	22:11:50.666	165DI4B	7SCAN	NORM,251.827,-26	Check S/P Position	2R5	4	1	3,836,071:90:0
512	97	50	22:12:38.000	175DI422A6A	6DMSC	R28,1	DMS Control	2R5	4	1	3,836,072:70:0
513	97	50	22:12:42.666	117DI	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,836,072:77:0
514	97	50	22:12:48.666		DMS:	**: *RECORD**	R28, TRACK 1, FWD, TIC *3738.58 +/- 1	2R5	4	1	3,836,072:86:0
515	97	50	22:12:48.666	175DI176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	2R5	4	1	3,836,072:86:0
516	97	50	22:12:52.000	117DI105A106A4A	**7STRP**	**-0.0109,0.0,0,0,**	**Slew =,0.11**	2R5	4	1	3,836,073:00:0
517	97	50	22:14:32.000	117DI11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,836,074:59:0
518	97	50	22:14:33.333		DMS:	**: *RUNDOWN**	R28, TRACK 1, FWD, TIC *3830.57 +/- 1	2R5	4	1	3,836,074:61:0
519	97	50	22:14:33.333	175DI422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,836,074:61:0
520	97	50	22:14:52.000	165AH4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,836,074:89:0
521	97	50	22:14:52.666	165AH4B	7SCAN	NORM,251.518999,	Check S/P Position	2R5	4	1	3,836,074:90:0
522	97	50	22:15:44.666	117AH	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,836,075:77:0
523	97	50	22:15:54.000	117AH105A106A4A	7STRP	0.0,0.0,0,0,0,0,	Slew =,1.01	2R5	4	1	3,836,076:00:0
524	97	50	22:17:24.666	117AH105A106A4B	7STRP	0.004,0.0,0,0,0,	Slew =12.01	2R5	4	1	3,836,077:45:0
525	97	50	22:17:55.333	117AH105A106A4C	7STRP	0.0,0.0,0,0,0,0,	Slew =,1.01	2R5	4	1	3,836,078:00:0
526	97	50	22:19:26.000	117AH105A106A4D	7STRP	0.004,0.0,0,0,0,	Slew =12.01	2R5	4	1	3,836,079:45:0
527	97	50	22:19:56.666	117AH105A106A4E	7STRP	0.0,0.0,0,0,0,0,	Slew =,1.01	2R5	4	1	3,836,080:00:0
528	**97**	**50**	**22:21:01.267**	**E6JNPFTB4801-**		**-----START------**		**2R5**	**4**	**1**	**: :**
529	97	50	22:21:27.333	117AH105A106A4F	7STRP	0.004,0.0,0,0,0,	Slew =12.01	2R5	4	1	3,836,081:45:0
530	97	50	22:21:58.000	117AH105A106A4G	7STRP	0.0,0.0,0,0,0,0,	Slew =,1.01	2R5	4	1	3,836,082:00:0
531	97	50	22:23:28.666	117AH105A106B4A	7STRP	-0.012001,-0.007	Slew =12.01	2R5	4	1	3,836,083:45:0
532	97	50	22:23:59.333	117AH105A106B4B	7STRP	0.0,0.0,0,0,0,0,	Slew =,1.01	2R5	4	1	3,836,084:00:0
533	97	50	22:25:30.000	117AH105A106C4A	7STRP	0.004,0.0,0,0,0,	Slew =12.01	2R5	4	1	3,836,085:45:0
534	97	50	22:26:00.666	117AH105A106C4B	7STRP	0.0,0.0,0,0,0,0,	Slew =,1.01	2R5	4	1	3,836,086:00:0
535	97	50	22:27:31.333	117AH105A106C4C	7STRP	0.004,0.0,0,0,0,	Slew =12.01	2R5	4	1	3,836,087:45:0
536	97	50	22:28:02.000	117AH105A106C4D	7STRP	0.0,0.0,0,0,0,0,	Slew =,1.01	2R5	4	1	3,836,088:00:0
537	97	50	22:29:32.666	117AH105A106C4E	7STRP	0.004,0.0,0,0,0,	Slew =12.01	2R5	4	1	3,836,089:45:0
538	97	50	22:29:58.666	127FC	NIMSTAB	GS	%%%%% GROUP START TAB	2R5	4	1	3,836,089:84:0
539	**97**	**50**	**22:29:58.666**	**127FC4A**	**37IOP**	**5,1**	**Short Map, Grating Start Position =01**	**2R5**	**4**	**1**	**3,836,089:84:0**
540	**97**	**50**	**22:29:59.333**	**127FC4B**	**37ETB**		**Loads wavelength edit table**	**2R5**	**4**	**1**	**3,836,089:85:0**
541	97	50	22:30:03.333	117AH105A106C4F	7STRP	0.0,0.0,0,0,0,0,	Slew =,1.01	2R5	4	1	3,836,090:00:0
542	**97**	**50**	**22:30:07.267**	**E6JNPFTB4801-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**
543	97	50	22:30:07.333	127FC11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R5	4	1	3,836,090:06:0
544	97	50	22:31:34.000	117AH11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,836,091:45:0
545	97	50	22:32:03.333	165DK4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,836,091:89:0
546	97	50	22:32:04.000	165DK4B	7SCAN	NORM,251.943998,	Check S/P Position	2R5	4	1	3,836,091:90:0
547	97	50	22:32:54.000	175DK422A6A	6DMSC	R7,1	DMS Control Tape runup 7.68kbp	2R5	4	1	3,836,092:74:0
548	97	50	22:32:56.000	117DK	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,836,092:77:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
549	97	50	22:33:02.000	175DK176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	3,836,092:86:0
550	97	50	22:33:02.066		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *3830.99 +/- 1	2R5	4	1	3,836,092:86:1
551	97	50	22:33:05.333	117DK105A106A4A	**7STRP**	**-0.023804,0.0,0,**	**Slew =,0.12**	2R5	4	1	3,836,093:00:0
552	**97**	**50**	**22:33:05.484**	**E6JNPFTB4801-**	**NIMPBK**	**301DH**	**JUPITER FEATURE TRACK B 48 DEG P**	**2R5**	**4**	**1**	**: :**
553	97	50	22:36:25.333	117DK105A106A4B	**7STRP**	**0.023804,-0.008,**	**Slew =12.01**	2R5	4	1	3,836,096:27:0
554	97	50	22:36:38.666	117DK105A106A4C	**7STRP**	**-0.023804,0.0,0,**	**Slew =,0.12**	2R5	4	1	3,836,096:47:0
555	**97**	**50**	**22:39:58.151**	**E6JNPFTB4801-**	**DESELC**	**300DH**	**JUPITER FEATURE TRACK B 48 DEG P**	**2R5**	**4**	**1**	**: :**
556	97	50	22:39:58.666	117DK11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,836,099:74:0
557	97	50	22:40:00.000		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *3928.95 +/- 1	2R5	4	1	3,836,099:76:0
558	97	50	22:40:00.000	175DK6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,836,099:76:0
559	97	50	22:40:00.000	175DK422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,836,099:76:0
560	97	50	22:40:08.666	165JD4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,836,099:89:0
561	97	50	22:40:09.333	165JD4B	7SCAN	NORM,252.313,-25	Check S/P Position	2R5	4	1	3,836,099:90:0
562	97	50	22:41:00.666	175IG422A6A	6DMSC	R115,1	DMS Control	2R5	4	1	3,836,100:76:0
563	97	50	22:41:02.666	118JD	**SMOS**	GS		2R5	4	1	3,836,100:79:0
564	97	50	22:41:11.333	175IG176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R5	4	1	3,836,101:01:0
565	97	50	22:41:11.333		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *3935.31 +/- 1	2R5	4	1	3,836,101:01:0
566	97	50	22:41:12.666	118JD110A111A4A	7STRP	-0.007,0.0,46,0,	Slew =,3.01	2R5	4	1	3,836,101:03:0
567	97	50	22:41:58.666	118JD110A111B4A	7STRP	0.0,-0.007,0,0,0	Slew =0,5.0	2R5	4	1	3,836,101:72:0
568	97	50	22:42:14.000	118JD110A111B4B	7STRP	-0.007,0.0,46,0,	Slew =,3.01	2R5	4	1	3,836,102:04:0
569	97	50	22:43:00.000	118JD110A111A4B	7STRP	0.0,0.007,0,0,0,	Slew =0,5.0	2R5	4	1	3,836,102:73:0
570	97	50	22:43:15.333	118JD110A111A4C	7STRP	-0.007,0.0,46,0,	Slew =,3.01	2R5	4	1	3,836,103:05:0
571	97	50	22:44:01.333	118JD110A111B4C	7STRP	0.0,-0.007,0,0,0	Slew =0,5.0	2R5	4	1	3,836,103:74:0
572	97	50	22:44:16.666	118JD110A111B4D	7STRP	-0.007,0.0,46,0,	Slew =,3.01	2R5	4	1	3,836,104:06:0
573	97	50	22:45:02.666	118JD11A	**SMOS**	GE		2R5	4	1	3,836,104:75:0
574	97	50	22:45:06.666	116JD4A	7STRP	0.0,0.007,0,0,0,	Slew =0,5.0	2R5	4	1	3,836,104:81:0
575	97	50	22:45:13.333	176ID6A	6TMREC	HIM	115.2 KBPS SSI + NIMS RECORD Record Mode	2R5	4	1	3,836,105:00:0
576	97	50	22:45:17.333	118JE	**SMOS**	GS		2R5	4	1	3,836,105:06:0
577	97	50	22:46:00.666	118JE110A111A4A	7STRP	-0.007,0.0,46,0,	Slew =,3.51	2R5	4	1	3,836,105:71:0
578	97	50	22:46:14.000	176IE6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R5	4	1	3,836,106:00:0
579	97	50	22:46:46.666	118JE110A111B4A	7STRP	0.0,-0.007,0,0,0	Slew =0,5.0	2R5	4	1	3,836,106:49:0
580	97	50	22:47:02.000	118JE110A111B4B	7STRP	-0.007,0.0,46,0,	Slew =,3.51	2R5	4	1	3,836,106:72:0
581	97	50	22:47:48.000	118JE110A111A4B	7STRP	0.0,0.007,0,0,0,	Slew =0,5.0	2R5	4	1	3,836,107:50:0
582	97	50	22:48:03.333	118JE110A111A4C	7STRP	-0.007,0.0,46,0,	Slew =,3.51	2R5	4	1	3,836,107:73:0
583	97	50	22:48:49.333	118JE110A111B4C	7STRP	0.0,-0.007,0,0,0	Slew =0,5.0	2R5	4	1	3,836,108:51:0
584	97	50	22:49:04.666	118JE110A111B4D	7STRP	-0.007,0.0,46,0,	Slew =,3.51	2R5	4	1	3,836,108:74:0
585	97	50	22:49:46.666	175IG422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,836,109:46:0
586	97	50	22:49:46.666		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *5747.03 +/- 1	2R5	4	1	3,836,109:46:0
587	97	50	22:49:50.666	118JE11A	**SMOS**	GE		2R5	4	1	3,836,109:52:0
588	97	50	22:50:15.333	165AJ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,836,109:89:0
589	97	50	22:50:16.000	165AJ4B	7SCAN	NORM,251.484999,	Check S/P Position	2R5	4	1	3,836,109:90:0
590	97	50	22:51:08.000	117AJ	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,836,110:77:0
591	97	50	22:51:17.333	117AJ105A106A4A	7STRP	0.0,0.0,0,0,0,0,	Slew =,1.01	2R5	4	1	3,836,111:00:0
592	97	50	22:52:48.000	117AJ105A106A4B	7STRP	0.004,0.0,0,0,0,	Slew =12.01	2R5	4	1	3,836,112:45:0
593	97	50	22:53:18.666	117AJ105A106A4C	7STRP	0.0,0.0,0,0,0,0,	Slew =,1.01	2R5	4	1	3,836,113:00:0
594	97	50	22:54:49.333	117AJ105A106A4D	7STRP	0.004,0.0,0,0,0,	Slew =12.01	2R5	4	1	3,836,114:45:0
595	97	50	22:55:20.000	117AJ105A106A4E	7STRP	0.0,0.0,0,0,0,0,	Slew =,1.01	2R5	4	1	3,836,115:00:0
596	97	50	22:56:50.666	117AJ105A106A4F	7STRP	0.004,0.0,0,0,0,	Slew =12.01	2R5	4	1	3,836,116:45:0
597	97	50	22:57:21.333	117AJ105A106A4G	7STRP	0.0,0.0,0,0,0,0,	Slew =,1.01	2R5	4	1	3,836,117:00:0
598	97	50	22:58:52.000	117AJ105A106B4A	7STRP	-0.013001,-0.007	Slew =12.01	2R5	4	1	3,836,118:45:0
599	97	50	22:59:22.666	117AJ105A106B4B	7STRP	0.0,0.0,0,0,0,0,	Slew =,1.01	2R5	4	1	3,836,119:00:0
600	97	50	23:00:53.333	117AJ105A106C4A	7STRP	0.004,0.0,0,0,0,	Slew =12.01	2R5	4	1	3,836,120:45:0
601	97	50	23:01:24.000	117AJ105A106C4B	7STRP	0.0,0.0,0,0,0,0,	Slew =,1.01	2R5	4	1	3,836,121:00:0
602	97	50	23:02:54.666	117AJ105A106C4C	7STRP	0.004,0.0,0,0,0,	Slew =12.01	2R5	4	1	3,836,122:45:0
603	97	50	23:03:25.333	117AJ105A106C4D	7STRP	0.0,0.0,0,0,0,0,	Slew =,1.01	2R5	4	1	3,836,123:00:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
604	97	50	23:04:56.000	117AJ105A106C4E	7STRP	0.004,0.0,0,0,0,	Slew =12.01	2R5	4	1	3,836,124:45:0	
605	97	50	23:05:26.666	117AJ105A106C4F	7STRP	0.0,0.0,0,0,0,0,	Slew =,1.01	2R5	4	1	3,836,125:00:0	
606	97	50	23:06:57.333	117AJ11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,836,126:45:0	
607	97	50	23:07:26.666	165II4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,836,126:89:0	
608	97	50	23:07:27.333	165II4B	7SCAN	NORM,242.035999,	Check S/P Position	2R5	4	1	3,836,126:90:0	
609	97	50	23:08:20.666	118II	**SMOS**	GS		2R5	4	1	3,836,127:79:0	
610	97	50	23:08:27.333	165II4C	7VECT		Inert vect update UTC	2R5	4	1	3,836,127:89:0	
611	97	50	23:08:28.000	165II4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	2R5	4	1	3,836,127:90:0	
612	97	50	23:08:30.666	118II110A111A4A	7STRP	-0.0005,0.0,26,0	Slew =,1.01	2R5	4	1	3,836,128:03:0	
613	97	50	23:08:44.666	175IH422A6A	6DMSC	R806,1	DMS Control	2R5	4	1	3,836,128:24:0	
614	97	50	23:08:56.000	175IH176A6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	2R5	4	1	3,836,128:41:0	
615	97	50	23:08:56.600		DMS:	**: *RECORD**	R806, TRACK 1, FWD, TIC *5814.03 +/- 1	2R5	4	1	3,836,128:41:9	
616	97	50	23:08:56.666	118II11A	**SMOS**	GE		2R5	4	1	3,836,128:42:0	
617	97	50	23:08:58.666		DMS:	**: *RUNDOWN**	R806, TRACK 1, FWD, TIC *5864.89 +/- 1	2R5	4	1	3,836,128:45:0	
618	97	50	23:08:58.666	175IH422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,836,128:45:0	
619	97	50	23:10:28.666	165AK4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,836,129:89:0	
620	97	50	23:10:29.333	165AK4B	7SCAN	NORM,252.139,-25	Check S/P Position	2R5	4	1	3,836,129:90:0	
621	97	50	23:14:26.000	465KA6A	6DTRN	CMD,6DTRN,465KA6	DMS TRACK TURNAROUND	2R5	4	1	3,836,133:81:0	
622	**97**	**50**	**23:25:43.934**	**E6JNFEA04803-**		**-----START------**		**2R5**	**4**	**1**	**: :**	
623	97	50	23:26:08.666	165AL4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,836,145:43:0	
624	97	50	23:26:09.333	165AL4B	7SCAN	NORM,252.547998,	Check S/P Position	2R5	4	1	3,836,145:44:0	
625	**97**	**50**	**23:33:49.267**	**E6JNPFTA4802-**		**-----START------**		**2R5**	**4**	**1**	**: :**	
626	**97**	**50**	**23:33:49.267**	**E6JNFEA04803-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**	
627	97	50	23:38:44.000	127DL	NIMSTAB	GS	%%%%% GROUP START TAB	2R5	4	1	3,836,157:84:0	
628	**97**	**50**	**23:38:44.000**	**127DL4A**	**37IOP**	**5,1**	**Short Map, Grating Start Position =01**	**2R5**	**4**	**1**	**3,836,157:84:0**	
629	**97**	**50**	**23:38:44.666**	**127DL4B**	**37ETB**	**,CD,02,00,00,05,**	**Loads wavelength edit table**	**2R5**	**4**	**1**	**3,836,157:85:0**	
630	97	50	23:38:45.333		DMS:	: *US-RUNUP	R7, TRACK 2, REV, TIC 6025.38 +/-	2R5	4	1	3,836,157:86:0	
631	97	50	23:38:45.333	175DL422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,836,157:86:0	
632	97	50	23:38:47.333	165DL4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,836,157:89:0	
633	97	50	23:38:48.000	165DL4B	7SCAN	NORM,251.258999,	Check S/P Position	2R5	4	1	3,836,157:90:0	
634	97	50	23:38:52.666	127DL11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R5	4	1	3,836,158:06:0	
635	97	50	23:38:54.600		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *6026.67 +/-	2R5	4	1	3,836,158:08:9	
636	97	50	23:38:54.666	175DL176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	3,836,158:09:0	
637	97	50	23:39:40.000	117DL	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,836,158:77:0	
638	97	50	23:39:49.333	117DL105A106A4A	**7STRP**	**-0.0109,0.0,0,0,**	**Slew =,0.11**	2R5	4	1	3,836,159:00:0	
639	**97**	**50**	**23:39:49.482**	**E6JNFEA04803-**	**NIMPBK**	**301DJ**	**JUPITER FEATURE TRACK 48 DEG PHA**	**2R5**	**4**	**1**	**: :**	
640	97	50	23:41:29.333	117DL11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,836,160:59:0	
641	**97**	**50**	**23:41:29.482**	**E6JNFEA04803-**	**DESELC**	**300DJ**	**JUPITER FEATURE TRACK 48 DEG PHA**	**2R5**	**4**	**1**	**: :**	
642	97	50	23:41:50.666		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *5985.41 +/-	2R5	4	1	3,836,161:00:0	
643	97	50	23:41:50.666	175DL422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,836,161:00:0	
644	97	50	23:41:50.666	175DL6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,836,161:00:0	
645	**97**	**50**	**23:41:54.600**	**E6JNPFTB4802-**		**-----START------**		**2R5**	**4**	**1**	**: :**	
646	**97**	**50**	**23:41:54.600**	**E6JNPFTA4802-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**	
647	**97**	**50**	**23:44:48.000**	**127DM4A**	**37IOP**	**5,1**	**Short Map, Grating Start Position =01**	**2R5**	**4**	**1**	**3,836,163:84:0**	
648	97	50	23:44:48.000	127DM	NIMSTAB	GS	%%%%% GROUP START TAB	2R5	4	1	3,836,163:84:0	
649	**97**	**50**	**23:44:48.666**	**127DM4B**	**37ETB**		**Loads wavelength edit table**	**2R5**	**4**	**1**	**3,836,163:85:0**	
650	97	50	23:44:56.666	127DM11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R5	4	1	3,836,164:06:0	
651	97	50	23:45:52.000	165DM4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,836,164:89:0	
652	97	50	23:45:52.666	165DM4B	7SCAN	NORM,252.136,-25	Check S/P Position	2R5	4	1	3,836,164:90:0	
653	97	50	23:46:41.333		DMS:	: *US-RUNUP	R7, TRACK 2, REV, TIC 5985.35 +/-	2R5	4	1	3,836,165:72:0	
654	97	50	23:46:41.333	175DM422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,836,165:72:0	
655	97	50	23:46:44.666	117DM	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,836,165:77:0	
656	97	50	23:46:50.600		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *5986.64 +/-	2R5	4	1	3,836,165:85:9	
657	97	50	23:46:50.666	175DM176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	3,836,165:86:0	
658	97	50	23:46:54.000	117DM105A106A4A	**7STRP**	**-0.021603,0.0,0,**	**Slew =,0.11**	2R5	4	1	3,836,166:00:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
659	97	50	23:50:20.666	117DM105A106B4A	**7STRP**	**0.011,-0.008,0,0**	**Slew =12.01**	2R5	4	1	3,836,169:37:0	
660	97	50	23:50:34.000	117DM105A106B4B	**7STRP**	**-0.0109,0.0,0,0,**	**Slew =,0.11**	2R5	4	1	3,836,169:57:0	
661	97	50	23:52:14.000	117DM11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,836,171:25:0	
662	97	50	23:52:56.666	165DN4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,836,171:89:0	
663	97	50	23:52:57.333	165DN4B	7SCAN	NORM,252.134998,	Check S/P Position	2R5	4	1	3,836,171:90:0	
664	**97**	**50**	**23:53:01.934**	**E6JNPFTB4802-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**	
665	97	50	23:53:49.333	117DN	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,836,172:77:0	
666	97	50	23:53:58.666	117DN105A106A4A	**7STRP**	**-0.021904,0.0,0,**	**Slew =,0.11**	2R5	4	1	3,836,173:00:0	
667	**97**	**50**	**23:53:58.814**	**E6JNPFTB4802-**	**NIMPBK**	**301DL**	**JUPITER FEATURE TRACK B 48 DEG P**	**2R5**	**4**	**1**	**: :**	
668	97	50	23:57:18.666	117DN105A106A4B	**7STRP**	**0.021904,-0.008,**	**Slew =12.01**	2R5	4	1	3,836,176:27:0	
669	97	50	23:57:32.000	117DN105A106A4C	**7STRP**	**-0.021904,0.0,0,**	**Slew =,0.11**	2R5	4	1	3,836,176:47:0	
670	97	51	00:00:52.000	117DN11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,836,179:74:0	
671	**97**	**51**	**00:00:52.148**	**E6JNPFTB4802-**	**DESELC**	**300DL**	**JUPITER FEATURE TRACK B 48 DEG P**	**2R5**	**4**	**1**	**: :**	
672	97	51	00:01:02.000	165AM4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,836,179:89:0	
673	97	51	00:01:02.666	165AM4B	7SCAN	NORM,252.172998,	Check S/P Position	2R5	4	1	3,836,179:90:0	
674	97	51	00:01:13.333	175DM422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,836,180:15:0	
675	97	51	00:01:13.333		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *5784.44 +/-	2R5	4	1	3,836,180:15:0	
676	97	51	00:01:13.333	175DM6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,836,180:15:0	
677	97	51	00:06:05.333	165JG4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,836,184:89:0	
678	97	51	00:06:06.000	165JG4B	7SCAN	NORM,252.193998,	Check S/P Position	2R5	4	1	3,836,184:90:0	
679	97	51	00:06:56.000		DMS:	: *US-RUNUP	R115, TRACK 2, REV, TIC 5784.38 +/-	2R5	4	1	3,836,185:74:0	
680	97	51	00:06:56.000	175II422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2R5	4	1	3,836,185:74:0	
681	97	51	00:06:59.333	118JG	**SMOS**	GS		2R5	4	1	3,836,185:79:0	
682	97	51	00:07:07.866		DMS:	**: *RECORD**	R115, TRACK 2, REV, TIC *5779.49 +/-	2R5	4	1	3,836,186:00:8	
683	97	51	00:07:08.000	175II176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R5	4	1	3,836,186:01:0	
684	97	51	00:07:09.333	118JG110A111A4A	7STRP	-0.007,0.0,46,0,	Slew =,3.01	2R5	4	1	3,836,186:03:0	
685	97	51	00:07:55.333	118JG110A111B4A	7STRP	0.0,-0.007,0,0,0	Slew =0,5.0	2R5	4	1	3,836,186:72:0	
686	97	51	00:08:10.666	118JG110A111B4B	7STRP	-0.007,0.0,46,0,	Slew =,3.01	2R5	4	1	3,836,187:04:0	
687	97	51	00:08:56.666	118JG110A111A4B	7STRP	0.0,0.007,0,0,0,	Slew =0,5.0	2R5	4	1	3,836,187:73:0	
688	97	51	00:09:12.000	118JG110A111A4C	7STRP	-0.007,0.0,46,0,	Slew =,3.01	2R5	4	1	3,836,188:05:0	
689	97	51	00:09:58.000	118JG110A111B4C	7STRP	0.0,-0.007,0,0,0	Slew =0,5.0	2R5	4	1	3,836,188:74:0	
690	97	51	00:10:13.333	118JG110A111B4D	7STRP	-0.007,0.0,46,0,	Slew =,3.01	2R5	4	1	3,836,189:06:0	
691	97	51	00:10:59.333	118JG11A	**SMOS**	GE		2R5	4	1	3,836,189:75:0	
692	97	51	00:11:03.333	116JG4A	7STRP	0.0,0.007,0,0,0,	Slew =0,5.0	2R5	4	1	3,836,189:81:0	
693	97	51	00:11:10.000	176IF6A	6TMREC	HIM	115.2 KBPS SSI + NIMS RECORD Record Mode	2R5	4	1	3,836,190:00:0	
694	97	51	00:11:14.000	118JH	**SMOS**	GS		2R5	4	1	3,836,190:06:0	
695	97	51	00:11:57.333	118JH110A111A4A	7STRP	-0.007,0.0,46,0,	Slew =,3.51	2R5	4	1	3,836,190:71:0	
696	97	51	00:12:10.666	176IG6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R5	4	1	3,836,191:00:0	
697	97	51	00:12:43.333	118JH110A111B4A	7STRP	0.0,-0.007,0,0,0	Slew =0,5.0	2R5	4	1	3,836,191:49:0	
698	97	51	00:12:58.666	118JH110A111B4B	7STRP	-0.007,0.0,46,0,	Slew =,3.51	2R5	4	1	3,836,191:72:0	
699	97	51	00:13:44.666	118JH110A111A4B	7STRP	0.0,0.007,0,0,0,	Slew =0,5.0	2R5	4	1	3,836,192:50:0	
700	97	51	00:14:00.000	118JH110A111A4C	7STRP	-0.007,0.0,46,0,	Slew =,3.51	2R5	4	1	3,836,192:73:0	
701	97	51	00:14:46.000	118JH110A111B4C	7STRP	0.0,-0.007,0,0,0	Slew =0,5.0	2R5	4	1	3,836,193:51:0	
702	97	51	00:15:01.333	118JH110A111B4D	7STRP	-0.007,0.0,46,0,	Slew =,3.51	2R5	4	1	3,836,193:74:0	
703	97	51	00:15:44.000		DMS:	**: *RUNDOWN**	R115, TRACK 2, REV, TIC *3964.96 +/-	2R5	4	1	3,836,194:47:0	
704	97	51	00:15:44.000	175II422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,836,194:47:0	
705	97	51	00:15:47.333	118JH11A	**SMOS**	GE		2R5	4	1	3,836,194:52:0	
706	97	51	00:16:12.000	165AN4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,836,194:89:0	
707	97	51	00:16:12.666	165AN4B	7SCAN	NORM,251.716,-25	Check S/P Position	2R5	4	1	3,836,194:90:0	
708	97	51	00:17:04.666	117AN	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,836,195:77:0	
709	97	51	00:17:14.000	117AN105A106A4A	7STRP	0.0,0.0,0,0,0,0,	Slew =,1.01	2R5	4	1	3,836,196:00:0	
710	97	51	00:18:44.666	117AN105A106A4B	7STRP	0.004,0.0,0,0,0,	Slew =12.01	2R5	4	1	3,836,197:45:0	
711	97	51	00:19:15.333	117AN105A106A4C	7STRP	0.0,0.0,0,0,0,0,	Slew =,1.01	2R5	4	1	3,836,198:00:0	
712	97	51	00:20:46.000	117AN105A106A4D	7STRP	0.004,0.0,0,0,0,	Slew =12.01	2R5	4	1	3,836,199:45:0	
713	97	51	00:21:16.666	117AN105A106A4E	7STRP	0.0,0.0,0,0,0,0,	Slew =,1.01	2R5	4	1	3,836,200:00:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
714	97	51	00:22:47.333	117AN105A106B4A	7STRP	-0.007,-0.007,0,	Slew =12.01	2R5	4	1	3,836,201:45:0
715	97	51	00:23:18.000	117AN105A106B4B	7STRP	0.0,0.0,0,0,0,0,	Slew =,1.01	2R5	4	1	3,836,202:00:0
716	97	51	00:24:48.666	117AN105A106C4A	7STRP	0.004,0.0,0,0,0,	Slew =12.01	2R5	4	1	3,836,203:45:0
717	97	51	00:25:19.333	117AN105A106C4B	7STRP	0.0,0.0,0,0,0,0,	Slew =,1.01	2R5	4	1	3,836,204:00:0
718	97	51	00:26:50.000	117AN105A106C4C	7STRP	0.004,0.0,0,0,0,	Slew =12.01	2R5	4	1	3,836,205:45:0
719	97	51	00:27:20.666	117AN105A106C4D	7STRP	0.0,0.0,0,0,0,0,	Slew =,1.01	2R5	4	1	3,836,206:00:0
720	97	51	00:28:51.333	117AN11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,836,207:45:0
721	97	51	00:29:20.666	165CH4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,836,207:89:0
722	97	51	00:29:21.333	165CH4B	7SCAN	NORM,285.487999,	Check S/P Position	2R5	4	1	3,836,207:90:0
723	97	51	00:33:23.333	165CH4C	7VECT		Inert vect update UTC	2R5	4	1	3,836,211:89:0
724	97	51	00:33:24.000	165CH4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	2R5	4	1	3,836,211:90:0
725	97	51	00:37:13.333	165CH4E	7VECT		Inert vect update UTC	2R5	4	1	3,836,215:70:0
726	97	51	00:41:03.333	165CH4F	7VECT		Inert vect update UTC	2R5	4	1	3,836,219:51:0
727	97	51	00:44:53.333	165CH4G	7VECT		Inert vect update UTC	2R5	4	1	3,836,223:32:0
728	97	51	00:48:43.333	165CH4H	7VECT		Inert vect update UTC	2R5	4	1	3,836,227:13:0
729	97	51	00:52:36.000	165CI4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,836,230:89:0
730	97	51	00:52:36.666	165CI4B	7SCAN	NORM,281.190998,	Check S/P Position	2R5	4	1	3,836,230:90:0
731	97	51	00:55:38.000	165CI4C	7VECT		Inert vect update UTC	2R5	4	1	3,836,233:89:0
732	97	51	00:55:38.666	165CI4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	2R5	4	1	3,836,233:90:0
733	97	51	01:14:50.666	165CJ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,836,252:89:0
734	97	51	01:14:51.333	165CJ4B	7SCAN	NORM,279.910999,	Check S/P Position	2R5	4	1	3,836,252:90:0
735	97	51	01:15:51.333	165CJ4C	7VECT		Inert vect update UTC	2R5	4	1	3,836,253:89:0
736	97	51	01:15:52.000	165CJ4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	2R5	4	1	3,836,253:90:0
737	97	51	01:35:04.000	165CK4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,836,272:89:0
738	97	51	01:35:04.666	165CK4B	7SCAN	NORM,279.723,-24	Check S/P Position	2R5	4	1	3,836,272:90:0
739	97	51	01:36:04.666	165CK4C	7VECT		Inert vect update UTC	2R5	4	1	3,836,273:89:0
740	97	51	01:36:05.333	165CK4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	2R5	4	1	3,836,273:90:0
741	**97**	**51**	**01:51:19.934**	**E6JNRTHOTS01-**		**-----START------**		**2R5**	**4**	**1**	**: :**
742	97	51	01:55:17.333	165CL4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,836,292:89:0
743	97	51	01:55:18.000	165CL4B	7SCAN	NORM,279.488998,	Check S/P Position	2R5	4	1	3,836,292:90:0
744	97	51	01:56:18.000	165CL4C	7VECT		Inert vect update UTC	2R5	4	1	3,836,293:89:0
745	97	51	01:56:18.666	165CL4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	2R5	4	1	3,836,293:90:0
746	**97**	**51**	**01:56:23.267**	**E6JNRTHOTS01-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**
747	97	51	02:00:00.000	488AO6A	6TMSED	NORM,CL6	Sci, Eng, and D/L Chan	2R5	4	1	3,836,297:58:0
748	97	51	02:15:30.666	165CM4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,836,312:89:0
749	97	51	02:15:31.333	165CM4B	7SCAN	NORM,279.203999,	Check S/P Position	2R5	4	1	3,836,312:90:0
750	97	51	02:16:31.333	165CM4C	7VECT		Inert vect update UTC	2R5	4	1	3,836,313:89:0
751	97	51	02:16:32.000	165CM4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	2R5	4	1	3,836,313:90:0
752	97	51	02:35:44.000	165CN4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,836,332:89:0
753	97	51	02:35:44.666	165CN4B	7SCAN	NORM,278.867996,	Check S/P Position	2R5	4	1	3,836,332:90:0
754	97	51	02:36:44.666	165CN4C	7VECT		Inert vect update UTC	2R5	4	1	3,836,333:89:0
755	97	51	02:36:45.333	165CN4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	2R5	4	1	3,836,333:90:0
756	97	51	03:09:42.666	488AO6B	6TMSED	NORM,CL5	Sci, Eng, and D/L Chan	2R5	4	1	3,836,366:53:0
757	97	51	03:25:16.666	165FJ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,836,381:89:0
758	97	51	03:25:17.333	165FJ4B	7SCAN	NORM,259.355999,	Check S/P Position	2R5	4	1	3,836,381:90:0
759	97	51	03:26:14.000	125FQ	NIMSINIT	GS	##### GROUP START INIT	2R5	4	1	3,836,382:84:0
760	**97**	**51**	**03:26:14.000**	**125FQ4A**	**37MB**	**1B,1B,0,0,0,0**	**Selects mirror (spatial) edit table**	**2R5**	**4**	**1**	**3,836,382:84:0**
761	97	51	03:26:14.000	125FQ11A	NIMSINIT	GE	##### GROUP END INIT	2R5	4	1	3,836,382:84:0
762	97	51	03:27:14.666	127FQ	NIMSTAB	GS	%%%%% GROUP START TAB	2R5	4	1	3,836,383:84:0
763	**97**	**51**	**03:27:14.666**	**127FQ4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**3,836,383:84:0**
764	**97**	**51**	**03:27:15.333**	**127FQ4B**	**37ETB**	**04,C4,35,FF,FF**	**Loads wavelength edit table**	**2R3**	**4**	**0**	**3,836,383:85:0**
765	97	51	03:27:23.333	127FQ11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	3,836,384:06:0
766	**97**	**51**	**03:27:39.333**	**432DE6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**	**NIMS R/T SELECT**	**2R3**	**4**	**0**	**3,836,384:30:0**
767	97	51	03:28:10.666	117FJ	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	3,836,384:77:0
768	97	51	03:28:20.000	117FJ105A106A4A	7STRP	-0.00179,0.0,0,0	Slew =,0.03	2R3	4	0	3,836,385:00:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
769	**97**	**51**	**03:28:38.666**	**432DF6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**2R3**	**4**	**0**	**3,836,385:28:0**
770	97	51	03:29:20.666	117FJ11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	3,836,386:00:0
771	**97**	**51**	**03:30:16.666**	**125FR4A**	**37MB**	**0,0,0,0,0,0**	**Selects mirror (spatial) edit table**	**2R3**	**4**	**0**	**3,836,386:84:0**
772	97	51	03:30:16.666	125FR11A	NIMSINIT	GE	##### GROUP END INIT	2R3	4	0	3,836,386:84:0
773	97	51	03:30:16.666	125FR	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	3,836,386:84:0
774	**97**	**51**	**03:48:37.333**	**E6NIMSP2LD08-**		**-----START------**		**2R3**	**4**	**0**	**: :**
775	**97**	**51**	**03:49:38.000**	**20EC6A**	**6CKSUM**	**NIMS**	**NIMS,1000,14BC**	**2R3**	**4**	**0**	**3,836,406:06:0**
776	**97**	**51**	**03:50:38.666**	**20EC5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**2R3**	**4**	**0**	**3,836,407:06:0**
777	**97**	**51**	**03:51:39.333**	**20EC5B**	**37MRL**		**Memory Realocate (software operates from R**	**2R3**	**4**	**0**	**3,836,408:06:0**
778	**97**	**51**	**03:52:40.000**	**20EC6B**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**2R3**	**4**	**0**	**3,836,409:06:0**
779	**97**	**51**	**03:53:40.666**	**20EC6C**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**2R3**	**4**	**0**	**3,836,410:06:0**
780	**97**	**51**	**03:54:41.333**	**20EC5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**3,836,411:06:0**
781	**97**	**51**	**03:55:42.000**	**20EC5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**3,836,412:06:0**
782	**97**	**51**	**03:56:42.666**	**20EC4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**3,836,413:06:0**
783	**97**	**51**	**03:57:43.333**	**20EC4B**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**3,836,414:06:0**
784	97	51	03:58:38.666	165DO4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,836,414:89:0
785	97	51	03:58:39.333	165DO4B	7SCAN	NORM,280.618999,	Check S/P Position	2R3	4	0	3,836,414:90:0
786	**97**	**51**	**03:58:44.000**	**E6NIMSP2LD08-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**
787	**97**	**51**	**03:58:44.000**	**E6INCHEMIS02-**		**-----START------**		**2R3**	**4**	**0**	**: :**
788	**97**	**51**	**04:01:37.333**	**127DO4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**3,836,417:84:0**
789	97	51	04:01:37.333	127DO	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	3,836,417:84:0
790	**97**	**51**	**04:01:38.000**	**127DO4B**	**37ETB**	**04,C4,35,FF,FF**	**Loads wavelength edit table**	**2R3**	**4**	**0**	**3,836,417:85:0**
791	97	51	04:01:46.000	127DO11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	3,836,418:06:0
792	97	51	04:02:27.333		DMS:	: *US-RUNUP	R28, TRACK 2, REV, TIC 3963.96 +/-	2R3	4	0	3,836,418:68:0
793	97	51	04:02:27.333	175DO422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	2R3	4	0	3,836,418:68:0
794	97	51	04:02:33.333	117DO	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	3,836,418:77:0
795	97	51	04:02:39.200		DMS:	**: *RECORD**	R28, TRACK 2, REV, TIC *3963.87 +/-	2R3	4	0	3,836,418:85:8
796	97	51	04:02:39.333	175DO176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	2R3	4	0	3,836,418:86:0
797	97	51	04:02:42.666	117DO105A106A4A	**7STRP**	**-0.00805,0.0,0,0**	**Slew =,0.03**	2R3	4	0	3,836,419:00:0
798	**97**	**51**	**04:02:42.805**	**E6INCHEMIS02-**	**NIMPBK**	**301DM**	**MONITORING OF IO'S DAYSIDE**	**2R3**	**4**	**0**	**: :**
799	**97**	**51**	**04:04:34.139**	**E6INCHEMIS02-**	**NIMPBK**	**301DG**	**MONITORING OF IO'S DAYSIDE**	**2R3**	**4**	**0**	**: :**
800	**97**	**51**	**04:04:42.805**	**E6INCHEMIS02-**	**DESELC**	**300DM**	**MONITORING OF IO'S DAYSIDE**	**2R3**	**4**	**0**	**: :**
801	**97**	**51**	**04:06:12.139**	**E6INCHEMIS02-**	**DESELC**	**300DG**	**MONITORING OF IO'S DAYSIDE**	**2R3**	**4**	**0**	**: :**
802	97	51	04:06:16.666		DMS:	**: *RUNDOWN**	R28, TRACK 2, REV, TIC *3772.74 +/-	2R3	4	0	3,836,422:48:0
803	97	51	04:06:16.666	175DO422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,836,422:48:0
804	97	51	04:07:14.000	117DO11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	3,836,423:43:0
805	**97**	**51**	**04:07:50.000**	**E6INCHEMIS02-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**
806	97	51	04:09:26.666	488AO6C	6TMSED	NORM,CL4	Sci, Eng, and D/L Chan	2R3	4	0	3,836,425:60:0
807	97	51	05:09:10.666	488AO6D	6TMSED	NORM,CL3	Sci, Eng, and D/L Chan	2R3	4	0	3,836,484:67:0
808	97	51	05:18:31.333	165DP4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,836,493:89:0
809	97	51	05:18:32.000	165DP4B	7SCAN	NORM,234.0,-11.5	Check S/P Position	2R3	4	0	3,836,493:90:0
810	**97**	**51**	**05:18:36.667**	**E6NNHNDARK02-**		**-----START------**		**2R3**	**4**	**0**	**: :**
811	**97**	**51**	**05:21:30.000**	**127DP4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**3,836,496:84:0**
812	97	51	05:21:30.000	127DP	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	3,836,496:84:0
813	**97**	**51**	**05:21:30.666**	**127DP4B**	**37ETB**	**07,C7,05,FF,FF,3**	**Loads wavelength edit table**	**2R3**	**4**	**0**	**3,836,496:85:0**
814	97	51	05:21:38.666	127DP11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	3,836,497:06:0
815	97	51	05:22:22.666		DMS:	: *US-RUNUP	R7, TRACK 2, REV, TIC 3772.44 +/-	2R3	4	0	3,836,497:72:0
816	97	51	05:22:22.666	175DP422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	3,836,497:72:0
817	97	51	05:22:31.933		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *3773.74 +/-	2R3	4	0	3,836,497:85:9
818	97	51	05:22:32.000	175DP176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R3	4	0	3,836,497:86:0
819	**97**	**51**	**05:22:35.469**	**E6NNHNDARK02-**	**NIMPBK**	**301DN**	**DARK OBSERVATION**	**2R3**	**4**	**0**	**: :**
820	**97**	**51**	**05:23:36.136**	**E6NNHNDARK02-**	**DESELC**	**300DN**	**DARK OBSERVATION**	**2R3**	**4**	**0**	**: :**
821	97	51	05:23:38.000	175DP6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	3,836,499:03:0
822	97	51	05:23:38.000	175DP422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,836,499:03:0
823	97	51	05:23:38.000		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *3758.25 +/-	2R3	4	0	3,836,499:03:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
824	**97**	**51**	**05:24:40.667**	**E6NNHNDARK02-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**	
825	97	51	05:37:16.000	488AO6E	6TMSED	FILL,CL3	Sci, Eng, and D/L Chan	2R3	4	0	3,836,512:47:0	
826	97	51	05:43:18.666	488AP6A	6TMSED	FILL,CL1	Sci, Eng, and D/L Chan	2R3	4	0	3,836,518:45:0	
827	97	51	06:12:06.666	165IK4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,836,546:89:0	
828	97	51	06:12:07.333	165IK4B	7SCAN	NORM,278.799999,	Check S/P Position	2R3	4	0	3,836,546:90:0	
829	97	51	06:15:58.000	175IJ422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	2R3	4	0	3,836,550:72:0	
830	97	51	06:15:58.000		DMS:	: *US-RUNUP	R806, TRACK 2, REV, TIC 3758.19 +/-	2R3	4	0	3,836,550:72:0	
831	97	51	06:16:10.666	175IJ176A6A	6TMREC	AI8	806.4 KBPS SSI RECORD Record Mode Change	2R3	4	0	3,836,551:00:0	
832	97	51	06:16:11.133		DMS:	**: *RECORD**	R806, TRACK 2, REV, TIC *3693.61 +/-	2R3	4	0	3,836,551:00:7	
833	97	51	06:16:20.000		DMS:	**: *RUNDOWN**	R806, TRACK 2, REV, TIC *3475.40 +/-	2R3	4	0	3,836,551:14:0	
834	97	51	06:16:20.000	175IJ422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,836,551:14:0	
835	97	51	06:19:34.666	488AP6B	6TMSED	FILL,CL2	Sci, Eng, and D/L Chan	2R3	4	0	3,836,554:33:0	
836	97	51	06:32:20.000	165GD4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,836,566:89:0	
837	97	51	06:32:20.666	165GD4B	7SCAN	NORM,272.077999,	Check S/P Position	2R3	4	0	3,836,566:90:0	
838	97	51	06:36:14.666	117GD	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	3,836,570:77:0	
839	97	51	06:36:24.000	117GD105A106A4A	7STRP	-0.007,0.060206,	Slew =,0.14	2R3	4	0	3,836,571:00:0	
840	97	51	06:36:24.000	176GD6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R3	4	0	3,836,571:00:0	
841	97	51	06:48:25.333	117GD105A106B4A	7STRP	0.0,-0.0005,0,0,	Slew =12.01	2R3	4	0	3,836,582:81:0	
842	97	51	06:48:36.000	117GD105A106B4B	7STRP	0.008,0.048103,0	Slew =,0.14	2R3	4	0	3,836,583:06:0	
843	97	51	06:48:59.333		DMS:	: *US-RUNUP	R7, TRACK 2, REV, TIC 3463.90 +/-	2R3	4	0	3,836,583:41:0	
844	97	51	06:49:24.000		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *3461.59 +/-	2R3	4	0	3,836,583:78:0	
845	97	51	06:49:44.000		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *3456.90 +/-	2R3	4	0	3,836,584:17:0	
846	97	51	06:58:22.000	117GD105A106C4A	7STRP	0.0,-0.0005,0,0,	Slew =12.01	2R3	4	0	3,836,592:66:0	
847	97	51	06:58:32.666	117GD105A106C4B	7STRP	0.029008,0.04508	Slew =,0.14	2R3	4	0	3,836,592:82:0	
848	97	51	07:02:01.333		DMS:	: *US-RUNUP	R7, TRACK 2, REV, TIC 3456.84 +/-	2R3	4	0	3,836,596:31:0	
849	97	51	07:02:26.000		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *3454.53 +/-	2R3	4	0	3,836,596:68:0	
850	97	51	07:02:46.000		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *3449.84 +/-	2R3	4	0	3,836,597:07:0	
851	97	51	07:08:46.000	176GD6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	3,836,603:01:0	
852	97	51	07:08:46.000	117GD11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	3,836,603:01:0	
853	97	51	07:08:48.000		DMS:	: *US-RUNUP	R7, TRACK 2, REV, TIC 3449.78 +/-	2R3	4	0	3,836,603:04:0	
854	97	51	07:08:58.000		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *3450.90 +/-	2R3	4	0	3,836,603:19:0	
855	97	51	07:09:10.666		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *3447.93 +/-	2R3	4	0	3,836,603:38:0	
856	97	51	07:20:48.666	488AP6C	6TMSED	NORM,CL2	Sci, Eng, and D/L Chan	2R3	4	0	3,836,614:84:0	
857	97	51	07:43:06.666	165DQ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,836,636:89:0	
858	97	51	07:43:07.333	165DQ4B	7SCAN	NORM,280.988998,	Check S/P Position	2R3	4	0	3,836,636:90:0	
859	**97**	**51**	**07:43:11.934**	**E6JNFEA02001-**		**-----START------**		**2R3**	**4**	**0**	**: :**	
860	97	51	07:46:05.333	127DQ	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	3,836,639:84:0	
861	**97**	**51**	**07:46:05.333**	**127DQ4A**	**37IOP**	**5,1**	**Short Map, Grating Start Position =01**	**2R5**	**4**	**1**	**3,836,639:84:0**	
862	**97**	**51**	**07:46:06.000**	**127DQ4B**	**37ETB**		**Loads wavelength edit table**	**2R5**	**4**	**1**	**3,836,639:85:0**	
863	97	51	07:46:14.000	127DQ11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R5	4	1	3,836,640:06:0	
864	97	51	07:46:58.000	175DQ422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,836,640:72:0	
865	97	51	07:46:58.000		DMS:	: *US-RUNUP	R7, TRACK 2, REV, TIC 3447.87 +/-	2R5	4	1	3,836,640:72:0	
866	97	51	07:47:01.333	117DQ	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,836,640:77:0	
867	97	51	07:47:07.266		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *3449.17 +/-	2R5	4	1	3,836,640:85:9	
868	97	51	07:47:07.333	175DQ176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	3,836,640:86:0	
869	97	51	07:47:10.666	117DQ105A106A4A	**7STRP**	**-0.022404,0.0,0,**	**Slew =,0.11**	2R5	4	1	3,836,641:00:0	
870	**97**	**51**	**07:47:10.797**	**E6JNFEA02001-**	**NIMPBK**	**301FG**	**JUPITER FEATURE TRACK 20 DEG PHA**	**2R5**	**4**	**1**	**: :**	
871	97	51	07:48:13.333	488AP6D	6TMSED	FILL,CL2	Sci, Eng, and D/L Chan	2R5	4	1	3,836,642:03:0	
872	97	51	07:50:36.666	117DQ105A106A4B	**7STRP**	**0.023504,-0.0080**	**Slew =12.01**	2R5	4	1	3,836,644:36:0	
873	**97**	**51**	**07:50:42.131**	**E6JNFEA02001-**	**NIMPBK**	**301DO**	**JUPITER FEATURE TRACK 20 DEG PHA**	**2R5**	**4**	**1**	**: :**	
874	**97**	**51**	**07:50:46.131**	**E6JNFEA02001-**	**DESELC**	**300FG**	**JUPITER FEATURE TRACK 20 DEG PHA**	**2R5**	**4**	**1**	**: :**	
875	97	51	07:50:48.666	117DQ105A106A4C	**7STRP**	**-0.022404,0.0,0,**	**Slew =,0.11**	2R5	4	1	3,836,644:54:0	
876	97	51	07:54:14.666	117DQ105A106A4D	**7STRP**	**0.023504,-0.0080**	**Slew =12.01**	2R5	4	1	3,836,647:90:0	
877	97	51	07:54:26.666	117DQ105A106A4E	**7STRP**	**-0.022404,0.0,0,**	**Slew =,0.11**	2R5	4	1	3,836,648:17:0	
878	97	51	07:57:52.666	117DQ105A106A4F	**7STRP**	**0.023504,-0.0080**	**Slew =12.01**	2R5	4	1	3,836,651:53:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
879	97	51	07:58:04.666	117DQ105A106A4G	**7STRP**	**-0.022404,0.0,0,**	**Slew =,0.11**	2R5	4	1	3,836,651:71:0
880	97	51	08:01:30.666	117DQ11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,836,655:16:0
881	**97**	**51**	**08:01:30.796**	**E6JNFEA02001-**	**DESELC**	**300DO**	**JUPITER FEATURE TRACK 20 DEG PHA**	**2R5**	**4**	**1**	**: :**
882	97	51	08:01:42.000		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *3244.15 +/-	2R5	4	1	3,836,655:33:0
883	97	51	08:01:42.000	175DQ422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,836,655:33:0
884	97	51	08:01:42.000	175DQ6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,836,655:33:0
885	**97**	**51**	**08:02:24.600**	**E6JNFEA02001-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**
886	97	51	08:13:26.666	165DR4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,836,666:89:0
887	97	51	08:13:27.333	165DR4B	7SCAN	NORM,281.301998,	Check S/P Position	2R5	4	1	3,836,666:90:0
888	**97**	**51**	**08:13:31.934**	**E6JNFEA02002-**		**-----START------**		**2R5**	**4**	**1**	**: :**
889	97	51	08:15:16.666		DMS:	: *US-RUNUP	R7, TRACK 2, REV, TIC 3244.09 +/-	2R5	4	1	3,836,668:72:0
890	97	51	08:15:16.666	175DR422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,836,668:72:0
891	97	51	08:15:20.000	117DR	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,836,668:77:0
892	97	51	08:15:25.933		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *3245.38 +/-	2R5	4	1	3,836,668:85:9
893	97	51	08:15:26.000	175DR176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	3,836,668:86:0
894	97	51	08:15:29.333	117DR105A106A4A	**7STRP**	**-0.0109,0.0,0,0,**	**Slew =,0.11**	2R5	4	1	3,836,669:00:0
895	**97**	**51**	**08:15:29.463**	**E6JNFEA02002-**	**NIMPBK**	**301DP**	**JUPITER FEATURE TRACK 20 DEG PHA**	**2R5**	**4**	**1**	**: :**
896	97	51	08:17:09.333	117DR11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,836,670:59:0
897	**97**	**51**	**08:17:09.463**	**E6JNFEA02002-**	**DESELC**	**300DP**	**JUPITER FEATURE TRACK 20 DEG PHA**	**2R5**	**4**	**1**	**: :**
898	97	51	08:17:20.666	175DR422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,836,670:76:0
899	97	51	08:17:20.666	175DR6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,836,670:76:0
900	97	51	08:17:20.666		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *3218.49 +/-	2R5	4	1	3,836,670:76:0
901	**97**	**51**	**08:17:34.600**	**E6JNFEA02002-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**
902	**97**	**51**	**08:18:26.666**	**125FX4A**	**37IST**	**0,2,0,OFF,0,1,0**	**Gain State 2**	**2R5**	**4**	**1**	**3,836,671:84:0**
903	97	51	08:18:26.666	125FX11A	NIMSINIT	GE	##### GROUP END INIT	2R5	4	1	3,836,671:84:0
904	97	51	08:18:26.666	125FX	NIMSINIT	GS	##### GROUP START INIT	2R5	4	1	3,836,671:84:0
905	**97**	**51**	**08:18:35.267**	**E6NNHEALTH02-**		**-----START------**		**2R5**	**4**	**1**	**: :**
906	**97**	**51**	**08:19:27.333**	**127FX4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**3,836,672:84:0**
907	97	51	08:19:27.333	127FX	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	3,836,672:84:0
908	**97**	**51**	**08:19:28.000**	**127FX4B**	**37ETB**	**07,C7,02,80,44,3**	**Loads wavelength edit table**	**2R3**	**4**	**0**	**3,836,672:85:0**
909	97	51	08:19:36.000	127FX11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	3,836,673:06:0
910	**97**	**51**	**08:19:52.000**	**432EC6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**	**NIMS R/T SELECT**	**2R3**	**4**	**0**	**3,836,673:30:0**
911	**97**	**51**	**08:20:51.333**	**432ED6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**2R3**	**4**	**0**	**3,836,674:28:0**
912	**97**	**51**	**08:23:38.600**	**E6NIMSP2LD02-**		**-----START------**		**2R3**	**4**	**0**	**: :**
913	**97**	**51**	**08:23:38.600**	**E6NNHEALTH02-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**
914	**97**	**51**	**08:24:39.333**	**20ED6A**	**6CKSUM**	**NIMS**	**NIMS,1000,14BC**	**2R3**	**4**	**0**	**3,836,678:06:0**
915	**97**	**51**	**08:25:40.000**	**20ED5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**2R3**	**4**	**0**	**3,836,679:06:0**
916	**97**	**51**	**08:26:40.666**	**20ED5B**	**37MRL**		**Memory Realocate (software operates from R**	**2R3**	**4**	**0**	**3,836,680:06:0**
917	**97**	**51**	**08:27:41.333**	**20ED6B**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**2R3**	**4**	**0**	**3,836,681:06:0**
918	**97**	**51**	**08:28:42.000**	**20ED6C**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**2R3**	**4**	**0**	**3,836,682:06:0**
919	**97**	**51**	**08:29:42.666**	**20ED5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**3,836,683:06:0**
920	**97**	**51**	**08:30:43.333**	**20ED5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**3,836,684:06:0**
921	**97**	**51**	**08:31:44.000**	**20ED4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**3,836,685:06:0**
922	97	51	08:32:39.333	165DS4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R0	4	0	3,836,685:89:0
923	97	51	08:32:40.000	165DS4B	7SCAN	NORM,283.528,-26	Check S/P Position	2R0	4	0	3,836,685:90:0
924	**97**	**51**	**08:32:44.600**	**E6JNFEA02003-**		**-----START------**		**2R0**	**4**	**0**	**: :**
925	**97**	**51**	**08:33:36.666**	**127DS4A**	**37IOP**	**5,1**	**Short Map, Grating Start Position =01**	**2R5**	**4**	**1**	**3,836,686:84:0**
926	97	51	08:33:36.666	127DS	NIMSTAB	GS	%%%%% GROUP START TAB	2R5	4	1	3,836,686:84:0
927	**97**	**51**	**08:33:37.333**	**127DS4B**	**37ETB**		**Loads wavelength edit table**	**2R5**	**4**	**1**	**3,836,686:85:0**
928	**97**	**51**	**08:33:45.267**	**E6NIMSP2LD02-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**
929	97	51	08:33:45.333	127DS11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R5	4	1	3,836,687:06:0
930	97	51	08:34:29.333		DMS:	: *US-RUNUP	R7, TRACK 2, REV, TIC 3218.43 +/-	2R5	4	1	3,836,687:72:0
931	97	51	08:34:29.333	175DS422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,836,687:72:0
932	97	51	08:34:32.666	117DS	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,836,687:77:0
933	97	51	08:34:38.600		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *3219.73 +/-	2R5	4	1	3,836,687:85:9

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
934	97	51	08:34:38.666	175DS176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	3,836,687:86:0
935	97	51	08:34:42.000	117DS105A106A4A	**7STRP**	**-0.044329,0.0,0,**	**Slew =,0.11**	2R5	4	1	3,836,688:00:0
936	**97**	**51**	**08:34:42.129**	**E6JNFEA02003-**	**NIMPBK**	**301DQ**	**JUPITER FEATURE TRACK 20 DEG PHA**	**2R5**	**4**	**1**	**: :**
937	**97**	**51**	**08:38:10.795**	**E6JNFEA02003-**	**NIMPBK**	**301FF**	**JUPITER FEATURE TRACK 20 DEG PHA**	**2R5**	**4**	**1**	**: :**
938	**97**	**51**	**08:38:14.129**	**E6JNFEA02003-**	**DESELC**	**300DQ**	**JUPITER FEATURE TRACK 20 DEG PHA**	**2R5**	**4**	**1**	**: :**
939	97	51	08:41:26.000	117DS105A106A4B	**7STRP**	**0.047335,-0.0080**	**Slew =12.01**	2R5	4	1	3,836,694:60:0
940	97	51	08:41:46.000	117DS105A106A4C	**7STRP**	**-0.044329,0.0,0,**	**Slew =,0.11**	2R5	4	1	3,836,694:90:0
941	97	51	08:45:30.000	488AP6E	6TMSED	NORM,CL2	Sci, Eng, and D/L Chan	2R5	4	1	3,836,698:62:0
942	97	51	08:48:30.000	117DS11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,836,701:59:0
943	**97**	**51**	**08:48:30.129**	**E6JNFEA02003-**	**DESELC**	**300FF**	**JUPITER FEATURE TRACK 20 DEG PHA**	**2R5**	**4**	**1**	**: :**
944	97	51	08:49:13.333		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *3014.71 +/-	2R5	4	1	3,836,702:33:0
945	97	51	08:49:13.333	175DS422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,836,702:33:0
946	97	51	08:49:13.333	175DS6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,836,702:33:0
947	**97**	**51**	**08:49:55.934**	**E6JNFEA02003-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**
948	**97**	**51**	**09:38:27.934**	**E6JNFEA02004-**		**-----START------**		**2R5**	**4**	**1**	**: :**
949	97	51	09:39:23.333	165DT4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,836,751:89:0
950	97	51	09:39:24.000	165DT4B	7SCAN	NORM,284.156998,	Check S/P Position	2R5	4	1	3,836,751:90:0
951	97	51	09:41:13.333	175DT422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,836,753:72:0
952	97	51	09:41:13.333		DMS:	: *US-RUNUP	R7, TRACK 2, REV, TIC 3014.65 +/-	2R5	4	1	3,836,753:72:0
953	97	51	09:41:16.666	117DT	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,836,753:77:0
954	97	51	09:41:22.600		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *3015.95 +/-	2R5	4	1	3,836,753:85:9
955	97	51	09:41:22.666	175DT176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	3,836,753:86:0
956	97	51	09:41:26.000	117DT105A106A4A	**7STRP**	**-0.0109,0.0,0,0,**	**Slew =,0.11**	2R5	4	1	3,836,754:00:0
957	97	51	09:43:06.000	117DT11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,836,755:59:0
958	97	51	09:43:17.333		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *2989.06 +/-	2R5	4	1	3,836,755:76:0
959	97	51	09:43:17.333	175DT422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,836,755:76:0
960	97	51	09:43:17.333	175DT6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,836,755:76:0
961	**97**	**51**	**09:47:33.934**	**E6JNFEA02004-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**
962	**97**	**51**	**09:48:26.000**	**127DU4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**3,836,760:84:0**
963	97	51	09:48:26.000	127DU	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	3,836,760:84:0
964	**97**	**51**	**09:48:26.666**	**127DU4B**	**37ETB**		**Loads wavelength edit table**	**2R3**	**4**	**0**	**3,836,760:85:0**
965	97	51	09:48:29.333	165DU4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,836,760:89:0
966	97	51	09:48:30.000	165DU4B	7SCAN	NORM,283.271,-26	Check S/P Position	2R3	4	0	3,836,760:90:0
967	**97**	**51**	**09:48:34.600**	**E6JNFEASUB01-**		**-----START------**		**2R3**	**4**	**0**	**: :**
968	97	51	09:48:34.666	127DU11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	3,836,761:06:0
969	97	51	09:49:18.666	175DU422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	3,836,761:72:0
970	97	51	09:49:18.666		DMS:	: *US-RUNUP	R7, TRACK 2, REV, TIC 2989.00 +/-	2R3	4	0	3,836,761:72:0
971	97	51	09:49:22.000	117DU	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	3,836,761:77:0
972	97	51	09:49:27.933		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *2990.29 +/-	2R3	4	0	3,836,761:85:9
973	97	51	09:49:28.000	175DU176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R3	4	0	3,836,761:86:0
974	97	51	09:49:31.333	117DU105A106A4A	**7STRP**	**-0.0108,0.0,0,0,**	**Slew =,0.03**	2R3	4	0	3,836,762:00:0
975	**97**	**51**	**09:49:31.459**	**E6JNFEASUB01-**	**NIMPBK**	**301DS**	**JUPITER CAMPAIGN FEATURE SUB-SPE**	**2R3**	**4**	**0**	**: :**
976	97	51	09:55:35.333	117DU11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	3,836,768:00:0
977	**97**	**51**	**09:55:35.459**	**E6JNFEASUB01-**	**DESELC**	**300DS**	**JUPITER CAMPAIGN FEATURE SUB-SPE**	**2R3**	**4**	**0**	**: :**
978	**97**	**51**	**09:55:39.267**	**E6JNFEASUB01-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**
979	97	51	09:55:46.666	175DU422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,836,768:17:0
980	97	51	09:55:46.666	175DU6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	3,836,768:17:0
981	97	51	09:55:46.666		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *2901.53 +/-	2R3	4	0	3,836,768:17:0
982	97	51	10:24:53.333	165GU4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,836,796:89:0
983	97	51	10:24:54.000	165GU4B	7SCAN	NORM,287.558998,	Check S/P Position	2R3	4	0	3,836,796:90:0
984	97	51	10:24:54.666	411JE6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	3,836,797:00:0
985	97	51	10:24:54.666		DMS:	: *US-RUNUP	R7, TRACK 2, REV, TIC 2901.47 +/-	2R3	4	0	3,836,797:00:0
986	97	51	10:25:03.933		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *2902.76 +/-	2R3	4	0	3,836,797:13:9
987	97	51	10:25:04.666	411JE6B	6TMREC	BDT	7.68 KBPS BUFFER DUMP TO TAPE Record Mode	2R3	4	0	3,836,797:15:0
988	97	51	10:27:06.000	411JE6C	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	3,836,799:15:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
989	97	51	10:27:08.666	175TF176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	2R3	4	0	3,836,799:19:0	
990	97	51	10:27:09.333	175TF422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	3,836,799:20:0	
991	97	51	10:27:16.000	175TF422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,836,799:30:0	
992	97	51	10:27:16.000		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *2871.81 +/-	2R3	4	0	3,836,799:30:0	
993	97	51	10:27:47.333	117GU	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	3,836,799:77:0	
994	97	51	10:27:56.666	176GU6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R3	4	0	3,836,800:00:0	
995	97	51	10:27:56.666	117GU105A106A4A	7STRP	0.0,-0.014006,0,	Slew =,1.51	2R3	4	0	3,836,800:00:0	
996	97	51	10:28:30.000	117GU105A106A4B	7STRP	0.0018,0.013806,	Slew =12.01	2R3	4	0	3,836,800:50:0	
997	97	51	10:28:42.000	117GU105A106A4C	7STRP	0.0,-0.014006,0,	Slew =,1.51	2R3	4	0	3,836,800:68:0	
998	97	51	10:29:15.333	117GU105A106A4D	7STRP	0.0018,0.013806,	Slew =12.01	2R3	4	0	3,836,801:27:0	
999	97	51	10:29:27.333	117GU105A106A4E	7STRP	0.0,-0.014006,0,	Slew =,1.51	2R3	4	0	3,836,801:45:0	
1000	97	51	10:30:00.666	117GU105A106A4F	7STRP	0.0018,0.013806,	Slew =12.01	2R3	4	0	3,836,802:04:0	
1001	97	51	10:30:12.666	117GU105A106A4G	7STRP	0.0,-0.014006,0,	Slew =,1.51	2R3	4	0	3,836,802:22:0	
1002	97	51	10:30:46.000	117GU105A106A4H	7STRP	0.0018,0.013806,	Slew =12.01	2R3	4	0	3,836,802:72:0	
1003	97	51	10:30:58.000	117GU105A106A4I	7STRP	0.0,-0.014006,0,	Slew =,1.51	2R3	4	0	3,836,802:90:0	
1004	97	51	10:31:31.333	117GU105A106A4J	7STRP	0.0018,0.013806,	Slew =12.01	2R3	4	0	3,836,803:49:0	
1005	97	51	10:31:43.333	117GU105A106A4K	7STRP	0.0,-0.014006,0,	Slew =,1.51	2R3	4	0	3,836,803:67:0	
1006	97	51	10:32:16.666	117GU105A106A4L	7STRP	0.0018,0.013806,	Slew =12.01	2R3	4	0	3,836,804:26:0	
1007	97	51	10:32:28.666	117GU105A106A4M	7STRP	0.0,-0.014006,0,	Slew =,1.51	2R3	4	0	3,836,804:44:0	
1008	97	51	10:33:02.000	117GU105A106A4N	7STRP	0.0018,0.013806,	Slew =12.01	2R3	4	0	3,836,805:03:0	
1009	97	51	10:33:14.000	117GU105A106A4O	7STRP	0.0,-0.014006,0,	Slew =,1.51	2R3	4	0	3,836,805:21:0	
1010	97	51	10:33:47.333	117GU105A106A4P	7STRP	0.0018,0.013806,	Slew =12.01	2R3	4	0	3,836,805:71:0	
1011	97	51	10:33:59.333	117GU105A106A4Q	7STRP	0.0,-0.014006,0,	Slew =,1.51	2R3	4	0	3,836,805:89:0	
1012	97	51	10:34:32.666	117GU105A106A4R	7STRP	0.0018,0.013806,	Slew =12.01	2R3	4	0	3,836,806:48:0	
1013	97	51	10:34:44.666	117GU105A106A4S	7STRP	0.0,-0.014006,0,	Slew =,1.51	2R3	4	0	3,836,806:66:0	
1014	97	51	10:35:18.000	117GU105A106A4T	7STRP	0.0018,0.013806,	Slew =12.01	2R3	4	0	3,836,807:25:0	
1015	97	51	10:35:30.000	117GU105A106A4U	7STRP	0.0,-0.014006,0,	Slew =,1.51	2R3	4	0	3,836,807:43:0	
1016	97	51	10:36:03.333	117GU105A106A4V	7STRP	0.0018,0.013806,	Slew =12.01	2R3	4	0	3,836,808:02:0	
1017	97	51	10:36:15.333	117GU105A106A4W	7STRP	0.0,-0.014006,0,	Slew =,1.51	2R3	4	0	3,836,808:20:0	
1018	97	51	10:36:48.666	117GU105A106A4X	7STRP	0.0018,0.013806,	Slew =12.01	2R3	4	0	3,836,808:70:0	
1019	97	51	10:37:00.666	117GU105A106A4Y	7STRP	0.0,-0.014006,0,	Slew =,1.51	2R3	4	0	3,836,808:88:0	
1020	97	51	10:37:34.000	117GU105A106A4Z	7STRP	0.0018,0.013806,	Slew =12.01	2R3	4	0	3,836,809:47:0	
1021	97	51	10:37:46.000	117GU105A106A4AA	7STRP	0.0,-0.014006,0,	Slew =,1.51	2R3	4	0	3,836,809:65:0	
1022	97	51	10:38:19.333	117GU105A106A4AB	7STRP	0.0018,0.013806,	Slew =12.01	2R3	4	0	3,836,810:24:0	
1023	97	51	10:38:31.333	117GU105A106A4AC	7STRP	0.0,-0.014006,0,	Slew =,1.51	2R3	4	0	3,836,810:42:0	
1024	97	51	10:39:04.666	117GU105A106A4AD	7STRP	0.0018,0.013806,	Slew =12.01	2R3	4	0	3,836,811:01:0	
1025	97	51	10:39:16.666	117GU105A106A4AE	7STRP	0.0,-0.014006,0,	Slew =,1.51	2R3	4	0	3,836,811:19:0	
1026	97	51	10:39:50.000	117GU105A106A4AF	7STRP	0.0018,0.013806,	Slew =12.01	2R3	4	0	3,836,811:69:0	
1027	97	51	10:40:02.000	117GU105A106A4AG	7STRP	0.0,-0.014006,0,	Slew =,1.51	2R3	4	0	3,836,811:87:0	
1028	97	51	10:40:32.000		DMS:	: *US-RUNUP	R7, TRACK 2, REV, TIC 2871.75 +/-	2R3	4	0	3,836,812:41:0	
1029	97	51	10:40:35.333	117GU105A106A4AH	7STRP	0.0018,0.013806,	Slew =12.01	2R3	4	0	3,836,812:46:0	
1030	97	51	10:40:47.333	117GU105A106A4AI	7STRP	0.0,-0.014006,0,	Slew =,1.51	2R3	4	0	3,836,812:64:0	
1031	97	51	10:40:56.666		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *2869.43 +/-	2R3	4	0	3,836,812:78:0	
1032	97	51	10:41:16.666		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *2864.74 +/-	2R3	4	0	3,836,813:17:0	
1033	97	51	10:41:20.666	117GU105A106A4AJ	7STRP	0.0018,0.013806,	Slew =12.01	2R3	4	0	3,836,813:23:0	
1034	97	51	10:41:32.666	117GU105A106A4AK	7STRP	0.0,-0.014006,0,	Slew =,1.51	2R3	4	0	3,836,813:41:0	
1035	97	51	10:42:06.000	117GU105A106A4AL	7STRP	0.0018,0.013806,	Slew =12.01	2R3	4	0	3,836,814:00:0	
1036	97	51	10:42:18.000	117GU105A106A4AM	7STRP	0.0,-0.014006,0,	Slew =,1.51	2R3	4	0	3,836,814:18:0	
1037	97	51	10:42:51.333	117GU105A106A4AN	7STRP	0.0018,0.013806,	Slew =12.01	2R3	4	0	3,836,814:68:0	
1038	97	51	10:43:03.333	117GU105A106A4AO	7STRP	0.0,-0.014006,0,	Slew =,1.51	2R3	4	0	3,836,814:86:0	
1039	97	51	10:43:36.666	117GU105A106A4AP	7STRP	0.0018,0.013806,	Slew =12.01	2R3	4	0	3,836,815:45:0	
1040	97	51	10:43:48.666	117GU105A106A4AQ	7STRP	0.0,-0.014006,0,	Slew =,1.51	2R3	4	0	3,836,815:63:0	
1041	97	51	10:44:22.000	117GU105A106A4AR	7STRP	0.0018,0.013806,	Slew =12.01	2R3	4	0	3,836,816:22:0	
1042	97	51	10:44:34.000	117GU105A106A4AS	7STRP	0.0,-0.014006,0,	Slew =,1.51	2R3	4	0	3,836,816:40:0	
1043	97	51	10:45:07.333	117GU105A106A4AT	7STRP	0.0018,0.013806,	Slew =12.01	2R3	4	0	3,836,816:90:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1044	97	51	10:45:19.333	117GU105A106A4AU	7STRP	0.0,-0.014006,0,	Slew =,1.51	2R3	4	0	3,836,817	17:0
1045	97	51	10:45:52.666	117GU105A106A4AV	7STRP	0.0018,0.013806,	Slew =12.01	2R3	4	0	3,836,817	67:0
1046	97	51	10:46:04.666	117GU105A106A4AW	7STRP	0.0,-0.014006,0,	Slew =,1.51	2R3	4	0	3,836,817	85:0
1047	97	51	10:46:38.000	117GU105A106A4AX	7STRP	0.0018,0.013806,	Slew =12.01	2R3	4	0	3,836,818	44:0
1048	97	51	10:46:50.000	117GU105A106A4AY	7STRP	0.0,-0.014006,0,	Slew =,1.51	2R3	4	0	3,836,818	62:0
1049	97	51	10:47:23.333	117GU105A106A4AZ	7STRP	0.0018,0.013806,	Slew =12.01	2R3	4	0	3,836,819	21:0
1050	97	51	10:47:35.333	117GU105A106A4BA	7STRP	0.0,-0.014006,0,	Slew =,1.51	2R3	4	0	3,836,819	39:0
1051	97	51	10:48:08.666	117GU105A106A4BB	7STRP	0.0018,0.013806,	Slew =12.01	2R3	4	0	3,836,819	89:0
1052	97	51	10:48:20.666	117GU105A106A4BC	7STRP	0.0,-0.014006,0,	Slew =,1.51	2R3	4	0	3,836,820	16:0
1053	97	51	10:48:54.000	117GU105A106A4BD	7STRP	0.0018,0.013806,	Slew =12.01	2R3	4	0	3,836,820	66:0
1054	97	51	10:49:06.000	117GU105A106A4BE	7STRP	0.0,-0.014006,0,	Slew =,1.51	2R3	4	0	3,836,820	84:0
1055	97	51	10:49:39.333	117GU105A106A4BF	7STRP	0.0018,0.013806,	Slew =12.01	2R3	4	0	3,836,821	43:0
1056	97	51	10:49:51.333	117GU105A106A4BG	7STRP	0.0,-0.014006,0,	Slew =,1.51	2R3	4	0	3,836,821	61:0
1057	97	51	10:50:24.666	117GU105A106A4BH	7STRP	0.0018,0.013806,	Slew =12.01	2R3	4	0	3,836,822	20:0
1058	97	51	10:50:36.666	117GU105A106A4BI	7STRP	0.0,-0.014006,0,	Slew =,1.51	2R3	4	0	3,836,822	38:0
1059	97	51	10:51:10.000	117GU105A106A4BJ	7STRP	0.0018,0.013806,	Slew =12.01	2R3	4	0	3,836,822	88:0
1060	97	51	10:51:22.000	117GU105A106A4BK	7STRP	0.0,-0.014006,0,	Slew =,1.51	2R3	4	0	3,836,823	15:0
1061	97	51	10:51:55.333	117GU105A106A4BL	7STRP	0.0018,0.013806,	Slew =12.01	2R3	4	0	3,836,823	65:0
1062	97	51	10:52:07.333	117GU105A106A4BM	7STRP	0.0,-0.014006,0,	Slew =,1.51	2R3	4	0	3,836,823	83:0
1063	97	51	10:52:40.666	117GU105A106A4BN	7STRP	0.0018,0.013806,	Slew =12.01	2R3	4	0	3,836,824	42:0
1064	97	51	10:52:52.666	117GU105A106A4BO	7STRP	0.0,-0.014006,0,	Slew =,1.51	2R3	4	0	3,836,824	60:0
1065	97	51	10:53:26.000	117GU105A106A4BP	7STRP	0.0018,0.013806,	Slew =12.01	2R3	4	0	3,836,825	19:0
1066	97	51	10:53:34.000		DMS:	: *US-RUNUP	R7, TRACK 2, REV, TIC 2864.68 +/-	2R3	4	0	3,836,825	31:0
1067	97	51	10:53:38.000	117GU105A106A4BQ	7STRP	0.0,-0.014006,0,	Slew =,1.51	2R3	4	0	3,836,825	37:0
1068	97	51	10:53:58.666		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *2862.37 +/-	2R3	4	0	3,836,825	68:0
1069	97	51	10:54:11.333	117GU105A106A4BR	7STRP	0.0018,0.013806,	Slew =12.01	2R3	4	0	3,836,825	87:0
1070	97	51	10:54:18.666		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *2857.68 +/-	2R3	4	0	3,836,826	07:0
1071	97	51	10:54:23.333	117GU105A106A4BS	7STRP	0.0,-0.014006,0,	Slew =,1.51	2R3	4	0	3,836,826	14:0
1072	97	51	10:54:56.666	117GU105A106A4BT	7STRP	0.0018,0.013806,	Slew =12.01	2R3	4	0	3,836,826	64:0
1073	97	51	10:55:08.666	117GU105A106A4BU	7STRP	0.0,-0.014006,0,	Slew =,1.51	2R3	4	0	3,836,826	82:0
1074	97	51	10:55:42.000	117GU105A106A4BV	7STRP	0.0018,0.013806,	Slew =12.01	2R3	4	0	3,836,827	41:0
1075	97	51	10:55:54.000	117GU105A106A4BW	7STRP	0.0,-0.014006,0,	Slew =,1.51	2R3	4	0	3,836,827	59:0
1076	97	51	10:56:27.333	117GU105A106A4BX	7STRP	0.0018,0.013806,	Slew =12.01	2R3	4	0	3,836,828	18:0
1077	97	51	10:56:39.333	117GU105A106A4BY	7STRP	0.0,-0.014006,0,	Slew =,1.51	2R3	4	0	3,836,828	36:0
1078	97	51	10:57:12.666	117GU105A106A4BZ	7STRP	0.0018,0.013806,	Slew =12.01	2R3	4	0	3,836,828	86:0
1079	97	51	10:57:24.666	117GU105A106A4CA	7STRP	0.0,-0.014006,0,	Slew =,1.51	2R3	4	0	3,836,829	13:0
1080	97	51	10:57:58.000	117GU105A106A4CB	7STRP	0.0018,0.013806,	Slew =12.01	2R3	4	0	3,836,829	63:0
1081	97	51	10:58:10.000	117GU105A106A4CC	7STRP	0.0,-0.014006,0,	Slew =,1.51	2R3	4	0	3,836,829	81:0
1082	97	51	10:58:43.333	117GU105A106A4CD	7STRP	0.0018,0.013806,	Slew =12.01	2R3	4	0	3,836,830	40:0
1083	97	51	10:58:55.333	117GU105A106A4CE	7STRP	0.0,-0.014006,0,	Slew =,1.51	2R3	4	0	3,836,830	58:0
1084	97	51	10:59:28.666	117GU105A106A4CF	7STRP	0.0018,0.013806,	Slew =12.01	2R3	4	0	3,836,831	17:0
1085	97	51	10:59:40.666	117GU105A106A4CG	7STRP	0.0,-0.014006,0,	Slew =,1.51	2R3	4	0	3,836,831	35:0
1086	97	51	11:00:14.000	117GU11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	3,836,831	85:0
1087	97	51	11:06:36.000		DMS:	: *US-RUNUP	R7, TRACK 2, REV, TIC 2857.62 +/-	2R3	4	0	3,836,838	21:0
1088	97	51	11:07:00.666		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *2855.31 +/-	2R3	4	0	3,836,838	58:0
1089	97	51	11:07:20.666		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *2850.62 +/-	2R3	4	0	3,836,838	88:0
1090	97	51	11:19:38.666		DMS:	: *US-RUNUP	R7, TRACK 2, REV, TIC 2850.56 +/-	2R3	4	0	3,836,851	12:0
1091	97	51	11:20:02.666		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *2848.40 +/-	2R3	4	0	3,836,851	48:0
1092	97	51	11:20:22.666		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *2843.71 +/-	2R3	4	0	3,836,851	78:0
1093	97	51	11:24:38.000	165GH4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,836,856	06:0
1094	97	51	11:24:38.666	165GH4B	7SCAN	NORM,270.946999,	Check S/P Position	2R3	4	0	3,836,856	07:0
1095	97	51	11:25:04.000	176GU6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	3,836,856	45:0
1096	97	51	11:25:06.000		DMS:	: *US-RUNUP	R7, TRACK 2, REV, TIC 2843.65 +/-	2R3	4	0	3,836,856	48:0
1097	97	51	11:25:16.000		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *2844.78 +/-	2R3	4	0	3,836,856	63:0
1098	97	51	11:25:27.333		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *2842.12 +/-	2R3	4	0	3,836,856	80:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
1099	97	51	11:26:26.000	117GH	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	3,836,857:77:0
1100	97	51	11:26:35.333	117GH105A106A4A	7STRP	-0.012801,0.0,0,	Slew =,0.06	2R3	4	0	3,836,858:00:0
1101	97	51	11:26:35.333	176GH6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R3	4	0	3,836,858:00:0
1102	97	51	11:30:10.666	117GH105A106A4B	7STRP	0.012101,-0.0013	Slew =12.01	2R3	4	0	3,836,861:50:0
1103	97	51	11:30:16.666	117GH105A106A4C	7STRP	-0.012801,0.0,0,	Slew =,0.06	2R3	4	0	3,836,861:59:0
1104	97	51	11:33:52.000	117GH105A106A4D	7STRP	0.012101,-0.0013	Slew =12.01	2R3	4	0	3,836,865:18:0
1105	97	51	11:33:58.000	117GH105A106A4E	7STRP	-0.012801,0.0,0,	Slew =,0.06	2R3	4	0	3,836,865:27:0
1106	**97**	**51**	**11:36:46.000**	**E6NIMSP2LD10-**		**-----START------**		**2R3**	**4**	**0**	**: :**
1107	97	51	11:37:33.333	117GH105A106A4F	7STRP	0.012101,-0.0013	Slew =12.01	2R3	4	0	3,836,868:77:0
1108	97	51	11:37:39.333	117GH105A106A4G	7STRP	-0.012801,0.0,0,	Slew =,0.06	2R3	4	0	3,836,868:86:0
1109	97	51	11:39:10.666		DMS:	: *US-RUNUP	R7, TRACK 2, REV, TIC 2842.06 +/-	2R3	4	0	3,836,870:41:0
1110	97	51	11:39:35.333		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *2839.74 +/-	2R3	4	0	3,836,870:78:0
1111	97	51	11:39:55.333		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *2835.06 +/-	2R3	4	0	3,836,871:17:0
1112	**97**	**51**	**11:40:48.666**	**20DJ6A**	**6CKSUM**	**NIMS**	**NIMS,1000,14BC**	**2R3**	**4**	**0**	**3,836,872:06:0**
1113	97	51	11:41:14.666	117GH105A106A4H	7STRP	0.012101,-0.0013	Slew =12.01	2R3	4	0	3,836,872:45:0
1114	97	51	11:41:20.666	117GH105A106A4I	7STRP	-0.012801,0.0,0,	Slew =,0.06	2R3	4	0	3,836,872:54:0
1115	**97**	**51**	**11:41:49.333**	**20DJ5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**2R3**	**4**	**0**	**3,836,873:06:0**
1116	**97**	**51**	**11:42:50.000**	**20DJ5B**	**37MRL**		**Memory Realocate (software operates from R**	**2R3**	**4**	**0**	**3,836,874:06:0**
1117	**97**	**51**	**11:43:50.666**	**20DJ6B**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**2R3**	**4**	**0**	**3,836,875:06:0**
1118	**97**	**51**	**11:44:51.333**	**20DJ6C**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**2R3**	**4**	**0**	**3,836,876:06:0**
1119	97	51	11:44:56.000	117GH105A106A4J	7STRP	0.012101,-0.0013	Slew =12.01	2R3	4	0	3,836,876:13:0
1120	97	51	11:45:02.000	117GH105A106A4K	7STRP	-0.012801,0.0,0,	Slew =,0.06	2R3	4	0	3,836,876:22:0
1121	**97**	**51**	**11:45:52.000**	**20DJ5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**3,836,877:06:0**
1122	**97**	**51**	**11:46:52.666**	**20DJ5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**3,836,878:06:0**
1123	**97**	**51**	**11:46:52.667**	**E6NIMSP2LD10-**		**-----STOP-------**		**260**	**4**	**0**	**: :**
1124	**97**	**51**	**11:47:53.333**	**E6ENEURORT01-**		**-----START------**		**260**	**4**	**0**	**: :**
1125	**97**	**51**	**11:47:53.333**	**20DJ4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**3,836,879:06:0**
1126	97	51	11:48:37.333	117GH105A106A4L	7STRP	0.012101,-0.0013	Slew =12.01	2R0	4	0	3,836,879:72:0
1127	97	51	11:48:43.333	117GH105A106A4M	7STRP	-0.012801,0.0,0,	Slew =,0.06	2R0	4	0	3,836,879:81:0
1128	**97**	**51**	**11:48:54.000**	**20DJ4B**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**3,836,880:06:0**
1129	97	51	11:52:12.666		DMS:	: *US-RUNUP	R7, TRACK 2, REV, TIC 2835.00 +/-	2R3	4	0	3,836,883:31:0
1130	97	51	11:52:18.666	117GH105A106A4N	7STRP	0.012101,-0.0013	Slew =12.01	2R3	4	0	3,836,883:40:0
1131	97	51	11:52:24.666	117GH105A106A4O	7STRP	-0.012801,0.0,0,	Slew =,0.06	2R3	4	0	3,836,883:49:0
1132	97	51	11:52:37.333		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *2832.68 +/-	2R3	4	0	3,836,883:68:0
1133	97	51	11:52:57.333		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *2827.99 +/-	2R3	4	0	3,836,884:07:0
1134	**97**	**51**	**11:53:57.333**	**E6ENEURORT01-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**
1135	97	51	11:56:00.000	117GH11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	3,836,887:08:0
1136	97	51	11:56:54.000	165FK4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,836,887:89:0
1137	97	51	11:56:54.666	165FK4B	7SCAN	NORM,265.963997,	Check S/P Position	2R3	4	0	3,836,887:90:0
1138	97	51	11:57:35.333	176GH6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	3,836,888:60:0
1139	97	51	11:57:37.333		DMS:	: *US-RUNUP	R7, TRACK 2, REV, TIC 2827.93 +/-	2R3	4	0	3,836,888:63:0
1140	97	51	11:57:47.333		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *2829.06 +/-	2R3	4	0	3,836,888:78:0
1141	97	51	11:57:51.333	125DE11A	NIMSINIT	GE	##### GROUP END INIT	2R3	4	0	3,836,888:84:0
1142	**97**	**51**	**11:57:51.333**	**125DE4A**	**37MB**	**1B,1B,0,0,0,0**	**Selects mirror (spatial) edit table**	**2R3**	**4**	**0**	**3,836,888:84:0**
1143	97	51	11:57:51.333	125DE	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	3,836,888:84:0
1144	97	51	11:57:58.666		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *2826.40 +/-	2R3	4	0	3,836,889:04:0
1145	97	51	11:58:52.000	127DE	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	3,836,889:84:0
1146	**97**	**51**	**11:58:52.000**	**127DE4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**3,836,889:84:0**
1147	**97**	**51**	**11:58:52.666**	**127DE4B**	**37ETB**	**04,C4,35,FF,FF**	**Loads wavelength edit table**	**2R3**	**4**	**0**	**3,836,889:85:0**
1148	97	51	11:59:00.666	127DE11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	3,836,890:06:0
1149	**97**	**51**	**11:59:16.666**	**432EY6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**	**NIMS R/T SELECT**	**2R3**	**4**	**0**	**3,836,890:30:0**
1150	97	51	11:59:48.000	117FK	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	3,836,890:77:0
1151	97	51	11:59:57.333	117FK105A106A4A	7STRP	-0.0036,0.0,0,0,	Slew =,0.03	2R3	4	0	3,836,891:00:0
1152	**97**	**51**	**12:01:16.666**	**432EZ6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**2R3**	**4**	**0**	**3,836,892:28:0**
1153	97	51	12:01:54.000	125DI	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	3,836,892:84:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
1154	**97**	**51**	**12:01:54.000**	**125DI4A**	**37MB**	**0,0,0,0,0,0**	**Selects mirror (spatial) edit table**	**2R3**	**4**	**0**	**3,836,892:84:0**
1155	97	51	12:01:54.000	125DG11A	NIMSINIT	GE	##### GROUP END INIT	2R3	4	0	3,836,892:84:0
1156	**97**	**51**	**12:01:54.000**	**125DG4A**	**37IST**	**0,0,0,OFF,0,1,2**	**Gain State 3**	**3R3**	**4**	**0**	**3,836,892:84:0**
1157	97	51	12:01:54.000	125DG	NIMSINIT	GS	##### GROUP START INIT	3R3	4	0	3,836,892:84:0
1158	97	51	12:01:54.000	125DI11A	NIMSINIT	GE	##### GROUP END INIT	3R3	4	0	3,836,892:84:0
1159	97	51	12:01:58.666	117FK11A	**CSMOS**	GE	***** GROUP END CSMOS	3R3	4	0	3,836,893:00:0
1160	**97**	**51**	**12:02:02.667**	**E6ENTERINC01-**		**-----START------**		**3R3**	**4**	**0**	**: :**
1161	97	51	12:02:04.000	165DV4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	3R3	4	0	3,836,893:08:0
1162	97	51	12:02:04.666	165DV4B	7SCAN	NORM,266.542,-23	Check S/P Position	3R3	4	0	3,836,893:09:0
1163	97	51	12:02:53.333	175DV422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	3R3	4	0	3,836,893:82:0
1164	97	51	12:02:53.333		DMS:	: *US-RUNUP	R28, TRACK 2, REV, TIC 2826.34 +/-	3R3	4	0	3,836,893:82:0
1165	97	51	12:02:54.666	127DV	NIMSTAB	GS	%%%%% GROUP START TAB	3R3	4	0	3,836,893:84:0
1166	**97**	**51**	**12:02:54.666**	**127DV4A**	**37IOP**	**1,0**	**Full Map, Grating Start Position =00**	**3R1**	**4**	**0**	**3,836,893:84:0**
1167	**97**	**51**	**12:02:55.333**	**127DV4B**	**37ETB**	**04,C4,1B,FF,FF**	**Loads wavelength edit table**	**3R1**	**4**	**0**	**3,836,893:85:0**
1168	97	51	12:02:56.666	117DV	**CSMOS**	GS	***** GROUP START CSMOS	3R1	4	0	3,836,893:87:0
1169	97	51	12:03:03.333	127DV11A	NIMSTAB	GE	%%%%% GROUP END TAB	3R1	4	0	3,836,894:06:0
1170	97	51	12:03:05.200		DMS:	**: *RECORD**	R28, TRACK 2, REV, TIC *2826.25 +/-	3R1	4	0	3,836,894:08:8
1171	97	51	12:03:05.333	175DV176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	3R1	4	0	3,836,894:09:0
1172	97	51	12:03:06.000	117DV105A106A4A	**7STRP**	**-0.032261,0.0,0,**	**Slew =,0.06**	3R1	4	0	3,836,894:10:0
1173	97	51	12:12:00.666	125DH11A	NIMSINIT	GE	##### GROUP END INIT	3R1	4	0	3,836,902:84:0
1174	97	51	12:12:00.666	125DH	NIMSINIT	GS	##### GROUP START INIT	3R1	4	0	3,836,902:84:0
1175	**97**	**51**	**12:12:00.666**	**125DH4A**	**37IST**	**0,0,0,OFF,0,1,0**	**Gain State 2**	**2R1**	**4**	**0**	**3,836,902:84:0**
1176	97	51	12:12:04.666	117DV105A106A4B	**7STRP**	**0.030409,-0.0090**	**Slew =12.01**	2R1	4	0	3,836,902:90:0
1177	97	51	12:12:11.333	117DV105A106A4C	**7STRP**	**-0.032261,0.0,0,**	**Slew =,0.06**	2R1	4	0	3,836,903:09:0
1178	**97**	**51**	**12:13:21.454**	**E6ENTERINC01-**	**NIMPBK**	**301FL**	**EUROPA TERRA INCOGNITO**	**2R1**	**4**	**0**	**: :**
1179	**97**	**51**	**12:19:35.454**	**E6ENTERINC01-**	**DESELC**	**300FL**	**EUROPA TERRA INCOGNITO**	**2R1**	**4**	**0**	**: :**
1180	**97**	**51**	**12:21:06.666**	**33A4A**	**37IST**	**0,0,0,OFF,0,1,2**	**Gain State 3**	**3R1**	**4**	**0**	**3,836,911:84:0**
1181	97	51	12:21:10.000	117DV105A106A4D	**7STRP**	**0.030409,-0.0090**	**Slew =12.01**	3R1	4	0	3,836,911:89:0
1182	97	51	12:21:16.666	117DV105A106A4E	**7STRP**	**-0.032261,0.0,0,**	**Slew =,0.06**	3R1	4	0	3,836,912:08:0
1183	**97**	**51**	**12:21:16.787**	**E6ENTERINC01-**	**NIMPBK**	**301DT**	**EUROPA TERRA INCOGNITO**	**3R1**	**4**	**0**	**: :**
1184	**97**	**51**	**12:23:18.121**	**E6ENTERINC01-**	**NIMPBK**	**301DV**	**EUROPA TERRA INCOGNITO**	**3R1**	**4**	**0**	**: :**
1185	**97**	**51**	**12:23:22.121**	**E6ENTERINC01-**	**DESELC**	**300DT**	**EUROPA TERRA INCOGNITO**	**3R1**	**4**	**0**	**: :**
1186	**97**	**51**	**12:25:19.454**	**E6ENTERINC01-**	**NIMPBK**	**301DI**	**EUROPA TERRA INCOGNITO**	**3R1**	**4**	**0**	**: :**
1187	**97**	**51**	**12:25:23.454**	**E6ENTERINC01-**	**DESELC**	**300DV**	**EUROPA TERRA INCOGNITO**	**3R1**	**4**	**0**	**: :**
1188	**97**	**51**	**12:27:20.787**	**E6ENTERINC01-**	**NIMPBK**	**301DW**	**EUROPA TERRA INCOGNITO**	**3R1**	**4**	**0**	**: :**
1189	**97**	**51**	**12:27:24.787**	**E6ENTERINC01-**	**DESELC**	**300DI**	**EUROPA TERRA INCOGNITO**	**3R1**	**4**	**0**	**: :**
1190	**97**	**51**	**12:29:22.786**	**E6ENTERINC01-**	**DESELC**	**300DW**	**EUROPA TERRA INCOGNITO**	**3R1**	**4**	**0**	**: :**
1191	97	51	12:30:12.666	125DF	NIMSINIT	GS	##### GROUP START INIT	3R1	4	0	3,836,920:84:0
1192	**97**	**51**	**12:30:12.666**	**125DF4A**	**37IST**	**0,0,0,OFF,0,1,2**	**Gain State 3**	**3R1**	**4**	**0**	**3,836,920:84:0**
1193	97	51	12:30:12.666	125DF11A	NIMSINIT	GE	##### GROUP END INIT	3R1	4	0	3,836,920:84:0
1194	97	51	12:30:15.333	117DV105A106A4F	**7STRP**	**0.030409,-0.0090**	**Slew =12.01**	3R1	4	0	3,836,920:88:0
1195	97	51	12:30:22.000	117DV105A106A4G	**7STRP**	**-0.032261,0.0,0,**	**Slew =,0.06**	3R1	4	0	3,836,921:07:0
1196	97	51	12:35:52.666	175DV422A6B	6DMSC	RDY,0	DMS Control Tape stop	3R1	4	0	3,836,926:48:0
1197	97	51	12:35:52.666		DMS:	**: *RUNDOWN**	R28, TRACK 2, REV, TIC *1097.04 +/-	3R1	4	0	3,836,926:48:0
1198	97	51	12:39:18.666	125FZ11A	NIMSINIT	GE	##### GROUP END INIT	3R1	4	0	3,836,929:84:0
1199	**97**	**51**	**12:39:18.666**	**125FZ4A**	**37IST**	**0,0,0,OFF,0,1,0**	**Gain State 2**	**2R1**	**4**	**0**	**3,836,929:84:0**
1200	97	51	12:39:18.666	125FZ	NIMSINIT	GS	##### GROUP START INIT	2R1	4	0	3,836,929:84:0
1201	97	51	12:39:20.666	117DV11A	**CSMOS**	GE	***** GROUP END CSMOS	2R1	4	0	3,836,929:87:0
1202	97	51	12:40:19.333	127DX	NIMSTAB	GS	%%%%% GROUP START TAB	2R1	4	0	3,836,930:84:0
1203	**97**	**51**	**12:40:19.333**	**127DX4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**3,836,930:84:0**
1204	**97**	**51**	**12:40:20.000**	**127DX4B**	**37ETB**	**07,C7,02,01,80,0**	**Loads wavelength edit table**	**2R3**	**4**	**0**	**3,836,930:85:0**
1205	97	51	12:40:22.666	165DX4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,836,930:89:0
1206	97	51	12:40:23.333	165DX4B	7SCAN	NORM,270.376999,	Check S/P Position	2R3	4	0	3,836,930:90:0
1207	97	51	12:40:28.000	127DX11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	3,836,931:06:0
1208	**97**	**51**	**12:40:28.000**	**E6ENTERINC01-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1209	97	51	12:41:09.333		DMS:	: *US-RUNUP	R28, TRACK 2, REV, TIC 1096.74 +/-	2R3	4	0	3,836,931:68:0	
1210	97	51	12:41:09.333	175DX422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	2R3	4	0	3,836,931:68:0	
1211	97	51	12:41:15.333	117DX	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	3,836,931:77:0	
1212	97	51	12:41:21.200		DMS:	**: *RECORD**	R28, TRACK 2, REV, TIC *1096.65 +/-	2R3	4	0	3,836,931:85:8	
1213	97	51	12:41:21.333	175DX176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	2R3	4	0	3,836,931:86:0	
1214	97	51	12:41:24.666	117DX105A106A4A	**7STRP**	**-0.00855,0.0,0,0**	**Slew =,0.03**	2R3	4	0	3,836,932:00:0	
1215	**97**	**51**	**12:41:24.786**	**E6INHRSPEC01-**	**NIMPBK**	**301DU**	**HIGH SPATIAL AND SPECTRAL OBS OF**	**2R3**	**4**	**0**	**: :**	
1216	**97**	**51**	**12:41:28.666**	**E6INHRSPEC01-**		**-----START------**		**2R3**	**4**	**0**	**: :**	
1217	**97**	**51**	**12:43:26.120**	**E6INHRSPEC01-**	**NIMPBK**	**301EC**	**HIGH SPATIAL AND SPECTRAL OBS OF**	**2R3**	**4**	**0**	**: :**	
1218	**97**	**51**	**12:43:34.120**	**E6INHRSPEC01-**	**DESELC**	**300DU**	**HIGH SPATIAL AND SPECTRAL OBS OF**	**2R3**	**4**	**0**	**: :**	
1219	**97**	**51**	**12:45:31.333**	**E6INHRSPEC01-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**	
1220	97	51	12:46:11.333	117DX11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	3,836,936:66:0	
1221	**97**	**51**	**12:46:11.453**	**E6INHRSPEC01-**	**DESELC**	**300EC**	**HIGH SPATIAL AND SPECTRAL OBS OF**	**2R3**	**4**	**0**	**: :**	
1222	97	51	12:46:12.666	175DX422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,836,936:68:0	
1223	97	51	12:46:12.666		DMS:	**: *RUNDOWN**	R28, TRACK 2, REV, TIC * 840.48 +/-	2R3	4	0	3,836,936:68:0	
1224	97	51	12:46:26.666	165JU4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,836,936:89:0	
1225	97	51	12:46:27.333	165JU4B	7SCAN	NORM,270.185997,	Check S/P Position	2R3	4	0	3,836,936:90:0	
1226	97	51	12:50:19.333	175IK422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	2R3	4	0	3,836,940:74:0	
1227	97	51	12:50:19.333		DMS:	: *US-RUNUP	R806, TRACK 2, REV, TIC 840.18 +/-	2R3	4	0	3,836,940:74:0	
1228	97	51	12:50:32.000	175IK176A6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	2R3	4	0	3,836,941:02:0	
1229	97	51	12:50:32.466		DMS:	**: *RECORD**	R806, TRACK 2, REV, TIC * 775.59 +/- 1	2R3	4	0	3,836,941:02:7	
1230	97	51	12:50:39.333	175IK422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,836,941:13:0	
1231	97	51	12:50:39.333		DMS:	**: *RUNDOWN**	R806, TRACK 2, REV, TIC * 606.61 +/- 1	2R3	4	0	3,836,941:13:0	
1232	97	51	12:51:30.000	165IM4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,836,941:89:0	
1233	97	51	12:51:30.666	165IM4B	7SCAN	NORM,264.334999,	Check S/P Position	2R3	4	0	3,836,941:90:0	
1234	97	51	12:54:14.666	488AQ6A	6TMSED	NORM,CL1	Sci, Eng, and D/L Chan	2R3	4	0	3,836,944:63:0	
1235	97	51	12:54:37.333	117IM	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	3,836,945:06:0	
1236	97	51	12:55:21.333	175IL422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	2R3	4	0	3,836,945:72:0	
1237	97	51	12:55:21.333		DMS:	: *US-RUNUP	R806, TRACK 2, REV, TIC 595.11 +/- 1	2R3	4	0	3,836,945:72:0	
1238	97	51	12:55:32.000	117IM105A106A4A	7STRP	0.014501,0.0,0,0	Slew =,3.16	2R3	4	0	3,836,945:88:0	
1239	97	51	12:55:34.000	175IL176A6A	6TMREC	AI8	806.4 KBPS SSI RECORD Record Mode Change	2R3	4	0	3,836,946:00:0	
1240	97	51	12:55:34.466		DMS:	**: *RECORD**	R806, TRACK 2, REV, TIC * 530.52 +/- 1	2R3	4	0	3,836,946:00:7	
1241	97	51	12:55:38.666		DMS:	**: *RUNDOWN**	R806, TRACK 2, REV, TIC * 427.16 +/- 1	2R3	4	0	3,836,946:07:0	
1242	97	51	12:55:38.666	175IL422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,836,946:07:0	
1243	97	51	12:55:39.333	117IM11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	3,836,946:08:0	
1244	97	51	14:04:38.666	488AQ6B	6TMSED	NORM,CL2	Sci, Eng, and D/L Chan	2R3	4	0	3,837,014:29:0	
1245	97	51	14:08:17.333	127DY	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	3,837,017:84:0	
1246	**97**	**51**	**14:08:17.333**	**127DY4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**3,837,017:84:0**	
1247	**97**	**51**	**14:08:18.000**	**127DY4B**	**37ETB**	**07,C7,02,01,80,0**	**Loads wavelength edit table**	**2R3**	**4**	**0**	**3,837,017:85:0**	
1248	97	51	14:08:20.666	165DY4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,837,017:89:0	
1249	97	51	14:08:21.333	165DY4B	7SCAN	NORM,271.442997,	Check S/P Position	2R3	4	0	3,837,017:90:0	
1250	97	51	14:08:26.000	127DY11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	3,837,018:06:0	
1251	97	51	14:09:10.000		DMS:	: *US-RUNUP	R7, TRACK 2, REV, TIC 415.66 +/- 1	2R3	4	0	3,837,018:72:0	
1252	97	51	14:09:10.000	175DY422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	3,837,018:72:0	
1253	97	51	14:09:13.333	117DY	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	3,837,018:77:0	
1254	97	51	14:09:19.266		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC * 416.96 +/- 1	2R3	4	0	3,837,018:85:9	
1255	97	51	14:09:19.333	175DY176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R3	4	0	3,837,018:86:0	
1256	97	51	14:09:22.666	117DY105A106A4A	**7STRP**	**-0.004,0.0,0,0,0**	**Slew =,0.02**	2R3	4	0	3,837,019:00:0	
1257	97	51	14:12:45.333	117DY11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	3,837,022:31:0	
1258	97	51	14:14:18.000		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC * 346.94 +/- 1	2R3	4	0	3,837,023:79:0	
1259	97	51	14:14:18.000	175DY422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,837,023:79:0	
1260	97	51	14:14:18.000	175DY6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	3,837,023:79:0	
1261	97	51	14:15:00.000	488AQ6C	6TMSED	NORM,EL2	Sci, Eng, and D/L Chan	2R3	4	0	3,837,024:51:0	
1262	97	51	14:16:26.000	165GI4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,837,025:89:0	
1263	97	51	14:16:26.666	165GI4B	7SCAN	NORM,265.704998,	Check S/P Position	2R3	4	0	3,837,025:90:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1264	97	51	14:17:18.666	117GI	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	3,837,026	77:0
1265	97	51	14:17:28.000	176GI6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R3	4	0	3,837,027	00:0
1266	97	51	14:17:28.000	117GI105A106A4A	7STRP	-0.039521,0.0,0,	Slew =,1.61	2R3	4	0	3,837,027	00:0
1267	97	51	14:17:55.333	117GI105A106A4B	7STRP	0.03902,-0.00105	Slew =12.01	2R3	4	0	3,837,027	41:0
1268	97	51	14:18:02.000	117GI105A106A4C	7STRP	-0.039521,0.0,0,	Slew =,1.61	2R3	4	0	3,837,027	51:0
1269	97	51	14:18:29.333	117GI105A106A4D	7STRP	0.03902,-0.00105	Slew =12.01	2R3	4	0	3,837,028	01:0
1270	97	51	14:18:36.000	117GI105A106A4E	7STRP	-0.039521,0.0,0,	Slew =,1.61	2R3	4	0	3,837,028	11:0
1271	97	51	14:19:03.333	117GI105A106A4F	7STRP	0.03902,-0.00105	Slew =12.01	2R3	4	0	3,837,028	52:0
1272	97	51	14:19:10.000	117GI105A106A4G	7STRP	-0.039521,0.0,0,	Slew =,1.61	2R3	4	0	3,837,028	62:0
1273	97	51	14:19:37.333	117GI105A106A4H	7STRP	0.03902,-0.00105	Slew =12.01	2R3	4	0	3,837,029	12:0
1274	97	51	14:19:44.000	117GI105A106A4I	7STRP	-0.039521,0.0,0,	Slew =,1.61	2R3	4	0	3,837,029	22:0
1275	97	51	14:20:11.333	117GI105A106A4J	7STRP	0.03902,-0.00105	Slew =12.01	2R3	4	0	3,837,029	63:0
1276	97	51	14:20:18.000	117GI105A106A4K	7STRP	-0.039521,0.0,0,	Slew =,1.61	2R3	4	0	3,837,029	73:0
1277	97	51	14:20:45.333	117GI105A106A4L	7STRP	0.03902,-0.00105	Slew =12.01	2R3	4	0	3,837,030	23:0
1278	97	51	14:20:52.000	117GI105A106A4M	7STRP	-0.039521,0.0,0,	Slew =,1.61	2R3	4	0	3,837,030	33:0
1279	97	51	14:21:19.333	117GI105A106A4N	7STRP	0.03902,-0.00105	Slew =12.01	2R3	4	0	3,837,030	74:0
1280	97	51	14:21:26.000	117GI105A106A4O	7STRP	-0.039521,0.0,0,	Slew =,1.61	2R3	4	0	3,837,030	84:0
1281	97	51	14:21:53.333	117GI105A106A4P	7STRP	0.03902,-0.00105	Slew =12.01	2R3	4	0	3,837,031	34:0
1282	97	51	14:22:00.000	117GI105A106A4Q	7STRP	-0.039521,0.0,0,	Slew =,1.61	2R3	4	0	3,837,031	44:0
1283	97	51	14:22:27.333	117GI105A106A4R	7STRP	0.03902,-0.00105	Slew =12.01	2R3	4	0	3,837,031	85:0
1284	97	51	14:22:34.000	117GI105A106A4S	7STRP	-0.039521,0.0,0,	Slew =,1.61	2R3	4	0	3,837,032	04:0
1285	97	51	14:23:01.333	117GI105A106A4T	7STRP	0.03902,-0.00105	Slew =12.01	2R3	4	0	3,837,032	45:0
1286	97	51	14:23:08.000	117GI105A106A4U	7STRP	-0.039521,0.0,0,	Slew =,1.61	2R3	4	0	3,837,032	55:0
1287	97	51	14:23:35.333	117GI105A106A4V	7STRP	0.03902,-0.00105	Slew =12.01	2R3	4	0	3,837,033	05:0
1288	97	51	14:23:42.000	117GI105A106A4W	7STRP	-0.039521,0.0,0,	Slew =,1.61	2R3	4	0	3,837,033	15:0
1289	97	51	14:24:09.333	117GI105A106A4X	7STRP	0.03902,-0.00105	Slew =12.01	2R3	4	0	3,837,033	56:0
1290	97	51	14:24:16.000	117GI105A106A4Y	7STRP	-0.039521,0.0,0,	Slew =,1.61	2R3	4	0	3,837,033	66:0
1291	97	51	14:24:43.333	117GI105A106A4Z	7STRP	0.03902,-0.00105	Slew =12.01	2R3	4	0	3,837,034	16:0
1292	97	51	14:24:50.000	117GI105A106A4AA	7STRP	-0.039521,0.0,0,	Slew =,1.61	2R3	4	0	3,837,034	26:0
1293	97	51	14:25:17.333	117GI105A106A4AB	7STRP	0.03902,-0.00105	Slew =12.01	2R3	4	0	3,837,034	67:0
1294	97	51	14:25:24.000	117GI105A106A4AC	7STRP	-0.039521,0.0,0,	Slew =,1.61	2R3	4	0	3,837,034	77:0
1295	**97**	**51**	**14:25:37.333**	**E6INCHEMIS03-**		**-----START------**		**2R3**	**4**	**0**	**:**	**:**
1296	97	51	14:25:51.333	117GI105A106A4AD	7STRP	0.03902,-0.00105	Slew =12.01	2R3	4	0	3,837,035	27:0
1297	97	51	14:25:58.000	117GI105A106A4AE	7STRP	-0.039521,0.0,0,	Slew =,1.61	2R3	4	0	3,837,035	37:0
1298	97	51	14:26:25.333	117GI105A106A4AF	7STRP	0.03902,-0.00105	Slew =12.01	2R3	4	0	3,837,035	78:0
1299	97	51	14:26:32.000	117GI105A106A4AG	7STRP	-0.039521,0.0,0,	Slew =,1.61	2R3	4	0	3,837,035	88:0
1300	97	51	14:26:59.333	117GI105A106A4AH	7STRP	0.03902,-0.00105	Slew =12.01	2R3	4	0	3,837,036	38:0
1301	97	51	14:27:06.000	117GI105A106A4AI	7STRP	-0.039521,0.0,0,	Slew =,1.61	2R3	4	0	3,837,036	48:0
1302	97	51	14:27:33.333	117GI105A106A4AJ	7STRP	0.03902,-0.00105	Slew =12.01	2R3	4	0	3,837,036	89:0
1303	97	51	14:27:40.000	117GI105A106A4AK	7STRP	-0.039521,0.0,0,	Slew =,1.61	2R3	4	0	3,837,037	08:0
1304	97	51	14:28:07.333	117GI105A106A4AL	7STRP	0.03902,-0.00105	Slew =12.01	2R3	4	0	3,837,037	49:0
1305	97	51	14:28:14.000	117GI105A106A4AM	7STRP	-0.039521,0.0,0,	Slew =,1.61	2R3	4	0	3,837,037	59:0
1306	97	51	14:28:41.333	117GI105A106A4AN	7STRP	0.03902,-0.00105	Slew =12.01	2R3	4	0	3,837,038	09:0
1307	97	51	14:28:48.000	117GI105A106A4AO	7STRP	-0.039521,0.0,0,	Slew =,1.61	2R3	4	0	3,837,038	19:0
1308	97	51	14:29:15.333	117GI105A106A4AP	7STRP	0.03902,-0.00105	Slew =12.01	2R3	4	0	3,837,038	60:0
1309	97	51	14:29:22.000	117GI105A106A4AQ	7STRP	-0.039521,0.0,0,	Slew =,1.61	2R3	4	0	3,837,038	70:0
1310	97	51	14:29:49.333	117GI105A106A4AR	7STRP	0.03902,-0.00105	Slew =12.01	2R3	4	0	3,837,039	20:0
1311	97	51	14:29:56.000	117GI105A106A4AS	7STRP	-0.039521,0.0,0,	Slew =,1.61	2R3	4	0	3,837,039	30:0
1312	97	51	14:30:03.333		DMS:	: *US-RUNUP	R7, TRACK 2, REV, TIC 346.88 +/- 1	2R3	4	0	3,837,039	41:0
1313	97	51	14:30:23.333	117GI105A106A4AT	7STRP	0.03902,-0.00105	Slew =12.01	2R3	4	0	3,837,039	71:0
1314	97	51	14:30:28.000		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC * 344.57 +/- 1	2R3	4	0	3,837,039	78:0
1315	97	51	14:30:30.000	117GI105A106A4AU	7STRP	-0.039521,0.0,0,	Slew =,1.61	2R3	4	0	3,837,039	81:0
1316	97	51	14:30:48.000		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC * 339.88 +/- 1	2R3	4	0	3,837,040	17:0
1317	97	51	14:30:57.333	117GI105A106A4AV	7STRP	0.03902,-0.00105	Slew =12.01	2R3	4	0	3,837,040	31:0
1318	97	51	14:31:04.000	117GI105A106A4AW	7STRP	-0.039521,0.0,0,	Slew =,1.61	2R3	4	0	3,837,040	41:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1319	97	51	14:31:31.333	117GI105A106A4AX	7STRP	0.03902,-0.00105	Slew =12.01	2R3	4	0	3,837,040:82:0	
1320	97	51	14:31:38.000	117GI105A106A4AY	7STRP	-0.039521,0.0,0,	Slew =,1.61	2R3	4	0	3,837,041:01:0	
1321	**97**	**51**	**14:31:41.333**	**E6INCHEMIS03-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**	
1322	97	51	14:32:05.333	117GI105A106A4AZ	7STRP	0.03902,-0.00105	Slew =12.01	2R3	4	0	3,837,041:42:0	
1323	97	51	14:32:12.000	117GI105A106A4BA	7STRP	-0.039521,0.0,0,	Slew =,1.61	2R3	4	0	3,837,041:52:0	
1324	97	51	14:32:39.333	117GI105A106A4BB	7STRP	0.03902,-0.00105	Slew =12.01	2R3	4	0	3,837,042:02:0	
1325	97	51	14:32:46.000	117GI105A106A4BC	7STRP	-0.039521,0.0,0,	Slew =,1.61	2R3	4	0	3,837,042:12:0	
1326	97	51	14:33:13.333	117GI105A106A4BD	7STRP	0.03902,-0.00105	Slew =12.01	2R3	4	0	3,837,042:53:0	
1327	97	51	14:33:20.000	117GI105A106A4BE	7STRP	-0.039521,0.0,0,	Slew =,1.61	2R3	4	0	3,837,042:63:0	
1328	97	51	14:33:47.333	117GI105A106A4BF	7STRP	0.03902,-0.00105	Slew =12.01	2R3	4	0	3,837,043:13:0	
1329	97	51	14:33:54.000	117GI105A106A4BG	7STRP	-0.039521,0.0,0,	Slew =,1.61	2R3	4	0	3,837,043:23:0	
1330	97	51	14:34:21.333	117GI105A106A4BH	7STRP	0.03902,-0.00105	Slew =12.01	2R3	4	0	3,837,043:64:0	
1331	97	51	14:34:28.000	117GI105A106A4BI	7STRP	-0.039521,0.0,0,	Slew =,1.61	2R3	4	0	3,837,043:74:0	
1332	97	51	14:34:55.333	117GI105A106A4BJ	7STRP	0.03902,-0.00105	Slew =12.01	2R3	4	0	3,837,044:24:0	
1333	97	51	14:35:02.000	117GI105A106A4BK	7STRP	-0.039521,0.0,0,	Slew =,1.61	2R3	4	0	3,837,044:34:0	
1334	97	51	14:35:29.333	117GI105A106A4BL	7STRP	0.03902,-0.00105	Slew =12.01	2R3	4	0	3,837,044:75:0	
1335	97	51	14:35:36.000	117GI105A106A4BM	7STRP	-0.039521,0.0,0,	Slew =,1.61	2R3	4	0	3,837,044:85:0	
1336	97	51	14:36:03.333	117GI105A106A4BN	7STRP	0.03902,-0.00105	Slew =12.01	2R3	4	0	3,837,045:35:0	
1337	97	51	14:36:10.000	117GI105A106A4BO	7STRP	-0.039521,0.0,0,	Slew =,1.61	2R3	4	0	3,837,045:45:0	
1338	97	51	14:36:37.333	117GI105A106A4BP	7STRP	0.03902,-0.00105	Slew =12.01	2R3	4	0	3,837,045:86:0	
1339	97	51	14:36:44.000	117GI105A106A4BQ	7STRP	-0.039521,0.0,0,	Slew =,1.61	2R3	4	0	3,837,046:05:0	
1340	97	51	14:37:11.333	117GI105A106A4BR	7STRP	0.03902,-0.00105	Slew =12.01	2R3	4	0	3,837,046:46:0	
1341	97	51	14:37:18.000	117GI105A106A4BS	7STRP	-0.039521,0.0,0,	Slew =,1.61	2R3	4	0	3,837,046:56:0	
1342	97	51	14:37:45.333	117GI105A106A4BT	7STRP	0.03902,-0.00105	Slew =12.01	2R3	4	0	3,837,047:06:0	
1343	97	51	14:37:52.000	117GI105A106A4BU	7STRP	-0.039521,0.0,0,	Slew =,1.61	2R3	4	0	3,837,047:16:0	
1344	97	51	14:38:19.333	117GI105A106A4BV	7STRP	0.03902,-0.00105	Slew =12.01	2R3	4	0	3,837,047:57:0	
1345	97	51	14:38:26.000	117GI105A106A4BW	7STRP	-0.039521,0.0,0,	Slew =,1.61	2R3	4	0	3,837,047:67:0	
1346	97	51	14:38:53.333	117GI105A106A4BX	7STRP	0.03902,-0.00105	Slew =12.01	2R3	4	0	3,837,048:17:0	
1347	97	51	14:39:00.000	117GI105A106A4BY	7STRP	-0.039521,0.0,0,	Slew =,1.61	2R3	4	0	3,837,048:27:0	
1348	97	51	14:39:27.333	117GI105A106A4BZ	7STRP	0.03902,-0.00105	Slew =12.01	2R3	4	0	3,837,048:68:0	
1349	97	51	14:39:34.000	117GI105A106A4CA	7STRP	-0.039521,0.0,0,	Slew =,1.61	2R3	4	0	3,837,048:78:0	
1350	97	51	14:40:01.333	117GI105A106A4CB	7STRP	0.03902,-0.00105	Slew =12.01	2R3	4	0	3,837,049:28:0	
1351	97	51	14:40:08.000	117GI105A106A4CC	7STRP	-0.039521,0.0,0,	Slew =,1.61	2R3	4	0	3,837,049:38:0	
1352	97	51	14:40:35.333	117GI105A106A4CD	7STRP	0.03902,-0.00105	Slew =12.01	2R3	4	0	3,837,049:79:0	
1353	97	51	14:40:42.000	117GI105A106A4CE	7STRP	-0.039521,0.0,0,	Slew =,1.61	2R3	4	0	3,837,049:89:0	
1354	97	51	14:41:09.333	117GI105A106A4CF	7STRP	0.03902,-0.00105	Slew =12.01	2R3	4	0	3,837,050:39:0	
1355	97	51	14:41:16.000	117GI105A106A4CG	7STRP	-0.039521,0.0,0,	Slew =,1.61	2R3	4	0	3,837,050:49:0	
1356	97	51	14:41:43.333	117GI105A106A4CH	7STRP	0.03902,-0.00105	Slew =12.01	2R3	4	0	3,837,050:90:0	
1357	97	51	14:41:50.000	117GI105A106A4CI	7STRP	-0.039521,0.0,0,	Slew =,1.61	2R3	4	0	3,837,051:09:0	
1358	97	51	14:42:17.333	117GI105A106A4CJ	7STRP	0.03902,-0.00105	Slew =12.01	2R3	4	0	3,837,051:50:0	
1359	97	51	14:42:24.000	117GI105A106A4CK	7STRP	-0.039521,0.0,0,	Slew =,1.61	2R3	4	0	3,837,051:60:0	
1360	97	51	14:42:51.333	117GI105A106A4CL	7STRP	0.03902,-0.00105	Slew =12.01	2R3	4	0	3,837,052:10:0	
1361	97	51	14:42:58.000	117GI105A106A4CM	7STRP	-0.039521,0.0,0,	Slew =,1.61	2R3	4	0	3,837,052:20:0	
1362	97	51	14:43:05.333		DMS:	: *US-RUNUP	R7, TRACK 2, REV, TIC 339.82 +/- 1	2R3	4	0	3,837,052:31:0	
1363	97	51	14:43:25.333	117GI105A106A4CN	7STRP	0.03902,-0.00105	Slew =12.01	2R3	4	0	3,837,052:61:0	
1364	97	51	14:43:30.000		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC * 337.51 +/- 1	2R3	4	0	3,837,052:68:0	
1365	97	51	14:43:32.000	117GI105A106A4CO	7STRP	-0.039521,0.0,0,	Slew =,1.61	2R3	4	0	3,837,052:71:0	
1366	97	51	14:43:50.000		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC * 332.82 +/- 1	2R3	4	0	3,837,053:07:0	
1367	97	51	14:43:59.333	117GI105A106A4CP	7STRP	0.03902,-0.00105	Slew =12.01	2R3	4	0	3,837,053:21:0	
1368	97	51	14:44:06.000	117GI105A106A4CQ	7STRP	-0.039521,0.0,0,	Slew =,1.61	2R3	4	0	3,837,053:31:0	
1369	97	51	14:44:33.333	117GI105A106A4CR	7STRP	0.03902,-0.00105	Slew =12.01	2R3	4	0	3,837,053:72:0	
1370	97	51	14:44:40.000	117GI105A106A4CS	7STRP	-0.039521,0.0,0,	Slew =,1.61	2R3	4	0	3,837,053:82:0	
1371	97	51	14:45:07.333	117GI105A106A4CT	7STRP	0.03902,-0.00105	Slew =12.01	2R3	4	0	3,837,054:32:0	
1372	97	51	14:45:14.000	117GI105A106A4CU	7STRP	-0.039521,0.0,0,	Slew =,1.61	2R3	4	0	3,837,054:42:0	
1373	97	51	14:45:41.333	117GI105A106A4CV	7STRP	0.03902,-0.00105	Slew =12.01	2R3	4	0	3,837,054:83:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1374	97	51	14:45:48.000	117GI105A106A4CW	7STRP	-0.039521,0.0,0,	Slew =,1.61	2R3	4	0	3,837,055:02:0	
1375	97	51	14:46:15.333	117GI105A106A4CX	7STRP	0.03902,-0.00105	Slew =12.01	2R3	4	0	3,837,055:43:0	
1376	97	51	14:46:22.000	117GI105A106A4CY	7STRP	-0.039521,0.0,0,	Slew =,1.61	2R3	4	0	3,837,055:53:0	
1377	97	51	14:46:49.333	117GI105A106A4CZ	7STRP	0.03902,-0.00105	Slew =12.01	2R3	4	0	3,837,056:03:0	
1378	97	51	14:46:56.000	117GI105A106A4DA	7STRP	-0.039521,0.0,0,	Slew =,1.61	2R3	4	0	3,837,056:13:0	
1379	97	51	14:47:23.333	117GI105A106A4DB	7STRP	0.03902,-0.00105	Slew =12.01	2R3	4	0	3,837,056:54:0	
1380	97	51	14:47:30.000	117GI105A106A4DC	7STRP	-0.039521,0.0,0,	Slew =,1.61	2R3	4	0	3,837,056:64:0	
1381	97	51	14:47:57.333	117GI105A106A4DD	7STRP	0.03902,-0.00105	Slew =12.01	2R3	4	0	3,837,057:14:0	
1382	97	51	14:48:04.000	117GI105A106A4DE	7STRP	-0.039521,0.0,0,	Slew =,1.61	2R3	4	0	3,837,057:24:0	
1383	97	51	14:48:31.333	117GI105A106A4DF	7STRP	0.03902,-0.00105	Slew =12.01	2R3	4	0	3,837,057:65:0	
1384	97	51	14:48:38.000	117GI105A106A4DG	7STRP	-0.039521,0.0,0,	Slew =,1.61	2R3	4	0	3,837,057:75:0	
1385	97	51	14:49:05.333	117GI105A106A4DH	7STRP	0.03902,-0.00105	Slew =12.01	2R3	4	0	3,837,058:25:0	
1386	97	51	14:49:12.000	117GI105A106A4DI	7STRP	-0.039521,0.0,0,	Slew =,1.61	2R3	4	0	3,837,058:35:0	
1387	97	51	14:49:39.333	117GI105A106A4DJ	7STRP	0.03902,-0.00105	Slew =12.01	2R3	4	0	3,837,058:76:0	
1388	97	51	14:49:46.000	117GI105A106A4DK	7STRP	-0.039521,0.0,0,	Slew =,1.61	2R3	4	0	3,837,058:86:0	
1389	97	51	14:50:13.333	117GI105A106A4DL	7STRP	0.03902,-0.00105	Slew =12.01	2R3	4	0	3,837,059:36:0	
1390	97	51	14:50:20.000	117GI105A106A4DM	7STRP	-0.039521,0.0,0,	Slew =,1.61	2R3	4	0	3,837,059:46:0	
1391	97	51	14:50:47.333	117GI105A106A4DN	7STRP	0.03902,-0.00105	Slew =12.01	2R3	4	0	3,837,059:87:0	
1392	97	51	14:50:54.000	117GI105A106A4DO	7STRP	-0.039521,0.0,0,	Slew =,1.61	2R3	4	0	3,837,060:06:0	
1393	97	51	14:51:21.333	117GI105A106A4DP	7STRP	0.03902,-0.00105	Slew =12.01	2R3	4	0	3,837,060:47:0	
1394	97	51	14:51:28.000	117GI105A106A4DQ	7STRP	-0.039521,0.0,0,	Slew =,1.61	2R3	4	0	3,837,060:57:0	
1395	97	51	14:51:55.333	117GI105A106A4DR	7STRP	0.03902,-0.00105	Slew =12.01	2R3	4	0	3,837,061:07:0	
1396	97	51	14:52:02.000	117GI105A106A4DS	7STRP	-0.039521,0.0,0,	Slew =,1.61	2R3	4	0	3,837,061:17:0	
1397	97	51	14:52:29.333	117GI105A106A4DT	7STRP	0.03902,-0.00105	Slew =12.01	2R3	4	0	3,837,061:58:0	
1398	97	51	14:52:36.000	117GI105A106A4DU	7STRP	-0.039521,0.0,0,	Slew =,1.61	2R3	4	0	3,837,061:68:0	
1399	97	51	14:53:03.333	117GI105A106A4DV	7STRP	0.03902,-0.00105	Slew =12.01	2R3	4	0	3,837,062:18:0	
1400	97	51	14:53:10.000	117GI105A106A4DW	7STRP	-0.039521,0.0,0,	Slew =,1.61	2R3	4	0	3,837,062:28:0	
1401	97	51	14:53:37.333	117GI105A106A4DX	7STRP	0.03902,-0.00105	Slew =12.01	2R3	4	0	3,837,062:69:0	
1402	97	51	14:53:44.000	117GI105A106A4DY	7STRP	-0.039521,0.0,0,	Slew =,1.61	2R3	4	0	3,837,062:79:0	
1403	97	51	14:54:11.333	117GI105A106A4DZ	7STRP	0.03902,-0.00105	Slew =12.01	2R3	4	0	3,837,063:29:0	
1404	97	51	14:54:18.000	117GI105A106A4EA	7STRP	-0.039521,0.0,0,	Slew =,1.61	2R3	4	0	3,837,063:39:0	
1405	97	51	14:54:45.333	117GI105A106A4EB	7STRP	0.03902,-0.00105	Slew =12.01	2R3	4	0	3,837,063:80:0	
1406	97	51	14:54:52.000	117GI105A106A4EC	7STRP	-0.039521,0.0,0,	Slew =,1.61	2R3	4	0	3,837,063:90:0	
1407	97	51	14:55:19.333	117GI105A106A4ED	7STRP	0.03902,-0.00105	Slew =12.01	2R3	4	0	3,837,064:40:0	
1408	97	51	14:55:26.000	117GI105A106A4EE	7STRP	-0.039521,0.0,0,	Slew =,1.61	2R3	4	0	3,837,064:50:0	
1409	97	51	14:55:53.333	117GI105A106A4EF	7STRP	0.03902,-0.00105	Slew =12.01	2R3	4	0	3,837,065:00:0	
1410	97	51	14:56:00.000	117GI105A106A4EG	7STRP	-0.039521,0.0,0,	Slew =,1.61	2R3	4	0	3,837,065:10:0	
1411	97	51	14:56:07.333		DMS:	: *US-RUNUP	R7, TRACK 2, REV, TIC 332.76 +/- 1	2R3	4	0	3,837,065:21:0	
1412	97	51	14:56:27.333	117GI105A106A4EH	7STRP	0.03902,-0.00105	Slew =12.01	2R3	4	0	3,837,065:51:0	
1413	97	51	14:56:32.000		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC * 330.44 +/- 1	2R3	4	0	3,837,065:58:0	
1414	97	51	14:56:34.000	117GI105A106A4EI	7STRP	-0.039521,0.0,0,	Slew =,1.61	2R3	4	0	3,837,065:61:0	
1415	97	51	14:56:52.000		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC * 325.76 +/- 1	2R3	4	0	3,837,065:88:0	
1416	97	51	14:57:01.333	117GI105A106A4EJ	7STRP	0.03902,-0.00105	Slew =12.01	2R3	4	0	3,837,066:11:0	
1417	97	51	14:57:08.000	117GI105A106A4EK	7STRP	-0.039521,0.0,0,	Slew =,1.61	2R3	4	0	3,837,066:21:0	
1418	97	51	14:57:35.333	117GI11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	3,837,066:62:0	
1419	97	51	15:03:12.666	488AQ6D	6TMSED	FILL,EL2	Sci, Eng, and D/L Chan	2R3	4	0	3,837,072:22:0	
1420	97	51	15:09:10.000		DMS:	: *US-RUNUP	R7, TRACK 2, REV, TIC 325.70 +/- 1	2R3	4	0	3,837,078:12:0	
1421	97	51	15:09:34.000		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC * 323.54 +/- 1	2R3	4	0	3,837,078:48:0	
1422	97	51	15:09:54.000		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC * 318.85 +/- 1	2R3	4	0	3,837,078:78:0	
1423	97	51	15:22:12.000		DMS:	: *US-RUNUP	R7, TRACK 2, REV, TIC 318.79 +/- 1	2R3	4	0	3,837,091:02:0	
1424	97	51	15:22:36.666		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC * 316.47 +/- 1	2R3	4	0	3,837,091:39:0	
1425	97	51	15:22:56.666		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC * 311.79 +/- 1	2R3	4	0	3,837,091:69:0	
1426	97	51	15:23:10.666	176GI6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	3,837,091:90:0	
1427	97	51	15:23:12.666		DMS:	: *US-RUNUP	R7, TRACK 2, REV, TIC 311.73 +/- 1	2R3	4	0	3,837,092:02:0	
1428	97	51	15:23:22.666		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC * 312.85 +/- 1	2R3	4	0	3,837,092:17:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
1429	97	51	15:23:30.000		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC * 311.13 +/- 1	2R3	4	0	3,837,092:28:0
1430	97	51	15:34:18.666	411JF6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	3,837,103:00:0
1431	97	51	15:34:18.666		DMS:	: *US-RUNUP	R7, TRACK 2, REV, TIC 311.07 +/- 1	2R3	4	0	3,837,103:00:0
1432	97	51	15:34:27.933		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC * 312.36 +/- 1	2R3	4	0	3,837,103:13:9
1433	97	51	15:34:28.666	411JF6B	6TMREC	BDT	7.68 KBPS BUFFER DUMP TO TAPE Record Mode	2R3	4	0	3,837,103:15:0
1434	97	51	15:36:30.000	411JF6C	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	3,837,105:15:0
1435	97	51	15:36:30.666	411JF6D	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,837,105:16:0
1436	97	51	15:36:30.666		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC * 283.60 +/- 1	2R3	4	0	3,837,105:16:0
1437	97	51	15:52:24.000	465KB6A	6DTRN	CMD,6DTRN,465KB6	DMS TRACK TURNAROUND	2R3	4	0	3,837,120:81:0
1438	**97**	**51**	**15:55:36.667**	**E6NIMSP2LD09-**		**-----START------**		**2R3**	**4**	**0**	**: :**
1439	**97**	**51**	**15:59:39.333**	**20EE6A**	**6CKSUM**	**NIMS**	**NIMS,1000,14BC**	**2R3**	**4**	**0**	**3,837,128:06:0**
1440	**97**	**51**	**16:00:40.000**	**20EE5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**2R3**	**4**	**0**	**3,837,129:06:0**
1441	**97**	**51**	**16:01:40.666**	**20EE5B**	**37MRL**		**Memory Realocate (software operates from R**	**2R3**	**4**	**0**	**3,837,130:06:0**
1442	**97**	**51**	**16:02:41.333**	**20EE6B**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**2R3**	**4**	**0**	**3,837,131:06:0**
1443	**97**	**51**	**16:03:42.000**	**20EE6C**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**2R3**	**4**	**0**	**3,837,132:06:0**
1444	97	51	16:04:37.333	165IE4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,837,132:89:0
1445	97	51	16:04:38.000	165IE4B	7SCAN	NORM,261.780998,	Check S/P Position	2R3	4	0	3,837,132:90:0
1446	**97**	**51**	**16:04:42.666**	**20EE5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**3,837,133:06:0**
1447	**97**	**51**	**16:05:43.333**	**E6NIMSP2LD09-**		**-----STOP-------**		**260**	**4**	**0**	**: :**
1448	**97**	**51**	**16:05:43.333**	**20EE5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**3,837,134:06:0**
1449	**97**	**51**	**16:06:44.000**	**E6ENSUCOMP01-**		**-----START------**		**260**	**4**	**0**	**: :**
1450	**97**	**51**	**16:06:44.000**	**20EE4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**3,837,135:06:0**
1451	**97**	**51**	**16:07:44.666**	**20EE4B**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**3,837,136:06:0**
1452	97	51	16:08:31.333	175IM422A6A	6DMSC	R806,3	DMS Control	2R3	4	0	3,837,136:76:0
1453	97	51	16:08:33.333	118IE	**SMOS**	GS		2R3	4	0	3,837,136:79:0
1454	97	51	16:08:40.000	165IE4C	7VECT		Inert vect update UTC	2R3	4	0	3,837,136:89:0
1455	97	51	16:08:40.666	165IE4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	2R3	4	0	3,837,136:90:0
1456	97	51	16:08:42.666	175IM176A6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	2R3	4	0	3,837,137:02:0
1457	97	51	16:08:43.266		DMS:	**: *RECORD**	R806, TRACK 3, FWD, TIC * 267.62 +/-	2R3	4	0	3,837,137:02:9
1458	97	51	16:08:43.333	118IE110A111A4A	7STRP	0.0018,-0.0061,2	Slew =,3.01	2R3	4	0	3,837,137:03:0
1459	97	51	16:09:00.666	118IE110A111A4B	7STRP	-0.0109,0.012401	Slew =,6.01	2R3	4	0	3,837,137:29:0
1460	97	51	16:09:09.333	118IE110A111A4C	7STRP	0.0018,-0.0061,2	Slew =,3.01	2R3	4	0	3,837,137:42:0
1461	97	51	16:09:26.666	118IE11A	**SMOS**	GE		2R3	4	0	3,837,137:68:0
1462	97	51	16:09:33.333	175IM422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,837,137:78:0
1463	97	51	16:09:33.333		DMS:	**: *RUNDOWN**	R806, TRACK 3, FWD, TIC *1499.73 +/-	2R3	4	0	3,837,137:78:0
1464	97	51	16:09:40.666	165DZ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,837,137:89:0
1465	97	51	16:09:41.333	165DZ4B	7SCAN	NORM,260.661999,	Check S/P Position	2R3	4	0	3,837,137:90:0
1466	97	51	16:11:38.666	125DS11A	NIMSINIT	GE	##### GROUP END INIT	2R3	4	0	3,837,139:84:0
1467	97	51	16:11:38.666	125DS	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	3,837,139:84:0
1468	**97**	**51**	**16:11:38.666**	**125DS4A**	**37IST**	**0,2,0,OFF,0,1,2**	**Gain State 3**	**3R3**	**4**	**0**	**3,837,139:84:0**
1469	**97**	**51**	**16:12:39.333**	**127DZ4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**3R3**	**4**	**0**	**3,837,140:84:0**
1470	97	51	16:12:39.333	127DZ	NIMSTAB	GS	%%%%% GROUP START TAB	3R3	4	0	3,837,140:84:0
1471	**97**	**51**	**16:12:40.000**	**127DZ4B**	**37ETB**	**04,C4,35,FF,FF**	**Loads wavelength edit table**	**3R3**	**4**	**0**	**3,837,140:85:0**
1472	97	51	16:12:48.000	127DZ11A	NIMSTAB	GE	%%%%% GROUP END TAB	3R3	4	0	3,837,141:06:0
1473	97	51	16:13:30.666	175DZ422A6A	6DMSC	R28,3	DMS Control	3R3	4	0	3,837,141:70:0
1474	97	51	16:13:35.333	117DZ	**CSMOS**	GS	***** GROUP START CSMOS	3R3	4	0	3,837,141:77:0
1475	97	51	16:13:41.333		DMS:	**: *RECORD**	R28, TRACK 3, FWD, TIC *1512.73 +/-	3R3	4	0	3,837,141:86:0
1476	97	51	16:13:41.333	175DZ176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	3R3	4	0	3,837,141:86:0
1477	97	51	16:13:43.333	165DZ4C	7VECT		Inert vect update UTC	3R3	4	0	3,837,141:89:0
1478	97	51	16:13:44.000	165DZ4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	3R3	4	0	3,837,141:90:0
1479	97	51	16:13:44.666	117DZ105A106A4A	**7STRP**	**-0.014501,0.0,0,**	**Slew =,0.03**	3R3	4	0	3,837,142:00:0
1480	**97**	**51**	**16:13:44.779**	**E6ENSUCOMP01-**	**NIMPBK**	**301DX**	**EUROPA SURFACE COMPOSITION**	**3R3**	**4**	**0**	**: :**
1481	**97**	**51**	**16:17:47.445**	**E6ENSUCOMP01-**	**NIMPBK**	**301EF**	**EUROPA SURFACE COMPOSITION**	**3R3**	**4**	**0**	**: :**
1482	**97**	**51**	**16:17:56.112**	**E6ENSUCOMP01-**	**DESELC**	**300DX**	**EUROPA SURFACE COMPOSITION**	**3R3**	**4**	**0**	**: :**
1483	**97**	**51**	**16:19:52.667**	**E6ENSUCOMP01-**		**-----STOP-------**		**3R3**	**4**	**0**	**: :**

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1484	**97**	**51**	**16:21:48.112**	**E6ENSUCOMP01-**	**DESELC**	**300EF**	**EUROPA SURFACE COMPOSITION**	**3R3**	**4**	**0**	**: :**	
1485	97	51	16:21:50.000	117DZ11A	**CSMOS**	GE	***** GROUP END CSMOS	3R3	4	0	3,837,150:00:0	
1486	97	51	16:21:51.333	175DZ422A6B	6DMSC	RDY,0	DMS Control Tape stop	3R3	4	0	3,837,150:02:0	
1487	97	51	16:21:51.333		DMS:	**: *RUNDOWN**	R28, TRACK 3, FWD, TIC *1943.40 +/-	3R3	4	0	3,837,150:02:0	
1488	97	51	16:22:49.333	165IP4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	3R3	4	0	3,837,150:89:0	
1489	97	51	16:22:50.000	165IP4B	7SCAN	NORM,258.514999,	Check S/P Position	3R3	4	0	3,837,150:90:0	
1490	**97**	**51**	**16:24:56.000**	**E6ENSUCOMP02-**		**-----START------**		**3R3**	**4**	**0**	**: :**	
1491	97	51	16:25:56.666	117IP	**CSMOS**	GS	***** GROUP START CSMOS	3R3	4	0	3,837,154:06:0	
1492	97	51	16:26:42.000	175IN422A6A	6DMSC	R806,3	DMS Control	3R3	4	0	3,837,154:74:0	
1493	97	51	16:26:50.000	165IP4C	7VECT		Inert vect update UTC	3R3	4	0	3,837,154:86:0	
1494	97	51	16:26:50.666	165IP4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	3R3	4	0	3,837,154:87:0	
1495	97	51	16:26:51.333	117IP105A106A4A	7STRP	0.011501,0.0,0,0	Slew =,3.16	3R3	4	0	3,837,154:88:0	
1496	97	51	16:26:53.333	175IN176A6A	6TMREC	AI8	806.4 KBPS SSI RECORD Record Mode Change	3R3	4	0	3,837,155:00:0	
1497	97	51	16:26:53.933		DMS:	**: *RECORD**	R806, TRACK 3, FWD, TIC *2009.70 +/-	3R3	4	0	3,837,155:00:9	
1498	97	51	16:26:58.000		DMS:	**: *RUNDOWN**	R806, TRACK 3, FWD, TIC *2109.77 +/-	3R3	4	0	3,837,155:07:0	
1499	97	51	16:26:58.000	175IN422A6B	6DMSC	RDY,0	DMS Control Tape stop	3R3	4	0	3,837,155:07:0	
1500	97	51	16:26:58.666	117IP105A106A4B	7STRP	-0.011501,-0.007	Slew =0,5.0	3R3	4	0	3,837,155:08:0	
1501	97	51	16:27:05.333	175IO422A6A	6DMSC	R806,3	DMS Control	3R3	4	0	3,837,155:18:0	
1502	97	51	16:27:14.666	117IP105A106A4C	7STRP	0.011501,0.0,0,0	Slew =,3.16	3R3	4	0	3,837,155:32:0	
1503	97	51	16:27:16.666	175IO176A6A	6TMREC	AI8	806.4 KBPS SSI RECORD Record Mode Change	3R3	4	0	3,837,155:35:0	
1504	97	51	16:27:17.266		DMS:	**: *RECORD**	R806, TRACK 3, FWD, TIC *2187.27 +/- 1	3R3	4	0	3,837,155:35:9	
1505	97	51	16:27:21.333	175IO422A6B	6DMSC	RDY,0	DMS Control Tape stop	3R3	4	0	3,837,155:42:0	
1506	97	51	16:27:21.333		DMS:	**: *RUNDOWN**	R806, TRACK 3, FWD, TIC *2287.35 +/- 1	3R3	4	0	3,837,155:42:0	
1507	97	51	16:27:22.000	117IP11A	**CSMOS**	GE	***** GROUP END CSMOS	3R3	4	0	3,837,155:43:0	
1508	97	51	16:27:52.666	165EA4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	3R3	4	0	3,837,155:89:0	
1509	97	51	16:27:53.333	165EA4B	7SCAN	NORM,249.186998,	Check S/P Position	3R3	4	0	3,837,155:90:0	
1510	97	51	16:30:51.333	127EA	NIMSTAB	GS	%%%%% GROUP START TAB	3R3	4	0	3,837,158:84:0	
1511	**97**	**51**	**16:30:51.333**	**127EA4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**3R3**	**4**	**0**	**3,837,158:84:0**	
1512	**97**	**51**	**16:30:52.000**	**127EA4B**	**37ETB**	**04,C4,35,FF,FF**	**Loads wavelength edit table**	**3R3**	**4**	**0**	**3,837,158:85:0**	
1513	97	51	16:31:00.000	127EA11A	NIMSTAB	GE	%%%%% GROUP END TAB	3R3	4	0	3,837,159:06:0	
1514	97	51	16:31:42.666	175EA422A6A	6DMSC	R28,3	DMS Control	3R3	4	0	3,837,159:70:0	
1515	97	51	16:31:47.333	117EA	**CSMOS**	GS	***** GROUP START CSMOS	3R3	4	0	3,837,159:77:0	
1516	97	51	16:31:53.333	175EA176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	3R3	4	0	3,837,159:86:0	
1517	97	51	16:31:53.333		DMS:	**: *RECORD**	R28, TRACK 3, FWD, TIC *2300.35 +/- 1	3R3	4	0	3,837,159:86:0	
1518	97	51	16:31:55.333	165EA4C	7VECT		Inert vect update UTC	3R3	4	0	3,837,159:89:0	
1519	97	51	16:31:56.000	165EA4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	3R3	4	0	3,837,159:90:0	
1520	97	51	16:31:56.666	117EA105A106A4A	**7STRP**	**-0.014501,0.0,0,**	**Slew =,0.03**	3R3	4	0	3,837,160:00:0	
1521	**97**	**51**	**16:31:56.779**	**E6ENSUCOMP02-**	**NIMPBK**	**301DY**	**EUROPA SURFACE COMPOSITION**	**3R3**	**4**	**0**	**: :**	
1522	**97**	**51**	**16:31:56.779**	**E6ENSUCOMP02-**	**NIMPBK**	**301DR**	**EUROPA SURFACE COMPOSITION**	**3R3**	**4**	**0**	**: :**	
1523	97	51	16:36:57.333	282NA431A6A	6RCSEL	DDSNCG,PLSSEL,EP	Record Select (DDS onl	3R3	4	0	3,837,164:87:0	
1524	**97**	**51**	**16:37:00.000**	**E6ENSUCOMP02-**		**-----STOP-------**		**3R3**	**4**	**0**	**: :**	
1525	97	51	16:37:00.000	431MA6A	6RCSEL	DDSSEL,PLSNCG,EP	Record Select (DDS onl	3R3	4	0	3,837,165:00:0	
1526	**97**	**51**	**16:37:03.999**	**E6INRTIMON01-**		**-----START------**		**3R3**	**4**	**0**	**: :**	
1527	97	51	16:39:00.666	428PH6A	6RCCLR			3R3	4	0	3,837,166:90:0	
1528	97	51	16:39:01.333	428PH6B	6RCSET		8	3R3	4	0	3,837,167:00:0	
1529	**97**	**51**	**16:39:57.333**	**125DT4A**	**37IST**	**0,0,0,OFF,0,1,0**	**Gain State 2**	**2R3**	**4**	**0**	**3,837,167:84:0**	
1530	97	51	16:39:57.333	125DT	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	3,837,167:84:0	
1531	**97**	**51**	**16:40:01.444**	**E6ENSUCOMP02-**	**DESELC**	**300DR**	**EUROPA SURFACE COMPOSITION**	**2R3**	**4**	**0**	**: :**	
1532	**97**	**51**	**16:40:01.444**	**E6ENSUCOMP02-**	**DESELC**	**300DY**	**EUROPA SURFACE COMPOSITION**	**2R3**	**4**	**0**	**: :**	
1533	97	51	16:40:02.000	175TB422A6A	6DMSC	R7,3	DMS Control	2R3	4	0	3,837,168:00:0	
1534	97	51	16:40:02.000		DMS:	**: *RUNDOWN**	R28, TRACK 3, FWD, TIC *2729.84 +/- 1	2R3	4	0	3,837,168:00:0	
1535	97	51	16:40:02.000	117EA11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	3,837,168:00:0	
1536	97	51	16:40:03.200		DMS:	: *RUNUP	R7, TRACK 3, FWD, TIC *2730.14 +/- 1	2R3	4	0	3,837,168:01:8	
1537	97	51	16:40:04.600		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *2730.26 +/- 1	2R3	4	0	3,837,168:03:9	
1538	97	51	16:40:04.666	175TB176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	2R3	4	0	3,837,168:04:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1539	97	51	16:40:58.000	125DT11A	NIMSINIT	GE	##### GROUP END INIT	2R3	4	0	3,837,168:84:0	
1540	**97**	**51**	**16:40:58.000**	**125DT4B**	**37MB**	**1C,07,0,0,0,0**	**Selects mirror (spatial) edit table**	**2R3**	**4**	**0**	**3,837,168:84:0**	
1541	97	51	16:41:01.333	165FO4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,837,168:89:0	
1542	97	51	16:41:02.000	165FO4B	7SCAN	NORM,278.431,-24	Check S/P Position	2R3	4	0	3,837,168:90:0	
1543	**97**	**51**	**16:41:43.333**	**E6INRTIMON01-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**	
1544	**97**	**51**	**16:41:58.666**	**127DT4A**	**37IOP**	**7,21**	**Fixed Map, Grating Start Position =21**	**2R7**	**4**	**21**	**3,837,169:84:0**	
1545	97	51	16:41:58.666	127DT	NIMSTAB	GS	%%%%% GROUP START TAB	2R7	4	21	3,837,169:84:0	
1546	**97**	**51**	**16:41:59.333**	**127DT4B**	**37ETB**	**07,C7,19,29,95,0**	**Loads wavelength edit table**	**2R7**	**4**	**21**	**3,837,169:85:0**	
1547	97	51	16:42:07.333	127DT11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R7	4	21	3,837,170:06:0	
1548	**97**	**51**	**16:42:07.333**	**E6ENBRTPLN01+**		**-----START------**		**2R7**	**4**	**21**	**: :**	
1549	**97**	**51**	**16:42:23.333**	**432DJ6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**	**NIMS R/T SELECT**	**2R7**	**4**	**21**	**3,837,170:30:0**	
1550	97	51	16:42:54.666	117FO	**CSMOS**	GS	***** GROUP START CSMOS	2R7	4	21	3,837,170:77:0	
1551	97	51	16:43:04.000	117FO105A106A4A	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	2R7	4	21	3,837,171:00:0	
1552	97	51	16:43:09.333	117FO11A	**CSMOS**	GE	***** GROUP END CSMOS	2R7	4	21	3,837,171:08:0	
1553	**97**	**51**	**16:43:22.666**	**432DK6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**2R7**	**4**	**21**	**3,837,171:28:0**	
1554	97	51	16:43:32.666	428PA6A	6RCCLR			2R7	4	21	3,837,171:43:0	
1555	97	51	16:43:33.333	428PA6B	6RCSET	14		2R7	4	21	3,837,171:44:0	
1556	**97**	**51**	**16:44:00.000**	**125DU4A**	**37MB**	**0,0,0,0,0,0**	**Selects mirror (spatial) edit table**	**2R7**	**4**	**21**	**3,837,171:84:0**	
1557	**97**	**51**	**16:44:00.000**	**125DW4A**	**37IST**	**0,2,0,OFF,0,1,0**	**Gain State 2**	**2R7**	**4**	**21**	**3,837,171:84:0**	
1558	97	51	16:44:00.000	125DU11A	NIMSINIT	GE	##### GROUP END INIT	2R7	4	21	3,837,171:84:0	
1559	97	51	16:44:00.000	125DU	NIMSINIT	GS	##### GROUP START INIT	2R7	4	21	3,837,171:84:0	
1560	97	51	16:44:00.000	125DW	NIMSINIT	GS	##### GROUP START INIT	2R7	4	21	3,837,171:84:0	
1561	97	51	16:44:00.000	125DW11A	NIMSINIT	GE	##### GROUP END INIT	2R7	4	21	3,837,171:84:0	
1562	**97**	**51**	**16:45:00.666**	**127DW4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**3,837,172:84:0**	
1563	97	51	16:45:00.666	127DW	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	3,837,172:84:0	
1564	**97**	**51**	**16:45:01.333**	**127DW4B**	**37ETB**	**04,C4,35,FF,FF**	**Loads wavelength edit table**	**2R3**	**4**	**0**	**3,837,172:85:0**	
1565	97	51	16:45:04.000	165IR4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,837,172:89:0	
1566	97	51	16:45:04.666	165IR4B	7SCAN	NORM,253.82,-14.	Check S/P Position	2R3	4	0	3,837,172:90:0	
1567	97	51	16:45:09.333	127DW11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	3,837,173:06:0	
1568	**97**	**51**	**16:45:09.333**	**E6ENBRTPLN01+**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**	
1569	97	51	16:46:46.666	488AQ6E	6TMSED	FILL,EL3	Sci, Eng, and D/L Chan	2R3	4	0	3,837,174:61:0	
1570	97	51	16:46:58.666	118IR	**SMOS**	GS		2R3	4	0	3,837,174:79:0	
1571	97	51	16:47:02.000		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *2828.09 +/- 1	2R3	4	0	3,837,174:84:0	
1572	97	51	16:47:02.000	175IP422A6A	6DMSC	R806,3	DMS Control	2R3	4	0	3,837,174:84:0	
1573	97	51	16:47:03.200		DMS:	: *RUNUP	R806, TRACK 3, FWD, TIC *2828.15 +/- 1	2R3	4	0	3,837,174:85:8	
1574	97	51	16:47:05.333	165IR4C	7VECT		Inert vect update UTC	2R3	4	0	3,837,174:89:0	
1575	97	51	16:47:06.000	165IR4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	2R3	4	0	3,837,174:90:0	
1576	97	51	16:47:08.000	175IP176A6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	2R3	4	0	3,837,175:02:0	
1577	97	51	16:47:08.466		DMS:	**: *RECORD**	R806, TRACK 3, FWD, TIC *2894.15 +/- 1	2R3	4	0	3,837,175:02:7	
1578	97	51	16:47:08.666	118IR110A111A4A	7STRP	-0.0073,0.0,26,0	Slew =,3.01	2R3	4	0	3,837,175:03:0	
1579	**97**	**51**	**16:47:08.778**	**E6ENBRTPLN01+**	**NIMPBK**	**301DZ**	**NIMS RIDE-ALONG OBSERVATION WITH**	**2R3**	**4**	**0**	**: :**	
1580	97	51	16:47:24.000	428PB6A	6RCCLR			2R3	4	0	3,837,175:26:0	
1581	97	51	16:47:24.666	428PB6B	6RCSET	11		2R3	4	0	3,837,175:27:0	
1582	97	51	16:47:34.666	118IR11A	**SMOS**	GE		2R3	4	0	3,837,175:42:0	
1583	**97**	**51**	**16:47:40.778**	**E6ENBRTPLN01+**	**DESELC**	**300DZ**	**NIMS RIDE-ALONG OBSERVATION WITH**	**2R3**	**4**	**0**	**: :**	
1584	97	51	16:47:41.333		DMS:	**: *RUNDOWN**	R806, TRACK 3, FWD, TIC *3702.98 +/- 1	2R3	4	0	3,837,175:52:0	
1585	97	51	16:47:41.333	175TC422A6A	6DMSC	R7,3	DMS Control	2R3	4	0	3,837,175:52:0	
1586	97	51	16:47:44.066		DMS:	: *RUNUP	R7, TRACK 3, FWD, TIC *3714.48 +/- 1	2R3	4	0	3,837,175:56:1	
1587	97	51	16:47:45.333	175TC176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	2R3	4	0	3,837,175:58:0	
1588	97	51	16:47:45.466		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *3714.60 +/- 1	2R3	4	0	3,837,175:58:2	
1589	97	51	16:48:56.000	165GJ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,837,176:73:0	
1590	97	51	16:48:56.666	165GJ4B	7SCAN	NORM,242.143,-22	Check S/P Position	2R3	4	0	3,837,176:74:0	
1591	97	51	16:49:11.333	117GJ	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	3,837,177:05:0	
1592	97	51	16:49:19.333	165GJ4C	7VECT		Inert vect update UTC	2R3	4	0	3,837,177:17:0	
1593	97	51	16:49:20.000	165GJ4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	2R3	4	0	3,837,177:18:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1594	97	51	16:49:20.666	117GJ105A106A4A	7STRP	0.0,-0.0035,0,0,	Slew =,0.45	2R3	4	0	3,837,177:19:0	
1595	97	51	16:49:33.333	117GJ105A106A4B	7STRP	0.0022,0.0035,0,	Slew =12.01	2R3	4	0	3,837,177:38:0	
1596	97	51	16:49:44.000	117GJ105A106A4C	7STRP	0.0,-0.0035,0,0,	Slew =,0.45	2R3	4	0	3,837,177:54:0	
1597	97	51	16:49:56.666	117GJ105A106A4D	7STRP	0.0022,0.0035,0,	Slew =12.01	2R3	4	0	3,837,177:73:0	
1598	97	51	16:50:07.333	117GJ105A106A4E	7STRP	0.0,-0.0035,0,0,	Slew =,0.45	2R3	4	0	3,837,177:89:0	
1599	97	51	16:50:20.000	117GJ105A106A4F	7STRP	0.0022,0.0035,0,	Slew =12.01	2R3	4	0	3,837,178:17:0	
1600	97	51	16:50:30.666	117GJ105A106A4G	7STRP	0.0,-0.0035,0,0,	Slew =,0.45	2R3	4	0	3,837,178:33:0	
1601	97	51	16:50:43.333	117GJ105A106A4H	7STRP	0.0022,0.0035,0,	Slew =12.01	2R3	4	0	3,837,178:52:0	
1602	97	51	16:50:54.000	117GJ105A106A4I	7STRP	0.0,-0.0035,0,0,	Slew =,0.45	2R3	4	0	3,837,178:68:0	
1603	97	51	16:51:06.666	117GJ105A106A4J	7STRP	0.0022,0.0035,0,	Slew =12.01	2R3	4	0	3,837,178:87:0	
1604	97	51	16:51:17.333	117GJ105A106A4K	7STRP	0.0,-0.0035,0,0,	Slew =,0.45	2R3	4	0	3,837,179:12:0	
1605	97	51	16:51:25.333	428PC6A	6RCCLR			2R3	4	0	3,837,179:24:0	
1606	97	51	16:51:26.000	428PC6B	6RCSET	14		2R3	4	0	3,837,179:25:0	
1607	97	51	16:51:30.000	117GJ105A106A4L	7STRP	0.0022,0.0035,0,	Slew =12.01	2R3	4	0	3,837,179:31:0	
1608	97	51	16:51:40.666	117GJ105A106A4M	7STRP	0.0,-0.0035,0,0,	Slew =,0.45	2R3	4	0	3,837,179:47:0	
1609	97	51	16:51:53.333	117GJ105A106A4N	7STRP	0.0022,0.0035,0,	Slew =12.01	2R3	4	0	3,837,179:66:0	
1610	97	51	16:52:04.000	117GJ105A106A4O	7STRP	0.0,-0.0035,0,0,	Slew =,0.45	2R3	4	0	3,837,179:82:0	
1611	97	51	16:52:16.666	117GJ105A106A4P	7STRP	0.0022,0.0035,0,	Slew =12.01	2R3	4	0	3,837,180:10:0	
1612	97	51	16:52:27.333	117GJ105A106A4Q	7STRP	0.0,-0.0035,0,0,	Slew =,0.45	2R3	4	0	3,837,180:26:0	
1613	97	51	16:52:40.000	117GJ105A106A4R	7STRP	0.0022,0.0035,0,	Slew =12.01	2R3	4	0	3,837,180:45:0	
1614	97	51	16:52:50.666	117GJ105A106A4S	7STRP	0.0,-0.0035,0,0,	Slew =,0.45	2R3	4	0	3,837,180:61:0	
1615	97	51	16:53:03.333	117GJ105A106A4T	7STRP	0.0022,0.0035,0,	Slew =12.01	2R3	4	0	3,837,180:80:0	
1616	97	51	16:53:14.000	117GJ105A106A4U	7STRP	0.0,-0.0035,0,0,	Slew =,0.45	2R3	4	0	3,837,181:05:0	
1617	97	51	16:53:26.666	117GJ105A106A4V	7STRP	0.0022,0.0035,0,	Slew =12.01	2R3	4	0	3,837,181:24:0	
1618	97	51	16:53:37.333	117GJ105A106A4W	7STRP	0.0,-0.0035,0,0,	Slew =,0.45	2R3	4	0	3,837,181:40:0	
1619	97	51	16:53:50.000	117GJ105A106A4X	7STRP	0.0022,0.0035,0,	Slew =12.01	2R3	4	0	3,837,181:59:0	
1620	97	51	16:54:00.666	117GJ105A106A4Y	7STRP	0.0,-0.0035,0,0,	Slew =,0.45	2R3	4	0	3,837,181:75:0	
1621	97	51	16:54:13.333	117GJ105A106A4Z	7STRP	0.0022,0.0035,0,	Slew =12.01	2R3	4	0	3,837,182:03:0	
1622	**97**	**51**	**16:54:15.333**	**E6ENBRTPLN02+**		**-----START------**		**2R3**	**4**	**0**	**: :**	
1623	97	51	16:54:15.333	117IS	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	3,837,182:06:0	
1624	97	51	16:54:24.000	117GJ105A106A4AA	7STRP	0.0,-0.0035,0,0,	Slew =,0.45	2R3	4	0	3,837,182:19:0	
1625	97	51	16:54:36.666	117GJ11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	3,837,182:38:0	
1626	97	51	16:54:42.000	165IS4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,837,182:46:0	
1627	97	51	16:54:42.666	165IS4B	7SCAN	NORM,238.818998,	Check S/P Position	2R3	4	0	3,837,182:47:0	
1628	97	51	16:55:06.000		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *3817.85 +/- 1	2R3	4	0	3,837,182:82:0	
1629	97	51	16:55:06.000	175IQ422A6A	6DMSC	R806,3	DMS Control	2R3	4	0	3,837,182:82:0	
1630	97	51	16:55:07.200		DMS:	: *RUNUP	R806, TRACK 3, FWD, TIC *3817.91 +/- 1	2R3	4	0	3,837,182:83:8	
1631	97	51	16:55:08.666	165IS4C	7VECT		Inert vect update UTC	2R3	4	0	3,837,182:86:0	
1632	97	51	16:55:09.333	165IS4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	2R3	4	0	3,837,182:87:0	
1633	97	51	16:55:10.000	117IS105A106A4A	7STRP	-0.043027,0.0,0,	Slew =0,3.1	2R3	4	0	3,837,182:88:0	
1634	97	51	16:55:12.000	175IQ176A6A	6TMREC	AI8	806.4 KBPS SSI RECORD Record Mode Change	2R3	4	0	3,837,183:00:0	
1635	97	51	16:55:12.466		DMS:	**: *RECORD**	R806, TRACK 3, FWD, TIC *3883.91 +/- 2	2R3	4	0	3,837,183:00:7	
1636	97	51	16:55:18.666	428PD6A	6RCCLR			2R3	4	0	3,837,183:10:0	
1637	97	51	16:55:19.333	428PD6B	6RCSET	11		2R3	4	0	3,837,183:11:0	
1638	97	51	16:55:26.000	175TD422A6A	6DMSC	R7,3	DMS Control	2R3	4	0	3,837,183:21:0	
1639	97	51	16:55:26.000		DMS:	**: *RUNDOWN**	R806, TRACK 3, FWD, TIC *4216.96 +/- 2	2R3	4	0	3,837,183:21:0	
1640	97	51	16:55:28.733		DMS:	: *RUNUP	R7, TRACK 3, FWD, TIC *4228.46 +/- 2	2R3	4	0	3,837,183:25:1	
1641	97	51	16:55:30.000	175TD176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	2R3	4	0	3,837,183:27:0	
1642	97	51	16:55:30.133		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *4228.58 +/- 2	2R3	4	0	3,837,183:27:2	
1643	97	51	16:55:31.333	117IS11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	3,837,183:29:0	
1644	**97**	**51**	**16:56:47.333**	**E6ENBRTPLN02+**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**	
1645	97	51	16:56:49.333	428PE6A	6RCCLR			2R3	4	0	3,837,184:55:0	
1646	97	51	16:56:50.000	428PE6B	6RCSET	14		2R3	4	0	3,837,184:56:0	
1647	97	51	16:57:12.000	165IT4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,837,184:89:0	
1648	97	51	16:57:12.666	165IT4B	7SCAN	NORM,233.582998,	Check S/P Position	2R3	4	0	3,837,184:90:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1649	97	51	16:58:06.000	118IT	**SMOS**	GS		2R3	4	0	3,837,185	79:0
1650	97	51	16:58:09.333		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *4265.89 +/- 2	2R3	4	0	3,837,185	84:0
1651	97	51	16:58:09.333	175IR422A6A	6DMSC	R806,3	DMS Control	2R3	4	0	3,837,185	84:0
1652	97	51	16:58:10.533		DMS:	: *RUNUP	R806, TRACK 3, FWD, TIC *4265.95 +/- 2	2R3	4	0	3,837,185	85:8
1653	97	51	16:58:12.666	165IT4C	7VECT		Inert vect update UTC	2R3	4	0	3,837,185	89:0
1654	97	51	16:58:13.333	165IT4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	2R3	4	0	3,837,185	90:0
1655	97	51	16:58:15.333	175IR176A6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	2R3	4	0	3,837,186	02:0
1656	97	51	16:58:15.800		DMS:	**: *RECORD**	R806, TRACK 3, FWD, TIC *4331.95 +/- 2	2R3	4	0	3,837,186	02:7
1657	97	51	16:58:16.000	118IT110A111A4A	7STRP	0.0,-0.0061,26,0	Slew =,3.01	2R3	4	0	3,837,186	03:0
1658	97	51	16:58:33.333	118IT110A111A4B	7STRP	0.0073,0.012401,	Slew =,6.01	2R3	4	0	3,837,186	29:0
1659	97	51	16:58:36.000	428PF6A	6RCCLR			2R3	4	0	3,837,186	33:0
1660	97	51	16:58:36.666	428PF6B	6RCSET	11		2R3	4	0	3,837,186	34:0
1661	97	51	16:58:42.000	118IT110A111A4C	7STRP	0.0,-0.0061,26,0	Slew =,3.01	2R3	4	0	3,837,186	42:0
1662	97	51	16:58:57.333		DMS:	**: *RUNDOWN**	R806, TRACK 3, FWD, TIC *5354.06 +/- 2	2R3	4	0	3,837,186	65:0
1663	97	51	16:58:57.333	175TE422A6A	6DMSC	R7,3	DMS Control	2R3	4	0	3,837,186	65:0
1664	97	51	16:58:59.333	118IT11A	**SMOS**	GE		2R3	4	0	3,837,186	68:0
1665	97	51	16:59:00.066		DMS:	: *RUNUP	R7, TRACK 3, FWD, TIC *5365.56 +/- 2	2R3	4	0	3,837,186	69:1
1666	97	51	16:59:01.333	175TE176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	2R3	4	0	3,837,186	71:0
1667	97	51	16:59:01.466		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *5365.68 +/- 2	2R3	4	0	3,837,186	71:2
1668	97	51	16:59:56.666	165GK4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,837,187	63:0
1669	97	51	16:59:57.333	165GK4B	7SCAN	NORM,189.289999,	Check S/P Position	2R3	4	0	3,837,187	64:0
1670	97	51	17:00:30.666	117GK	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	3,837,188	23:0
1671	97	51	17:00:38.666	165GK4C	7VECT		Inert vect update UTC	2R3	4	0	3,837,188	35:0
1672	97	51	17:00:39.333	165GK4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	2R3	4	0	3,837,188	36:0
1673	97	51	17:00:40.000	117GK105A106A4A	7STRP	0.028708,0.0,0,0	Slew =,0.45	2R3	4	0	3,837,188	37:0
1674	97	51	17:01:47.333	117GK105A106A4B	7STRP	-0.026006,-0.001	Slew =12.01	2R3	4	0	3,837,189	47:0
1675	97	51	17:01:54.000	117GK105A106A4C	7STRP	0.028708,0.0,0,0	Slew =,0.45	2R3	4	0	3,837,189	57:0
1676	97	51	17:03:01.333	117GK11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	3,837,190	67:0
1677	97	51	17:06:18.000	165GL4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,837,193	89:0
1678	97	51	17:06:18.666	165GL4B	7SCAN	NORM,124.948,52.	Check S/P Position	2R3	4	0	3,837,193	90:0
1679	97	51	17:10:12.666	117GL	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	3,837,197	77:0
1680	97	51	17:10:22.000	117GL105A106A4A	7STRP	-0.038018,0.0400	Slew =,0.83	2R3	4	0	3,837,198	00:0
1681	97	51	17:11:22.666	428PG6A	6RCCLR			2R3	4	0	3,837,199	00:0
1682	97	51	17:12:59.333	117GL105A106A4B	7STRP	-0.038018,0.0400	Slew =,0.83	2R3	4	0	3,837,200	54:0
1683	97	51	17:15:36.666	117GL105A106A4C	7STRP	-0.038018,0.0400	Slew =,0.83	2R3	4	0	3,837,203	17:0
1684	97	51	17:18:14.000	117GL105A106A4D	7STRP	-0.038018,0.0400	Slew =,0.83	2R3	4	0	3,837,205	71:0
1685	97	51	17:20:51.333	117GL105A106A4E	7STRP	-0.038018,0.0400	Slew =,0.83	2R3	4	0	3,837,208	34:0
1686	97	51	17:22:28.000	432MC431A6A	6RCDSL	DDSDSL,PLSNCG,EP	Record Deselect (DDS o	2R3	4	0	3,837,209	88:0
1687	97	51	17:22:28.666	432MC6A	6RTSL1		R/T Select of DDS and	2R3	4	0	3,837,209	89:0
1688	97	51	17:22:30.000	432OD431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	2R3	4	0	3,837,210	00:0
1689	97	51	17:22:30.666	432OD6A	6RTSL1		R/T Select of DDS and	2R3	4	0	3,837,210	01:0
1690	97	51	17:22:32.000	175TE422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,837,210	03:0
1691	97	51	17:22:32.000		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *5696.27 +/- 2	2R3	4	0	3,837,210	03:0
1692	97	51	17:22:38.000	282NB431A6A	6RCDSL	DDSNCG,PLSDSL,EP	Record Deselect (DDS o	2R3	4	0	3,837,210	12:0
1693	97	51	17:23:26.666	282NB432A431A6A	6RCDSL	DDSNCG,PLSDSL,EP	Record Deselect (DDS o	2R3	4	0	3,837,210	85:0
1694	97	51	17:23:27.333	282NB432A6A	6RTSL1		R/T Select of DDS and	2R3	4	0	3,837,210	86:0
1695	97	51	17:23:28.666	117GL11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	3,837,210	88:0
1696	97	51	17:36:38.000	165GM4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,837,223	89:0
1697	97	51	17:36:38.666	165GM4B	7SCAN	NORM,99.577,26.0	Check S/P Position	2R3	4	0	3,837,223	90:0
1698	97	51	17:40:32.666	117GM	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	3,837,227	77:0
1699	97	51	17:40:42.000	176GM6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R3	4	0	3,837,228	00:0
1700	97	51	17:40:42.000	117GM105A106A4A	7STRP	0.0,-0.006,0,0,0	Slew =,0.66	2R3	4	0	3,837,228	00:0
1701	97	51	17:41:04.000	117GM11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	3,837,228	33:0
1702	97	51	17:41:15.333	176GM6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	3,837,228	50:0
1703	97	51	17:41:27.333		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *5696.91 +/- 2	2R3	4	0	3,837,228	68:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
1704	97	51	17:41:34.666		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *5698.63 +/- 2	2R3	4	0	3,837,228:79:0
1705	**97**	**51**	**17:42:47.333**	**E6ENSEAICE01-**		**-----START------**		**2R3**	**4**	**0**	**: :**
1706	97	51	17:47:45.333	165FM4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,837,234:89:0
1707	97	51	17:47:46.000	165FM4B	7SCAN	NORM,94.238,25.6	Check S/P Position	2R3	4	0	3,837,234:90:0
1708	97	51	17:49:43.333	125FN11A	NIMSINIT	GE	##### GROUP END INIT	2R3	4	0	3,837,236:84:0
1709	97	51	17:49:43.333	125FN	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	3,837,236:84:0
1710	**97**	**51**	**17:49:43.333**	**125FN4A**	**37IST**	**0,2,0,OFF,0,1,2**	**Gain State 3**	**3R3**	**4**	**0**	**3,837,236:84:0**
1711	97	51	17:50:44.000	127FN	NIMSTAB	GS	%%%%% GROUP START TAB	3R3	4	0	3,837,237:84:0
1712	**97**	**51**	**17:50:44.000**	**127FN4A**	**37IOP**	**7,0**	**Fixed Map, Grating Start Position =00**	**3R7**	**4**	**0**	**3,837,237:84:0**
1713	**97**	**51**	**17:50:44.666**	**127FN4B**	**37ETB**	**07,C7,19,FD,C0,0**	**Loads wavelength edit table**	**3R7**	**4**	**0**	**3,837,237:85:0**
1714	97	51	17:50:52.666	127FN11A	NIMSTAB	GE	%%%%% GROUP END TAB	3R7	4	0	3,837,238:06:0
1715	97	51	17:51:38.000	175FM422A6A	6DMSC	R7,3	DMS Control	3R7	4	0	3,837,238:74:0
1716	97	51	17:51:40.000	117FM	**CSMOS**	GS	***** GROUP START CSMOS	3R7	4	0	3,837,238:77:0
1717	97	51	17:51:46.000	175FM176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	3R7	4	0	3,837,238:86:0
1718	97	51	17:51:46.066		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *5698.81 +/- 2	3R7	4	0	3,837,238:86:1
1719	97	51	17:51:49.333	117FM105A106A4A	7STRP	-0.014501,0.0,0,	Slew =,0.76	3R7	4	0	3,837,239:00:0
1720	**97**	**51**	**17:51:49.442**	**E6ENSEAICE01-**	**NIMPBK**	**301EB**	**EUROPA HEXANGONAL ICE**	**3R7**	**4**	**0**	**: :**
1721	97	51	17:52:11.333	117FM105A106A4B	7STRP	0.016602,0.0,0,0	Slew =12.01	3R7	4	0	3,837,239:33:0
1722	97	51	17:52:16.666	117FM105A106A4C	7STRP	-0.014501,0.0,0,	Slew =,0.76	3R7	4	0	3,837,239:41:0
1723	97	51	17:52:38.666	117FM105A106A4D	7STRP	0.016602,0.0,0,0	Slew =12.01	3R7	4	0	3,837,239:74:0
1724	97	51	17:52:44.000	117FM105A106A4E	7STRP	-0.014501,0.0,0,	Slew =,0.76	3R7	4	0	3,837,239:82:0
1725	**97**	**51**	**17:52:52.776**	**E6ENSEAICE01-**	**DESELC**	**300EB**	**EUROPA HEXANGONAL ICE**	**3R7**	**4**	**0**	**: :**
1726	97	51	17:53:06.000	117FM105A106A4F	7STRP	0.016602,0.0,0,0	Slew =12.01	3R7	4	0	3,837,240:24:0
1727	97	51	17:53:11.333	117FM105A106A4G	7STRP	-0.014501,0.0,0,	Slew =,0.76	3R7	4	0	3,837,240:32:0
1728	97	51	17:53:33.333	117FM105A106A4H	7STRP	0.016602,0.0,0,0	Slew =12.01	3R7	4	0	3,837,240:65:0
1729	97	51	17:53:38.666	117FM105A106A4I	7STRP	-0.014501,0.0,0,	Slew =,0.76	3R7	4	0	3,837,240:73:0
1730	97	51	17:54:00.666	117FM105A106A4J	7STRP	0.016602,0.0,0,0	Slew =12.01	3R7	4	0	3,837,241:15:0
1731	97	51	17:54:06.000	117FM105A106A4K	7STRP	-0.014501,0.0,0,	Slew =,0.76	3R7	4	0	3,837,241:23:0
1732	97	51	17:54:28.000	117FM105A106A4L	7STRP	0.016602,0.0,0,0	Slew =12.01	3R7	4	0	3,837,241:56:0
1733	97	51	17:54:33.333	117FM105A106A4M	7STRP	-0.014501,0.0,0,	Slew =,0.76	3R7	4	0	3,837,241:64:0
1734	97	51	17:54:55.333	117FM105A106A4N	7STRP	0.016602,0.0,0,0	Slew =12.01	3R7	4	0	3,837,242:06:0
1735	97	51	17:55:00.666	117FM105A106A4O	7STRP	-0.014501,0.0,0,	Slew =,0.76	3R7	4	0	3,837,242:14:0
1736	97	51	17:55:22.666	117FM105A106A4P	7STRP	0.016602,0.0,0,0	Slew =12.01	3R7	4	0	3,837,242:47:0
1737	97	51	17:55:28.000	117FM105A106A4Q	7STRP	-0.014501,0.0,0,	Slew =,0.76	3R7	4	0	3,837,242:55:0
1738	97	51	17:55:50.000	117FM105A106A4R	7STRP	0.016602,0.0,0,0	Slew =12.01	3R7	4	0	3,837,242:88:0
1739	97	51	17:55:55.333	117FM105A106A4S	7STRP	-0.014501,0.0,0,	Slew =,0.76	3R7	4	0	3,837,243:05:0
1740	97	51	17:56:17.333	117FM105A106A4T	7STRP	0.016602,0.0,0,0	Slew =12.01	3R7	4	0	3,837,243:38:0
1741	97	51	17:56:22.666	117FM105A106A4U	7STRP	-0.014501,0.0,0,	Slew =,0.76	3R7	4	0	3,837,243:46:0
1742	97	51	17:56:44.666	117FM105A106A4V	7STRP	0.016602,0.0,0,0	Slew =12.01	3R7	4	0	3,837,243:79:0
1743	97	51	17:56:50.000	117FM105A106A4W	7STRP	-0.014501,0.0,0,	Slew =,0.76	3R7	4	0	3,837,243:87:0
1744	97	51	17:57:12.000	117FM105A106A4X	7STRP	0.016602,0.0,0,0	Slew =12.01	3R7	4	0	3,837,244:29:0
1745	97	51	17:57:17.333	117FM105A106A4Y	7STRP	-0.014501,0.0,0,	Slew =,0.76	3R7	4	0	3,837,244:37:0
1746	97	51	17:57:39.333	117FM105A106A4Z	7STRP	0.016602,0.0,0,0	Slew =12.01	3R7	4	0	3,837,244:70:0
1747	97	51	17:57:44.666	117FM105A106A4AA	7STRP	-0.014501,0.0,0,	Slew =,0.76	3R7	4	0	3,837,244:78:0
1748	97	51	17:58:06.666	117FM105A106A4AB	7STRP	0.016602,0.0,0,0	Slew =12.01	3R7	4	0	3,837,245:20:0
1749	97	51	17:58:12.000	117FM105A106A4AC	7STRP	-0.014501,0.0,0,	Slew =,0.76	3R7	4	0	3,837,245:28:0
1750	**97**	**51**	**17:58:12.108**	**E6ENSEAICE01-**	**NIMPBK**	**301FI**	**EUROPA HEXANGONAL ICE**	**3R7**	**4**	**0**	**: :**
1751	97	51	17:58:34.000	117FM105A106A4AD	7STRP	0.016602,0.0,0,0	Slew =12.01	3R7	4	0	3,837,245:61:0
1752	97	51	17:58:39.333	117FM105A106A4AE	7STRP	-0.014501,0.0,0,	Slew =,0.76	3R7	4	0	3,837,245:69:0
1753	97	51	17:59:01.333	117FM105A106A4AF	7STRP	0.016602,0.0,0,0	Slew =12.01	3R7	4	0	3,837,246:11:0
1754	97	51	17:59:06.666	117FM105A106A4AG	7STRP	-0.014501,0.0,0,	Slew =,0.76	3R7	4	0	3,837,246:19:0
1755	**97**	**51**	**17:59:14.775**	**E6ENSEAICE01-**	**DESELC**	**300FI**	**EUROPA HEXANGONAL ICE**	**3R7**	**4**	**0**	**: :**
1756	97	51	17:59:28.666	117FM11A	**CSMOS**	GE	***** GROUP END CSMOS	3R7	4	0	3,837,246:52:0
1757	97	51	17:59:46.666		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *5811.45 +/- 2	3R7	4	0	3,837,246:79:0
1758	97	51	17:59:46.666	175FM422A6B	6DMSC	RDY,0	DMS Control Tape stop	3R7	4	0	3,837,246:79:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1759	97	51	17:59:46.666	175FM6A	6TMREC	**NRC**	NO RECORD Record Mode Change	3R7	4	0	3,837,246	79:0
1760	97	51	18:02:55.333	165GN4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	3R7	4	0	3,837,249	89:0
1761	97	51	18:02:56.000	165GN4B	7SCAN	NORM,90.915999,2	Check S/P Position	3R7	4	0	3,837,249	90:0
1762	97	51	18:06:50.000	117GN	**CSMOS**	GS	***** GROUP START CSMOS	3R7	4	0	3,837,253	77:0
1763	97	51	18:06:59.333	117GN105A106A4A	7STRP	0.0,-0.006,0,0,0	Slew =,0.61	3R7	4	0	3,837,254	00:0
1764	97	51	18:06:59.333	176GN6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	3R7	4	0	3,837,254	00:0
1765	97	51	18:07:10.666	488AR6A	6TMSED	NORM,EL3	Sci, Eng, and D/L Chan	3R7	4	0	3,837,254	17:0
1766	97	51	18:07:21.333	117GN11A	**CSMOS**	GE	***** GROUP END CSMOS	3R7	4	0	3,837,254	33:0
1767	97	51	18:07:32.666	176GN6B	6TMREC	**NRC**	NO RECORD Record Mode Change	3R7	4	0	3,837,254	50:0
1768	97	51	18:07:44.666		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *5812.08 +/- 2	3R7	4	0	3,837,254	68:0
1769	97	51	18:07:52.000		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *5813.80 +/- 2	3R7	4	0	3,837,254	79:0
1770	**97**	**51**	**18:08:03.999**	**E6ENSEAICE01-**		**-----STOP-------**		**3R7**	**4**	**0**	**: :**	
1771	97	51	18:12:06.666	488AR6B	6TMSED	NORM,EL5	Sci, Eng, and D/L Chan	3R7	4	0	3,837,259	06:0
1772	97	51	18:14:04.000	411JG6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	3R7	4	0	3,837,261	00:0
1773	97	51	18:14:12.066		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *5813.98 +/- 2	3R7	4	0	3,837,261	12:1
1774	97	51	18:14:14.000	411JG6B	6TMREC	BDT	7.68 KBPS BUFFER DUMP TO TAPE Record Mode	3R7	4	0	3,837,261	15:0
1775	97	51	18:15:00.000	488AR6C	6TMSED	NORM,GL5	Sci, Eng, and D/L Chan	3R7	4	0	3,837,261	84:0
1776	97	51	18:15:00.666	282NC432A431A6A	6RCDSL	DDSNCG,PLSDSL,EP	Record Deselect (DDS o	3R7	4	0	3,837,261	85:0
1777	97	51	18:15:01.333	282NC432A6A	6RTSL1		R/T Select of DDS and	3R7	4	0	3,837,261	86:0
1778	97	51	18:16:15.333	411JG6C	6TMREC	**NRC**	NO RECORD Record Mode Change	3R7	4	0	3,837,263	15:0
1779	97	51	18:16:16.000		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *5843.02 +/- 2	3R7	4	0	3,837,263	16:0
1780	97	51	18:16:16.000	411JG6D	6DMSC	RDY,0	DMS Control Tape stop	3R7	4	0	3,837,263	16:0
1781	97	51	18:24:04.000	465KC6A	6DTRN	CMD,6DTRN,465KC6	DMS TRACK TURNAROUND	3R7	4	0	3,837,270	81:0
1782	97	51	18:30:00.000	481UC4A	7VECT		Inert vect update UTC	3R7	4	0	3,837,276	69:0
1783	97	51	19:11:47.333	165EC4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	3R7	4	0	3,837,318	08:0
1784	97	51	19:11:48.000	165EC4B	7SCAN	NORM,290.427998,	Check S/P Position	3R7	4	0	3,837,318	09:0
1785	97	51	19:13:38.666	125EC11A	NIMSINIT	GE	##### GROUP END INIT	3R7	4	0	3,837,319	84:0
1786	97	51	19:13:38.666	125EC	NIMSINIT	GS	##### GROUP START INIT	3R7	4	0	3,837,319	84:0
1787	**97**	**51**	**19:13:38.666**	**125EC4A**	**37IST**	**0,2,0,OFF,0,1,0**	**Gain State 2**	**2R7**	**4**	**0**	**3,837,319**	**84:0**
1788	97	51	19:14:39.333	127EC	NIMSTAB	GS	%%%%% GROUP START TAB	2R7	4	0	3,837,320	84:0
1789	**97**	**51**	**19:14:39.333**	**127EC4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**3,837,320**	**84:0**
1790	**97**	**51**	**19:14:40.000**	**127EC4B**	**37ETB**	**07,C7,02,01,80,0**	**Loads wavelength edit table**	**2R3**	**4**	**0**	**3,837,320**	**85:0**
1791	97	51	19:14:48.000	127EC11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	3,837,321	06:0
1792	97	51	19:15:41.333		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 6025.38 +/-	2R3	4	0	3,837,321	86:0
1793	97	51	19:15:41.333	175EC422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	3,837,321	86:0
1794	97	51	19:15:42.000	117EC	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	3,837,321	87:0
1795	97	51	19:15:50.600		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *6026.67 +/-	2R3	4	0	3,837,322	08:9
1796	97	51	19:15:50.666	175EC176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R3	4	0	3,837,322	09:0
1797	97	51	19:15:51.333	117EC105A106A4A	7STRP	0.0102,0.0,0,0,0	Slew =,0.04	2R3	4	0	3,837,322	10:0
1798	**97**	**51**	**19:18:50.666**	**E6INCHEMIS05-**		**-----START------**		**2R3**	**4**	**0**	**: :**	
1799	97	51	19:20:08.666	117EC11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	3,837,326	32:0
1800	97	51	19:20:22.666		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *5962.91 +/-	2R3	4	0	3,837,326	53:0
1801	97	51	19:20:22.666	175EC6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	3,837,326	53:0
1802	97	51	19:20:22.666	175EC422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,837,326	53:0
1803	**97**	**51**	**19:20:51.999**	**E6INCHEMIS05-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**	
1804	97	51	19:21:47.333	165GO4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,837,327	89:0
1805	97	51	19:21:48.000	165GO4B	7SCAN	NORM,81.125999,2	Check S/P Position	2R3	4	0	3,837,327	90:0
1806	97	51	19:25:42.000	117GO	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	3,837,331	77:0
1807	97	51	19:25:51.333	117GO105A106A4A	7STRP	-0.040021,0.0,0,	Slew =,2.01	2R3	4	0	3,837,332	00:0
1808	97	51	19:25:51.333	176GO6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R3	4	0	3,837,332	00:0
1809	97	51	19:26:14.666	117GO105A106A4B	7STRP	0.040021,0.0015,	Slew =12.01	2R3	4	0	3,837,332	35:0
1810	97	51	19:26:22.000	117GO105A106A4C	7STRP	-0.040021,0.0,0,	Slew =,2.01	2R3	4	0	3,837,332	46:0
1811	97	51	19:26:45.333	117GO105A106A4D	7STRP	0.040021,0.0015,	Slew =12.01	2R3	4	0	3,837,332	81:0
1812	97	51	19:26:52.666	117GO105A106A4E	7STRP	-0.040021,0.0,0,	Slew =,2.01	2R3	4	0	3,837,333	01:0
1813	97	51	19:27:16.000	117GO105A106A4F	7STRP	0.040021,0.0015,	Slew =12.01	2R3	4	0	3,837,333	36:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1814	97	51	19:27:23.333	117GO105A106A4G	7STRP	-0.040021,0.0,0,	Slew =,2.01	2R3	4	0	3,837,333:47:0	
1815	97	51	19:27:46.666	117GO105A106A4H	7STRP	0.040021,0.0015,	Slew =12.01	2R3	4	0	3,837,333:82:0	
1816	97	51	19:27:54.000	117GO105A106A4I	7STRP	-0.040021,0.0,0,	Slew =,2.01	2R3	4	0	3,837,334:02:0	
1817	97	51	19:28:17.333	117GO105A106A4J	7STRP	0.040021,0.0015,	Slew =12.01	2R3	4	0	3,837,334:37:0	
1818	97	51	19:28:24.666	117GO105A106A4K	7STRP	-0.040021,0.0,0,	Slew =,2.01	2R3	4	0	3,837,334:48:0	
1819	97	51	19:28:48.000	117GO105A106A4L	7STRP	0.040021,0.0015,	Slew =12.01	2R3	4	0	3,837,334:83:0	
1820	97	51	19:28:55.333	117GO105A106A4M	7STRP	-0.040021,0.0,0,	Slew =,2.01	2R3	4	0	3,837,335:03:0	
1821	97	51	19:29:18.666	117GO105A106A4N	7STRP	0.040021,0.0015,	Slew =12.01	2R3	4	0	3,837,335:38:0	
1822	97	51	19:29:26.000	117GO105A106A4O	7STRP	-0.040021,0.0,0,	Slew =,2.01	2R3	4	0	3,837,335:49:0	
1823	97	51	19:29:49.333	117GO105A106A4P	7STRP	0.040021,0.0015,	Slew =12.01	2R3	4	0	3,837,335:84:0	
1824	97	51	19:29:56.666	117GO105A106A4Q	7STRP	-0.040021,0.0,0,	Slew =,2.01	2R3	4	0	3,837,336:04:0	
1825	97	51	19:30:20.000	117GO105A106A4R	7STRP	0.040021,0.0015,	Slew =12.01	2R3	4	0	3,837,336:39:0	
1826	97	51	19:30:27.333	117GO105A106A4S	7STRP	-0.040021,0.0,0,	Slew =,2.01	2R3	4	0	3,837,336:50:0	
1827	97	51	19:30:50.666	117GO105A106A4T	7STRP	0.040021,0.0015,	Slew =12.01	2R3	4	0	3,837,336:85:0	
1828	97	51	19:30:58.000	117GO105A106A4U	7STRP	-0.040021,0.0,0,	Slew =,2.01	2R3	4	0	3,837,337:05:0	
1829	97	51	19:31:21.333	117GO105A106A4V	7STRP	0.040021,0.0015,	Slew =12.01	2R3	4	0	3,837,337:40:0	
1830	97	51	19:31:28.666	117GO105A106A4W	7STRP	-0.040021,0.0,0,	Slew =,2.01	2R3	4	0	3,837,337:51:0	
1831	97	51	19:31:52.000	117GO105A106B4A	7STRP	0.044229,0.00135	Slew =12.01	2R3	4	0	3,837,337:86:0	
1832	97	51	19:31:59.333	117GO105A106B4B	7STRP	-0.044229,0.0,0,	Slew =,2.01	2R3	4	0	3,837,338:06:0	
1833	97	51	19:33:00.000	117GO105A106B4C	7STRP	0.044229,0.00135	Slew =12.01	2R3	4	0	3,837,339:06:0	
1834	97	51	19:33:07.333	117GO105A106B4D	7STRP	-0.044229,0.0,0,	Slew =,2.01	2R3	4	0	3,837,339:17:0	
1835	97	51	19:34:08.000	117GO105A106B4E	7STRP	0.044229,0.00135	Slew =12.01	2R3	4	0	3,837,340:17:0	
1836	97	51	19:34:15.333	117GO105A106B4F	7STRP	-0.044229,0.0,0,	Slew =,2.01	2R3	4	0	3,837,340:28:0	
1837	97	51	19:35:16.000	117GO105A106B4G	7STRP	0.044229,0.00135	Slew =12.01	2R3	4	0	3,837,341:28:0	
1838	97	51	19:35:18.666	488AR6D	6TMSED	NORM,GL6	Sci, Eng, and D/L Chan	2R3	4	0	3,837,341:32:0	
1839	97	51	19:35:23.333	117GO105A106B4H	7STRP	-0.044229,0.0,0,	Slew =,2.01	2R3	4	0	3,837,341:39:0	
1840	97	51	19:36:24.000	117GO105A106B4I	7STRP	0.044229,0.00135	Slew =12.01	2R3	4	0	3,837,342:39:0	
1841	97	51	19:36:31.333	117GO105A106B4J	7STRP	-0.044229,0.0,0,	Slew =,2.01	2R3	4	0	3,837,342:50:0	
1842	97	51	19:37:32.000	117GO105A106B4K	7STRP	0.044229,0.00135	Slew =12.01	2R3	4	0	3,837,343:50:0	
1843	97	51	19:37:39.333	117GO105A106B4L	7STRP	-0.044229,0.0,0,	Slew =,2.01	2R3	4	0	3,837,343:61:0	
1844	97	51	19:38:26.666		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 5962.85 +/-	2R3	4	0	3,837,344:41:0	
1845	97	51	19:38:40.000	117GO105A106B4M	7STRP	0.044229,0.00135	Slew =12.01	2R3	4	0	3,837,344:61:0	
1846	97	51	19:38:47.333	117GO105A106B4N	7STRP	-0.044229,0.0,0,	Slew =,2.01	2R3	4	0	3,837,344:72:0	
1847	97	51	19:38:51.333		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *5960.53 +/-	2R3	4	0	3,837,344:78:0	
1848	97	51	19:39:11.333		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *5955.84 +/-	2R3	4	0	3,837,345:17:0	
1849	97	51	19:39:48.000	117GO105A106B4O	7STRP	0.044229,0.00135	Slew =12.01	2R3	4	0	3,837,345:72:0	
1850	97	51	19:39:55.333	117GO105A106B4P	7STRP	-0.044229,0.0,0,	Slew =,2.01	2R3	4	0	3,837,345:83:0	
1851	97	51	19:40:56.000	117GO105A106B4Q	7STRP	0.044229,0.00135	Slew =12.01	2R3	4	0	3,837,346:83:0	
1852	97	51	19:41:03.333	117GO105A106B4R	7STRP	-0.044229,0.0,0,	Slew =,2.01	2R3	4	0	3,837,347:03:0	
1853	97	51	19:42:04.000	117GO105A106B4S	7STRP	0.044229,0.00135	Slew =12.01	2R3	4	0	3,837,348:03:0	
1854	97	51	19:42:11.333	117GO105A106B4T	7STRP	-0.044229,0.0,0,	Slew =,2.01	2R3	4	0	3,837,348:14:0	
1855	97	51	19:43:12.000	117GO105A106B4U	7STRP	0.044229,0.00135	Slew =12.01	2R3	4	0	3,837,349:14:0	
1856	97	51	19:43:19.333	117GO105A106B4V	7STRP	-0.044229,0.0,0,	Slew =,2.01	2R3	4	0	3,837,349:25:0	
1857	97	51	19:44:20.000	117GO105A106B4W	7STRP	0.044229,0.00135	Slew =12.01	2R3	4	0	3,837,350:25:0	
1858	97	51	19:44:27.333	117GO105A106B4X	7STRP	-0.044229,0.0,0,	Slew =,2.01	2R3	4	0	3,837,350:36:0	
1859	97	51	19:45:28.000	117GO105A106B4Y	7STRP	0.044229,0.00135	Slew =12.01	2R3	4	0	3,837,351:36:0	
1860	97	51	19:45:35.333	117GO105A106B4Z	7STRP	-0.044229,0.0,0,	Slew =,2.01	2R3	4	0	3,837,351:47:0	
1861	97	51	19:46:36.000	117GO105A106B4AA	7STRP	0.044229,0.00135	Slew =12.01	2R3	4	0	3,837,352:47:0	
1862	97	51	19:46:43.333	117GO105A106B4AB	7STRP	-0.044229,0.0,0,	Slew =,2.01	2R3	4	0	3,837,352:58:0	
1863	97	51	19:47:44.000	117GO105A106B4AC	7STRP	0.044229,0.00135	Slew =12.01	2R3	4	0	3,837,353:58:0	
1864	97	51	19:47:51.333	117GO105A106B4AD	7STRP	-0.044229,0.0,0,	Slew =,2.01	2R3	4	0	3,837,353:69:0	
1865	97	51	19:48:52.000	117GO105A106B4AE	7STRP	0.044229,0.00135	Slew =12.01	2R3	4	0	3,837,354:69:0	
1866	97	51	19:48:59.333	117GO105A106B4AF	7STRP	-0.044229,0.0,0,	Slew =,2.01	2R3	4	0	3,837,354:80:0	
1867	97	51	19:50:00.000	117GO105A106B4AG	7STRP	0.044229,0.00135	Slew =12.01	2R3	4	0	3,837,355:80:0	
1868	97	51	19:50:07.333	117GO105A106B4AH	7STRP	-0.044229,0.0,0,	Slew =,2.01	2R3	4	0	3,837,356:00:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1869	97	51	19:50:40.666	488AR6E	6TMSED	FILL,GL6	Sci, Eng, and D/L Chan	2R3	4	0	3,837,356	50:0
1870	97	51	19:51:08.000	117GO105A106B4AI	7STRP	0.044229,0.00135	Slew =12.01	2R3	4	0	3,837,357	00:0
1871	97	51	19:51:15.333	117GO105A106B4AJ	7STRP	-0.044229,0.0,0,	Slew =,2.01	2R3	4	0	3,837,357	11:0
1872	97	51	19:51:28.666		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 5955.78 +/-	2R3	4	0	3,837,357	31:0
1873	97	51	19:51:53.333		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *5953.47 +/-	2R3	4	0	3,837,357	68:0
1874	97	51	19:52:13.333		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *5948.78 +/-	2R3	4	0	3,837,358	07:0
1875	97	51	19:52:16.000	117GO105A106B4AK	7STRP	0.044229,0.00135	Slew =12.01	2R3	4	0	3,837,358	11:0
1876	97	51	19:52:23.333	117GO105A106B4AL	7STRP	-0.044229,0.0,0,	Slew =,2.01	2R3	4	0	3,837,358	22:0
1877	97	51	19:53:24.000	117GO105A106B4AM	7STRP	0.044229,0.00135	Slew =12.01	2R3	4	0	3,837,359	22:0
1878	97	51	19:53:31.333	117GO105A106B4AN	7STRP	-0.044229,0.0,0,	Slew =,2.01	2R3	4	0	3,837,359	33:0
1879	97	51	19:54:32.000	117GO105A106B4AO	7STRP	0.044229,0.00135	Slew =12.01	2R3	4	0	3,837,360	33:0
1880	97	51	19:54:39.333	117GO105A106B4AP	7STRP	-0.044229,0.0,0,	Slew =,2.01	2R3	4	0	3,837,360	44:0
1881	97	51	19:55:40.000	117GO105A106B4AQ	7STRP	0.044229,0.00135	Slew =12.01	2R3	4	0	3,837,361	44:0
1882	97	51	19:55:47.333	117GO105A106B4AR	7STRP	-0.044229,0.0,0,	Slew =,2.01	2R3	4	0	3,837,361	55:0
1883	97	51	19:56:48.000	117GO105A106B4AS	7STRP	0.044229,0.00135	Slew =12.01	2R3	4	0	3,837,362	55:0
1884	97	51	19:56:55.333	117GO105A106B4AT	7STRP	-0.044229,0.0,0,	Slew =,2.01	2R3	4	0	3,837,362	66:0
1885	97	51	19:57:56.000	117GO105A106B4AU	7STRP	0.044229,0.00135	Slew =12.01	2R3	4	0	3,837,363	66:0
1886	97	51	19:58:03.333	117GO105A106B4AV	7STRP	-0.044229,0.0,0,	Slew =,2.01	2R3	4	0	3,837,363	77:0
1887	97	51	19:59:04.000	117GO105A106B4AW	7STRP	0.044229,0.00135	Slew =12.01	2R3	4	0	3,837,364	77:0
1888	97	51	19:59:11.333	117GO105A106B4AX	7STRP	-0.044229,0.0,0,	Slew =,2.01	2R3	4	0	3,837,364	88:0
1889	97	51	20:00:12.000	117GO105A106B4AY	7STRP	0.044229,0.00135	Slew =12.01	2R3	4	0	3,837,365	88:0
1890	97	51	20:00:19.333	117GO105A106B4AZ	7STRP	-0.044229,0.0,0,	Slew =,2.01	2R3	4	0	3,837,366	08:0
1891	97	51	20:01:20.000	117GO105A106B4BA	7STRP	0.044229,0.00135	Slew =12.01	2R3	4	0	3,837,367	08:0
1892	97	51	20:01:27.333	117GO105A106B4BB	7STRP	-0.044229,0.0,0,	Slew =,2.01	2R3	4	0	3,837,367	19:0
1893	97	51	20:02:28.000	117GO105A106B4BC	7STRP	0.044229,0.00135	Slew =12.01	2R3	4	0	3,837,368	19:0
1894	97	51	20:02:35.333	117GO105A106B4BD	7STRP	-0.044229,0.0,0,	Slew =,2.01	2R3	4	0	3,837,368	30:0
1895	97	51	20:03:36.000	117GO105A106B4BE	7STRP	0.044229,0.00135	Slew =12.01	2R3	4	0	3,837,369	30:0
1896	97	51	20:03:43.333	117GO105A106B4BF	7STRP	-0.044229,0.0,0,	Slew =,2.01	2R3	4	0	3,837,369	41:0
1897	97	51	20:04:30.666		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 5948.72 +/-	2R3	4	0	3,837,370	21:0
1898	97	51	20:04:44.000	117GO105A106B4BG	7STRP	0.044229,0.00135	Slew =12.01	2R3	4	0	3,837,370	41:0
1899	97	51	20:04:51.333	117GO105A106B4BH	7STRP	-0.044229,0.0,0,	Slew =,2.01	2R3	4	0	3,837,370	52:0
1900	97	51	20:04:55.333		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *5946.41 +/-	2R3	4	0	3,837,370	58:0
1901	97	51	20:05:15.333		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *5941.72 +/-	2R3	4	0	3,837,370	88:0
1902	97	51	20:05:52.000	117GO105A106B4BI	7STRP	0.044229,0.00135	Slew =12.01	2R3	4	0	3,837,371	52:0
1903	97	51	20:05:59.333	117GO105A106B4BJ	7STRP	-0.044229,0.0,0,	Slew =,2.01	2R3	4	0	3,837,371	63:0
1904	97	51	20:07:00.000	117GO105A106B4BK	7STRP	0.044229,0.00135	Slew =12.01	2R3	4	0	3,837,372	63:0
1905	97	51	20:07:00.000	488AS6A	6TMSED	NORM,GL6	Sci, Eng, and D/L Chan	2R3	4	0	3,837,372	63:0
1906	97	51	20:07:07.333	117GO105A106B4BL	7STRP	-0.044229,0.0,0,	Slew =,2.01	2R3	4	0	3,837,372	74:0
1907	97	51	20:08:08.000	117GO105A106B4BM	7STRP	0.044229,0.00135	Slew =12.01	2R3	4	0	3,837,373	74:0
1908	97	51	20:08:15.333	117GO105A106B4BN	7STRP	-0.044229,0.0,0,	Slew =,2.01	2R3	4	0	3,837,373	85:0
1909	97	51	20:09:16.000	117GO105A106B4BO	7STRP	0.044229,0.00135	Slew =12.01	2R3	4	0	3,837,374	85:0
1910	97	51	20:09:23.333	117GO105A106B4BP	7STRP	-0.044229,0.0,0,	Slew =,2.01	2R3	4	0	3,837,375	05:0
1911	97	51	20:10:24.000	117GO105A106B4BQ	7STRP	0.044229,0.00135	Slew =12.01	2R3	4	0	3,837,376	05:0
1912	97	51	20:10:31.333	117GO105A106B4BR	7STRP	-0.044229,0.0,0,	Slew =,2.01	2R3	4	0	3,837,376	16:0
1913	97	51	20:11:32.000	117GO11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	3,837,377	16:0
1914	97	51	20:17:33.266		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 5941.66 +/-	2R3	4	0	3,837,383	12:0
1915	97	51	20:17:57.933		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *5939.34 +/-	2R3	4	0	3,837,383	49:0
1916	97	51	20:18:17.933		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *5934.66 +/-	2R3	4	0	3,837,383	79:0
1917	97	51	20:30:35.266		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 5934.60 +/-	2R3	4	0	3,837,396	02:0
1918	97	51	20:30:59.933		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *5932.28 +/-	2R3	4	0	3,837,396	39:0
1919	97	51	20:31:19.933		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *5927.59 +/-	2R3	4	0	3,837,396	69:0
1920	97	51	20:43:37.266		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 5927.53 +/-	2R3	4	0	3,837,408	83:0
1921	97	51	20:44:01.933		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *5925.22 +/-	2R3	4	0	3,837,409	29:0
1922	97	51	20:44:21.933		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *5920.53 +/-	2R3	4	0	3,837,409	59:0
1923	97	51	20:50:02.600	176GO6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	3,837,415	24:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
1924	97	51	20:50:04.600		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 5920.47 +/-	2R3	4	0	3,837,415:27:0
1925	97	51	20:50:14.600		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *5921.59 +/-	2R3	4	0	3,837,415:42:0
1926	97	51	20:50:27.266		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *5918.62 +/-	2R3	4	0	3,837,415:61:0
1927	97	51	21:01:42.600	175XX422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	3,837,426:73:0
1928	97	51	21:01:42.600		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 5918.56 +/-	2R3	4	0	3,837,426:73:0
1929	97	51	21:01:49.933	282ND431A6A	6RCSEL	DDSNCG,PLSSEL,EP	Record Select (DDS onl	2R3	4	0	3,837,426:84:0
1930	97	51	21:01:51.866		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *5919.86 +/-	2R3	4	0	3,837,426:86:9
1931	97	51	21:01:51.933	175XX176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	2R3	4	0	3,837,426:87:0
1932	97	51	21:01:53.266	165GC4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,837,426:89:0
1933	97	51	21:01:53.933	165GC4B	7SCAN	NORM,341.008999,	Check S/P Position	2R3	4	0	3,837,426:90:0
1934	97	51	21:01:54.600	431OA6A	6RCSEL	DDSNCG,PLSNCG,EP	Record Select (DDS onl	2R3	4	0	3,837,427:00:0
1935	97	51	21:05:47.933	117GC	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	3,837,430:77:0
1936	97	51	21:05:57.266	117GC105A106A4A	7STRP	-0.039721,-0.003	Slew =,0.17	2R3	4	0	3,837,431:00:0
1937	97	51	21:09:53.266	117GC105A106A4B	7STRP	0.036016,0.00435	Slew =12.01	2R3	4	0	3,837,434:81:0
1938	97	51	21:10:00.600	117GC105A106A4C	7STRP	-0.039721,-0.003	Slew =,0.17	2R3	4	0	3,837,435:01:0
1939	97	51	21:13:56.600	117GC105A106A4D	7STRP	0.036016,0.00435	Slew =12.01	2R3	4	0	3,837,438:82:0
1940	97	51	21:14:03.933	117GC105A106A4E	7STRP	-0.039721,-0.003	Slew =,0.17	2R3	4	0	3,837,439:02:0
1941	97	51	21:17:59.933	117GC105A106A4F	7STRP	0.036016,0.00435	Slew =12.01	2R3	4	0	3,837,442:83:0
1942	97	51	21:18:07.266	117GC105A106A4G	7STRP	-0.039721,-0.003	Slew =,0.17	2R3	4	0	3,837,443:03:0
1943	97	51	21:22:03.266	117GC105A106A4H	7STRP	0.036016,0.00435	Slew =12.01	2R3	4	0	3,837,446:84:0
1944	97	51	21:22:10.600	117GC105A106A4I	7STRP	-0.039721,-0.003	Slew =,0.17	2R3	4	0	3,837,447:04:0
1945	97	51	21:26:06.600	117GC105A106A4J	7STRP	0.036016,0.00435	Slew =12.01	2R3	4	0	3,837,450:85:0
1946	97	51	21:26:13.933	117GC105A106A4K	7STRP	-0.039721,-0.003	Slew =,0.17	2R3	4	0	3,837,451:05:0
1947	97	51	21:28:22.600	488AS6B	6TMSED	NORM,GL5	Sci, Eng, and D/L Chan	2R3	4	0	3,837,453:16:0
1948	97	51	21:30:09.933	117GC105A106A4L	7STRP	0.036016,0.00435	Slew =12.01	2R3	4	0	3,837,454:86:0
1949	97	51	21:30:17.266	117GC105A106A4M	7STRP	-0.039721,-0.003	Slew =,0.17	2R3	4	0	3,837,455:06:0
1950	97	51	21:34:13.266	117GC105A106A4N	7STRP	0.036016,0.00435	Slew =12.01	2R3	4	0	3,837,458:87:0
1951	97	51	21:34:20.600	117GC105A106A4O	7STRP	-0.039721,-0.003	Slew =,0.17	2R3	4	0	3,837,459:07:0
1952	97	51	21:38:16.600	117GC105A106A4P	7STRP	0.036016,0.00435	Slew =12.01	2R3	4	0	3,837,462:88:0
1953	97	51	21:38:23.933	117GC105A106A4Q	7STRP	-0.039721,-0.003	Slew =,0.17	2R3	4	0	3,837,463:08:0
1954	**97**	**51**	**21:40:15.266**	**125FW4A**	**37IST**	**0,2,0,OFF,0,1,0**	**Gain State 2**	**2R3**	**4**	**0**	**3,837,464:84:0**
1955	97	51	21:40:15.266	125FW11A	NIMSINIT	GE	##### GROUP END INIT	2R3	4	0	3,837,464:84:0
1956	97	51	21:40:15.266	125FW	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	3,837,464:84:0
1957	**97**	**51**	**21:41:15.933**	**127FW4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**3,837,465:84:0**
1958	97	51	21:41:15.933	127FW	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	3,837,465:84:0
1959	**97**	**51**	**21:41:16.600**	**127FW4B**	**37ETB**	**07,C7,02,80,44,3**	**Loads wavelength edit table**	**2R3**	**4**	**0**	**3,837,465:85:0**
1960	97	51	21:41:24.600	127FW11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	3,837,466:06:0
1961	**97**	**51**	**21:41:40.600**	**432EE6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**	**NIMS R/T SELECT**	**2R3**	**4**	**0**	**3,837,466:30:0**
1962	97	51	21:42:19.933	117GC105A106A4R	7STRP	0.036016,0.00435	Slew =12.01	2R3	4	0	3,837,466:89:0
1963	**97**	**51**	**21:42:25.266**	**E6NNHEALTH03-**		**-----START------**		**2R3**	**4**	**0**	**: :**
1964	97	51	21:42:27.266	117GC105A106A4S	7STRP	-0.039721,-0.003	Slew =,0.17	2R3	4	0	3,837,467:09:0
1965	**97**	**51**	**21:42:39.933**	**432EF6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**2R3**	**4**	**0**	**3,837,467:28:0**
1966	97	51	21:46:23.266	117GC11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	3,837,470:90:0
1967	97	51	21:47:24.600	432OE431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	2R3	4	0	3,837,472:00:0
1968	97	51	21:47:25.266	432OE6A	6RTSL1		R/T Select of DDS and	2R3	4	0	3,837,472:01:0
1969	97	51	21:47:26.600	175XX422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,837,472:03:0
1970	97	51	21:47:26.600		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *5278.91 +/-	2R3	4	0	3,837,472:03:0
1971	**97**	**51**	**21:47:28.600**	**E6NNHEALTH03-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**
1972	97	51	21:47:32.600	282NE431A6A	6RCDSL	DDSNCG,PLSDSL,EP	Record Deselect (DDS o	2R3	4	0	3,837,472:12:0
1973	97	51	21:48:21.933	282NE432A431A6A	6RCDSL	DDSNCG,PLSDSL,EP	Record Deselect (DDS o	2R3	4	0	3,837,472:86:0
1974	97	51	21:48:22.600	282NE432A6A	6RTSL1		R/T Select of DDS and	2R3	4	0	3,837,472:87:0
1975	**97**	**51**	**21:48:29.266**	**E6NIMSP2LD03-**		**-----START------**		**2R3**	**4**	**0**	**: :**
1976	**97**	**51**	**21:49:29.933**	**20EF6A**	**6CKSUM**	**NIMS**	**NIMS,1000,14BC**	**2R3**	**4**	**0**	**3,837,474:06:0**
1977	**97**	**51**	**21:50:30.600**	**20EF5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**2R3**	**4**	**0**	**3,837,475:06:0**
1978	**97**	**51**	**21:51:31.266**	**20EF5B**	**37MRL**		**Memory Realocate (software operates from R**	**2R3**	**4**	**0**	**3,837,476:06:0**

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
1979	**97**	**51**	**21:52:31.933**	**20EF6B**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**2R3**	**4**	**0**	**3,837,477:06:0**
1980	97	51	21:53:27.266	165IU4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,837,477:89:0
1981	97	51	21:53:27.933	165IU4B	7SCAN	NORM,357.875,0.0	Check S/P Position	2R3	4	0	3,837,477:90:0
1982	**97**	**51**	**21:53:32.600**	**20EF6C**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**2R3**	**4**	**0**	**3,837,478:06:0**
1983	**97**	**51**	**21:54:33.266**	**20EF5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**3,837,479:06:0**
1984	**97**	**51**	**21:55:33.933**	**20EF5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**3,837,480:06:0**
1985	**97**	**51**	**21:56:34.600**	**20EF4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**3,837,481:06:0**
1986	97	51	21:57:19.933		DMS:	: *US-RUNUP	R806, TRACK 4, REV, TIC 5278.85 +/-	2R0	4	0	3,837,481:74:0
1987	97	51	21:57:19.933	175IS422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	2R0	4	0	3,837,481:74:0
1988	97	51	21:57:29.933	165IU4C	7VECT		Inert vect update UTC	2R0	4	0	3,837,481:89:0
1989	97	51	21:57:30.600	165IU4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	2R0	4	0	3,837,481:90:0
1990	97	51	21:57:32.600	175IS176A6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	2R0	4	0	3,837,482:02:0
1991	97	51	21:57:33.066		DMS:	**: *RECORD**	R806, TRACK 4, REV, TIC *5214.26 +/-	2R0	4	0	3,837,482:02:7
1992	97	51	21:57:35.266		DMS:	**: *RUNDOWN**	R806, TRACK 4, REV, TIC *5160.12 +/-	2R0	4	0	3,837,482:06:0
1993	97	51	21:57:35.266	175IS422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R0	4	0	3,837,482:06:0
1994	**97**	**51**	**21:57:35.266**	**20EF4B**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**3,837,482:06:0**
1995	**97**	**51**	**21:58:35.933**	**E6NIMSP2LD03-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**
1996	97	51	22:00:31.933	165ED4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,837,484:89:0
1997	97	51	22:00:32.600	165ED4B	7SCAN	NORM,346.418999,	Check S/P Position	2R3	4	0	3,837,484:90:0
1998	97	51	22:03:30.600	127ED	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	3,837,487:84:0
1999	**97**	**51**	**22:03:30.600**	**127ED4A**	**37IOP**	**5,1**	**Short Map, Grating Start Position =01**	**2R5**	**4**	**1**	**3,837,487:84:0**
2000	**97**	**51**	**22:03:31.266**	**127ED4B**	**37ETB**		**Loads wavelength edit table**	**2R5**	**4**	**1**	**3,837,487:85:0**
2001	97	51	22:03:39.266	127ED11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R5	4	1	3,837,488:06:0
2002	**97**	**51**	**22:03:39.333**	**E6JNFEA03801-**		**-----START------**		**2R5**	**4**	**1**	**: :**
2003	97	51	22:04:23.266		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 5148.62 +/-	2R5	4	1	3,837,488:72:0
2004	97	51	22:04:23.266	175ED422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,837,488:72:0
2005	97	51	22:04:26.600	117ED	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,837,488:77:0
2006	97	51	22:04:32.533		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *5149.91 +/-	2R5	4	1	3,837,488:85:9
2007	97	51	22:04:32.600	175ED176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	3,837,488:86:0
2008	97	51	22:04:35.933	117ED105A106A4A	**7STRP**	**0.044028,0.0,0,0**	**Slew =,0.11**	2R5	4	1	3,837,489:00:0
2009	**97**	**51**	**22:07:32.766**	**E6JNFEA03801-**	**NIMPBK**	**301ED**	**JUPITER FEATURE TRACK 38 DEG PHA**	**2R5**	**4**	**1**	**: :**
2010	97	51	22:11:19.933	117ED105A106A4B	**7STRP**	**-0.055056,0.008,**	**Slew =12.01**	2R5	4	1	3,837,495:60:0
2011	97	51	22:11:39.933	117ED105A106A4C	**7STRP**	**0.044028,0.0,0,0**	**Slew =,0.11**	2R5	4	1	3,837,495:90:0
2012	**97**	**51**	**22:17:48.666**	**E6JNFEA03801-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**
2013	**97**	**51**	**22:18:23.432**	**E6JNFEA03801-**	**DESELC**	**300ED**	**JUPITER FEATURE TRACK 38 DEG PHA**	**2R5**	**4**	**1**	**: :**
2014	97	51	22:18:23.933	117ED11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,837,502:59:0
2015	97	51	22:19:07.266	175ED422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,837,503:33:0
2016	97	51	22:19:07.266	175ED6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,837,503:33:0
2017	97	51	22:19:07.266		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *4944.90 +/-	2R5	4	1	3,837,503:33:0
2018	97	51	22:27:49.933	165GE4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,837,511:89:0
2019	97	51	22:27:50.600	165GE4B	7SCAN	NORM,345.627998,	Check S/P Position	2R5	4	1	3,837,511:90:0
2020	97	51	22:31:44.600	117GE	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,837,515:77:0
2021	97	51	22:31:53.933	117GE105A106A4A	7STRP	0.0,0.021109,0,0	Slew =,0.64	2R5	4	1	3,837,516:00:0
2022	97	51	22:31:53.933	176GE6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R5	4	1	3,837,516:00:0
2023	97	51	22:32:53.266	117GE105A106A4B	7STRP	-0.0024,-0.02130	Slew =12.01	2R5	4	1	3,837,516:89:0
2024	97	51	22:33:04.600	117GE105A106A4C	7STRP	0.0,0.021109,0,0	Slew =,0.64	2R5	4	1	3,837,517:15:0
2025	97	51	22:34:03.933	117GE105A106A4D	7STRP	-0.0024,-0.02130	Slew =12.01	2R5	4	1	3,837,518:13:0
2026	97	51	22:34:15.266	117GE105A106A4E	7STRP	0.0,0.021109,0,0	Slew =,0.64	2R5	4	1	3,837,518:30:0
2027	97	51	22:35:14.600	117GE105A106A4F	7STRP	-0.0024,-0.02130	Slew =12.01	2R5	4	1	3,837,519:28:0
2028	97	51	22:35:25.933	117GE105A106A4G	7STRP	0.0,0.021109,0,0	Slew =,0.64	2R5	4	1	3,837,519:45:0
2029	97	51	22:36:25.266	117GE105A106A4H	7STRP	-0.0024,-0.02130	Slew =12.01	2R5	4	1	3,837,520:43:0
2030	97	51	22:36:36.600	117GE105A106A4I	7STRP	0.0,0.021109,0,0	Slew =,0.64	2R5	4	1	3,837,520:60:0
2031	97	51	22:37:35.933	117GE105A106A4J	7STRP	-0.0024,-0.02130	Slew =12.01	2R5	4	1	3,837,521:58:0
2032	97	51	22:37:47.266	117GE105A106A4K	7STRP	0.0,0.021109,0,0	Slew =,0.64	2R5	4	1	3,837,521:75:0
2033	97	51	22:38:46.600	117GE105A106A4L	7STRP	-0.0024,-0.02130	Slew =12.01	2R5	4	1	3,837,522:73:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2034	97	51	22:38:57.933	117GE105A106A4M	7STRP	0.0,0.021109,0,0	Slew =,0.64	2R5	4	1	3,837,522:90:0	
2035	97	51	22:39:57.266	117GE105A106A4N	7STRP	-0.0024,-0.02130	Slew =12.01	2R5	4	1	3,837,523:88:0	
2036	97	51	22:40:08.600	117GE105A106A4O	7STRP	0.0,0.021109,0,0	Slew =,0.64	2R5	4	1	3,837,524:14:0	
2037	97	51	22:41:07.933	117GE105A106A4P	7STRP	-0.0024,-0.02130	Slew =12.01	2R5	4	1	3,837,525:12:0	
2038	97	51	22:41:19.266	117GE105A106A4Q	7STRP	0.0,0.021109,0,0	Slew =,0.64	2R5	4	1	3,837,525:29:0	
2039	97	51	22:42:18.600	117GE105A106A4R	7STRP	-0.0024,-0.02130	Slew =12.01	2R5	4	1	3,837,526:27:0	
2040	97	51	22:42:29.933	117GE105A106A4S	7STRP	0.0,0.021109,0,0	Slew =,0.64	2R5	4	1	3,837,526:44:0	
2041	97	51	22:43:29.266	117GE105A106A4T	7STRP	-0.0024,-0.02130	Slew =12.01	2R5	4	1	3,837,527:42:0	
2042	97	51	22:43:40.600	117GE105A106A4U	7STRP	0.0,0.021109,0,0	Slew =,0.64	2R5	4	1	3,837,527:59:0	
2043	97	51	22:44:29.266		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 4944.84 +/-	2R5	4	1	3,837,528:41:0	
2044	97	51	22:44:39.933	117GE105A106A4V	7STRP	-0.0024,-0.02130	Slew =12.01	2R5	4	1	3,837,528:57:0	
2045	97	51	22:44:51.266	117GE105A106A4W	7STRP	0.0,0.021109,0,0	Slew =,0.64	2R5	4	1	3,837,528:74:0	
2046	97	51	22:44:53.933		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *4942.52 +/-	2R5	4	1	3,837,528:78:0	
2047	97	51	22:45:13.933		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *4937.84 +/-	2R5	4	1	3,837,529:17:0	
2048	97	51	22:45:50.600	117GE105A106A4X	7STRP	-0.0024,-0.02130	Slew =12.01	2R5	4	1	3,837,529:72:0	
2049	97	51	22:46:01.933	117GE105A106A4Y	7STRP	0.0,0.021109,0,0	Slew =,0.64	2R5	4	1	3,837,529:89:0	
2050	97	51	22:47:01.266	117GE105A106A4Z	7STRP	-0.0024,-0.02130	Slew =12.01	2R5	4	1	3,837,530:87:0	
2051	97	51	22:47:12.600	117GE105A106A4AA	7STRP	0.0,0.021109,0,0	Slew =,0.64	2R5	4	1	3,837,531:13:0	
2052	97	51	22:48:11.933	117GE105A106A4AB	7STRP	-0.0024,-0.02130	Slew =12.01	2R5	4	1	3,837,532:11:0	
2053	97	51	22:48:23.266	117GE105A106A4AC	7STRP	0.0,0.021109,0,0	Slew =,0.64	2R5	4	1	3,837,532:28:0	
2054	97	51	22:49:22.600	117GE105A106A4AD	7STRP	-0.0024,-0.02130	Slew =12.01	2R5	4	1	3,837,533:26:0	
2055	97	51	22:49:33.933	117GE105A106A4AE	7STRP	0.0,0.021109,0,0	Slew =,0.64	2R5	4	1	3,837,533:43:0	
2056	97	51	22:50:33.266	117GE105A106A4AF	7STRP	-0.0024,-0.02130	Slew =12.01	2R5	4	1	3,837,534:41:0	
2057	97	51	22:50:44.600	117GE105A106A4AG	7STRP	0.0,0.021109,0,0	Slew =,0.64	2R5	4	1	3,837,534:58:0	
2058	97	51	22:51:43.933	117GE105A106A4AH	7STRP	-0.0024,-0.02130	Slew =12.01	2R5	4	1	3,837,535:56:0	
2059	97	51	22:51:55.266	117GE105A106A4AI	7STRP	0.0,0.021109,0,0	Slew =,0.64	2R5	4	1	3,837,535:73:0	
2060	97	51	22:52:54.600	117GE105A106B4A	7STRP	0.014001,-0.0211	Slew =12.01	2R5	4	1	3,837,536:71:0	
2061	97	51	22:53:05.266	117GE105A106B4B	7STRP	0.0,0.021109,0,0	Slew =,0.64	2R5	4	1	3,837,536:87:0	
2062	97	51	22:54:05.933	117GE105A106C4A	7STRP	-0.0024,-0.02130	Slew =12.01	2R5	4	1	3,837,537:87:0	
2063	97	51	22:54:16.600	117GE105A106C4B	7STRP	0.0,0.021108,0,0	Slew =,0.64	2R5	4	1	3,837,538:12:0	
2064	97	51	22:55:17.266	117GE105A106C4C	7STRP	-0.0024,-0.02130	Slew =12.01	2R5	4	1	3,837,539:12:0	
2065	97	51	22:55:27.933	117GE105A106C4D	7STRP	0.0,0.021108,0,0	Slew =,0.64	2R5	4	1	3,837,539:28:0	
2066	97	51	22:56:28.600	117GE105A106C4E	7STRP	-0.0024,-0.02130	Slew =12.01	2R5	4	1	3,837,540:28:0	
2067	97	51	22:56:39.266	117GE105A106C4F	7STRP	0.0,0.021108,0,0	Slew =,0.64	2R5	4	1	3,837,540:44:0	
2068	97	51	22:57:31.266		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 4937.78 +/-	2R5	4	1	3,837,541:31:0	
2069	97	51	22:57:39.933	117GE105A106C4G	7STRP	-0.0024,-0.02130	Slew =12.01	2R5	4	1	3,837,541:44:0	
2070	97	51	22:57:50.600	117GE105A106C4H	7STRP	0.0,0.021108,0,0	Slew =,0.64	2R5	4	1	3,837,541:60:0	
2071	97	51	22:57:55.933		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *4935.46 +/-	2R5	4	1	3,837,541:68:0	
2072	97	51	22:58:15.933		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *4930.77 +/-	2R5	4	1	3,837,542:07:0	
2073	97	51	22:58:51.266	117GE105A106C4I	7STRP	-0.0024,-0.02130	Slew =12.01	2R5	4	1	3,837,542:60:0	
2074	97	51	22:59:01.933	117GE105A106C4J	7STRP	0.0,0.021108,0,0	Slew =,0.64	2R5	4	1	3,837,542:76:0	
2075	97	51	23:00:02.600	117GE105A106C4K	7STRP	-0.0024,-0.02130	Slew =12.01	2R5	4	1	3,837,543:76:0	
2076	97	51	23:00:13.266	117GE105A106C4L	7STRP	0.0,0.021108,0,0	Slew =,0.64	2R5	4	1	3,837,544:01:0	
2077	97	51	23:01:13.933	117GE105A106C4M	7STRP	-0.0024,-0.02130	Slew =12.01	2R5	4	1	3,837,545:01:0	
2078	97	51	23:01:24.600	117GE105A106C4N	7STRP	0.0,0.021108,0,0	Slew =,0.64	2R5	4	1	3,837,545:17:0	
2079	97	51	23:02:25.266	117GE105A106C4O	7STRP	-0.0024,-0.02130	Slew =12.01	2R5	4	1	3,837,546:17:0	
2080	97	51	23:02:35.933	117GE105A106C4P	7STRP	0.0,0.021108,0,0	Slew =,0.64	2R5	4	1	3,837,546:33:0	
2081	97	51	23:03:36.600	117GE105A106C4Q	7STRP	-0.0024,-0.02130	Slew =12.01	2R5	4	1	3,837,547:33:0	
2082	97	51	23:03:47.266	117GE105A106C4R	7STRP	0.0,0.021108,0,0	Slew =,0.64	2R5	4	1	3,837,547:49:0	
2083	97	51	23:04:47.933	117GE105A106C4S	7STRP	-0.0024,-0.02130	Slew =12.01	2R5	4	1	3,837,548:49:0	
2084	97	51	23:04:58.600	117GE105A106C4T	7STRP	0.0,0.021108,0,0	Slew =,0.64	2R5	4	1	3,837,548:65:0	
2085	97	51	23:05:59.266	117GE105A106C4U	7STRP	-0.0024,-0.02130	Slew =12.01	2R5	4	1	3,837,549:65:0	
2086	97	51	23:06:09.933	117GE105A106C4V	7STRP	0.0,0.021108,0,0	Slew =,0.64	2R5	4	1	3,837,549:81:0	
2087	97	51	23:07:10.600	117GE105A106C4W	7STRP	-0.0024,-0.02130	Slew =12.01	2R5	4	1	3,837,550:81:0	
2088	97	51	23:07:21.266	117GE105A106C4X	7STRP	0.0,0.021108,0,0	Slew =,0.64	2R5	4	1	3,837,551:06:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2089	97	51	23:08:21.933	117GE105A106C4Y	7STRP	-0.0024,-0.02130	Slew =12.01	2R5	4	1	3,837,552:06:0	
2090	97	51	23:08:32.600	117GE105A106C4Z	7STRP	0.0,0.021108,0,0	Slew =,0.64	2R5	4	1	3,837,552:22:0	
2091	97	51	23:09:33.266	117GE105A106C4AA	7STRP	-0.0024,-0.02130	Slew =12.01	2R5	4	1	3,837,553:22:0	
2092	97	51	23:09:43.933	117GE105A106C4AB	7STRP	0.0,0.021108,0,0	Slew =,0.64	2R5	4	1	3,837,553:38:0	
2093	97	51	23:10:33.266		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 4930.71 +/-	2R5	4	1	3,837,554:21:0	
2094	97	51	23:10:44.600	117GE105A106C4AC	7STRP	-0.0024,-0.02130	Slew =12.01	2R5	4	1	3,837,554:38:0	
2095	97	51	23:10:55.266	117GE105A106C4AD	7STRP	0.0,0.021108,0,0	Slew =,0.64	2R5	4	1	3,837,554:54:0	
2096	97	51	23:10:57.933		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *4928.40 +/-	2R5	4	1	3,837,554:58:0	
2097	97	51	23:11:17.933		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *4923.71 +/-	2R5	4	1	3,837,554:88:0	
2098	97	51	23:11:55.933	117GE105A106C4AE	7STRP	-0.0024,-0.02130	Slew =12.01	2R5	4	1	3,837,555:54:0	
2099	97	51	23:12:06.600	117GE105A106C4AF	7STRP	0.0,0.021108,0,0	Slew =,0.64	2R5	4	1	3,837,555:70:0	
2100	97	51	23:13:07.266	117GE105A106C4AG	7STRP	-0.0024,-0.02130	Slew =12.01	2R5	4	1	3,837,556:70:0	
2101	97	51	23:13:17.933	117GE105A106C4AH	7STRP	0.0,0.021108,0,0	Slew =,0.64	2R5	4	1	3,837,556:86:0	
2102	97	51	23:14:18.600	117GE105A106D4A	7STRP	0.01,-0.021108,0	Slew =12.01	2R5	4	1	3,837,557:86:0	
2103	97	51	23:14:29.266	117GE105A106D4B	7STRP	0.0,0.021108,0,0	Slew =,0.64	2R5	4	1	3,837,558:11:0	
2104	97	51	23:15:29.933	117GE105A106E4A	7STRP	-0.0024,-0.02130	Slew =12.01	2R5	4	1	3,837,559:11:0	
2105	97	51	23:15:40.600	117GE105A106E4B	7STRP	0.0,0.021108,0,0	Slew =,0.64	2R5	4	1	3,837,559:27:0	
2106	97	51	23:16:41.266	117GE105A106E4C	7STRP	-0.0024,-0.02130	Slew =12.01	2R5	4	1	3,837,560:27:0	
2107	97	51	23:16:51.933	117GE105A106E4D	7STRP	0.0,0.021108,0,0	Slew =,0.64	2R5	4	1	3,837,560:43:0	
2108	97	51	23:17:52.600	117GE105A106E4E	7STRP	-0.0024,-0.02130	Slew =12.01	2R5	4	1	3,837,561:43:0	
2109	97	51	23:18:03.266	117GE105A106E4F	7STRP	0.0,0.021108,0,0	Slew =,0.64	2R5	4	1	3,837,561:59:0	
2110	97	51	23:19:03.933	117GE105A106E4G	7STRP	-0.0024,-0.02130	Slew =12.01	2R5	4	1	3,837,562:59:0	
2111	97	51	23:19:14.600	117GE105A106E4H	7STRP	0.0,0.021108,0,0	Slew =,0.64	2R5	4	1	3,837,562:75:0	
2112	97	51	23:20:15.266	117GE105A106E4I	7STRP	-0.0024,-0.02130	Slew =12.01	2R5	4	1	3,837,563:75:0	
2113	97	51	23:20:25.933	117GE105A106E4J	7STRP	0.0,0.021108,0,0	Slew =,0.64	2R5	4	1	3,837,564:00:0	
2114	97	51	23:21:26.600	117GE105A106E4K	7STRP	-0.0024,-0.02130	Slew =12.01	2R5	4	1	3,837,565:00:0	
2115	97	51	23:21:37.266	117GE105A106E4L	7STRP	0.0,0.021108,0,0	Slew =,0.64	2R5	4	1	3,837,565:16:0	
2116	97	51	23:22:37.933	117GE105A106E4M	7STRP	-0.0024,-0.02130	Slew =12.01	2R5	4	1	3,837,566:16:0	
2117	97	51	23:22:48.600	117GE105A106E4N	7STRP	0.0,0.021108,0,0	Slew =,0.64	2R5	4	1	3,837,566:32:0	
2118	97	51	23:23:35.933		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 4923.65 +/-	2R5	4	1	3,837,567:12:0	
2119	97	51	23:23:49.266	117GE105A106E4O	7STRP	-0.0024,-0.02130	Slew =12.01	2R5	4	1	3,837,567:32:0	
2120	97	51	23:23:59.933	117GE105A106E4P	7STRP	0.0,0.021108,0,0	Slew =,0.64	2R5	4	1	3,837,567:48:0	
2121	97	51	23:23:59.933		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *4921.49 +/-	2R5	4	1	3,837,567:48:0	
2122	97	51	23:24:19.933		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *4916.80 +/-	2R5	4	1	3,837,567:78:0	
2123	97	51	23:25:00.600	117GE105A106E4Q	7STRP	-0.0024,-0.02130	Slew =12.01	2R5	4	1	3,837,568:48:0	
2124	97	51	23:25:11.266	117GE105A106E4R	7STRP	0.0,0.021108,0,0	Slew =,0.64	2R5	4	1	3,837,568:64:0	
2125	97	51	23:26:11.933	117GE105A106E4S	7STRP	-0.0024,-0.02130	Slew =12.01	2R5	4	1	3,837,569:64:0	
2126	97	51	23:26:22.600	117GE105A106E4T	7STRP	0.0,0.021108,0,0	Slew =,0.64	2R5	4	1	3,837,569:80:0	
2127	97	51	23:27:23.266	117GE105A106E4U	7STRP	-0.0024,-0.02130	Slew =12.01	2R5	4	1	3,837,570:80:0	
2128	97	51	23:27:33.933	117GE105A106E4V	7STRP	0.0,0.021108,0,0	Slew =,0.64	2R5	4	1	3,837,571:05:0	
2129	97	51	23:28:34.600	117GE105A106E4W	7STRP	-0.0024,-0.02130	Slew =12.01	2R5	4	1	3,837,572:05:0	
2130	97	51	23:28:45.266	117GE105A106E4X	7STRP	0.0,0.021108,0,0	Slew =,0.64	2R5	4	1	3,837,572:21:0	
2131	97	51	23:29:45.933	117GE105A106E4Y	7STRP	-0.0024,-0.02130	Slew =12.01	2R5	4	1	3,837,573:21:0	
2132	97	51	23:29:56.600	117GE105A106E4Z	7STRP	0.0,0.021108,0,0	Slew =,0.64	2R5	4	1	3,837,573:37:0	
2133	97	51	23:30:57.266	117GE105A106E4AA	7STRP	-0.0024,-0.02130	Slew =12.01	2R5	4	1	3,837,574:37:0	
2134	97	51	23:31:07.933	117GE105A106E4AB	7STRP	0.0,0.021108,0,0	Slew =,0.64	2R5	4	1	3,837,574:53:0	
2135	97	51	23:32:08.600	117GE105A106E4AC	7STRP	-0.0024,-0.02130	Slew =12.01	2R5	4	1	3,837,575:53:0	
2136	97	51	23:32:19.266	117GE105A106E4AD	7STRP	0.0,0.021108,0,0	Slew =,0.64	2R5	4	1	3,837,575:69:0	
2137	97	51	23:33:19.933	117GE105A106E4AE	7STRP	-0.0024,-0.02130	Slew =12.01	2R5	4	1	3,837,576:69:0	
2138	97	51	23:33:30.600	117GE105A106E4AF	7STRP	0.0,0.021108,0,0	Slew =,0.64	2R5	4	1	3,837,576:85:0	
2139	97	51	23:34:31.266	117GE105A106E4AG	7STRP	-0.0024,-0.02130	Slew =12.01	2R5	4	1	3,837,577:85:0	
2140	97	51	23:34:41.933	117GE105A106E4AH	7STRP	0.0,0.021108,0,0	Slew =,0.64	2R5	4	1	3,837,578:10:0	
2141	97	51	23:35:42.600	117GE11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,837,579:10:0	
2142	97	51	23:35:55.266	176GE6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,837,579:29:0	
2143	97	51	23:35:57.266		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 4916.74 +/-	2R5	4	1	3,837,579:32:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
2144	97	51	23:36:07.266		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *4917.87 +/-	2R5	4	1	3,837,579:47:0
2145	97	51	23:36:25.933		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *4913.49 +/-	2R5	4	1	3,837,579:75:0
2146	97	51	23:37:35.933	165JT4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,837,580:89:0
2147	97	51	23:37:36.600	165JT4B	7SCAN	NORM,318.227997,	Check S/P Position	2R5	4	1	3,837,580:90:0
2148	97	51	23:41:27.266	175IT422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	2R5	4	1	3,837,584:72:0
2149	97	51	23:41:27.266		DMS:	: *US-RUNUP	R806, TRACK 4, REV, TIC 4913.43 +/-	2R5	4	1	3,837,584:72:0
2150	97	51	23:41:38.600	165JT4C	7VECT		Inert vect update UTC	2R5	4	1	3,837,584:89:0
2151	97	51	23:41:39.266	165JT4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	2R5	4	1	3,837,584:90:0
2152	97	51	23:41:39.933	175IT176A6A	6TMREC	AI8	806.4 KBPS SSI RECORD Record Mode Change	2R5	4	1	3,837,585:00:0
2153	97	51	23:41:40.400		DMS:	**: *RECORD**	R806, TRACK 4, REV, TIC *4848.85 +/-	2R5	4	1	3,837,585:00:7
2154	97	51	23:41:49.266		DMS:	**: *RUNDOWN**	R806, TRACK 4, REV, TIC *4630.64 +/-	2R5	4	1	3,837,585:14:0
2155	97	51	23:41:49.266	175IT422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,837,585:14:0
2156	97	51	23:53:46.600	165GP4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,837,596:89:0
2157	97	51	23:53:47.266	165GP4B	7SCAN	NORM,319.898998,	Check S/P Position	2R5	4	1	3,837,596:90:0
2158	97	51	23:57:41.266	117GP	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,837,600:77:0
2159	97	51	23:57:50.600	117GP105A106A4A	7STRP	0.0,0.006003,0,0	Slew =,2.01	2R5	4	1	3,837,601:00:0
2160	97	51	23:57:50.600	176GP6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R5	4	1	3,837,601:00:0
2161	97	51	23:58:12.600	117GP11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,837,601:33:0
2162	97	51	23:58:23.933	176GP6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,837,601:50:0
2163	97	51	23:58:25.933		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 4619.14 +/-	2R5	4	1	3,837,601:53:0
2164	97	51	23:58:35.933		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *4620.27 +/-	2R5	4	1	3,837,601:68:0
2165	97	51	23:58:43.266		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *4618.55 +/-	2R5	4	1	3,837,601:79:0
2166	97	52	00:29:59.933	488AS6C	6TMSED	NORM,CL5	Sci, Eng, and D/L Chan	2R5	4	1	3,837,632:73:0
2167	97	52	00:30:00.600	282NF432A431A6A	6RCDSL	DDSNCG,PLSDSL,EP	Record Deselect (DDS o	2R5	4	1	3,837,632:74:0
2168	97	52	00:30:01.266	282NF432A6A	6RTSL1		R/T Select of DDS and	2R5	4	1	3,837,632:75:0
2169	97	52	01:21:44.600	165IV4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,837,683:89:0
2170	97	52	01:21:45.266	165IV4B	7SCAN	NORM,263.960999,	Check S/P Position	2R5	4	1	3,837,683:90:0
2171	97	52	01:25:47.266	165IV4C	7VECT		Inert vect update UTC	2R5	4	1	3,837,687:89:0
2172	97	52	01:25:47.933	165IV4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	2R5	4	1	3,837,687:90:0
2173	97	52	01:26:23.266	175IU422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2R5	4	1	3,837,688:52:0
2174	97	52	01:26:23.266		DMS:	: *US-RUNUP	R115, TRACK 4, REV, TIC 4618.49 +/-	2R5	4	1	3,837,688:52:0
2175	97	52	01:26:35.133		DMS:	**: *RECORD**	R115, TRACK 4, REV, TIC *4613.60 +/- 1	2R5	4	1	3,837,688:69:8
2176	97	52	01:26:35.266	175IU176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R5	4	1	3,837,688:70:0
2177	97	52	01:27:50.600	175IU422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,837,690:01:0
2178	97	52	01:27:50.600		DMS:	**: *RUNDOWN**	R115, TRACK 4, REV, TIC *4348.29 +/- 1	2R5	4	1	3,837,690:01:0
2179	**97**	**52**	**03:57:32.666**	**E6INCHEMIS06-**		**-----START------**		**2R5**	**4**	**1**	**: :**
2180	97	52	03:58:27.933	165EE4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,837,838:89:0
2181	97	52	03:58:28.600	165EE4B	7SCAN	NORM,344.632999,	Check S/P Position	2R5	4	1	3,837,838:90:0
2182	97	52	04:01:26.600	127EE	NIMSTAB	GS	%%%%% GROUP START TAB	2R5	4	1	3,837,841:84:0
2183	**97**	**52**	**04:01:26.600**	**127EE4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**3,837,841:84:0**
2184	**97**	**52**	**04:01:27.266**	**127EE4B**	**37ETB**	**07,C7,02,01,80,0**	**Loads wavelength edit table**	**2R3**	**4**	**0**	**3,837,841:85:0**
2185	97	52	04:01:35.266	127EE11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	3,837,842:06:0
2186	97	52	04:02:19.266	175EE422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	3,837,842:72:0
2187	97	52	04:02:19.266		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 4347.29 +/- 1	2R3	4	0	3,837,842:72:0
2188	97	52	04:02:22.600	117EE	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	3,837,842:77:0
2189	97	52	04:02:28.533		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *4348.58 +/- 1	2R3	4	0	3,837,842:85:9
2190	97	52	04:02:28.600	175EE176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R3	4	0	3,837,842:86:0
2191	97	52	04:02:31.933	117EE105A106A4A	**7STRP**	**-0.0097,0.0,0,0,**	**Slew =,0.06**	2R3	4	0	3,837,843:00:0
2192	**97**	**52**	**04:02:32.086**	**E6INCHEMIS06-**	**NIMPBK**	**301EE**	**MONITORING OF IO'S DAYSIDE**	**2R3**	**4**	**0**	**: :**
2193	97	52	04:03:02.600	488AT6A	6TMSED	NORM,CL3	Sci, Eng, and D/L Chan	2R3	4	0	3,837,843:46:0
2194	**97**	**52**	**04:04:37.333**	**E6INTHRMAL01-**		**-----START------**		**2R3**	**4**	**0**	**: :**
2195	**97**	**52**	**04:04:37.333**	**E6INCHEMIS06-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**
2196	97	52	04:05:15.933	117EE11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	3,837,845:64:0
2197	**97**	**52**	**04:05:16.086**	**E6INCHEMIS06-**	**DESELC**	**300EE**	**MONITORING OF IO'S DAYSIDE**	**2R3**	**4**	**0**	**: :**
2198	97	52	04:05:27.266	175EE422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,837,845:81:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
2199	97	52	04:05:27.266	175EE6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	3,837,845:81:0
2200	97	52	04:05:27.266		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *4306.69 +/- 1	2R3	4	0	3,837,845:81:0
2201	97	52	04:06:33.266	165EF4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,837,846:89:0
2202	97	52	04:06:33.933	165EF4B	7SCAN	NORM,345.367996,	Check S/P Position	2R3	4	0	3,837,846:90:0
2203	**97**	**52**	**04:08:31.266**	**125EF4A**	**37IST**	**0,2,0,OFF,0,1,1**	**Gain State 4**	**4R3**	**4**	**0**	**3,837,848:84:0**
2204	97	52	04:08:31.266	125EF	NIMSINIT	GS	##### GROUP START INIT	4R3	4	0	3,837,848:84:0
2205	97	52	04:08:31.266	125EF11A	NIMSINIT	GE	##### GROUP END INIT	4R3	4	0	3,837,848:84:0
2206	**97**	**52**	**04:09:31.933**	**127EF4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**4R3**	**4**	**0**	**3,837,849:84:0**
2207	97	52	04:09:31.933	127EF	NIMSTAB	GS	%%%%% GROUP START TAB	4R3	4	0	3,837,849:84:0
2208	**97**	**52**	**04:09:32.600**	**127EF4B**	**37ETB**	**07,C7,03,80,00,0**	**Loads wavelength edit table**	**4R3**	**4**	**0**	**3,837,849:85:0**
2209	97	52	04:09:40.600	127EF11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	3,837,850:06:0
2210	97	52	04:10:24.600		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 4306.63 +/- 1	4R3	4	0	3,837,850:72:0
2211	97	52	04:10:24.600	175EF422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	3,837,850:72:0
2212	97	52	04:10:27.933	117EF	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	3,837,850:77:0
2213	97	52	04:10:33.866		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *4307.93 +/- 1	4R3	4	0	3,837,850:85:9
2214	97	52	04:10:33.933	175EF176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	4R3	4	0	3,837,850:86:0
2215	97	52	04:10:37.266	117EF105A106A4A	**7STRP**	**-0.004,0.0,0,0,0**	**Slew =,0.06**	4R3	4	0	3,837,851:00:0
2216	**97**	**52**	**04:10:41.333**	**E6INTHRMAL01-**		**-----STOP-------**		**4R3**	**4**	**0**	**: :**
2217	97	52	04:11:46.600	117EF11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	3,837,852:13:0
2218	97	52	04:11:57.266	175EF6A	6TMREC	**NRC**	NO RECORD Record Mode Change	4R3	4	0	3,837,852:29:0
2219	97	52	04:11:57.266	175EF422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,837,852:29:0
2220	97	52	04:11:57.266		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *4288.38 +/- 1	4R3	4	0	3,837,852:29:0
2221	**97**	**52**	**04:22:49.333**	**E6NNHNDARK03-**		**-----START------**		**4R3**	**4**	**0**	**: :**
2222	97	52	04:23:44.600	165EG4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,837,863:89:0
2223	97	52	04:23:45.266	165EG4B	7SCAN	NORM,234.0,-11.5	Check S/P Position	4R3	4	0	3,837,863:90:0
2224	**97**	**52**	**04:26:43.266**	**127EG4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**4R3**	**4**	**0**	**3,837,866:84:0**
2225	97	52	04:26:43.266	127EG	NIMSTAB	GS	%%%%% GROUP START TAB	4R3	4	0	3,837,866:84:0
2226	**97**	**52**	**04:26:43.933**	**127EG4B**	**37ETB**	**07,C7,05,FF,FF,3**	**Loads wavelength edit table**	**4R3**	**4**	**0**	**3,837,866:85:0**
2227	97	52	04:26:51.933	127EG11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	3,837,867:06:0
2228	97	52	04:27:35.933	175EG422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	3,837,867:72:0
2229	97	52	04:27:35.933		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 4288.32 +/- 1	4R3	4	0	3,837,867:72:0
2230	97	52	04:27:45.200		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *4289.61 +/- 1	4R3	4	0	3,837,867:85:9
2231	97	52	04:27:45.266	175EG176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	4R3	4	0	3,837,867:86:0
2232	**97**	**52**	**04:27:48.752**	**E6NNHNDARK03-**	**NIMPBK**	**301EG**	**DARK OBSERVATION**	**4R3**	**4**	**0**	**: :**
2233	**97**	**52**	**04:28:49.418**	**E6NNHNDARK03-**	**DESELC**	**300EG**	**DARK OBSERVATION**	**4R3**	**4**	**0**	**: :**
2234	97	52	04:29:01.266	175EG6A	6TMREC	**NRC**	NO RECORD Record Mode Change	4R3	4	0	3,837,869:18:0
2235	97	52	04:29:01.266		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *4271.79 +/- 1	4R3	4	0	3,837,869:18:0
2236	97	52	04:29:01.266	175EG422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,837,869:18:0
2237	**97**	**52**	**04:29:53.999**	**E6NNHNDARK03-**		**-----STOP-------**		**4R3**	**4**	**0**	**: :**
2238	97	52	04:33:51.266	165GQ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,837,873:89:0
2239	97	52	04:33:51.933	165GQ4B	7SCAN	NORM,348.065998,	Check S/P Position	4R3	4	0	3,837,873:90:0
2240	97	52	04:37:45.933	117GQ	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	3,837,877:77:0
2241	97	52	04:37:55.266	176GQ6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	4R3	4	0	3,837,878:00:0
2242	97	52	04:37:55.266	117GQ105A106A4A	7STRP	0.0,0.006,0,0,0,	Slew =,0.61	4R3	4	0	3,837,878:00:0
2243	97	52	04:38:17.266	117GQ11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	3,837,878:33:0
2244	97	52	04:38:28.600	176GQ6B	6TMREC	**NRC**	NO RECORD Record Mode Change	4R3	4	0	3,837,878:50:0
2245	97	52	04:38:30.600		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 4271.73 +/- 1	4R3	4	0	3,837,878:53:0
2246	97	52	04:38:40.600		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *4272.85 +/- 1	4R3	4	0	3,837,878:68:0
2247	97	52	04:38:47.933		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *4271.13 +/- 1	4R3	4	0	3,837,878:79:0
2248	97	52	04:58:30.600	488AT6B	6TMSED	NORM,CL2	Sci, Eng, and D/L Chan	4R3	4	0	3,837,898:33:0
2249	97	52	04:59:59.933	481UD4A	7VECT	BB1	Inert vect update UTC	4R3	4	0	3,837,899:76:0
2250	97	52	05:22:57.933	488AT6C	6TMSED	FILL,CL2	Sci, Eng, and D/L Chan	4R3	4	0	3,837,922:50:0
2251	97	52	05:39:02.600	488AT6D	6TMSED	FILL,CL1	Sci, Eng, and D/L Chan	4R3	4	0	3,837,938:41:0
2252	97	52	06:13:57.266	165GR4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,837,972:89:0
2253	97	52	06:13:57.933	165GR4B	7SCAN	NORM,357.105,-0.	Check S/P Position	4R3	4	0	3,837,972:90:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
2254	97	52	06:15:18.600	488AT6E	6TMSED	FILL,CL2	Sci, Eng, and D/L Chan	4R3	4	0	3,837,974:29:0
2255	97	52	06:17:51.933	117GR	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	3,837,976:77:0
2256	97	52	06:18:01.266	176GR6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	4R3	4	0	3,837,977:00:0
2257	97	52	06:18:01.266	117GR105A106A4A	7STRP	0.0,0.006,0,0,0,	Slew =,0.61	4R3	4	0	3,837,977:00:0
2258	97	52	06:18:23.266	117GR11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	3,837,977:33:0
2259	97	52	06:18:34.600	176GR6B	6TMREC	**NRC**	NO RECORD Record Mode Change	4R3	4	0	3,837,977:50:0
2260	97	52	06:18:36.600		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 4271.07 +/- 1	4R3	4	0	3,837,977:53:0
2261	97	52	06:18:46.600		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *4272.19 +/- 1	4R3	4	0	3,837,977:68:0
2262	97	52	06:18:53.933		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *4270.47 +/- 1	4R3	4	0	3,837,977:79:0
2263	97	52	06:19:59.933	488AU6A	6TMSED	FILL,DL2	Sci, Eng, and D/L Chan	4R3	4	0	3,837,978:87:0
2264	97	52	06:37:09.933	488AV6A	6TMSED	FILL,DL2	Sci, Eng, and D/L Chan	4R3	4	0	3,837,995:85:0
2265	97	52	06:45:14.600	125FV11A	NIMSINIT	GE	##### GROUP END INIT	4R3	4	0	3,838,003:84:0
2266	97	52	06:45:14.600	125FV	NIMSINIT	GS	##### GROUP START INIT	4R3	4	0	3,838,003:84:0
2267	**97**	**52**	**06:45:14.600**	**125FV4A**	**37IST**	**0,2,0,OFF,0,1,0**	**Gain State 2**	**2R3**	**4**	**0**	**3,838,003:84:0**
2268	**97**	**52**	**06:45:23.266**	**E6NNHEALTH04-**		**-----START------**		**2R3**	**4**	**0**	**: :**
2269	97	52	06:46:15.266	127FV	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	3,838,004:84:0
2270	**97**	**52**	**06:46:15.266**	**127FV4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**3,838,004:84:0**
2271	**97**	**52**	**06:46:15.933**	**127FV4B**	**37ETB**	**07,C7,02,80,44,3**	**Loads wavelength edit table**	**2R3**	**4**	**0**	**3,838,004:85:0**
2272	97	52	06:46:23.933	127FV11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	3,838,005:06:0
2273	**97**	**52**	**06:46:39.933**	**432EG6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**	**NIMS R/T SELECT**	**2R3**	**4**	**0**	**3,838,005:30:0**
2274	**97**	**52**	**06:47:39.266**	**432EH6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**2R3**	**4**	**0**	**3,838,006:28:0**
2275	**97**	**52**	**06:50:26.600**	**E6NNHEALTH04-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**
2276	**97**	**52**	**06:50:26.600**	**E6NIMSP2LD04-**		**-----START------**		**2R3**	**4**	**0**	**: :**
2277	**97**	**52**	**06:51:27.266**	**20EG6A**	**6CKSUM**	**NIMS**	**NIMS,1000,14BC**	**2R3**	**4**	**0**	**3,838,010:06:0**
2278	**97**	**52**	**06:52:27.933**	**20EG5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**2R3**	**4**	**0**	**3,838,011:06:0**
2279	**97**	**52**	**06:53:28.600**	**20EG5B**	**37MRL**		**Memory Realocate (software operates from R**	**2R3**	**4**	**0**	**3,838,012:06:0**
2280	**97**	**52**	**06:54:29.266**	**20EG6B**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**2R3**	**4**	**0**	**3,838,013:06:0**
2281	**97**	**52**	**06:55:29.933**	**20EG6C**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**2R3**	**4**	**0**	**3,838,014:06:0**
2282	**97**	**52**	**06:56:30.600**	**20EG5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**3,838,015:06:0**
2283	**97**	**52**	**06:57:31.266**	**20EG5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**3,838,016:06:0**
2284	**97**	**52**	**06:58:31.933**	**20EG4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**3,838,017:06:0**
2285	**97**	**52**	**06:59:32.600**	**20EG4B**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**3,838,018:06:0**
2286	**97**	**52**	**07:00:33.266**	**E6NIMSP2LD04-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**
2287	**97**	**52**	**07:01:33.933**	**E6JNFEA09501-**		**-----START------**		**2R3**	**4**	**0**	**: :**
2288	97	52	07:02:29.266	165EH4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,838,020:89:0
2289	97	52	07:02:29.933	165EH4B	7SCAN	NORM,32.71,11.83	Check S/P Position	2R3	4	0	3,838,020:90:0
2290	97	52	07:04:27.266	125EH11A	NIMSINIT	GE	##### GROUP END INIT	2R3	4	0	3,838,022:84:0
2291	**97**	**52**	**07:04:27.266**	**125EH4A**	**37IST**	**0,2,0,OFF,0,1,0**	**Gain State 2**	**2R3**	**4**	**0**	**3,838,022:84:0**
2292	97	52	07:04:27.266	125EH	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	3,838,022:84:0
2293	97	52	07:05:27.933	127EH	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	3,838,023:84:0
2294	**97**	**52**	**07:05:27.933**	**127EH4A**	**37IOP**	**5,1**	**Short Map, Grating Start Position =01**	**2R5**	**4**	**1**	**3,838,023:84:0**
2295	**97**	**52**	**07:05:28.600**	**127EH4B**	**37ETB**	**,CD,02,00,00,05,**	**Loads wavelength edit table**	**2R5**	**4**	**1**	**3,838,023:85:0**
2296	97	52	07:05:36.600	127EH11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R5	4	1	3,838,024:06:0
2297	97	52	07:06:20.600	175EH422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,838,024:72:0
2298	97	52	07:06:20.600		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 4270.41 +/- 1	2R5	4	1	3,838,024:72:0
2299	97	52	07:06:23.933	117EH	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,838,024:77:0
2300	97	52	07:06:29.866		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *4271.71 +/- 1	2R5	4	1	3,838,024:85:9
2301	97	52	07:06:29.933	175EH176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	3,838,024:86:0
2302	97	52	07:06:33.266	117EH105A106A4A	**7STRP**	**0.0109,0.0,0,0,0**	**Slew =,0.11**	2R5	4	1	3,838,025:00:0
2303	**97**	**52**	**07:06:33.413**	**E6JNFEA09501-**	**NIMPBK**	**301EH**	**JUPITER FEATURE TRACK 95 DEG PHA**	**2R5**	**4**	**1**	**: :**
2304	97	52	07:08:13.266	117EH11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,838,026:59:0
2305	**97**	**52**	**07:08:13.413**	**E6JNFEA09501-**	**DESELC**	**300EH**	**JUPITER FEATURE TRACK 95 DEG PHA**	**2R5**	**4**	**1**	**: :**
2306	97	52	07:08:24.600	175EH422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,838,026:76:0
2307	97	52	07:08:24.600	175EH6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,838,026:76:0
2308	97	52	07:08:24.600		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *4244.82 +/- 1	2R5	4	1	3,838,026:76:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2309	97	52	07:08:33.266	165GS4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,838,026:89:0	
2310	97	52	07:08:33.933	165GS4B	7SCAN	NORM,32.14,11.85	Check S/P Position	2R5	4	1	3,838,026:90:0	
2311	**97**	**52**	**07:08:38.600**	**E6JNFEA09501-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**	
2312	97	52	07:12:27.933	117GS	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,838,030:77:0	
2313	97	52	07:12:37.266	117GS105A106A4A	7STRP	0.0,0.01115,0,0,	Slew =,0.16	2R5	4	1	3,838,031:00:0	
2314	97	52	07:12:37.266	176GS6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R5	4	1	3,838,031:00:0	
2315	97	52	07:13:47.933	117GS105A106A4B	7STRP	-0.002,-0.01118,	Slew =12.01	2R5	4	1	3,838,032:15:0	
2316	97	52	07:13:58.600	117GS105A106A4C	7STRP	0.0,0.01115,0,0,	Slew =,0.16	2R5	4	1	3,838,032:31:0	
2317	97	52	07:15:09.266	117GS105A106A4D	7STRP	-0.002,-0.01118,	Slew =12.01	2R5	4	1	3,838,033:46:0	
2318	97	52	07:15:19.933	117GS105A106A4E	7STRP	0.0,0.01115,0,0,	Slew =,0.16	2R5	4	1	3,838,033:62:0	
2319	97	52	07:16:30.600	117GS105A106A4F	7STRP	-0.002,-0.01118,	Slew =12.01	2R5	4	1	3,838,034:77:0	
2320	97	52	07:16:41.266	117GS105A106A4G	7STRP	0.0,0.01115,0,0,	Slew =,0.16	2R5	4	1	3,838,035:02:0	
2321	97	52	07:17:51.933	117GS105A106A4H	7STRP	-0.002,-0.01118,	Slew =12.01	2R5	4	1	3,838,036:17:0	
2322	97	52	07:18:02.600	117GS105A106A4I	7STRP	0.0,0.01115,0,0,	Slew =,0.16	2R5	4	1	3,838,036:33:0	
2323	97	52	07:19:13.266	117GS105A106A4J	7STRP	-0.002,-0.01118,	Slew =12.01	2R5	4	1	3,838,037:48:0	
2324	97	52	07:19:23.933	117GS105A106A4K	7STRP	0.0,0.01115,0,0,	Slew =,0.16	2R5	4	1	3,838,037:64:0	
2325	97	52	07:20:34.600	117GS105A106A4L	7STRP	-0.002,-0.01118,	Slew =12.01	2R5	4	1	3,838,038:79:0	
2326	97	52	07:20:45.266	117GS105A106A4M	7STRP	0.0,0.01115,0,0,	Slew =,0.16	2R5	4	1	3,838,039:04:0	
2327	97	52	07:21:55.933	117GS105A106A4N	7STRP	-0.002,-0.01118,	Slew =12.01	2R5	4	1	3,838,040:19:0	
2328	97	52	07:22:06.600	117GS105A106A4O	7STRP	0.0,0.01115,0,0,	Slew =,0.16	2R5	4	1	3,838,040:35:0	
2329	97	52	07:23:17.266	117GS105A106A4P	7STRP	-0.002,-0.01118,	Slew =12.01	2R5	4	1	3,838,041:50:0	
2330	97	52	07:23:27.933	117GS105A106A4Q	7STRP	0.0,0.01115,0,0,	Slew =,0.16	2R5	4	1	3,838,041:66:0	
2331	97	52	07:24:38.600	117GS105A106A4R	7STRP	-0.002,-0.01118,	Slew =12.01	2R5	4	1	3,838,042:81:0	
2332	97	52	07:24:49.266	117GS105A106A4S	7STRP	0.0,0.01115,0,0,	Slew =,0.16	2R5	4	1	3,838,043:06:0	
2333	97	52	07:25:12.600		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 4244.76 +/- 1	2R5	4	1	3,838,043:41:0	
2334	97	52	07:25:37.266		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *4242.44 +/- 1	2R5	4	1	3,838,043:78:0	
2335	97	52	07:25:57.266		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *4237.76 +/- 1	2R5	4	1	3,838,044:17:0	
2336	97	52	07:25:59.933	117GS105A106A4T	7STRP	-0.002,-0.01118,	Slew =12.01	2R5	4	1	3,838,044:21:0	
2337	97	52	07:26:10.600	117GS105A106A4U	7STRP	0.0,0.01115,0,0,	Slew =,0.16	2R5	4	1	3,838,044:37:0	
2338	97	52	07:27:21.266	117GS105A106A4V	7STRP	-0.002,-0.01118,	Slew =12.01	2R5	4	1	3,838,045:52:0	
2339	97	52	07:27:31.933	117GS105A106A4W	7STRP	0.0,0.01115,0,0,	Slew =,0.16	2R5	4	1	3,838,045:68:0	
2340	97	52	07:28:42.600	117GS105A106A4X	7STRP	-0.002,-0.01118,	Slew =12.01	2R5	4	1	3,838,046:83:0	
2341	97	52	07:28:53.266	117GS105A106A4Y	7STRP	0.0,0.01115,0,0,	Slew =,0.16	2R5	4	1	3,838,047:08:0	
2342	97	52	07:30:03.933	117GS105A106A4Z	7STRP	-0.002,-0.01118,	Slew =12.01	2R5	4	1	3,838,048:23:0	
2343	97	52	07:30:14.600	117GS105A106A4AA	7STRP	0.0,0.01115,0,0,	Slew =,0.16	2R5	4	1	3,838,048:39:0	
2344	97	52	07:31:25.266	117GS105A106A4AB	7STRP	-0.002,-0.01118,	Slew =12.01	2R5	4	1	3,838,049:54:0	
2345	97	52	07:31:35.933	117GS105A106A4AC	7STRP	0.0,0.01115,0,0,	Slew =,0.16	2R5	4	1	3,838,049:70:0	
2346	97	52	07:32:46.600	117GS105A106A4AD	7STRP	-0.002,-0.01118,	Slew =12.01	2R5	4	1	3,838,050:85:0	
2347	97	52	07:32:57.266	117GS105A106A4AE	7STRP	0.0,0.01115,0,0,	Slew =,0.16	2R5	4	1	3,838,051:10:0	
2348	97	52	07:34:07.933	117GS105A106A4AF	7STRP	-0.002,-0.01118,	Slew =12.01	2R5	4	1	3,838,052:25:0	
2349	97	52	07:34:18.600	117GS105A106A4AG	7STRP	0.0,0.01115,0,0,	Slew =,0.16	2R5	4	1	3,838,052:41:0	
2350	97	52	07:35:29.266	117GS105A106A4AH	7STRP	-0.002,-0.01118,	Slew =12.01	2R5	4	1	3,838,053:56:0	
2351	97	52	07:35:39.933	117GS105A106A4AI	7STRP	0.0,0.01115,0,0,	Slew =,0.16	2R5	4	1	3,838,053:72:0	
2352	97	52	07:36:50.600	117GS105A106A4AJ	7STRP	-0.002,-0.01118,	Slew =12.01	2R5	4	1	3,838,054:87:0	
2353	97	52	07:37:01.266	117GS105A106A4AK	7STRP	0.0,0.01115,0,0,	Slew =,0.16	2R5	4	1	3,838,055:12:0	
2354	97	52	07:38:11.933	117GS105A106A4AL	7STRP	-0.002,-0.01118,	Slew =12.01	2R5	4	1	3,838,056:27:0	
2355	97	52	07:38:14.600		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 4237.70 +/- 1	2R5	4	1	3,838,056:31:0	
2356	97	52	07:38:22.600	117GS105A106A4AM	7STRP	0.0,0.01115,0,0,	Slew =,0.16	2R5	4	1	3,838,056:43:0	
2357	97	52	07:38:39.266		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *4235.38 +/- 1	2R5	4	1	3,838,056:68:0	
2358	97	52	07:38:59.266		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *4230.69 +/- 1	2R5	4	1	3,838,057:07:0	
2359	97	52	07:39:33.266	117GS105A106A4AN	7STRP	-0.002,-0.01118,	Slew =12.01	2R5	4	1	3,838,057:58:0	
2360	97	52	07:39:43.933	117GS105A106A4AO	7STRP	0.0,0.01115,0,0,	Slew =,0.16	2R5	4	1	3,838,057:74:0	
2361	97	52	07:40:54.600	117GS105A106A4AP	7STRP	-0.002,-0.01118,	Slew =12.01	2R5	4	1	3,838,058:89:0	
2362	97	52	07:41:05.266	117GS105A106A4AQ	7STRP	0.0,0.01115,0,0,	Slew =,0.16	2R5	4	1	3,838,059:14:0	
2363	97	52	07:42:15.933	117GS105A106A4AR	7STRP	-0.002,-0.01118,	Slew =12.01	2R5	4	1	3,838,060:29:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2364	97	52	07:42:26.600	117GS105A106A4AS	7STRP	0.0,0.01115,0,0,	Slew =,0.16	2R5	4	1	3,838,060:45:0	
2365	97	52	07:43:37.266	117GS105A106A4AT	7STRP	-0.002,-0.01118,	Slew =12.01	2R5	4	1	3,838,061:60:0	
2366	97	52	07:43:47.933	117GS105A106A4AU	7STRP	0.0,0.01115,0,0,	Slew =,0.16	2R5	4	1	3,838,061:76:0	
2367	97	52	07:44:58.600	117GS105A106A4AV	7STRP	-0.002,-0.01118,	Slew =12.01	2R5	4	1	3,838,063:00:0	
2368	97	52	07:45:09.266	117GS105A106A4AW	7STRP	0.0,0.01115,0,0,	Slew =,0.16	2R5	4	1	3,838,063:16:0	
2369	97	52	07:46:19.933	117GS105A106A4AX	7STRP	-0.002,-0.01118,	Slew =12.01	2R5	4	1	3,838,064:31:0	
2370	97	52	07:46:30.600	117GS105A106A4AY	7STRP	0.0,0.01115,0,0,	Slew =,0.16	2R5	4	1	3,838,064:47:0	
2371	97	52	07:47:41.266	117GS105A106A4AZ	7STRP	-0.002,-0.01118,	Slew =12.01	2R5	4	1	3,838,065:62:0	
2372	97	52	07:47:51.933	117GS105A106A4BA	7STRP	0.0,0.01115,0,0,	Slew =,0.16	2R5	4	1	3,838,065:78:0	
2373	97	52	07:49:02.600	176GS6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,838,067:02:0	
2374	97	52	07:49:02.600	117GS11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,838,067:02:0	
2375	97	52	07:49:04.600		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 4230.63 +/- 1	2R5	4	1	3,838,067:05:0	
2376	**97**	**52**	**07:49:05.266**	**E6JNFEA09502-**		**-----START------**		**2R5**	**4**	**1**	**: :**	
2377	97	52	07:49:14.600		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *4231.76 +/- 1	2R5	4	1	3,838,067:20:0	
2378	97	52	07:49:31.266		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *4227.85 +/- 1	2R5	4	1	3,838,067:45:0	
2379	97	52	07:50:00.600	165EI4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,838,067:89:0	
2380	97	52	07:50:01.266	165EI4B	7SCAN	NORM,33.848,12.2	Check S/P Position	2R5	4	1	3,838,067:90:0	
2381	97	52	07:53:51.933		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 4227.79 +/- 1	2R5	4	1	3,838,071:72:0	
2382	97	52	07:53:51.933	175EI422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,838,071:72:0	
2383	97	52	07:53:55.266	117EI	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,838,071:77:0	
2384	97	52	07:54:01.200		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *4229.08 +/- 1	2R5	4	1	3,838,071:85:9	
2385	97	52	07:54:01.266	175EI176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	3,838,071:86:0	
2386	97	52	07:54:04.600	117EI105A106A4A	**7STRP**	**0.0109,0.0,0,0,0**	**Slew =,0.11**	2R5	4	1	3,838,072:00:0	
2387	**97**	**52**	**07:54:04.744**	**E6JNFEA09502-**	**NIMPBK**	**301EI**	**JUPITER FEATURE TRACK 95 DEG PHA**	**2R5**	**4**	**1**	**: :**	
2388	97	52	07:55:44.600	117EI11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,838,073:59:0	
2389	**97**	**52**	**07:55:44.744**	**E6JNFEA09502-**	**DESELC**	**300EI**	**JUPITER FEATURE TRACK 95 DEG PHA**	**2R5**	**4**	**1**	**: :**	
2390	97	52	07:55:55.933	175EI422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,838,073:76:0	
2391	97	52	07:55:55.933	175EI6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,838,073:76:0	
2392	97	52	07:55:55.933		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *4202.19 +/- 1	2R5	4	1	3,838,073:76:0	
2393	**97**	**52**	**07:56:09.933**	**E6JNFEA09502-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**	
2394	**97**	**52**	**08:01:13.266**	**E6JNFEA09503-**		**-----START------**		**2R5**	**4**	**1**	**: :**	
2395	97	52	08:02:08.600	165EJ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,838,079:89:0	
2396	97	52	08:02:09.266	165EJ4B	7SCAN	NORM,34.213,12.3	Check S/P Position	2R5	4	1	3,838,079:90:0	
2397	97	52	08:05:59.933	175EJ422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,838,083:72:0	
2398	97	52	08:05:59.933		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 4202.13 +/- 1	2R5	4	1	3,838,083:72:0	
2399	97	52	08:06:03.266	117EJ	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,838,083:77:0	
2400	97	52	08:06:09.200		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *4203.43 +/- 1	2R5	4	1	3,838,083:85:9	
2401	97	52	08:06:09.266	175EJ176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	3,838,083:86:0	
2402	97	52	08:06:12.600	117EJ105A106A4A	**7STRP**	**0.0109,0.0,0,0,0**	**Slew =,0.11**	2R5	4	1	3,838,084:00:0	
2403	**97**	**52**	**08:06:12.744**	**E6JNFEA09503-**	**NIMPBK**	**301EJ**	**JUPITER FEATURE TRACK 95 DEG PHA**	**2R5**	**4**	**1**	**: :**	
2404	**97**	**52**	**08:07:52.077**	**E6JNFEA09503-**	**DESELC**	**300EJ**	**JUPITER FEATURE TRACK 95 DEG PHA**	**2R5**	**4**	**1**	**: :**	
2405	97	52	08:07:52.600	117EJ11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,838,085:59:0	
2406	97	52	08:07:53.933	175EJ422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,838,085:61:0	
2407	97	52	08:07:53.933	175EJ6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,838,085:61:0	
2408	97	52	08:07:53.933		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *4178.88 +/- 1	2R5	4	1	3,838,085:61:0	
2409	**97**	**52**	**08:08:17.933**	**E6JNFEA09503-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**	
2410	97	52	08:10:13.933	165IW4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,838,087:89:0	
2411	97	52	08:10:14.600	165IW4B	7SCAN	NORM,7.023,3.696	Check S/P Position	2R5	4	1	3,838,087:90:0	
2412	97	52	08:14:15.266	175IV422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	2R5	4	1	3,838,091:87:0	
2413	97	52	08:14:15.266		DMS:	: *US-RUNUP	R806, TRACK 4, REV, TIC 4178.82 +/- 1	2R5	4	1	3,838,091:87:0	
2414	97	52	08:14:16.600	165IW4C	7VECT		Inert vect update UTC	2R5	4	1	3,838,091:89:0	
2415	97	52	08:14:17.266	165IW4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	2R5	4	1	3,838,091:90:0	
2416	**97**	**52**	**08:14:21.999**	**E6INVOLCAN01-**		**-----START------**		**2R5**	**4**	**1**	**: :**	
2417	97	52	08:14:27.933	175IV176A6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	2R5	4	1	3,838,092:15:0	
2418	97	52	08:14:28.400		DMS:	**: *RECORD**	R806, TRACK 4, REV, TIC *4114.23 +/- 1	2R5	4	1	3,838,092:15:7	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
2419	97	52	08:14:33.266	175IV422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,838,092:23:0
2420	97	52	08:14:33.266		DMS:	**: *RUNDOWN**	R806, TRACK 4, REV, TIC *3994.47 +/- 1	2R5	4	1	3,838,092:23:0
2421	97	52	08:15:17.266	165EK4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,838,092:89:0
2422	97	52	08:15:17.933	165EK4B	7SCAN	NORM,7.268,4.013	Check S/P Position	2R5	4	1	3,838,092:90:0
2423	**97**	**52**	**08:17:15.266**	**125EK4A**	**37IST**	**0,2,0,OFF,0,1,1**	**Gain State 4**	**4R5**	**4**	**1**	**3,838,094:84:0**
2424	97	52	08:17:15.266	125EK	NIMSINIT	GS	##### GROUP START INIT	4R5	4	1	3,838,094:84:0
2425	97	52	08:17:15.266	125EK11A	NIMSINIT	GE	##### GROUP END INIT	4R5	4	1	3,838,094:84:0
2426	**97**	**52**	**08:18:15.933**	**127EK4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**4R3**	**4**	**0**	**3,838,095:84:0**
2427	97	52	08:18:15.933	127EK	NIMSTAB	GS	%%%%% GROUP START TAB	4R3	4	0	3,838,095:84:0
2428	**97**	**52**	**08:18:16.600**	**127EK4B**	**37ETB**	**07,C7,03,80,00,0**	**Loads wavelength edit table**	**4R3**	**4**	**0**	**3,838,095:85:0**
2429	97	52	08:18:24.600	127EK11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	3,838,096:06:0
2430	97	52	08:19:08.600		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 3982.97 +/- 1	4R3	4	0	3,838,096:72:0
2431	97	52	08:19:08.600	175EK422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	3,838,096:72:0
2432	97	52	08:19:11.933	117EK	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	3,838,096:77:0
2433	97	52	08:19:17.866		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *3984.26 +/- 1	4R3	4	0	3,838,096:85:9
2434	97	52	08:19:17.933	175EK176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	4R3	4	0	3,838,096:86:0
2435	97	52	08:19:21.266	117EK105A106A4A	**7STRP**	**-0.003,0.0,0,0,0**	**Slew =,0.04**	4R3	4	0	3,838,097:00:0
2436	**97**	**52**	**08:19:21.410**	**E6INVOLCAN01-**	**NIMPBK**	**301EK**	**MONITORING OF SELECTED VOLCANIC**	**4R3**	**4**	**0**	**: :**
2437	**97**	**52**	**08:20:25.999**	**E6INVOLCAN01-**		**-----STOP-------**		**4R3**	**4**	**0**	**: :**
2438	97	52	08:20:37.266	117EK11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	3,838,098:23:0
2439	**97**	**52**	**08:20:37.410**	**E6INVOLCAN01-**	**DESELC**	**300EK**	**MONITORING OF SELECTED VOLCANIC**	**4R3**	**4**	**0**	**: :**
2440	97	52	08:20:48.600		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *3963.00 +/- 1	4R3	4	0	3,838,098:40:0
2441	97	52	08:20:48.600	175EK6A	6TMREC	**NRC**	NO RECORD Record Mode Change	4R3	4	0	3,838,098:40:0
2442	97	52	08:20:48.600	175EK422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,838,098:40:0
2443	97	52	08:25:23.933	165GT4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,838,102:89:0
2444	97	52	08:25:24.600	165GT4B	7SCAN	NORM,80.740999,2	Check S/P Position	4R3	4	0	3,838,102:90:0
2445	97	52	08:29:18.600	117GT	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	3,838,106:77:0
2446	97	52	08:29:27.933	117GT105A106A4A	7STRP	0.0,-0.006,0,0,0	Slew =,0.61	4R3	4	0	3,838,107:00:0
2447	97	52	08:29:27.933	176GT6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	4R3	4	0	3,838,107:00:0
2448	97	52	08:29:49.933	117GT11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	3,838,107:33:0
2449	97	52	08:30:01.266	176GT6B	6TMREC	**NRC**	NO RECORD Record Mode Change	4R3	4	0	3,838,107:50:0
2450	97	52	08:30:03.266		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 3962.94 +/- 1	4R3	4	0	3,838,107:53:0
2451	97	52	08:30:13.266		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *3964.06 +/- 1	4R3	4	0	3,838,107:68:0
2452	97	52	08:30:20.600		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *3962.34 +/- 1	4R3	4	0	3,838,107:79:0
2453	**97**	**52**	**08:31:33.266**	**E6JNFEA53M01-**		**-----START------**		**4R3**	**4**	**0**	**: :**
2454	97	52	08:39:33.266	165EL4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,838,116:89:0
2455	97	52	08:39:33.933	165EL4B	7SCAN	NORM,34.802,12.6	Check S/P Position	4R3	4	0	3,838,116:90:0
2456	97	52	08:42:31.933	127EL	NIMSTAB	GS	%%%%% GROUP START TAB	4R3	4	0	3,838,119:84:0
2457	**97**	**52**	**08:42:31.933**	**127EL4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**4R3**	**4**	**0**	**3,838,119:84:0**
2458	**97**	**52**	**08:42:32.600**	**127EL4B**	**37ETB**		**Loads wavelength edit table**	**4R3**	**4**	**0**	**3,838,119:85:0**
2459	97	52	08:42:40.600	127EL11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	3,838,120:06:0
2460	97	52	08:43:24.600	175EL422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	3,838,120:72:0
2461	97	52	08:43:24.600		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 3962.28 +/- 1	4R3	4	0	3,838,120:72:0
2462	97	52	08:43:27.933	117EL	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	3,838,120:77:0
2463	97	52	08:43:33.866		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *3963.58 +/- 1	4R3	4	0	3,838,120:85:9
2464	97	52	08:43:33.933	175EL176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	4R3	4	0	3,838,120:86:0
2465	97	52	08:43:37.266	117EL105A106A4A	**7STRP**	**0.0108,0.0,0,0,0**	**Slew =,0.03**	4R3	4	0	3,838,121:00:0
2466	**97**	**52**	**08:43:37.410**	**E6JNFEA53M01-**	**NIMPBK**	**301EL**	**JUPITER CAMPAIGN FEATURE 5 AND 3**	**4R3**	**4**	**0**	**: :**
2467	97	52	08:45:29.266	488AV6B	6TMSED	NORM,DL2	Sci, Eng, and D/L Chan	4R3	4	0	3,838,122:77:0
2468	97	52	08:49:41.266	117EL105A106A4B	**7STRP**	**-0.0114,0.0,0,0,**	**Slew =12.01**	4R3	4	0	3,838,127:00:0
2469	**97**	**52**	**08:49:41.409**	**E6JNFEA53M01-**	**DESELC**	**300EL**	**JUPITER CAMPAIGN FEATURE 5 AND 3**	**4R3**	**4**	**0**	**: :**
2470	97	52	08:49:52.600	175EL422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,838,127:17:0
2471	97	52	08:49:52.600	175EL6A	6TMREC	**NRC**	NO RECORD Record Mode Change	4R3	4	0	3,838,127:17:0
2472	97	52	08:49:52.600		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *3874.81 +/- 1	4R3	4	0	3,838,127:17:0
2473	**97**	**52**	**08:50:45.933**	**E6JNFEA53M01-**		**-----STOP-------**		**4R3**	**4**	**0**	**: :**

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2474	97	52	08:51:42.600	117EL105A106A4C	**7STRP**	**0.0108,0.0,0,0,0**	**Slew =,0.03**	4R3	4	0	3,838,129	00:0
2475	97	52	08:57:46.600	117EL11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	3,838,135	00:0
2476	97	52	08:58:45.933	165GG4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,838,135	89:0
2477	97	52	08:58:46.600	165GG4B	7SCAN	NORM,35.61,13.95	Check S/P Position	4R3	4	0	3,838,135	90:0
2478	97	52	08:59:38.600	117GG	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	3,838,136	77:0
2479	97	52	08:59:47.933	117GG105A106A4A	7STRP	-0.044529,0.0,0,	Slew =,0.64	4R3	4	0	3,838,137	00:0
2480	97	52	08:59:47.933	176GG6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	4R3	4	0	3,838,137	00:0
2481	97	52	09:01:01.266	117GG105A106A4B	7STRP	0.044028,0.001,0	Slew =12.01	4R3	4	0	3,838,138	19:0
2482	97	52	09:01:09.266	117GG105A106A4C	7STRP	-0.044529,0.0,0,	Slew =,0.64	4R3	4	0	3,838,138	31:0
2483	97	52	09:02:22.600	117GG105A106A4D	7STRP	0.044028,0.001,0	Slew =12.01	4R3	4	0	3,838,139	50:0
2484	97	52	09:02:30.600	117GG105A106A4E	7STRP	-0.044529,0.0,0,	Slew =,0.64	4R3	4	0	3,838,139	62:0
2485	97	52	09:03:43.933	117GG105A106A4F	7STRP	0.044028,0.001,0	Slew =12.01	4R3	4	0	3,838,140	81:0
2486	97	52	09:03:51.933	117GG105A106A4G	7STRP	-0.044529,0.0,0,	Slew =,0.64	4R3	4	0	3,838,141	02:0
2487	97	52	09:05:05.266	117GG105A106A4H	7STRP	0.044028,0.001,0	Slew =12.01	4R3	4	0	3,838,142	21:0
2488	97	52	09:05:13.266	117GG105A106A4I	7STRP	-0.044529,0.0,0,	Slew =,0.64	4R3	4	0	3,838,142	33:0
2489	97	52	09:06:26.600	117GG105A106A4J	7STRP	0.044028,0.001,0	Slew =12.01	4R3	4	0	3,838,143	52:0
2490	97	52	09:06:34.600	117GG105A106A4K	7STRP	-0.044529,0.0,0,	Slew =,0.64	4R3	4	0	3,838,143	64:0
2491	97	52	09:07:47.933	117GG105A106A4L	7STRP	0.044028,0.001,0	Slew =12.01	4R3	4	0	3,838,144	83:0
2492	97	52	09:07:55.933	117GG105A106A4M	7STRP	-0.044529,0.0,0,	Slew =,0.64	4R3	4	0	3,838,145	04:0
2493	97	52	09:09:09.266	117GG105A106A4N	7STRP	0.044028,0.001,0	Slew =12.01	4R3	4	0	3,838,146	23:0
2494	97	52	09:09:17.266	117GG105A106A4O	7STRP	-0.044529,0.0,0,	Slew =,0.64	4R3	4	0	3,838,146	35:0
2495	97	52	09:10:30.600	117GG105A106A4P	7STRP	0.044028,0.001,0	Slew =12.01	4R3	4	0	3,838,147	54:0
2496	97	52	09:10:38.600	117GG105A106A4Q	7STRP	-0.044529,0.0,0,	Slew =,0.64	4R3	4	0	3,838,147	66:0
2497	97	52	09:11:51.933	117GG105A106A4R	7STRP	0.044028,0.001,0	Slew =12.01	4R3	4	0	3,838,148	85:0
2498	97	52	09:11:59.933	117GG105A106A4S	7STRP	-0.044529,0.0,0,	Slew =,0.64	4R3	4	0	3,838,149	06:0
2499	97	52	09:12:23.266		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 3874.75 +/- 1	4R3	4	0	3,838,149	41:0
2500	97	52	09:12:47.933		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *3872.44 +/- 1	4R3	4	0	3,838,149	78:0
2501	97	52	09:13:07.933		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *3867.75 +/- 1	4R3	4	0	3,838,150	17:0
2502	97	52	09:13:13.266	117GG105A106A4T	7STRP	0.044028,0.001,0	Slew =12.01	4R3	4	0	3,838,150	25:0
2503	97	52	09:13:21.266	117GG105A106A4U	7STRP	-0.044529,0.0,0,	Slew =,0.64	4R3	4	0	3,838,150	37:0
2504	97	52	09:14:34.600	117GG105A106A4V	7STRP	0.044028,0.001,0	Slew =12.01	4R3	4	0	3,838,151	56:0
2505	97	52	09:14:42.600	117GG105A106A4W	7STRP	-0.044529,0.0,0,	Slew =,0.64	4R3	4	0	3,838,151	68:0
2506	97	52	09:15:55.933	117GG105A106A4X	7STRP	0.044028,0.001,0	Slew =12.01	4R3	4	0	3,838,152	87:0
2507	97	52	09:16:03.933	117GG105A106A4Y	7STRP	-0.044529,0.0,0,	Slew =,0.64	4R3	4	0	3,838,153	08:0
2508	97	52	09:17:17.266	117GG105A106A4Z	7STRP	0.044028,0.001,0	Slew =12.01	4R3	4	0	3,838,154	27:0
2509	97	52	09:17:25.266	117GG105A106A4AA	7STRP	-0.044529,0.0,0,	Slew =,0.64	4R3	4	0	3,838,154	39:0
2510	97	52	09:18:38.600	117GG105A106A4AB	7STRP	0.044028,0.001,0	Slew =12.01	4R3	4	0	3,838,155	58:0
2511	97	52	09:18:46.600	117GG105A106A4AC	7STRP	-0.044529,0.0,0,	Slew =,0.64	4R3	4	0	3,838,155	70:0
2512	97	52	09:19:59.933	117GG105A106A4AD	7STRP	0.044028,0.001,0	Slew =12.01	4R3	4	0	3,838,156	89:0
2513	97	52	09:20:07.933	117GG105A106A4AE	7STRP	-0.044529,0.0,0,	Slew =,0.64	4R3	4	0	3,838,157	10:0
2514	97	52	09:21:21.266	117GG105A106A4AF	7STRP	0.044028,0.001,0	Slew =12.01	4R3	4	0	3,838,158	29:0
2515	97	52	09:21:29.266	117GG105A106A4AG	7STRP	-0.044529,0.0,0,	Slew =,0.64	4R3	4	0	3,838,158	41:0
2516	97	52	09:22:42.600	117GG105A106A4AH	7STRP	0.044028,0.001,0	Slew =12.01	4R3	4	0	3,838,159	60:0
2517	97	52	09:22:50.600	117GG105A106A4AI	7STRP	-0.044529,0.0,0,	Slew =,0.64	4R3	4	0	3,838,159	72:0
2518	97	52	09:24:03.933	117GG105A106A4AJ	7STRP	0.044028,0.001,0	Slew =12.01	4R3	4	0	3,838,161	00:0
2519	97	52	09:24:11.933	117GG105A106A4AK	7STRP	-0.044529,0.0,0,	Slew =,0.64	4R3	4	0	3,838,161	12:0
2520	97	52	09:25:25.266		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 3867.69 +/- 1	4R3	4	0	3,838,162	31:0
2521	97	52	09:25:25.266	117GG105A106A4AL	7STRP	0.044028,0.001,0	Slew =12.01	4R3	4	0	3,838,162	31:0
2522	97	52	09:25:33.266	117GG105A106A4AM	7STRP	-0.044529,0.0,0,	Slew =,0.64	4R3	4	0	3,838,162	43:0
2523	97	52	09:25:49.933		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *3865.37 +/- 1	4R3	4	0	3,838,162	68:0
2524	97	52	09:26:09.933		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *3860.69 +/- 1	4R3	4	0	3,838,163	07:0
2525	97	52	09:26:46.600	117GG105A106A4AN	7STRP	0.044028,0.001,0	Slew =12.01	4R3	4	0	3,838,163	62:0
2526	97	52	09:26:54.600	117GG105A106A4AO	7STRP	-0.044529,0.0,0,	Slew =,0.64	4R3	4	0	3,838,163	74:0
2527	97	52	09:28:07.933	117GG105A106A4AP	7STRP	0.044028,0.001,0	Slew =12.01	4R3	4	0	3,838,165	02:0
2528	97	52	09:28:15.933	117GG105A106A4AQ	7STRP	-0.044529,0.0,0,	Slew =,0.64	4R3	4	0	3,838,165	14:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
2529	97	52	09:29:29.266	117GG105A106A4AR	7STRP	0.044028,0.001,0	Slew =12.01	4R3	4	0	3,838,166:33:0
2530	97	52	09:29:37.266	117GG105A106A4AS	7STRP	-0.044529,0.0,0,	Slew =,0.64	4R3	4	0	3,838,166:45:0
2531	97	52	09:30:50.600	117GG105A106A4AT	7STRP	0.044028,0.001,0	Slew =12.01	4R3	4	0	3,838,167:64:0
2532	97	52	09:30:58.600	117GG105A106A4AU	7STRP	-0.044529,0.0,0,	Slew =,0.64	4R3	4	0	3,838,167:76:0
2533	97	52	09:32:11.933	117GG105A106A4AV	7STRP	0.044028,0.001,0	Slew =12.01	4R3	4	0	3,838,169:04:0
2534	97	52	09:32:19.933	117GG105A106A4AW	7STRP	-0.044529,0.0,0,	Slew =,0.64	4R3	4	0	3,838,169:16:0
2535	97	52	09:33:33.266	117GG105A106A4AX	7STRP	0.044028,0.001,0	Slew =12.01	4R3	4	0	3,838,170:35:0
2536	97	52	09:33:41.266	117GG105A106A4AY	7STRP	-0.044529,0.0,0,	Slew =,0.64	4R3	4	0	3,838,170:47:0
2537	97	52	09:34:54.600	117GG105A106A4AZ	7STRP	0.044028,0.001,0	Slew =12.01	4R3	4	0	3,838,171:66:0
2538	97	52	09:35:02.600	117GG105A106A4BA	7STRP	-0.044529,0.0,0,	Slew =,0.64	4R3	4	0	3,838,171:78:0
2539	97	52	09:36:15.933	117GG105A106A4BB	7STRP	0.044028,0.001,0	Slew =12.01	4R3	4	0	3,838,173:06:0
2540	97	52	09:36:23.933	117GG105A106A4BC	7STRP	-0.044529,0.0,0,	Slew =,0.64	4R3	4	0	3,838,173:18:0
2541	97	52	09:37:07.933	125FU11A	NIMSINIT	GE	##### GROUP END INIT	4R3	4	0	3,838,173:84:0
2542	97	52	09:37:07.933	125FU	NIMSINIT	GS	##### GROUP START INIT	4R3	4	0	3,838,173:84:0
2543	**97**	**52**	**09:37:07.933**	**125FU4A**	**37IST**	**0,2,0,OFF,0,1,0**	**Gain State 2**	**2R3**	**4**	**0**	**3,838,173:84:0**
2544	**97**	**52**	**09:37:16.666**	**E6NNHEALTH05-**		**-----START------**		**2R3**	**4**	**0**	**: :**
2545	97	52	09:37:37.266	117GG105A106A4BD	7STRP	0.044028,0.001,0	Slew =12.01	2R3	4	0	3,838,174:37:0
2546	97	52	09:37:45.266	117GG105A106A4BE	7STRP	-0.044529,0.0,0,	Slew =,0.64	2R3	4	0	3,838,174:49:0
2547	97	52	09:38:08.600	127FU	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	3,838,174:84:0
2548	**97**	**52**	**09:38:08.600**	**127FU4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**3,838,174:84:0**
2549	**97**	**52**	**09:38:09.266**	**127FU4B**	**37ETB**	**07,C7,02,80,44,3**	**Loads wavelength edit table**	**2R3**	**4**	**0**	**3,838,174:85:0**
2550	97	52	09:38:17.266	127FU11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	3,838,175:06:0
2551	97	52	09:38:27.266		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 3860.63 +/- 1	2R3	4	0	3,838,175:21:0
2552	**97**	**52**	**09:38:33.266**	**432EI6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**	**NIMS R/T SELECT**	**2R3**	**4**	**0**	**3,838,175:30:0**
2553	97	52	09:38:51.933		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *3858.31 +/- 1	2R3	4	0	3,838,175:58:0
2554	97	52	09:38:58.600	117GG105A106A4BF	7STRP	0.044028,0.001,0	Slew =12.01	2R3	4	0	3,838,175:68:0
2555	97	52	09:39:06.600	117GG105A106A4BG	7STRP	-0.044529,0.0,0,	Slew =,0.64	2R3	4	0	3,838,175:80:0
2556	97	52	09:39:11.933		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *3853.62 +/- 1	2R3	4	0	3,838,175:88:0
2557	**97**	**52**	**09:39:32.600**	**432EJ6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**2R3**	**4**	**0**	**3,838,176:28:0**
2558	97	52	09:40:19.933	117GG105A106A4BH	7STRP	0.044028,0.001,0	Slew =12.01	2R3	4	0	3,838,177:08:0
2559	97	52	09:40:27.933	117GG105A106A4BI	7STRP	-0.044529,0.0,0,	Slew =,0.64	2R3	4	0	3,838,177:20:0
2560	97	52	09:41:41.266	117GG11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	3,838,178:39:0
2561	**97**	**52**	**09:42:19.999**	**E6NNHEALTH05-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**
2562	**97**	**52**	**09:42:19.999**	**E6NIMSP2LD05-**		**-----START------**		**2R3**	**4**	**0**	**: :**
2563	**97**	**52**	**09:43:20.600**	**20EI6A**	**6CKSUM**	**NIMS**	**NIMS,1000,14BC**	**2R3**	**4**	**0**	**3,838,180:06:0**
2564	**97**	**52**	**09:44:21.266**	**20EI5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**2R3**	**4**	**0**	**3,838,181:06:0**
2565	**97**	**52**	**09:45:21.933**	**20EI5B**	**37MRL**		**Memory Realocate (software operates from R**	**2R3**	**4**	**0**	**3,838,182:06:0**
2566	**97**	**52**	**09:46:22.600**	**20EI6B**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**2R3**	**4**	**0**	**3,838,183:06:0**
2567	**97**	**52**	**09:47:23.266**	**20EI6C**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**2R3**	**4**	**0**	**3,838,184:06:0**
2568	**97**	**52**	**09:48:23.933**	**20EI5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**3,838,185:06:0**
2569	**97**	**52**	**09:49:24.600**	**20EI5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**3,838,186:06:0**
2570	**97**	**52**	**09:50:25.266**	**20EI4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**3,838,187:06:0**
2571	97	52	09:51:21.933	176GG6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R0	4	0	3,838,188:00:0
2572	97	52	09:51:23.933		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 3853.56 +/- 1	2R0	4	0	3,838,188:03:0
2573	**97**	**52**	**09:51:25.933**	**20EI4B**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**3,838,188:06:0**
2574	97	52	09:51:33.933		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *3854.69 +/- 1	2R3	4	0	3,838,188:18:0
2575	97	52	09:51:52.600		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *3850.31 +/- 1	2R3	4	0	3,838,188:46:0
2576	**97**	**52**	**09:52:26.666**	**E6NIMSP2LD05-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**
2577	**97**	**52**	**09:53:27.333**	**E6INVOLCAN02-**		**-----START------**		**2R3**	**4**	**0**	**: :**
2578	97	52	09:56:23.933	165EM4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,838,192:89:0
2579	97	52	09:56:24.600	165EM4B	7SCAN	NORM,15.277,7.67	Check S/P Position	2R3	4	0	3,838,192:90:0
2580	**97**	**52**	**09:57:21.266**	**125EM4A**	**37IST**	**0,2,0,OFF,0,1,1**	**Gain State 4**	**4R3**	**4**	**0**	**3,838,193:84:0**
2581	97	52	09:57:21.266	125EM11A	NIMSINIT	GE	##### GROUP END INIT	4R3	4	0	3,838,193:84:0
2582	97	52	09:57:21.266	125EM	NIMSINIT	GS	##### GROUP START INIT	4R3	4	0	3,838,193:84:0
2583	**97**	**52**	**09:58:21.933**	**127EM4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**4R3**	**4**	**0**	**3,838,194:84:0**

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2584	97	52	09:58:21.933	127EM	NIMSTAB	GS	%%%%% GROUP START TAB	4R3	4	0	3,838,194:84:0	
2585	**97**	**52**	**09:58:22.600**	**127EM4B**	**37ETB**	**07,C7,03,80,00,0**	**Loads wavelength edit table**	**4R3**	**4**	**0**	**3,838,194:85:0**	
2586	97	52	09:58:30.600	127EM11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	3,838,195:06:0	
2587	**97**	**52**	**09:58:30.666**	**E6INVOLCAN02-**		**-----STOP-------**		**4R3**	**4**	**0**	**: :**	
2588	97	52	09:59:14.600	175EM422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	3,838,195:72:0	
2589	97	52	09:59:14.600		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 3850.25 +/- 1	4R3	4	0	3,838,195:72:0	
2590	97	52	09:59:17.933	117EM	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	3,838,195:77:0	
2591	97	52	09:59:23.866		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *3851.54 +/- 1	4R3	4	0	3,838,195:85:9	
2592	97	52	09:59:23.933	175EM176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	4R3	4	0	3,838,195:86:0	
2593	97	52	09:59:27.266	117EM105A106A4A	**7STRP**	**-0.0038,0.0,0,0,**	**Slew =,0.04**	4R3	4	0	3,838,196:00:0	
2594	97	52	10:01:03.933	117EM11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	3,838,197:54:0	
2595	97	52	10:01:15.266	175EM6A	6TMREC	**NRC**	NO RECORD Record Mode Change	4R3	4	0	3,838,197:71:0	
2596	97	52	10:01:15.266	175EM422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,838,197:71:0	
2597	97	52	10:01:15.266		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *3825.44 +/- 1	4R3	4	0	3,838,197:71:0	
2598	**97**	**52**	**10:01:32.600**	**E6JNFEA5UM01-**		**-----START------**		**4R3**	**4**	**0**	**: :**	
2599	97	52	10:02:27.933	165EN4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,838,198:89:0	
2600	97	52	10:02:28.600	165EN4B	7SCAN	NORM,37.205,13.6	Check S/P Position	4R3	4	0	3,838,198:90:0	
2601	**97**	**52**	**10:04:25.933**	**125EN4A**	**37IST**	**0,2,0,OFF,0,1,1**	**Gain State 4**	**4R3**	**4**	**0**	**3,838,200:84:0**	
2602	97	52	10:04:25.933	125EN11A	NIMSINIT	GE	##### GROUP END INIT	4R3	4	0	3,838,200:84:0	
2603	97	52	10:04:25.933	125EN	NIMSINIT	GS	##### GROUP START INIT	4R3	4	0	3,838,200:84:0	
2604	**97**	**52**	**10:05:26.600**	**127EN4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**4R3**	**4**	**0**	**3,838,201:84:0**	
2605	97	52	10:05:26.600	127EN	NIMSTAB	GS	%%%%% GROUP START TAB	4R3	4	0	3,838,201:84:0	
2606	**97**	**52**	**10:05:27.266**	**127EN4B**	**37ETB**	**,CD,02,03,FF,1A,**	**Loads wavelength edit table**	**4R3**	**4**	**0**	**3,838,201:85:0**	
2607	97	52	10:05:35.266	127EN11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	3,838,202:06:0	
2608	97	52	10:06:19.266	175EN422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	3,838,202:72:0	
2609	97	52	10:06:19.266		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 3825.38 +/- 1	4R3	4	0	3,838,202:72:0	
2610	97	52	10:06:22.600	117EN	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	3,838,202:77:0	
2611	97	52	10:06:28.533		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *3826.67 +/- 1	4R3	4	0	3,838,202:85:9	
2612	97	52	10:06:28.600	175EN176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	4R3	4	0	3,838,202:86:0	
2613	97	52	10:06:31.933	117EN105A106A4A	**7STRP**	**0.0108,0.0,0,0,0**	**Slew =,0.03**	4R3	4	0	3,838,203:00:0	
2614	**97**	**52**	**10:06:32.073**	**E6JNFEA5UM01-**	**NIMPBK**	**301EN**	**JUPITER FEATURE TRACK 5 MICRON M**	**4R3**	**4**	**0**	**: :**	
2615	97	52	10:12:35.933	117EN11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	3,838,209:00:0	
2616	**97**	**52**	**10:12:36.072**	**E6JNFEA5UM01-**	**DESELC**	**300EN**	**JUPITER FEATURE TRACK 5 MICRON M**	**4R3**	**4**	**0**	**: :**	
2617	**97**	**52**	**10:12:39.933**	**E6JNFEA5UM01-**		**-----STOP-------**		**4R3**	**4**	**0**	**: :**	
2618	97	52	10:12:47.266	175EN6A	6TMREC	**NRC**	NO RECORD Record Mode Change	4R3	4	0	3,838,209:17:0	
2619	97	52	10:12:47.266		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *3737.90 +/- 1	4R3	4	0	3,838,209:17:0	
2620	97	52	10:12:47.266	175EN422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,838,209:17:0	
2621	**97**	**52**	**10:36:55.999**	**E6INVOLCAN03-**		**-----START------**		**4R3**	**4**	**0**	**: :**	
2622	97	52	10:37:51.266	165EO4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,838,233:89:0	
2623	97	52	10:37:51.933	165EO4B	7SCAN	NORM,18.508,9.10	Check S/P Position	4R3	4	0	3,838,233:90:0	
2624	**97**	**52**	**10:39:49.266**	**127EO4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**4R3**	**4**	**0**	**3,838,235:84:0**	
2625	97	52	10:39:49.266	127EO	NIMSTAB	GS	%%%%% GROUP START TAB	4R3	4	0	3,838,235:84:0	
2626	**97**	**52**	**10:39:49.933**	**127EO4B**	**37ETB**	**07,C7,03,80,00,0**	**Loads wavelength edit table**	**4R3**	**4**	**0**	**3,838,235:85:0**	
2627	97	52	10:39:57.933	127EO11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	3,838,236:06:0	
2628	97	52	10:40:41.933	175EO422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	3,838,236:72:0	
2629	97	52	10:40:41.933		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 3737.84 +/- 1	4R3	4	0	3,838,236:72:0	
2630	97	52	10:40:45.266	117EO	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	3,838,236:77:0	
2631	97	52	10:40:51.200		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *3739.14 +/- 1	4R3	4	0	3,838,236:85:9	
2632	97	52	10:40:51.266	175EO176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	4R3	4	0	3,838,236:86:0	
2633	97	52	10:40:54.600	117EO105A106A4A	**7STRP**	**-0.00222,0.0,0,0**	**Slew =,0.04**	4R3	4	0	3,838,237:00:0	
2634	**97**	**52**	**10:40:58.666**	**E6INVOLCAN03-**		**-----STOP-------**		**4R3**	**4**	**0**	**: :**	
2635	97	52	10:41:51.266	117EO11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	3,838,237:85:0	
2636	97	52	10:42:02.600	175EO422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,838,238:11:0	
2637	97	52	10:42:02.600	175EO6A	6TMREC	**NRC**	NO RECORD Record Mode Change	4R3	4	0	3,838,238:11:0	
2638	97	52	10:42:02.600		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *3722.40 +/- 1	4R3	4	0	3,838,238:11:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2639	**97**	**52**	**11:02:12.600**	**E6JNTHRMNS01-**		**-----START------**		**4R3**	**4**	**0**	**: :**	
2640	97	52	11:03:07.933	165EP4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,838,258:89:0	
2641	97	52	11:03:08.600	165EP4B	7SCAN	NORM,41.483,22.0	Check S/P Position	4R3	4	0	3,838,258:90:0	
2642	**97**	**52**	**11:06:06.600**	**127EP4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**4R3**	**4**	**0**	**3,838,261:84:0**	
2643	97	52	11:06:06.600	127EP	NIMSTAB	GS	%%%%% GROUP START TAB	4R3	4	0	3,838,261:84:0	
2644	**97**	**52**	**11:06:07.266**	**127EP4B**	**37ETB**		**Loads wavelength edit table**	**4R3**	**4**	**0**	**3,838,261:85:0**	
2645	97	52	11:06:15.266	127EP11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	3,838,262:06:0	
2646	97	52	11:06:59.266		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 3722.34 +/- 1	4R3	4	0	3,838,262:72:0	
2647	97	52	11:06:59.266	175EP422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	3,838,262:72:0	
2648	97	52	11:07:02.600	117EP	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	3,838,262:77:0	
2649	97	52	11:07:08.533		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *3723.64 +/- 1	4R3	4	0	3,838,262:85:9	
2650	97	52	11:07:08.600	175EP176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	4R3	4	0	3,838,262:86:0	
2651	97	52	11:07:11.933	117EP105A106A4A	**7STRP**	**0.002,0.0,0,0,0,**	**Slew =,0.03**	4R3	4	0	3,838,263:00:0	
2652	**97**	**52**	**11:07:12.070**	**E6JNTHRMNS01-**	**NIMPBK**	**301EP**	**JUPITER THERMAL NORTH SOUTH STRI**	**4R3**	**4**	**0**	**: :**	
2653	97	52	11:08:21.266	117EP105A106A4B	**7STRP**	**-0.002,0.0071,0,**	**Slew =12.01**	4R3	4	0	3,838,264:13:0	
2654	97	52	11:08:37.933	117EP105A106A4C	**7STRP**	**0.002,0.0,0,0,0,**	**Slew =,0.03**	4R3	4	0	3,838,264:38:0	
2655	97	52	11:09:47.266	117EP105A106A4D	**7STRP**	**-0.002,0.0071,0,**	**Slew =12.01**	4R3	4	0	3,838,265:51:0	
2656	97	52	11:10:03.933	117EP105A106A4E	**7STRP**	**0.002,0.0,0,0,0,**	**Slew =,0.03**	4R3	4	0	3,838,265:76:0	
2657	97	52	11:11:13.266	117EP105A106A4F	**7STRP**	**-0.002,0.0071,0,**	**Slew =12.01**	4R3	4	0	3,838,266:89:0	
2658	97	52	11:11:29.933	117EP105A106A4G	**7STRP**	**0.002,0.0,0,0,0,**	**Slew =,0.03**	4R3	4	0	3,838,267:23:0	
2659	97	52	11:12:39.266	117EP105A106A4H	**7STRP**	**-0.002,0.0071,0,**	**Slew =12.01**	4R3	4	0	3,838,268:36:0	
2660	97	52	11:12:55.933	117EP105A106A4I	**7STRP**	**0.002,0.0,0,0,0,**	**Slew =,0.03**	4R3	4	0	3,838,268:61:0	
2661	97	52	11:14:05.266	117EP105A106A4J	**7STRP**	**-0.002,0.0071,0,**	**Slew =12.01**	4R3	4	0	3,838,269:74:0	
2662	97	52	11:14:21.933	117EP105A106A4K	**7STRP**	**0.002,0.0,0,0,0,**	**Slew =,0.03**	4R3	4	0	3,838,270:08:0	
2663	97	52	11:15:31.266	117EP105A106A4L	**7STRP**	**-0.002,0.0071,0,**	**Slew =12.01**	4R3	4	0	3,838,271:21:0	
2664	97	52	11:15:47.933	117EP105A106A4M	**7STRP**	**0.002,0.0,0,0,0,**	**Slew =,0.03**	4R3	4	0	3,838,271:46:0	
2665	97	52	11:16:57.266	117EP105A106A4N	**7STRP**	**-0.002,0.0071,0,**	**Slew =12.01**	4R3	4	0	3,838,272:59:0	
2666	97	52	11:17:13.933	117EP105A106A4O	**7STRP**	**0.002,0.0,0,0,0,**	**Slew =,0.03**	4R3	4	0	3,838,272:84:0	
2667	97	52	11:18:23.266	117EP105A106A4P	**7STRP**	**-0.002,0.0071,0,**	**Slew =12.01**	4R3	4	0	3,838,274:06:0	
2668	97	52	11:18:39.933	117EP105A106A4Q	**7STRP**	**0.002,0.0,0,0,0,**	**Slew =,0.03**	4R3	4	0	3,838,274:31:0	
2669	97	52	11:19:49.266	117EP105A106A4R	**7STRP**	**-0.002,0.0071,0,**	**Slew =12.01**	4R3	4	0	3,838,275:44:0	
2670	97	52	11:20:05.933	117EP105A106A4S	**7STRP**	**0.002,0.0,0,0,0,**	**Slew =,0.03**	4R3	4	0	3,838,275:69:0	
2671	97	52	11:21:15.266	117EP105A106A4T	**7STRP**	**-0.002,0.0071,0,**	**Slew =12.01**	4R3	4	0	3,838,276:82:0	
2672	97	52	11:21:31.933	117EP105A106A4U	**7STRP**	**0.002,0.0,0,0,0,**	**Slew =,0.03**	4R3	4	0	3,838,277:16:0	
2673	97	52	11:22:41.266	117EP105A106A4V	**7STRP**	**-0.002,0.0071,0,**	**Slew =12.01**	4R3	4	0	3,838,278:29:0	
2674	97	52	11:22:57.933	117EP105A106A4W	**7STRP**	**0.002,0.0,0,0,0,**	**Slew =,0.03**	4R3	4	0	3,838,278:54:0	
2675	97	52	11:24:07.266	117EP105A106A4X	**7STRP**	**-0.002,0.0071,0,**	**Slew =12.01**	4R3	4	0	3,838,279:67:0	
2676	97	52	11:24:23.933	117EP105A106A4Y	**7STRP**	**0.002,0.0,0,0,0,**	**Slew =,0.03**	4R3	4	0	3,838,280:01:0	
2677	**97**	**52**	**11:24:24.070**	**E6JNTHRMNS01-**	**NIMPBK**	**301FM**	**JUPITER THERMAL NORTH SOUTH STRI**	**4R3**	**4**	**0**	**: :**	
2678	**97**	**52**	**11:24:32.737**	**E6JNTHRMNS01-**	**DESELC**	**300EP**	**JUPITER THERMAL NORTH SOUTH STRI**	**4R3**	**4**	**0**	**: :**	
2679	97	52	11:25:33.266	117EP105A106A4Z	**7STRP**	**-0.002,0.0071,0,**	**Slew =12.01**	4R3	4	0	3,838,281:14:0	
2680	97	52	11:25:49.933	117EP105A106A4AA	**7STRP**	**0.002,0.0,0,0,0,**	**Slew =,0.03**	4R3	4	0	3,838,281:39:0	
2681	97	52	11:26:59.266	117EP105A106A4AB	**7STRP**	**-0.002,0.0071,0,**	**Slew =12.01**	4R3	4	0	3,838,282:52:0	
2682	97	52	11:27:15.933	117EP105A106A4AC	**7STRP**	**0.002,0.0,0,0,0,**	**Slew =,0.03**	4R3	4	0	3,838,282:77:0	
2683	97	52	11:28:25.266	117EP105A106A4AD	**7STRP**	**-0.002,0.0071,0,**	**Slew =12.01**	4R3	4	0	3,838,283:90:0	
2684	97	52	11:28:41.933	117EP105A106A4AE	**7STRP**	**0.002,0.0,0,0,0,**	**Slew =,0.03**	4R3	4	0	3,838,284:24:0	
2685	**97**	**52**	**11:28:42.069**	**E6JNTHRMNS01-**	**DESELC**	**300FM**	**JUPITER THERMAL NORTH SOUTH STRI**	**4R3**	**4**	**0**	**: :**	
2686	97	52	11:29:51.266	117EP105A106A4AF	**7STRP**	**-0.002,0.0071,0,**	**Slew =12.01**	4R3	4	0	3,838,285:37:0	
2687	97	52	11:30:07.933	117EP105A106A4AG	**7STRP**	**0.002,0.0,0,0,0,**	**Slew =,0.03**	4R3	4	0	3,838,285:62:0	
2688	97	52	11:31:17.266	117EP105A106A4AH	**7STRP**	**-0.002,0.0071,0,**	**Slew =12.01**	4R3	4	0	3,838,286:75:0	
2689	97	52	11:31:33.933	117EP105A106A4AI	**7STRP**	**0.002,0.0,0,0,0,**	**Slew =,0.03**	4R3	4	0	3,838,287:09:0	
2690	97	52	11:32:43.266	117EP105A106A4AJ	**7STRP**	**-0.002,0.0071,0,**	**Slew =12.01**	4R3	4	0	3,838,288:22:0	
2691	97	52	11:32:59.933	117EP105A106A4AK	**7STRP**	**0.002,0.0,0,0,0,**	**Slew =,0.03**	4R3	4	0	3,838,288:47:0	
2692	97	52	11:34:09.266	117EP105A106A4AL	**7STRP**	**-0.002,0.0071,0,**	**Slew =12.01**	4R3	4	0	3,838,289:60:0	
2693	97	52	11:34:25.933	117EP105A106A4AM	**7STRP**	**0.002,0.0,0,0,0,**	**Slew =,0.03**	4R3	4	0	3,838,289:85:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2694	97	52	11:35:35.266	117EP105A106A4AN	**7STRP**	**-0.002,0.0071,0,**	**Slew =12.01**	4R3	4	0	3,838,291:07:0	
2695	97	52	11:35:51.933	117EP105A106A4AO	**7STRP**	**0.002,0.0,0,0,0,**	**Slew =,0.03**	4R3	4	0	3,838,291:32:0	
2696	97	52	11:37:01.266	117EP11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	3,838,292:45:0	
2697	97	52	11:37:12.600		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *3300.81 +/- 1	4R3	4	0	3,838,292:62:0	
2698	97	52	11:37:12.600	175EP422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,838,292:62:0	
2699	97	52	11:37:12.600	175EP6A	6TMREC	**NRC**	NO RECORD Record Mode Change	4R3	4	0	3,838,292:62:0	
2700	**97**	**52**	**11:38:36.600**	**E6JNTHRMNS01-**		**-----STOP-------**		**4R3**	**4**	**0**	**: :**	
2701	97	52	11:39:31.933	165IJ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,838,294:89:0	
2702	97	52	11:39:32.600	165IJ4B	7SCAN	NORM,306.382999,	Check S/P Position	4R3	4	0	3,838,294:90:0	
2703	97	52	11:43:24.600		DMS:	: *US-RUNUP	R115, TRACK 4, REV, TIC 3300.75 +/- 1	4R3	4	0	3,838,298:74:0	
2704	97	52	11:43:24.600	175IW422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	4R3	4	0	3,838,298:74:0	
2705	97	52	11:43:27.933	118IJ	**SMOS**	GS		4R3	4	0	3,838,298:79:0	
2706	97	52	11:43:34.600	165IJ4C	7VECT		Inert vect update UTC	4R3	4	0	3,838,298:89:0	
2707	97	52	11:43:35.266	165IJ4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	4R3	4	0	3,838,298:90:0	
2708	97	52	11:43:36.466		DMS:	**: *RECORD**	R115, TRACK 4, REV, TIC *3295.86 +/- 1	4R3	4	0	3,838,299:00:8	
2709	97	52	11:43:36.600	175IW176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	4R3	4	0	3,838,299:01:0	
2710	97	52	11:43:37.933	118IJ110A111A4A	7STRP	-0.007,-0.00025,	Slew =12.01	4R3	4	0	3,838,299:03:0	
2711	97	52	11:43:53.266	118IJ110A111A4B	7STRP	0.0074,-0.00727,	Slew =13.01	4R3	4	0	3,838,299:26:0	
2712	97	52	11:44:08.600	118IJ110A111A4C	7STRP	-0.007,-0.00025,	Slew =12.01	4R3	4	0	3,838,299:49:0	
2713	97	52	11:44:23.933	118IJ11A	**SMOS**	GE		4R3	4	0	3,838,299:72:0	
2714	97	52	11:44:37.266		DMS:	**: *RUNDOWN**	R115, TRACK 4, REV, TIC *3082.11 +/- 1	4R3	4	0	3,838,300:01:0	
2715	97	52	11:44:37.266	175IW422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,838,300:01:0	
2716	97	52	11:51:41.266		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 3081.11 +/- 1	4R3	4	0	3,838,307:00:0	
2717	97	52	11:51:41.266	411JH6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	3,838,307:00:0	
2718	97	52	11:51:50.533		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *3082.41 +/- 1	4R3	4	0	3,838,307:13:9	
2719	97	52	11:51:51.266	411JH6B	6TMREC	BDT	7.68 KBPS BUFFER DUMP TO TAPE Record Mode	4R3	4	0	3,838,307:15:0	
2720	97	52	11:53:52.600	411JH6C	6TMREC	**NRC**	NO RECORD Record Mode Change	4R3	4	0	3,838,309:15:0	
2721	97	52	11:53:55.266	175TG176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	4R3	4	0	3,838,309:19:0	
2722	97	52	11:53:55.933	175TG422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	3,838,309:20:0	
2723	97	52	11:54:02.600	175TG422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,838,309:30:0	
2724	97	52	11:54:02.600		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *3051.46 +/- 1	4R3	4	0	3,838,309:30:0	
2725	97	52	11:57:43.933	165GW4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,838,312:89:0	
2726	97	52	11:57:44.600	165GW4B	7SCAN	NORM,74.929,22.9	Check S/P Position	4R3	4	0	3,838,312:90:0	
2727	97	52	12:01:38.600	117GW	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	3,838,316:77:0	
2728	97	52	12:01:47.933	176GW6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	4R3	4	0	3,838,317:00:0	
2729	97	52	12:01:47.933	117GW105A106A4A	7STRP	0.0,-0.006,0,0,0	Slew =,0.61	4R3	4	0	3,838,317:00:0	
2730	97	52	12:02:09.933	117GW11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	3,838,317:33:0	
2731	97	52	12:02:21.266	176GW6B	6TMREC	**NRC**	NO RECORD Record Mode Change	4R3	4	0	3,838,317:50:0	
2732	97	52	12:02:23.266		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 3051.40 +/- 1	4R3	4	0	3,838,317:53:0	
2733	97	52	12:02:33.266		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *3052.52 +/- 1	4R3	4	0	3,838,317:68:0	
2734	97	52	12:02:40.600		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *3050.80 +/- 1	4R3	4	0	3,838,317:79:0	
2735	97	52	12:02:47.266	165GX4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,838,317:89:0	
2736	97	52	12:02:47.933	165GX4B	7SCAN	NORM,308.907997,	Check S/P Position	4R3	4	0	3,838,317:90:0	
2737	97	52	12:06:41.933	117GX	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	3,838,321:77:0	
2738	97	52	12:06:51.266	176GX6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	4R3	4	0	3,838,322:00:0	
2739	97	52	12:06:51.266	117GX105A106A4A	7STRP	0.0,0.006027,0,0	Slew =0,7.5	4R3	4	0	3,838,322:00:0	
2740	97	52	12:07:13.266	117GX11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	3,838,322:33:0	
2741	97	52	12:07:24.600	176GX6B	6TMREC	**NRC**	NO RECORD Record Mode Change	4R3	4	0	3,838,322:50:0	
2742	97	52	12:07:26.600		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 3050.74 +/- 1	4R3	4	0	3,838,322:53:0	
2743	97	52	12:07:36.600		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *3051.86 +/- 1	4R3	4	0	3,838,322:68:0	
2744	97	52	12:07:43.933		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *3050.14 +/- 1	4R3	4	0	3,838,322:79:0	
2745	97	52	12:48:31.266	488AW6A	6TMSED	FILL,DL2	Sci, Eng, and D/L Chan	4R3	4	0	3,838,363:19:0	
2746	97	52	13:55:49.933	488AW6B	6TMSED	NORM,DL2	Sci, Eng, and D/L Chan	4R3	4	0	3,838,429:71:0	
2747	97	52	14:47:35.933	165GY4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,838,480:89:0	
2748	97	52	14:47:36.600	165GY4B	7SCAN	NORM,56.05,17.31	Check S/P Position	4R3	4	0	3,838,480:90:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
2749	97	52	14:51:30.600	117GY	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	3,838,484:77:0
2750	97	52	14:51:39.933	176GY6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	4R3	4	0	3,838,485:00:0
2751	97	52	14:51:39.933	117GY105A106A4A	7STRP	-0.022004,-0.050	Slew =0,0.1	4R3	4	0	3,838,485:00:0
2752	97	52	15:00:45.933	117GY105A106B4A	7STRP	0.0,-0.0005,0,0,	Slew =12.01	4R3	4	0	3,838,494:00:0
2753	97	52	15:00:56.600	117GY105A106B4B	7STRP	0.002,-0.045035,	Slew =0,0.1	4R3	4	0	3,838,494:16:0
2754	97	52	15:03:12.600	488AW6C	6TMSED	FILL,DL2	Sci, Eng, and D/L Chan	4R3	4	0	3,838,496:38:0
2755	97	52	15:04:15.266		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 3050.08 +/- 1	4R3	4	0	3,838,497:41:0
2756	97	52	15:04:39.933		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *3047.77 +/- 1	4R3	4	0	3,838,497:78:0
2757	97	52	15:04:59.933		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *3043.08 +/- 1	4R3	4	0	3,838,498:17:0
2758	97	52	15:09:01.933	117GY105A106C4A	7STRP	0.0,-0.0005,0,0,	Slew =12.01	4R3	4	0	3,838,502:16:0
2759	97	52	15:09:12.600	117GY105A106C4B	7STRP	0.015501,-0.0430	Slew =0,0.1	4R3	4	0	3,838,502:32:0
2760	97	52	15:16:53.933	176GY6B	6TMREC	**NRC**	NO RECORD Record Mode Change	4R3	4	0	3,838,509:87:0
2761	97	52	15:16:53.933	117GY11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	3,838,509:87:0
2762	97	52	15:16:55.933		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 3043.02 +/- 1	4R3	4	0	3,838,509:90:0
2763	97	52	15:17:05.933		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *3044.14 +/- 1	4R3	4	0	3,838,510:14:0
2764	97	52	15:17:24.600		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *3039.77 +/- 1	4R3	4	0	3,838,510:42:0
2765	97	52	15:29:59.933	488AW6D	6TMSED	FILL,CL2	Sci, Eng, and D/L Chan	4R3	4	0	3,838,522:83:0
2766	97	52	15:49:10.600	488AW6E	6TMSED	FILL,CL3	Sci, Eng, and D/L Chan	4R3	4	0	3,838,541:80:0
2767	97	52	15:56:19.266	488AX6A	6TMSED	NORM,CL3	Sci, Eng, and D/L Chan	4R3	4	0	3,838,548:86:0
2768	**97**	**52**	**15:59:28.600**	**E6NNHEALTH06-**		**-----START------**		**4R3**	**4**	**0**	**: :**
2769	97	52	16:01:21.266	125FT11A	NIMSINIT	GE	##### GROUP END INIT	4R3	4	0	3,838,553:84:0
2770	97	52	16:01:21.266	125FT	NIMSINIT	GS	##### GROUP START INIT	4R3	4	0	3,838,553:84:0
2771	**97**	**52**	**16:01:21.266**	**125FT4A**	**37IST**	**0,2,0,OFF,0,1,0**	**Gain State 2**	**2R3**	**4**	**0**	**3,838,553:84:0**
2772	97	52	16:02:21.933	127FT	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	3,838,554:84:0
2773	**97**	**52**	**16:02:21.933**	**127FT4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**3,838,554:84:0**
2774	**97**	**52**	**16:02:22.600**	**127FT4B**	**37ETB**	**07,C7,02,80,44,3**	**Loads wavelength edit table**	**2R3**	**4**	**0**	**3,838,554:85:0**
2775	97	52	16:02:30.600	127FT11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	3,838,555:06:0
2776	**97**	**52**	**16:02:46.600**	**432EK6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**	**NIMS R/T SELECT**	**2R3**	**4**	**0**	**3,838,555:30:0**
2777	**97**	**52**	**16:03:45.933**	**432EL6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**2R3**	**4**	**0**	**3,838,556:28:0**
2778	**97**	**52**	**16:04:31.933**	**E6NIMSP2LD06-**		**-----START------**		**2R3**	**4**	**0**	**: :**
2779	**97**	**52**	**16:04:31.933**	**E6NNHEALTH06-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**
2780	**97**	**52**	**16:06:33.266**	**20EJ6A**	**6CKSUM**	**NIMS**	**NIMS,1000,14BC**	**2R3**	**4**	**0**	**3,838,559:06:0**
2781	**97**	**52**	**16:07:33.933**	**20EJ5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**2R3**	**4**	**0**	**3,838,560:06:0**
2782	**97**	**52**	**16:08:34.600**	**20EJ5B**	**37MRL**		**Memory Realocate (software operates from R**	**2R3**	**4**	**0**	**3,838,561:06:0**
2783	**97**	**52**	**16:09:35.266**	**20EJ6B**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**2R3**	**4**	**0**	**3,838,562:06:0**
2784	**97**	**52**	**16:10:35.933**	**20EJ6C**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**2R3**	**4**	**0**	**3,838,563:06:0**
2785	**97**	**52**	**16:11:36.600**	**20EJ5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**3,838,564:06:0**
2786	**97**	**52**	**16:12:37.266**	**20EJ5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**3,838,565:06:0**
2787	**97**	**52**	**16:13:37.933**	**20EJ4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**3,838,566:06:0**
2788	**97**	**52**	**16:14:38.600**	**E6NIMSP2LD06-**		**-----STOP-------**		**2R0**	**4**	**0**	**: :**
2789	97	52	16:15:33.933	165FZ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R0	4	0	3,838,567:89:0
2790	97	52	16:15:34.600	165FZ4B	7SCAN	NORM,338.113998,	Check S/P Position	2R0	4	0	3,838,567:90:0
2791	**97**	**52**	**16:15:39.267**	**E6GNGLOBAL01-**		**-----START------**		**2R0**	**4**	**0**	**: :**
2792	97	52	16:17:31.933	125DK	NIMSINIT	GS	##### GROUP START INIT	2R0	4	0	3,838,569:84:0
2793	**97**	**52**	**16:17:31.933**	**125DK4A**	**37IST**	**0,2,0,OFF,0,1,2**	**Gain State 3**	**3R0**	**4**	**0**	**3,838,569:84:0**
2794	97	52	16:17:31.933	125DK11A	NIMSINIT	GE	##### GROUP END INIT	3R0	4	0	3,838,569:84:0
2795	97	52	16:18:32.600	127DK	NIMSTAB	GS	%%%%% GROUP START TAB	3R0	4	0	3,838,570:84:0
2796	**97**	**52**	**16:18:32.600**	**127DK4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**3R3**	**4**	**0**	**3,838,570:84:0**
2797	**97**	**52**	**16:18:33.266**	**127DK4B**	**37ETB**	**07,C7,02,18,00,0**	**Loads wavelength edit table**	**3R3**	**4**	**0**	**3,838,570:85:0**
2798	97	52	16:18:41.266	127DK11A	NIMSTAB	GE	%%%%% GROUP END TAB	3R3	4	0	3,838,571:06:0
2799	97	52	16:19:25.266	175FH422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	3R3	4	0	3,838,571:72:0
2800	97	52	16:19:25.266		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 3039.71 +/- 1	3R3	4	0	3,838,571:72:0
2801	97	52	16:19:28.600	117FZ	**CSMOS**	GS	***** GROUP START CSMOS	3R3	4	0	3,838,571:77:0
2802	97	52	16:19:34.533		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *3041.00 +/- 1	3R3	4	0	3,838,571:85:9
2803	97	52	16:19:34.600	175FH176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	3R3	4	0	3,838,571:86:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2804	97	52	16:19:36.600	165FZ4C	7VECT		Inert vect update UTC	3R3	4	0	3,838,571:89:0	
2805	97	52	16:19:37.266	165FZ4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	3R3	4	0	3,838,571:90:0	
2806	97	52	16:19:37.933	117FZ105A106A4A	**7STRP**	**0.018002,0.0,0,0**	**Slew =,0.03**	3R3	4	0	3,838,572:00:0	
2807	**97**	**52**	**16:22:13.393**	**E6GNGLOBAL01-**	**NIMPBK**	**301EQ**	**NIMS GANYMEDE GLOBAL MAP**	**3R3**	**4**	**0**	**: :**	
2808	**97**	**52**	**16:27:03.392**	**E6GNGLOBAL01-**	**DESELC**	**300EQ**	**NIMS GANYMEDE GLOBAL MAP**	**3R3**	**4**	**0**	**: :**	
2809	97	52	16:29:39.933	117FZ105A106A4B	**7STRP**	**-0.018002,0.0070**	**Slew =17.01**	3R3	4	0	3,838,581:84:0	
2810	97	52	16:29:52.600	117FZ105A106A4C	**7STRP**	**0.018002,0.0,0,0**	**Slew =,0.03**	3R3	4	0	3,838,582:12:0	
2811	**97**	**52**	**16:32:28.058**	**E6GNGLOBAL01-**	**NIMPBK**	**301FZ**	**NIMS GANYMEDE GLOBAL MAP**	**3R3**	**4**	**0**	**: :**	
2812	**97**	**52**	**16:37:18.058**	**E6GNGLOBAL01-**	**DESELC**	**300FZ**	**NIMS GANYMEDE GLOBAL MAP**	**3R3**	**4**	**0**	**: :**	
2813	97	52	16:39:54.600	117FZ11A	**CSMOS**	GE	***** GROUP END CSMOS	3R3	4	0	3,838,592:05:0	
2814	**97**	**52**	**16:39:55.266**	**E6GNGLOBAL01-**		**-----STOP-------**		**3R3**	**4**	**0**	**: :**	
2815	**97**	**52**	**16:42:57.266**	**E6JNFEA12401-**		**-----START------**		**3R3**	**4**	**0**	**: :**	
2816	97	52	16:43:35.933	175FH6A	6TMREC	**NRC**	NO RECORD Record Mode Change	3R3	4	0	3,838,595:64:0	
2817	97	52	16:43:35.933		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *2703.17 +/- 1	3R3	4	0	3,838,595:64:0	
2818	97	52	16:43:35.933	175FH422A6B	6DMSC	RDY,0	DMS Control Tape stop	3R3	4	0	3,838,595:64:0	
2819	97	52	16:43:52.600	165EQ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	3R3	4	0	3,838,595:89:0	
2820	97	52	16:43:53.266	165EQ4B	7SCAN	NORM,62.123,20.5	Check S/P Position	3R3	4	0	3,838,595:90:0	
2821	97	52	16:45:50.600	125EQ11A	NIMSINIT	GE	##### GROUP END INIT	3R3	4	0	3,838,597:84:0	
2822	**97**	**52**	**16:45:50.600**	**125EQ4A**	**37IST**	**0,2,0,OFF,0,1,0**	**Gain State 2**	**2R3**	**4**	**0**	**3,838,597:84:0**	
2823	97	52	16:45:50.600	125EQ	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	3,838,597:84:0	
2824	**97**	**52**	**16:46:51.266**	**127EQ4A**	**37IOP**	**5,1**	**Short Map, Grating Start Position =01**	**2R5**	**4**	**1**	**3,838,598:84:0**	
2825	97	52	16:46:51.266	127EQ	NIMSTAB	GS	%%%%% GROUP START TAB	2R5	4	1	3,838,598:84:0	
2826	**97**	**52**	**16:46:51.933**	**127EQ4B**	**37ETB**	**,CD,02,00,00,05,**	**Loads wavelength edit table**	**2R5**	**4**	**1**	**3,838,598:85:0**	
2827	97	52	16:46:59.933	127EQ11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R5	4	1	3,838,599:06:0	
2828	97	52	16:47:43.933	175EQ422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,838,599:72:0	
2829	97	52	16:47:43.933		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 2703.11 +/- 1	2R5	4	1	3,838,599:72:0	
2830	97	52	16:47:47.266	117EQ	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,838,599:77:0	
2831	97	52	16:47:53.200		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *2704.41 +/- 1	2R5	4	1	3,838,599:85:9	
2832	97	52	16:47:53.266	175EQ176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	3,838,599:86:0	
2833	97	52	16:47:56.600	117EQ105A106A4A	**7STRP**	**0.0109,0.0,0,0,0**	**Slew =,0.11**	2R5	4	1	3,838,600:00:0	
2834	**97**	**52**	**16:47:56.725**	**E6JNFEA12401-**	**NIMPBK**	**301ER**	**JUPITER FEATURE TRACK 124 DEG PH**	**2R5**	**4**	**1**	**: :**	
2835	97	52	16:49:36.600	117EQ11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,838,601:59:0	
2836	**97**	**52**	**16:49:36.725**	**E6JNFEA12401-**	**DESELC**	**300ER**	**JUPITER FEATURE TRACK 124 DEG PH**	**2R5**	**4**	**1**	**: :**	
2837	97	52	16:49:47.933	175EQ6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,838,601:76:0	
2838	97	52	16:49:47.933	175EQ422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,838,601:76:0	
2839	97	52	16:49:47.933		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *2677.52 +/- 1	2R5	4	1	3,838,601:76:0	
2840	**97**	**52**	**16:50:01.933**	**E6JNFEA12401-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**	
2841	**97**	**52**	**17:17:19.933**	**E6JNFEA12402-**		**-----START------**		**2R5**	**4**	**1**	**: :**	
2842	97	52	17:18:15.266	165ER4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,838,629:89:0	
2843	97	52	17:18:15.933	165ER4B	7SCAN	NORM,63.033,20.7	Check S/P Position	2R5	4	1	3,838,629:90:0	
2844	97	52	17:22:06.600	175ER422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,838,633:72:0	
2845	97	52	17:22:06.600		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 2677.46 +/- 1	2R5	4	1	3,838,633:72:0	
2846	97	52	17:22:09.933	117ER	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,838,633:77:0	
2847	97	52	17:22:15.866		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *2678.75 +/- 1	2R5	4	1	3,838,633:85:9	
2848	97	52	17:22:15.933	175ER176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	3,838,633:86:0	
2849	97	52	17:22:19.266	117ER105A106A4A	**7STRP**	**0.0109,0.0,0,0,0**	**Slew =,0.11**	2R5	4	1	3,838,634:00:0	
2850	**97**	**52**	**17:22:19.390**	**E6JNFEA12402-**	**NIMPBK**	**301ES**	**JUPITER FEATURE TRACK 124 DEG PH**	**2R5**	**4**	**1**	**: :**	
2851	97	52	17:23:59.266	117ER11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,838,635:59:0	
2852	**97**	**52**	**17:23:59.390**	**E6JNFEA12402-**	**DESELC**	**300ES**	**JUPITER FEATURE TRACK 124 DEG PH**	**2R5**	**4**	**1**	**: :**	
2853	97	52	17:24:10.600	175ER422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,838,635:76:0	
2854	97	52	17:24:10.600		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *2651.86 +/- 1	2R5	4	1	3,838,635:76:0	
2855	97	52	17:24:10.600	175ER6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,838,635:76:0	
2856	**97**	**52**	**17:24:24.600**	**E6JNFEA12402-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**	
2857	97	52	17:46:30.600	488AX6B	6TMSED	NORM,CL5	Sci, Eng, and D/L Chan	2R5	4	1	3,838,657:84:0	
2858	**97**	**52**	**17:48:40.600**	**E6JNFEA12403-**		**-----START------**		**2R5**	**4**	**1**	**: :**	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
2859	97	52	17:49:35.933	165ES4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,838,660:89:0
2860	97	52	17:49:36.600	165ES4B	7SCAN	NORM,63.443,20.7	Check S/P Position	2R5	4	1	3,838,660:90:0
2861	97	52	17:53:27.266	175ES422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,838,664:72:0
2862	97	52	17:53:27.266		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 2651.80 +/- 1	2R5	4	1	3,838,664:72:0
2863	97	52	17:53:30.600	117ES	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,838,664:77:0
2864	97	52	17:53:36.533		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *2653.10 +/- 1	2R5	4	1	3,838,664:85:9
2865	97	52	17:53:36.600	175ES176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	3,838,664:86:0
2866	97	52	17:53:39.933	117ES105A106A4A	**7STRP**	**0.0109,0.0,0,0,0**	**Slew =,0.11**	2R5	4	1	3,838,665:00:0
2867	**97**	**52**	**17:53:40.055**	**E6JNFEA12403-**	**NIMPBK**	**301ET**	**JUPITER FEATURE TRACK 124 DEG PH**	**2R5**	**4**	**1**	**: :**
2868	97	52	17:55:19.933	117ES11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,838,666:59:0
2869	**97**	**52**	**17:55:20.055**	**E6JNFEA12403-**	**DESELC**	**300ET**	**JUPITER FEATURE TRACK 124 DEG PH**	**2R5**	**4**	**1**	**: :**
2870	97	52	17:55:31.266		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *2626.21 +/- 1	2R5	4	1	3,838,666:76:0
2871	97	52	17:55:31.266	175ES422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,838,666:76:0
2872	97	52	17:55:31.266	175ES6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,838,666:76:0
2873	**97**	**52**	**17:55:45.266**	**E6JNFEA12403-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**
2874	97	52	19:05:26.600	488AX6C	6TMSED	NORM,CL6	Sci, Eng, and D/L Chan	2R5	4	1	3,838,735:90:0
2875	**97**	**52**	**19:10:34.666**	**E6INVOLCAN04-**		**-----START------**		**2R5**	**4**	**1**	**: :**
2876	97	52	19:11:26.600	125ET11A	NIMSINIT	GE	##### GROUP END INIT	2R5	4	1	3,838,741:84:0
2877	**97**	**52**	**19:11:26.600**	**125ET4A**	**37IST**	**0,2,0,OFF,0,1,1**	**Gain State 4**	**4R5**	**4**	**1**	**3,838,741:84:0**
2878	97	52	19:11:26.600	125ET	NIMSINIT	GS	##### GROUP START INIT	4R5	4	1	3,838,741:84:0
2879	97	52	19:11:29.933	165ET4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R5	4	1	3,838,741:89:0
2880	97	52	19:11:30.600	165ET4B	7SCAN	NORM,54.998,21.4	Check S/P Position	4R5	4	1	3,838,741:90:0
2881	**97**	**52**	**19:12:27.266**	**127ET4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**4R3**	**4**	**0**	**3,838,742:84:0**
2882	97	52	19:12:27.266	127ET	NIMSTAB	GS	%%%%% GROUP START TAB	4R3	4	0	3,838,742:84:0
2883	**97**	**52**	**19:12:27.933**	**127ET4B**	**37ETB**	**07,C7,03,80,00,0**	**Loads wavelength edit table**	**4R3**	**4**	**0**	**3,838,742:85:0**
2884	97	52	19:12:35.933	127ET11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	3,838,743:06:0
2885	97	52	19:13:19.933	175ET422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	3,838,743:72:0
2886	97	52	19:13:19.933		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 2626.15 +/- 1	4R3	4	0	3,838,743:72:0
2887	97	52	19:13:23.266	117ET	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	3,838,743:77:0
2888	97	52	19:13:29.200		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *2627.44 +/- 1	4R3	4	0	3,838,743:85:9
2889	97	52	19:13:29.266	175ET176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	4R3	4	0	3,838,743:86:0
2890	97	52	19:13:32.600	117ET105A106A4A	**7STRP**	**-0.00155,0.0,0,0**	**Slew =,0.04**	4R3	4	0	3,838,744:00:0
2891	**97**	**52**	**19:13:36.666**	**E6INVOLCAN04-**		**-----STOP-------**		**4R3**	**4**	**0**	**: :**
2892	97	52	19:14:12.600	117ET11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	3,838,744:60:0
2893	97	52	19:14:23.933		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *2614.61 +/- 1	4R3	4	0	3,838,744:77:0
2894	97	52	19:14:23.933	175ET422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,838,744:77:0
2895	97	52	19:14:23.933	175ET6A	6TMREC	**NRC**	NO RECORD Record Mode Change	4R3	4	0	3,838,744:77:0
2896	**97**	**52**	**19:58:05.999**	**E6INTHRMAL02-**		**-----START------**		**4R3**	**4**	**0**	**: :**
2897	97	52	19:59:01.266	165EU4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,838,788:89:0
2898	97	52	19:59:01.933	165EU4B	7SCAN	NORM,58.16,22.10	Check S/P Position	4R3	4	0	3,838,788:90:0
2899	97	52	19:59:59.933	488AX6D	6TMSED	NORM,GL6	Sci, Eng, and D/L Chan	4R3	4	0	3,838,789:86:0
2900	97	52	20:00:00.600	282NG432A431A6A	6RCDSL	DDSNCG,PLSDSL,EP	Record Deselect (DDS o	4R3	4	0	3,838,789:87:0
2901	97	52	20:00:01.266	282NG432A6A	6RTSL1		R/T Select of DDS and	4R3	4	0	3,838,789:88:0
2902	**97**	**52**	**20:00:59.266**	**127EU4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**4R3**	**4**	**0**	**3,838,790:84:0**
2903	97	52	20:00:59.266	127EU	NIMSTAB	GS	%%%%% GROUP START TAB	4R3	4	0	3,838,790:84:0
2904	**97**	**52**	**20:00:59.933**	**127EU4B**	**37ETB**	**07,C7,03,80,00,0**	**Loads wavelength edit table**	**4R3**	**4**	**0**	**3,838,790:85:0**
2905	97	52	20:01:07.933	127EU11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	3,838,791:06:0
2906	97	52	20:01:51.933		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 2614.55 +/- 1	4R3	4	0	3,838,791:72:0
2907	97	52	20:01:51.933	175EU422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	3,838,791:72:0
2908	97	52	20:01:55.266	117EU	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	3,838,791:77:0
2909	97	52	20:02:01.200		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *2615.85 +/- 1	4R3	4	0	3,838,791:85:9
2910	97	52	20:02:01.266	175EU176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	4R3	4	0	3,838,791:86:0
2911	97	52	20:02:04.600	117EU105A106A4A	**7STRP**	**-0.0048,0.0,0,0,**	**Slew =,0.04**	4R3	4	0	3,838,792:00:0
2912	97	52	20:04:05.933	117EU11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	3,838,794:00:0
2913	97	52	20:04:07.266	175EU422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,838,794:02:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2914	97	52	20:04:07.266		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *2586.30 +/- 1	4R3	4	0	3,838,794:02:0	
2915	97	52	20:04:07.266	175EU6A	6TMREC	**NRC**	NO RECORD Record Mode Change	4R3	4	0	3,838,794:02:0	
2916	**97**	**52**	**20:04:09.999**	**E6INTHRMAL02-**		**-----STOP-------**		**4R3**	**4**	**0**	**: :**	
2917	97	52	20:21:15.933	165IL4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,838,810:89:0	
2918	97	52	20:21:16.600	165IL4B	7SCAN	NORM,3.929,0.293	Check S/P Position	4R3	4	0	3,838,810:90:0	
2919	97	52	20:25:08.600		DMS:	: *US-RUNUP	R806, TRACK 4, REV, TIC 2586.24 +/- 1	4R3	4	0	3,838,814:74:0	
2920	97	52	20:25:08.600	175IX422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	4R3	4	0	3,838,814:74:0	
2921	97	52	20:25:11.933	118IL	**SMOS**	GS		4R3	4	0	3,838,814:79:0	
2922	97	52	20:25:18.600	165IL4C	7VECT		Inert vect update UTC	4R3	4	0	3,838,814:89:0	
2923	97	52	20:25:19.266	165IL4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	4R3	4	0	3,838,814:90:0	
2924	97	52	20:25:21.266	175IX176A6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	4R3	4	0	3,838,815:02:0	
2925	97	52	20:25:21.733		DMS:	**: *RECORD**	R806, TRACK 4, REV, TIC *2521.65 +/- 1	4R3	4	0	3,838,815:02:7	
2926	97	52	20:25:21.933	118IL110A111A4A	7STRP	0.0,0.0073,26,0,	Slew =,4.87	4R3	4	0	3,838,815:03:0	
2927	97	52	20:25:30.600	118IL11A	**SMOS**	GE		4R3	4	0	3,838,815:16:0	
2928	97	52	20:25:37.266		DMS:	**: *RUNDOWN**	R806, TRACK 4, REV, TIC *2139.39 +/- 1	4R3	4	0	3,838,815:26:0	
2929	97	52	20:25:37.266	175IX422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,838,815:26:0	
2930	**97**	**52**	**20:28:25.999**	**E6INVOLCAN05-**		**-----START------**		**4R3**	**4**	**0**	**: :**	
2931	97	52	20:29:21.266	165EV4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,838,818:89:0	
2932	97	52	20:29:21.933	165EV4B	7SCAN	NORM,60.069,22.4	Check S/P Position	4R3	4	0	3,838,818:90:0	
2933	97	52	20:30:18.600	127EV	NIMSTAB	GS	%%%%% GROUP START TAB	4R3	4	0	3,838,819:84:0	
2934	**97**	**52**	**20:30:18.600**	**127EV4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**4R3**	**4**	**0**	**3,838,819:84:0**	
2935	**97**	**52**	**20:30:19.266**	**127EV4B**	**37ETB**	**07,C7,03,80,00,0**	**Loads wavelength edit table**	**4R3**	**4**	**0**	**3,838,819:85:0**	
2936	97	52	20:30:27.266	127EV11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	3,838,820:06:0	
2937	97	52	20:31:11.266		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 2127.89 +/- 2	4R3	4	0	3,838,820:72:0	
2938	97	52	20:31:11.266	175EV422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	3,838,820:72:0	
2939	97	52	20:31:14.600	117EV	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	3,838,820:77:0	
2940	97	52	20:31:20.533		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *2129.18 +/- 2	4R3	4	0	3,838,820:85:9	
2941	97	52	20:31:20.600	175EV176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	4R3	4	0	3,838,820:86:0	
2942	97	52	20:31:23.933	117EV105A106A4A	**7STRP**	**-0.00475,0.0,0,0**	**Slew =,0.04**	4R3	4	0	3,838,821:00:0	
2943	97	52	20:33:25.266	117EV11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	3,838,823:00:0	
2944	**97**	**52**	**20:33:29.333**	**E6INVOLCAN05-**		**-----STOP-------**		**4R3**	**4**	**0**	**: :**	
2945	97	52	20:33:36.600		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *2097.29 +/- 2	4R3	4	0	3,838,823:17:0	
2946	97	52	20:33:36.600	175EV422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,838,823:17:0	
2947	97	52	20:33:36.600	175EV6A	6TMREC	**NRC**	NO RECORD Record Mode Change	4R3	4	0	3,838,823:17:0	
2948	97	52	23:05:40.600	488AY6A	6TMSED	FILL,GL6	Sci, Eng, and D/L Chan	4R3	4	0	3,838,973:53:0	
2949	97	52	23:10:07.266	165HA4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,838,977:89:0	
2950	97	52	23:10:07.933	165HA4B	7SCAN	NORM,17.67,6.875	Check S/P Position	4R3	4	0	3,838,977:90:0	
2951	97	52	23:14:01.933	117HA	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	3,838,981:77:0	
2952	97	52	23:14:11.266	176HA6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	4R3	4	0	3,838,982:00:0	
2953	97	52	23:14:11.266	117HA105A106A4A	7STRP	0.00765,0.0,0,0,	Slew =,0.15	4R3	4	0	3,838,982:00:0	
2954	97	52	23:15:03.933	117HA105A106A4B	7STRP	-0.0089,0.00135,	Slew =12.01	4R3	4	0	3,838,982:79:0	
2955	97	52	23:15:09.933	117HA105A106A4C	7STRP	0.00765,0.0,0,0,	Slew =,0.15	4R3	4	0	3,838,982:88:0	
2956	97	52	23:16:02.600	117HA105A106A4D	7STRP	-0.0089,0.00135,	Slew =12.01	4R3	4	0	3,838,983:76:0	
2957	97	52	23:16:08.600	117HA105A106A4E	7STRP	0.00765,0.0,0,0,	Slew =,0.15	4R3	4	0	3,838,983:85:0	
2958	97	52	23:17:01.266	117HA105A106A4F	7STRP	-0.0089,0.00135,	Slew =12.01	4R3	4	0	3,838,984:73:0	
2959	97	52	23:17:07.266	117HA105A106A4G	7STRP	0.00765,0.0,0,0,	Slew =,0.15	4R3	4	0	3,838,984:82:0	
2960	97	52	23:17:59.933	117HA105A106A4H	7STRP	-0.0089,0.00135,	Slew =12.01	4R3	4	0	3,838,985:70:0	
2961	97	52	23:18:05.933	117HA105A106A4I	7STRP	0.00765,0.0,0,0,	Slew =,0.15	4R3	4	0	3,838,985:79:0	
2962	97	52	23:18:58.600	117HA105A106A4J	7STRP	-0.0089,0.00135,	Slew =12.01	4R3	4	0	3,838,986:67:0	
2963	97	52	23:19:04.600	117HA105A106A4K	7STRP	0.00765,0.0,0,0,	Slew =,0.15	4R3	4	0	3,838,986:76:0	
2964	97	52	23:19:19.933	488AY6B	6TMSED	NORM,GL6	Sci, Eng, and D/L Chan	4R3	4	0	3,838,987:08:0	
2965	97	52	23:19:57.266	117HA105A106A4L	7STRP	-0.0089,0.00135,	Slew =12.01	4R3	4	0	3,838,987:64:0	
2966	97	52	23:20:03.266	117HA105A106A4M	7STRP	0.00765,0.0,0,0,	Slew =,0.15	4R3	4	0	3,838,987:73:0	
2967	97	52	23:20:55.933	117HA105A106A4N	7STRP	-0.0089,0.00135,	Slew =12.01	4R3	4	0	3,838,988:61:0	
2968	97	52	23:21:01.933	117HA105A106A4O	7STRP	0.00765,0.0,0,0,	Slew =,0.15	4R3	4	0	3,838,988:70:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2969	97	52	23:21:54.600	117HA105A106A4P	7STRP	-0.0089,0.00135,	Slew =12.01	4R3	4	0	3,838,989:58:0	
2970	97	52	23:22:00.600	117HA105A106A4Q	7STRP	0.00765,0.0,0,0,	Slew =,0.15	4R3	4	0	3,838,989:67:0	
2971	97	52	23:22:53.266	117HA11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	3,838,990:55:0	
2972	97	52	23:26:46.600		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 2097.23 +/- 2	4R3	4	0	3,838,994:41:0	
2973	97	52	23:26:49.266	176HA6B	6TMREC	**NRC**	NO RECORD Record Mode Change	4R3	4	0	3,838,994:45:0	
2974	97	52	23:27:11.266		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *2094.92 +/- 2	4R3	4	0	3,838,994:78:0	
2975	97	52	23:27:30.600		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *2090.39 +/- 2	4R3	4	0	3,838,995:16:0	
2976	97	52	23:59:59.933	488AY6C	6TMSED	NORM,FL6	Sci, Eng, and D/L Chan	4R3	4	0	3,839,027:28:0	
2977	97	53	00:00:00.600	282NH432A431A6A	6RCDSL	DDSNCG,PLSDSL,EP	Record Deselect (DDS o	4R3	4	0	3,839,027:29:0	
2978	97	53	00:00:01.266	282NH432A6A	6RTSL1		R/T Select of DDS and	4R3	4	0	3,839,027:30:0	
2979	97	53	02:43:24.533	125FS	NIMSINIT	GS	##### GROUP START INIT	4R3	4	0	3,839,188:84:0	
2980	**97**	**53**	**02:43:24.533**	**125FS4A**	**37IST**	**0,2,0,OFF,0,1,0**	**Gain State 2**	**2R3**	**4**	**0**	**3,839,188:84:0**	
2981	97	53	02:43:24.533	125FS11A	NIMSINIT	GE	##### GROUP END INIT	2R3	4	0	3,839,188:84:0	
2982	**97**	**53**	**02:43:33.266**	**E6NNHEALTH07-**		**-----START------**		**2R3**	**4**	**0**	**: :**	
2983	**97**	**53**	**02:44:25.200**	**127FS4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**3,839,189:84:0**	
2984	97	53	02:44:25.200	127FS	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	3,839,189:84:0	
2985	**97**	**53**	**02:44:25.866**	**127FS4B**	**37ETB**	**07,C7,02,80,44,3**	**Loads wavelength edit table**	**2R3**	**4**	**0**	**3,839,189:85:0**	
2986	97	53	02:44:33.866	127FS11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	3,839,190:06:0	
2987	**97**	**53**	**02:44:49.866**	**432EM6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**	**NIMS R/T SELECT**	**2R3**	**4**	**0**	**3,839,190:30:0**	
2988	**97**	**53**	**02:45:49.200**	**432EN6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**2R3**	**4**	**0**	**3,839,191:28:0**	
2989	**97**	**53**	**02:48:36.600**	**E6NNHEALTH07-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**	
2990	**97**	**53**	**02:48:36.600**	**E6NIMSP2LD07-**		**-----START------**		**2R3**	**4**	**0**	**: :**	
2991	**97**	**53**	**02:49:37.200**	**20EK6A**	**6CKSUM**	**NIMS**	**NIMS,1000,14BC**	**2R3**	**4**	**0**	**3,839,195:06:0**	
2992	**97**	**53**	**02:50:37.866**	**20EK5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**2R3**	**4**	**0**	**3,839,196:06:0**	
2993	**97**	**53**	**02:51:38.533**	**20EK5B**	**37MRL**		**Memory Realocate (software operates from R**	**2R3**	**4**	**0**	**3,839,197:06:0**	
2994	**97**	**53**	**02:52:39.200**	**20EK6B**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**2R3**	**4**	**0**	**3,839,198:06:0**	
2995	**97**	**53**	**02:53:39.866**	**20EK6C**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**2R3**	**4**	**0**	**3,839,199:06:0**	
2996	**97**	**53**	**02:54:40.533**	**20EK5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**3,839,200:06:0**	
2997	**97**	**53**	**02:55:41.200**	**20EK5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**3,839,201:06:0**	
2998	**97**	**53**	**02:56:41.866**	**20EK4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**3,839,202:06:0**	
2999	**97**	**53**	**02:57:42.533**	**20EK4B**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**3,839,203:06:0**	
3000	**97**	**53**	**02:58:43.266**	**E6NIMSP2LD07-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**	
3001	**97**	**53**	**02:59:43.933**	**E6JNFEA14001-**		**-----START------**		**2R3**	**4**	**0**	**: :**	
3002	97	53	03:00:39.200	165EW4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,839,205:89:0	
3003	97	53	03:00:39.866	165EW4B	7SCAN	NORM,80.172999,2	Check S/P Position	2R3	4	0	3,839,205:90:0	
3004	**97**	**53**	**03:02:37.200**	**125EW4A**	**37IST**	**0,2,0,OFF,0,1,0**	**Gain State 2**	**2R3**	**4**	**0**	**3,839,207:84:0**	
3005	97	53	03:02:37.200	125EW	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	3,839,207:84:0	
3006	97	53	03:02:37.200	125EW11A	NIMSINIT	GE	##### GROUP END INIT	2R3	4	0	3,839,207:84:0	
3007	97	53	03:03:37.866	127EW	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	3,839,208:84:0	
3008	**97**	**53**	**03:03:37.866**	**127EW4A**	**37IOP**	**5,1**	**Short Map, Grating Start Position =01**	**2R5**	**4**	**1**	**3,839,208:84:0**	
3009	**97**	**53**	**03:03:38.533**	**127EW4B**	**37ETB**	**,00,05,FF,F8,05,**	**Loads wavelength edit table**	**2R5**	**4**	**1**	**3,839,208:85:0**	
3010	97	53	03:03:46.533	127EW11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R5	4	1	3,839,209:06:0	
3011	97	53	03:04:30.533	175EW422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,839,209:72:0	
3012	97	53	03:04:30.533		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 2090.33 +/- 2	2R5	4	1	3,839,209:72:0	
3013	97	53	03:04:33.866	117EW	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,839,209:77:0	
3014	97	53	03:04:39.800		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *2091.62 +/- 2	2R5	4	1	3,839,209:85:9	
3015	97	53	03:04:39.866	175EW176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	3,839,209:86:0	
3016	97	53	03:04:43.200	117EW105A106A4A	**7STRP**	**0.0109,0.0,0,0,0**	**Slew =,0.11**	2R5	4	1	3,839,210:00:0	
3017	**97**	**53**	**03:04:43.369**	**E6JNFEA14001-**	**NIMPBK**	**301EY**	**JUPITER FEATURE TRACK 140 DEG PH**	**2R5**	**4**	**1**	**: :**	
3018	97	53	03:06:23.200	117EW11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,839,211:59:0	
3019	97	53	03:06:34.533	175EW6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,839,211:76:0	
3020	97	53	03:06:34.533	175EW422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,839,211:76:0	
3021	97	53	03:06:34.533		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *2064.73 +/- 2	2R5	4	1	3,839,211:76:0	
3022	**97**	**53**	**03:06:48.600**	**E6JNFEA14001-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**	
3023	**97**	**53**	**03:22:59.266**	**E6JNFEA14002-**		**-----START------**		**2R5**	**4**	**1**	**: :**	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
3024	97	53	03:23:54.533	165EX4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,839,228:89:0	
3025	97	53	03:23:55.200	165EX4B	7SCAN	NORM,80.724,23.0	Check S/P Position	2R5	4	1	3,839,228:90:0	
3026	97	53	03:27:45.866		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 2064.67 +/- 2	2R5	4	1	3,839,232:72:0	
3027	97	53	03:27:45.866	175EX422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,839,232:72:0	
3028	97	53	03:27:49.200	117EX	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,839,232:77:0	
3029	97	53	03:27:55.133		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *2065.96 +/- 2	2R5	4	1	3,839,232:85:9	
3030	97	53	03:27:55.200	175EX176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	3,839,232:86:0	
3031	97	53	03:27:58.533	117EX105A106A4A	**7STRP**	**0.0109,0.0,0,0,0**	**Slew =,0.11**	2R5	4	1	3,839,233:00:0	
3032	97	53	03:29:38.533	117EX11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,839,234:59:0	
3033	97	53	03:29:49.866		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *2039.07 +/- 2	2R5	4	1	3,839,234:76:0	
3034	97	53	03:29:49.866	175EX422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,839,234:76:0	
3035	97	53	03:29:49.866	175EX6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,839,234:76:0	
3036	**97**	**53**	**03:30:03.933**	**E6JNFEA14002-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**	
3037	97	53	03:33:10.533	488AY6D	6TMSED	NORM,FL4	Sci, Eng, and D/L Chan	2R5	4	1	3,839,238:13:0	
3038	**97**	**53**	**03:50:17.266**	**E6JNFEA14003-**		**-----START------**		**2R5**	**4**	**1**	**: :**	
3039	97	53	03:51:12.533	165EY4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,839,255:89:0	
3040	97	53	03:51:13.200	165EY4B	7SCAN	NORM,81.112,23.0	Check S/P Position	2R5	4	1	3,839,255:90:0	
3041	97	53	03:55:03.866		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 2039.01 +/- 2	2R5	4	1	3,839,259:72:0	
3042	97	53	03:55:03.866	175EY422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,839,259:72:0	
3043	97	53	03:55:07.200	117EY	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,839,259:77:0	
3044	97	53	03:55:13.133		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *2040.31 +/- 2	2R5	4	1	3,839,259:85:9	
3045	97	53	03:55:13.200	175EY176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	3,839,259:86:0	
3046	97	53	03:55:16.533	117EY105A106A4A	**7STRP**	**0.0109,0.0,0,0,0**	**Slew =,0.11**	2R5	4	1	3,839,260:00:0	
3047	97	53	03:56:56.533	117EY11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,839,261:59:0	
3048	**97**	**53**	**03:56:56.700**	**E6JNFEA14003-**	**DESELC**	**300EY**	**JUPITER FEATURE TRACK 140 DEG PH**	**2R5**	**4**	**1**	**: :**	
3049	97	53	03:57:07.866	175EY422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,839,261:76:0	
3050	97	53	03:57:07.866	175EY6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,839,261:76:0	
3051	97	53	03:57:07.866		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *2013.42 +/- 2	2R5	4	1	3,839,261:76:0	
3052	**97**	**53**	**03:57:21.933**	**E6JNFEA14003-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**	
3053	97	53	04:29:59.866	481UE4A	7VECT	BB2	Inert vect update UTC	2R5	4	1	3,839,294:31:0	
3054	97	53	05:13:26.533	488AZ6A	6TMSED	NORM,FL2	Sci, Eng, and D/L Chan	2R5	4	1	3,839,337:28:0	
3055	97	53	05:18:31.200	488AZ6B	6TMSED	FILL,FL2	Sci, Eng, and D/L Chan	2R5	4	1	3,839,342:30:0	
3056	97	53	05:29:59.866	488AZ6C	6TMSED	FILL,DL2	Sci, Eng, and D/L Chan	2R5	4	1	3,839,353:62:0	
3057	97	53	06:22:52.533	165HB4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,839,405:89:0	
3058	97	53	06:22:53.200	165HB4B	7SCAN	NORM,39.133,15.2	Check S/P Position	2R5	4	1	3,839,405:90:0	
3059	97	53	06:26:47.200	117HB	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,839,409:77:0	
3060	97	53	06:26:56.533	117HB105A106A4A	7STRP	0.0,-0.006,0,0,0	Slew =,0.61	2R5	4	1	3,839,410:00:0	
3061	97	53	06:26:56.533	176HB6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R5	4	1	3,839,410:00:0	
3062	97	53	06:27:18.533	117HB11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,839,410:33:0	
3063	97	53	06:27:29.866	176HB6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,839,410:50:0	
3064	97	53	06:27:31.866		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 2013.36 +/- 2	2R5	4	1	3,839,410:53:0	
3065	97	53	06:27:41.866		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *2014.48 +/- 2	2R5	4	1	3,839,410:68:0	
3066	97	53	06:27:49.200		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *2012.76 +/- 2	2R5	4	1	3,839,410:79:0	
3067	97	53	06:31:59.866	411JI6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,839,415:00:0	
3068	97	53	06:31:59.866		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 2012.70 +/- 2	2R5	4	1	3,839,415:00:0	
3069	97	53	06:32:09.133		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *2014.00 +/- 2	2R5	4	1	3,839,415:13:9	
3070	97	53	06:32:09.866	411JI6B	6TMREC	BDT	7.68 KBPS BUFFER DUMP TO TAPE Record Mode	2R5	4	1	3,839,415:15:0	
3071	97	53	06:34:11.200	411JI6C	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,839,417:15:0	
3072	97	53	06:34:12.533	175TH176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	2R5	4	1	3,839,417:17:0	
3073	97	53	06:34:13.200	175TH422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,839,417:18:0	
3074	97	53	06:34:19.866	175TH422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,839,417:28:0	
3075	97	53	06:34:19.866		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *1983.35 +/- 2	2R5	4	1	3,839,417:28:0	
3076	97	53	06:54:13.200	165IN4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,839,436:89:0	
3077	97	53	06:54:13.866	165IN4B	7SCAN	NORM,222.351999,	Check S/P Position	2R5	4	1	3,839,436:90:0	
3078	97	53	06:58:05.866		DMS:	: *US-RUNUP	R115, TRACK 4, REV, TIC 1983.29 +/- 2	2R5	4	1	3,839,440:74:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
3079	97	53	06:58:05.866	175IY422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2R5	4	1	3,839,440:74:0
3080	97	53	06:58:15.866	165IN4C	7VECT		Inert vect update UTC	2R5	4	1	3,839,440:89:0
3081	97	53	06:58:16.533	165IN4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	2R5	4	1	3,839,440:90:0
3082	97	53	06:58:17.733		DMS:	**: *RECORD**	R115, TRACK 4, REV, TIC *1978.41 +/- 2	2R5	4	1	3,839,441:00:8
3083	97	53	06:58:17.866	175IY176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R5	4	1	3,839,441:01:0
3084	97	53	06:59:18.533	175IY422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,839,442:01:0
3085	97	53	06:59:18.533		DMS:	**: *RUNDOWN**	R115, TRACK 4, REV, TIC *1764.66 +/- 2	2R5	4	1	3,839,442:01:0
3086	97	53	07:00:49.866	488AZ6D	6TMSED	NORM,DL2	Sci, Eng, and D/L Chan	2R5	4	1	3,839,443:47:0
3087	97	53	07:43:12.533	488AZ6E	6TMSED	FILL,DL2	Sci, Eng, and D/L Chan	2R5	4	1	3,839,485:39:0
3088	**97**	**53**	**07:59:01.333**	**E6NNPCTRLT01-**		**-----START------**		**2R5**	**4**	**1**	**: :**
3089	97	53	08:40:29.200	488BA6A	6TMSED	NORM,DL2	Sci, Eng, and D/L Chan	2R5	4	1	3,839,542:07:0
3090	97	53	10:29:59.866	481UF4A	7VECT		Inert vect update UTC	2R5	4	1	3,839,650:35:0
3091	**97**	**53**	**10:58:59.999**	**E6NNPCTRLT01-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**
3092	97	53	12:48:31.200	488BA6B	6TMSED	FILL,DL2	Sci, Eng, and D/L Chan	2R5	4	1	3,839,787:35:0
3093	**97**	**53**	**12:51:13.999**	**E6NNHNDARK04-**		**-----START------**		**2R5**	**4**	**1**	**: :**
3094	97	53	12:52:09.200	165FA4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,839,790:89:0
3095	97	53	12:52:09.866	165FA4B	7SCAN	NORM,234.0,-11.5	Check S/P Position	2R5	4	1	3,839,790:90:0
3096	**97**	**53**	**12:54:07.200**	**125FA4A**	**37IST**	**0,2,0,OFF,0,1,0**	**Gain State 2**	**2R5**	**4**	**1**	**3,839,792:84:0**
3097	97	53	12:54:07.200	125FA11A	NIMSINIT	GE	##### GROUP END INIT	2R5	4	1	3,839,792:84:0
3098	97	53	12:54:07.200	125FA	NIMSINIT	GS	##### GROUP START INIT	2R5	4	1	3,839,792:84:0
3099	**97**	**53**	**12:55:07.866**	**127FA4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**3,839,793:84:0**
3100	97	53	12:55:07.866	127FA	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	3,839,793:84:0
3101	**97**	**53**	**12:55:08.533**	**127FA4B**	**37ETB**	**07,C7,05,FF,FF,3**	**Loads wavelength edit table**	**2R3**	**4**	**0**	**3,839,793:85:0**
3102	97	53	12:55:16.533	127FA11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	3,839,794:06:0
3103	**97**	**53**	**12:55:16.666**	**E6NNHNDARK04-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**
3104	97	53	12:56:00.533	175FA422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	3,839,794:72:0
3105	97	53	12:56:00.533		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 1763.66 +/- 2	2R3	4	0	3,839,794:72:0
3106	97	53	12:56:09.800		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *1764.95 +/- 2	2R3	4	0	3,839,794:85:9
3107	97	53	12:56:09.866	175FA176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R3	4	0	3,839,794:86:0
3108	**97**	**53**	**12:56:13.347**	**E6NNHNDARK04-**	**NIMPBK**	**301FB**	**DARK OBSERVATION**	**2R3**	**4**	**0**	**: :**
3109	**97**	**53**	**12:57:14.014**	**E6NNHNDARK04-**	**DESELC**	**300FB**	**DARK OBSERVATION**	**2R3**	**4**	**0**	**: :**
3110	97	53	12:57:25.866	175FA422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,839,796:18:0
3111	97	53	12:57:25.866	175FA6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	3,839,796:18:0
3112	97	53	12:57:25.866		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *1747.13 +/- 2	2R3	4	0	3,839,796:18:0
3113	**97**	**53**	**13:07:24.600**	**E6JNFEA15001-**		**-----START------**		**2R3**	**4**	**0**	**: :**
3114	97	53	13:08:19.866	165FB4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,839,806:89:0
3115	97	53	13:08:20.533	165FB4B	7SCAN	NORM,91.818,23.4	Check S/P Position	2R3	4	0	3,839,806:90:0
3116	**97**	**53**	**13:10:17.866**	**125FB4A**	**37IST**	**0,2,0,OFF,0,1,0**	**Gain State 2**	**2R3**	**4**	**0**	**3,839,808:84:0**
3117	97	53	13:10:17.866	125FB11A	NIMSINIT	GE	##### GROUP END INIT	2R3	4	0	3,839,808:84:0
3118	97	53	13:10:17.866	125FB	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	3,839,808:84:0
3119	97	53	13:11:18.533	127FB	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	3,839,809:84:0
3120	**97**	**53**	**13:11:18.533**	**127FB4A**	**37IOP**	**5,1**	**Short Map, Grating Start Position =01**	**2R5**	**4**	**1**	**3,839,809:84:0**
3121	**97**	**53**	**13:11:19.200**	**127FB4B**	**37ETB**	**,CD,02,00,00,05,**	**Loads wavelength edit table**	**2R5**	**4**	**1**	**3,839,809:85:0**
3122	97	53	13:11:27.200	127FB11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R5	4	1	3,839,810:06:0
3123	97	53	13:12:11.200	175FB422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,839,810:72:0
3124	97	53	13:12:11.200		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 1747.07 +/- 2	2R5	4	1	3,839,810:72:0
3125	97	53	13:12:14.533	117FB	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,839,810:77:0
3126	97	53	13:12:20.466		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *1748.36 +/- 2	2R5	4	1	3,839,810:85:9
3127	97	53	13:12:20.533	175FB176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	3,839,810:86:0
3128	97	53	13:12:23.866	117FB105A106A4A	**7STRP**	**0.01,0.0,0,0,0,0**	**Slew =,0.11**	2R5	4	1	3,839,811:00:0
3129	**97**	**53**	**13:12:24.013**	**E6JNFEA15001-**	**NIMPBK**	**301FC**	**JUPITER FEATURE TRACK 150 DEG PH**	**2R5**	**4**	**1**	**: :**
3130	97	53	13:13:57.866	117FB11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,839,812:50:0
3131	97	53	13:14:09.200	175FB422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,839,812:67:0
3132	97	53	13:14:09.200		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *1722.88 +/- 2	2R5	4	1	3,839,812:67:0
3133	97	53	13:14:09.200	175FB6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,839,812:67:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
3134	**97**	**53**	**13:14:29.266**	**E6JNFEA15001-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**	
3135	**97**	**53**	**13:24:35.933**	**E6JNFEA15002-**		**-----START------**		**2R5**	**4**	**1**	**: :**	
3136	97	53	13:25:31.200	165FC4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,839,823:89:0	
3137	97	53	13:25:31.866	165FC4B	7SCAN	NORM,92.068999,2	Check S/P Position	2R5	4	1	3,839,823:90:0	
3138	**97**	**53**	**13:27:29.200**	**125FC4A**	**37IST**	**0,2,0,OFF,0,1,0**	**Gain State 2**	**2R5**	**4**	**1**	**3,839,825:84:0**	
3139	97	53	13:27:29.200	125FC11A	NIMSINIT	GE	##### GROUP END INIT	2R5	4	1	3,839,825:84:0	
3140	97	53	13:27:29.200	125FC	NIMSINIT	GS	##### GROUP START INIT	2R5	4	1	3,839,825:84:0	
3141	97	53	13:29:22.533		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 1722.82 +/- 2	2R5	4	1	3,839,827:72:0	
3142	97	53	13:29:22.533	175FC422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,839,827:72:0	
3143	97	53	13:29:25.866	117FC	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,839,827:77:0	
3144	97	53	13:29:31.800		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *1724.11 +/- 2	2R5	4	1	3,839,827:85:9	
3145	97	53	13:29:31.866	175FC176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	3,839,827:86:0	
3146	97	53	13:29:35.200	117FC105A106A4A	**7STRP**	**0.01,0.0,0,0,0,0**	**Slew =,0.11**	2R5	4	1	3,839,828:00:0	
3147	97	53	13:31:09.200	117FC11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,839,829:50:0	
3148	97	53	13:31:20.533		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *1698.63 +/- 2	2R5	4	1	3,839,829:67:0	
3149	97	53	13:31:20.533	175FC6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,839,829:67:0	
3150	97	53	13:31:20.533	175FC422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,839,829:67:0	
3151	**97**	**53**	**13:31:40.600**	**E6JNFEA15002-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**	
3152	**97**	**53**	**13:41:47.266**	**E6JNFEA15003-**		**-----START------**		**2R5**	**4**	**1**	**: :**	
3153	97	53	13:42:42.533	165FD4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,839,840:89:0	
3154	97	53	13:42:43.200	165FD4B	7SCAN	NORM,92.195999,2	Check S/P Position	2R5	4	1	3,839,840:90:0	
3155	97	53	13:44:40.533	125FD	NIMSINIT	GS	##### GROUP START INIT	2R5	4	1	3,839,842:84:0	
3156	97	53	13:44:40.533	125FD11A	NIMSINIT	GE	##### GROUP END INIT	2R5	4	1	3,839,842:84:0	
3157	**97**	**53**	**13:44:40.533**	**125FD4A**	**37IST**	**0,2,0,OFF,0,1,0**	**Gain State 2**	**2R5**	**4**	**1**	**3,839,842:84:0**	
3158	**97**	**53**	**13:45:41.200**	**127FD4A**	**37IOP**	**5,1**	**Short Map, Grating Start Position =01**	**2R5**	**4**	**1**	**3,839,843:84:0**	
3159	97	53	13:45:41.200	127FD	NIMSTAB	GS	%%%%% GROUP START TAB	2R5	4	1	3,839,843:84:0	
3160	**97**	**53**	**13:45:41.866**	**127FD4B**	**37ETB**	**,CD,02,00,00,05,**	**Loads wavelength edit table**	**2R5**	**4**	**1**	**3,839,843:85:0**	
3161	97	53	13:45:49.866	127FD11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R5	4	1	3,839,844:06:0	
3162	97	53	13:45:49.866	488BA6C	6TMSED	NORM,DL2	Sci, Eng, and D/L Chan	2R5	4	1	3,839,844:06:0	
3163	97	53	13:46:33.866	175FD422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,839,844:72:0	
3164	97	53	13:46:33.866		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 1698.57 +/- 2	2R5	4	1	3,839,844:72:0	
3165	97	53	13:46:37.200	117FD	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,839,844:77:0	
3166	97	53	13:46:43.133		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *1699.86 +/- 2	2R5	4	1	3,839,844:85:9	
3167	97	53	13:46:43.200	175FD176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	3,839,844:86:0	
3168	97	53	13:46:46.533	117FD105A106A4A	**7STRP**	**0.01,0.0,0,0,0,0**	**Slew =,0.11**	2R5	4	1	3,839,845:00:0	
3169	97	53	13:48:20.533	117FD11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,839,846:50:0	
3170	**97**	**53**	**13:48:20.678**	**E6JNFEA15003-**	**DESELC**	**300FC**	**JUPITER FEATURE TRACK 150 DEG PH**	**2R5**	**4**	**1**	**: :**	
3171	97	53	13:48:31.866		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *1674.38 +/- 2	2R5	4	1	3,839,846:67:0	
3172	97	53	13:48:31.866	175FD6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,839,846:67:0	
3173	97	53	13:48:31.866	175FD422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,839,846:67:0	
3174	**97**	**53**	**13:48:51.933**	**E6JNFEA15003-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**	
3175	97	53	14:02:30.533	488BA6D	6TMSED	NORM,DL3	Sci, Eng, and D/L Chan	2R5	4	1	3,839,860:51:0	
3176	97	53	15:09:26.533	488BB6A	6TMSED	FILL,DL3	Sci, Eng, and D/L Chan	2R5	4	1	3,839,926:69:0	
3177	97	53	15:43:34.533	488BB6B	6TMSED	NORM,DL3	Sci, Eng, and D/L Chan	2R5	4	1	3,839,960:47:0	
3178	97	53	15:51:18.533	488BB6C	6TMSED	NORM,DL4	Sci, Eng, and D/L Chan	2R5	4	1	3,839,968:15:0	
3179	97	53	15:53:08.533	165HC4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,839,969:89:0	
3180	97	53	15:53:09.200	165HC4B	7SCAN	NORM,198.032999,	Check S/P Position	2R5	4	1	3,839,969:90:0	
3181	97	53	15:57:03.200	117HC	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,839,973:77:0	
3182	97	53	15:57:12.533	117HC105A106A4A	7STRP	0.0,0.006,0,0,0,	Slew =,0.61	2R5	4	1	3,839,974:00:0	
3183	97	53	15:57:12.533	176HC6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R5	4	1	3,839,974:00:0	
3184	97	53	15:57:34.533	117HC11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,839,974:33:0	
3185	97	53	15:57:45.866	176HC6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,839,974:50:0	
3186	97	53	15:57:47.866		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 1674.32 +/- 2	2R5	4	1	3,839,974:53:0	
3187	97	53	15:57:57.866		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *1675.44 +/- 2	2R5	4	1	3,839,974:68:0	
3188	97	53	15:58:05.200		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *1673.72 +/- 2	2R5	4	1	3,839,974:79:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
3189	97	53	16:59:59.866	488BB6D	6TMSED	NORM,EL4	Sci, Eng, and D/L Chan	2R5	4	1	3,840,036:09:0	
3190	97	53	17:50:46.533	488BB6E	6TMSED	NORM,EL5	Sci, Eng, and D/L Chan	2R5	4	1	3,840,086:29:0	
3191	97	53	18:10:44.533	444UB443A4A	**7MODE**	**CRU**	AACS CRUISE MODE	2R5	4	1	3,840,106:06:0	
3192	97	53	18:13:49.200	444UC443A4A	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	2R5	4	1	3,840,109:10:0	
3193	97	53	18:17:49.200	444UC443A4B	**7MODE**	**SPNL**	AACS ALL-SPIN LOW	2R5	4	1	3,840,113:06:0	
3194	97	53	18:22:46.533	488BC6A	6TMSED	NORM,EL6	Sci, Eng, and D/L Chan	2R5	4	1	3,840,117:88:0	
3195	97	53	18:26:49.200	444UC443A4C	**7CLK**	**17.45,0.0**	Check S/P Position	2R5	4	1	3,840,121:88:0	
3196	97	53	18:32:49.200	432OG431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	2R5	4	1	3,840,127:82:0	
3197	97	53	18:32:49.866	432OG6A	6RTSL1		R/T Select of DDS and	2R5	4	1	3,840,127:83:0	
3198	**97**	**53**	**18:37:53.866**	**127FP4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**3,840,132:84:0**	
3199	97	53	18:37:53.866	127FP	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	3,840,132:84:0	
3200	**97**	**53**	**18:37:54.533**	**127FP4B**	**37ETB**	**0A,CA,19,FF,C0,1**	**Loads wavelength edit table**	**2R3**	**4**	**0**	**3,840,132:85:0**	
3201	97	53	18:38:02.533	127FP11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	3,840,133:06:0	
3202	97	53	18:53:03.866	125DX11A	NIMSINIT	GE	##### GROUP END INIT	2R3	4	0	3,840,147:84:0	
3203	97	53	18:53:03.866	125DX	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	3,840,147:84:0	
3204	**97**	**53**	**18:53:03.866**	**125DX4A**	**37IST**	**1,2,0,OFF,0,1,1**	**Chopper ON, Sync, Chopper (Ref)Gain State**	**4R3**	**4**	**0**	**3,840,147:84:0**	
3205	97	53	18:53:08.533	192EP4A	**7CONE**	**17.0,110.0**	Check S/P Position	4R3	4	0	3,840,148:00:0	
3206	97	53	18:53:09.200	192EP4B	**7CLK**	**17.0,90.0**	Check S/P Position	4R3	4	0	3,840,148:01:0	
3207	97	53	18:55:57.866		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 1673.66 +/- 2	4R3	4	0	3,840,150:72:0	
3208	97	53	18:55:57.866	175FQ422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	3,840,150:72:0	
3209	97	53	18:56:07.133		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *1674.95 +/- 2	4R3	4	0	3,840,150:85:9	
3210	97	53	18:56:07.200	175FQ176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	4R3	4	0	3,840,150:86:0	
3211	**97**	**53**	**18:57:10.001**	**E6NNPCTCAL01-**	**NIMPBK**	**301FJ**	**DARK OBSERVATION**	**4R3**	**4**	**0**	**: :**	
3212	**97**	**53**	**18:57:47.334**	**E6NNPCTCAL01-**	**DESELC**	**300FJ**	**DARK OBSERVATION**	**4R3**	**4**	**0**	**: :**	
3213	97	53	18:59:24.533		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *1628.69 +/- 2	4R3	4	0	3,840,154:18:0	
3214	97	53	18:59:24.533	175FQ6A	6TMREC	**NRC**	NO RECORD Record Mode Change	4R3	4	0	3,840,154:18:0	
3215	97	53	18:59:24.533	175FQ422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,840,154:18:0	
3216	97	53	19:01:13.866	192EP4C	**7CONE**	**17.0,54.88**	Check S/P Position	4R3	4	0	3,840,156:00:0	
3217	97	53	19:01:14.533	192EP4D	**7CLK**	**17.0,244.07**	Check S/P Position	4R3	4	0	3,840,156:01:0	
3218	97	53	19:04:03.200	175FR422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	3,840,158:72:0	
3219	97	53	19:04:03.200		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 1628.63 +/- 2	4R3	4	0	3,840,158:72:0	
3220	97	53	19:04:12.466		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *1629.92 +/- 2	4R3	4	0	3,840,158:85:9	
3221	97	53	19:04:12.533	175FR176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	4R3	4	0	3,840,158:86:0	
3222	**97**	**53**	**19:04:16.000**	**E6NNPCTCAL01-**	**NIMPBK**	**301FY**	**DARK OBSERVATION**	**4R3**	**4**	**0**	**: :**	
3223	**97**	**53**	**19:05:16.667**	**E6NNPCTCAL01-**	**DESELC**	**300FY**	**DARK OBSERVATION**	**4R3**	**4**	**0**	**: :**	
3224	97	53	19:07:29.866		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *1583.66 +/- 2	4R3	4	0	3,840,162:18:0	
3225	97	53	19:07:29.866	175FR422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,840,162:18:0	
3226	97	53	19:07:29.866	175FR6A	6TMREC	**NRC**	NO RECORD Record Mode Change	4R3	4	0	3,840,162:18:0	
3227	97	53	19:09:19.200	192EP4E	**7CONE**	**17.0,110.0**	Check S/P Position	4R3	4	0	3,840,164:00:0	
3228	97	53	19:09:19.866	192EP4F	**7CLK**	**17.0,90.0**	Check S/P Position	4R3	4	0	3,840,164:01:0	
3229	97	53	19:12:08.533		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 1583.60 +/- 2	4R3	4	0	3,840,166:72:0	
3230	97	53	19:12:08.533	175FS422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	3,840,166:72:0	
3231	97	53	19:12:16.533	125DY	NIMSINIT	GS	##### GROUP START INIT	4R3	4	0	3,840,166:84:0	
3232	**97**	**53**	**19:12:16.533**	**125DY4A**	**37IST**	**0,2,1,OFF,1,1,1**	**OPCALGain State 4**	**4R3**	**4**	**0**	**3,840,166:84:0**	
3233	97	53	19:12:16.533	125DY11A	NIMSINIT	GE	##### GROUP END INIT	4R3	4	0	3,840,166:84:0	
3234	97	53	19:12:17.800		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *1584.89 +/- 2	4R3	4	0	3,840,166:85:9	
3235	97	53	19:12:17.866	175FS176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	4R3	4	0	3,840,166:86:0	
3236	97	53	19:15:23.200	192EP4G	**7CONE**	**17.0,153.0**	Check S/P Position	4R3	4	0	3,840,170:00:0	
3237	97	53	19:15:23.866	192EP4H	**7CLK**	**17.0,0.0**	Check S/P Position	4R3	4	0	3,840,170:01:0	
3238	97	53	19:15:35.200	175FS422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,840,170:18:0	
3239	97	53	19:15:35.200	175FS6A	6TMREC	**NRC**	NO RECORD Record Mode Change	4R3	4	0	3,840,170:18:0	
3240	97	53	19:15:35.200		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *1538.63 +/- 2	4R3	4	0	3,840,170:18:0	
3241	97	53	19:17:31.200	444UD443A4A	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	4R3	4	0	3,840,172:10:0	
3242	97	53	19:21:31.200	444UD443A4B	**7MODE**	**CRU**	AACS CRUISE MODE	4R3	4	0	3,840,176:06:0	
3243	97	53	19:36:39.200	432OI431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	4R3	4	0	3,840,191:03:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
3244	97	53	19:36:39.866	432OI6A	6RTSL1		R/T Select of DDS and	4R3	4	0	3,840,191:04:0	
3245	97	53	19:48:49.200	444UE443A4B	**7MODE**	**INT**	AACS INERTIAL MODE	4R3	4	0	3,840,203:06:0	
3246	97	53	21:14:59.866	488BC6B	6TMSED	NORM,FL6	Sci, Eng, and D/L Chan	4R3	4	0	3,840,288:27:0	
3247	97	53	21:56:04.533	125DC	NIMSINIT	GS	##### GROUP START INIT	4R3	4	0	3,840,328:84:0	
3248	**97**	**53**	**21:56:04.533**	**125DC4A**	**37IST**	**0,2,0,OFF,0,1,1**	**Gain State 4**	**4R3**	**4**	**0**	**3,840,328:84:0**	
3249	97	53	21:56:07.866	165FL4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,840,328:89:0	
3250	97	53	21:56:08.533	165FL4B	7SCAN	NORM,173.530998,	Check S/P Position	4R3	4	0	3,840,328:90:0	
3251	**97**	**53**	**21:56:13.200**	**E6CNCALLRT01-**		**-----START------**		**4R3**	**4**	**0**	**: :**	
3252	**97**	**53**	**21:57:05.200**	**125DC4B**	**37MB**	**1B,1B,0,0,0,0**	**Selects mirror (spatial) edit table**	**4R3**	**4**	**0**	**3,840,329:84:0**	
3253	97	53	21:57:05.200	125DC11A	NIMSINIT	GE	##### GROUP END INIT	4R3	4	0	3,840,329:84:0	
3254	**97**	**53**	**21:58:05.866**	**127DC4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**4R3**	**4**	**0**	**3,840,330:84:0**	
3255	97	53	21:58:05.866	127DC	NIMSTAB	GS	%%%%% GROUP START TAB	4R3	4	0	3,840,330:84:0	
3256	**97**	**53**	**21:58:06.533**	**127DC4B**	**37ETB**	**04,C4,35,FF,FF**	**Loads wavelength edit table**	**4R3**	**4**	**0**	**3,840,330:85:0**	
3257	97	53	21:58:14.533	127DC11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	3,840,331:06:0	
3258	**97**	**53**	**21:58:30.533**	**432EW6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**	**NIMS R/T SELECT**	**4R3**	**4**	**0**	**3,840,331:30:0**	
3259	97	53	21:59:01.866	117FL	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	3,840,331:77:0	
3260	97	53	21:59:11.200	117FL105A106A4A	**7STRP**	**-0.0071,0.0,0,0,**	**Slew =,0.04**	4R3	4	0	3,840,332:00:0	
3261	**97**	**53**	**22:01:31.200**	**432EX6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**4R3**	**4**	**0**	**3,840,334:28:0**	
3262	**97**	**53**	**22:02:08.533**	**125DD4A**	**37MB**	**0,0,0,0,0,0**	**Selects mirror (spatial) edit table**	**4R3**	**4**	**0**	**3,840,334:84:0**	
3263	97	53	22:02:08.533	125DD11A	NIMSINIT	GE	##### GROUP END INIT	4R3	4	0	3,840,334:84:0	
3264	97	53	22:02:08.533	125DD	NIMSINIT	GS	##### GROUP START INIT	4R3	4	0	3,840,334:84:0	
3265	97	53	22:02:13.200	117FL11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	3,840,335:00:0	
3266	**97**	**53**	**22:02:17.200**	**E6CNCALLRT01-**		**-----STOP-------**		**4R3**	**4**	**0**	**: :**	
3267	97	53	22:04:13.200	165FE4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,840,336:89:0	
3268	97	53	22:04:13.866	165FE4B	7SCAN	NORM,172.922998,	Check S/P Position	4R3	4	0	3,840,336:90:0	
3269	**97**	**53**	**22:04:18.533**	**E6CNGLOBAL01-**		**-----START------**		**4R3**	**4**	**0**	**: :**	
3270	97	53	22:06:11.200	125FE11A	NIMSINIT	GE	##### GROUP END INIT	4R3	4	0	3,840,338:84:0	
3271	**97**	**53**	**22:06:11.200**	**125FE4A**	**37IST**	**0,2,0,OFF,0,1,1**	**Gain State 4**	**4R3**	**4**	**0**	**3,840,338:84:0**	
3272	97	53	22:06:11.200	125FE	NIMSINIT	GS	##### GROUP START INIT	4R3	4	0	3,840,338:84:0	
3273	97	53	22:07:11.866	127FE	NIMSTAB	GS	%%%%% GROUP START TAB	4R3	4	0	3,840,339:84:0	
3274	**97**	**53**	**22:07:11.866**	**127FE4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**4R3**	**4**	**0**	**3,840,339:84:0**	
3275	**97**	**53**	**22:07:12.533**	**127FE4B**	**37ETB**	**04,C4,35,FF,FF**	**Loads wavelength edit table**	**4R3**	**4**	**0**	**3,840,339:85:0**	
3276	97	53	22:07:20.533	127FE11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	3,840,340:06:0	
3277	97	53	22:08:01.866	175FE422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	4R3	4	0	3,840,340:68:0	
3278	97	53	22:08:01.866		DMS:	: *US-RUNUP	R28, TRACK 4, REV, TIC 1538.57 +/- 2	4R3	4	0	3,840,340:68:0	
3279	97	53	22:08:07.866	117FE	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	3,840,340:77:0	
3280	97	53	22:08:13.733		DMS:	**: *RECORD**	R28, TRACK 4, REV, TIC *1538.48 +/- 2	4R3	4	0	3,840,340:85:8	
3281	97	53	22:08:13.866	175FE176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	4R3	4	0	3,840,340:86:0	
3282	97	53	22:08:17.200	117FE105A106A4A	**7STRP**	**-0.0096,0.0,0,0,**	**Slew =,0.04**	4R3	4	0	3,840,341:00:0	
3283	**97**	**53**	**22:08:17.327**	**E6CNGLOBAL01-**	**NIMPBK**	**301FU**	**CALLISTO GLOBAL OBSERVATION**	**4R3**	**4**	**0**	**: :**	
3284	**97**	**53**	**22:10:19.994**	**E6CNGLOBAL01-**	**DESELC**	**300FU**	**CALLISTO GLOBAL OBSERVATION**	**4R3**	**4**	**0**	**: :**	
3285	97	53	22:12:19.866	117FE105A106A4B	**7STRP**	**0.008,-0.009501,**	**Slew =12.01**	4R3	4	0	3,840,345:00:0	
3286	97	53	22:12:29.866	117FE105A106A4C	**7STRP**	**-0.0096,0.0,0,0,**	**Slew =,0.04**	4R3	4	0	3,840,345:15:0	
3287	97	53	22:16:32.533	117FE11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	3,840,349:15:0	
3288	97	53	22:16:37.866	175FE422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,840,349:23:0	
3289	97	53	22:16:37.866		DMS:	**: *RUNDOWN**	R28, TRACK 4, REV, TIC *1095.39 +/- 2	4R3	4	0	3,840,349:23:0	
3290	**97**	**53**	**22:17:27.200**	**E6CNGLOBAL01-**		**-----STOP-------**		**4R3**	**4**	**0**	**: :**	
3291	97	53	22:18:22.533	165HD4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,840,350:89:0	
3292	97	53	22:18:23.200	165HD4B	7SCAN	NORM,172.712999,	Check S/P Position	4R3	4	0	3,840,350:90:0	
3293	97	53	22:22:17.200	117HD	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	3,840,354:77:0	
3294	97	53	22:22:26.533	117HD105A106A4A	7STRP	-0.017002,0.0,0,	Slew =,0.21	4R3	4	0	3,840,355:00:0	
3295	97	53	22:22:26.533	176HD6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	4R3	4	0	3,840,355:00:0	
3296	97	53	22:23:50.533	117HD105A106A4B	7STRP	0.014901,-0.001,	Slew =12.01	4R3	4	0	3,840,356:35:0	
3297	97	53	22:23:55.866	117HD105A106A4C	7STRP	-0.017002,0.0,0,	Slew =,0.21	4R3	4	0	3,840,356:43:0	
3298	97	53	22:25:19.866	117HD105A106A4D	7STRP	0.014901,-0.001,	Slew =12.01	4R3	4	0	3,840,357:78:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
3299	97	53	22:25:25.200	117HD105A106A4E	7STRP	-0.017002,0.0,0,	Slew =,0.21	4R3	4	0	3,840,357:86:0
3300	**97**	**53**	**22:26:33.200**	**E6NCHOPOFF01-**		**-----START------**		**4R3**	**4**	**0**	**: :**
3301	97	53	22:26:49.200	117HD105A106A4F	7STRP	0.014901,-0.001,	Slew =12.01	4R3	4	0	3,840,359:30:0
3302	97	53	22:26:54.533	117HD105A106A4G	7STRP	-0.017002,0.0,0,	Slew =,0.21	4R3	4	0	3,840,359:38:0
3303	**97**	**53**	**22:27:25.200**	**127FJ4A**	**37IOP**	**0,0**	**Safe, Grating Start Position =00**	**4R0**	**4**	**0**	**3,840,359:84:0**
3304	97	53	22:27:25.200	127FJ	NIMSTAB	GS	%%%%% GROUP START TAB	4R0	4	0	3,840,359:84:0
3305	**97**	**53**	**22:27:25.866**	**127FJ4B**	**37ETB**	**04,C4,02,00,00**	**Loads wavelength edit table**	**4R0**	**4**	**0**	**3,840,359:85:0**
3306	97	53	22:27:33.866	127FJ11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R0	4	0	3,840,360:06:0
3307	97	53	22:28:18.533	117HD105A106A4H	7STRP	0.014901,-0.001,	Slew =12.01	4R0	4	0	3,840,360:73:0
3308	97	53	22:28:23.866	117HD105A106A4I	7STRP	-0.017002,0.0,0,	Slew =,0.21	4R0	4	0	3,840,360:81:0
3309	97	53	22:29:47.866	117HD105A106A4J	7STRP	0.014901,-0.001,	Slew =12.01	4R0	4	0	3,840,362:25:0
3310	97	53	22:29:53.200	117HD105A106A4K	7STRP	-0.017002,0.0,0,	Slew =,0.21	4R0	4	0	3,840,362:33:0
3311	97	53	22:30:27.200	125FJ	NIMSINIT	GS	##### GROUP START INIT	4R0	4	0	3,840,362:84:0
3312	**97**	**53**	**22:30:27.200**	**125FJ4A**	**37MB**	**0,0,0,0,0,0**	**Selects mirror (spatial) edit table**	**4R0**	**4**	**0**	**3,840,362:84:0**
3313	97	53	22:31:17.200	117HD105A106A4L	7STRP	0.014901,-0.001,	Slew =12.01	4R0	4	0	3,840,363:68:0
3314	97	53	22:31:22.533	117HD105A106A4M	7STRP	-0.017002,0.0,0,	Slew =,0.21	4R0	4	0	3,840,363:76:0
3315	**97**	**53**	**22:31:27.866**	**125FJ4B**	**37IST**	**1,0,0,OFF,0,0,0**	**Chopper ON, Sync, 63Hz (Ref)**	**460**	**4**	**0**	**3,840,363:84:0**
3316	97	53	22:32:28.533	125FJ11A	NIMSINIT	GE	##### GROUP END INIT	460	4	0	3,840,364:84:0
3317	**97**	**53**	**22:32:28.533**	**125FJ4C**	**37IST**	**1,1,0,OFF,0,0,0**	**Chopper OFF, N/A, 63Hz (Ref)**	**4O0**	**4**	**0**	**3,840,364:84:0**
3318	97	53	22:32:46.533	117HD105A106A4N	7STRP	0.014901,-0.001,	Slew =12.01	4O0	4	0	3,840,365:20:0
3319	97	53	22:32:51.866	117HD105A106A4O	7STRP	-0.017002,0.0,0,	Slew =,0.21	4O0	4	0	3,840,365:28:0
3320	97	53	22:34:15.866	117HD105A106A4P	7STRP	0.014901,-0.001,	Slew =12.01	4O0	4	0	3,840,366:63:0
3321	97	53	22:34:21.200	117HD105A106A4Q	7STRP	-0.017002,0.0,0,	Slew =,0.21	4O0	4	0	3,840,366:71:0
3322	97	53	22:35:01.866		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 1095.09 +/- 2	4O0	4	0	3,840,367:41:0
3323	97	53	22:35:26.533		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *1092.78 +/- 2	4O0	4	0	3,840,367:78:0
3324	97	53	22:35:45.200	117HD105A106A4R	7STRP	0.014901,-0.001,	Slew =12.01	4O0	4	0	3,840,368:15:0
3325	97	53	22:35:46.533		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *1088.09 +/- 2	4O0	4	0	3,840,368:17:0
3326	97	53	22:35:50.533	117HD105A106A4S	7STRP	-0.017002,0.0,0,	Slew =,0.21	4O0	4	0	3,840,368:23:0
3327	**97**	**53**	**22:36:39.866**	**E6NCHOPOFF01-**		**-----STOP-------**		**4O0**	**4**	**0**	**: :**
3328	97	53	22:37:14.533	117HD105A106A4T	7STRP	0.014901,-0.001,	Slew =12.01	4O0	4	0	3,840,369:58:0
3329	97	53	22:37:19.866	117HD105A106A4U	7STRP	-0.017002,0.0,0,	Slew =,0.21	4O0	4	0	3,840,369:66:0
3330	97	53	22:38:43.866	117HD105A106A4V	7STRP	0.014901,-0.001,	Slew =12.01	4O0	4	0	3,840,371:10:0
3331	97	53	22:38:49.200	117HD105A106A4W	7STRP	-0.017002,0.0,0,	Slew =,0.21	4O0	4	0	3,840,371:18:0
3332	97	53	22:40:13.200	117HD105A106A4X	7STRP	0.014901,-0.001,	Slew =12.01	4O0	4	0	3,840,372:53:0
3333	97	53	22:40:18.533	117HD105A106A4Y	7STRP	-0.017002,0.0,0,	Slew =,0.21	4O0	4	0	3,840,372:61:0
3334	97	53	22:41:42.533	117HD105A106A4Z	7STRP	0.014901,-0.001,	Slew =12.01	4O0	4	0	3,840,374:05:0
3335	97	53	22:41:47.866	117HD105A106A4AA	7STRP	-0.017002,0.0,0,	Slew =,0.21	4O0	4	0	3,840,374:13:0
3336	97	53	22:43:11.866	117HD105A106A4AB	7STRP	0.014901,-0.001,	Slew =12.01	4O0	4	0	3,840,375:48:0
3337	97	53	22:43:17.200	117HD105A106A4AC	7STRP	-0.017002,0.0,0,	Slew =,0.21	4O0	4	0	3,840,375:56:0
3338	97	53	22:44:41.200	117HD105A106A4AD	7STRP	0.014901,-0.001,	Slew =12.01	4O0	4	0	3,840,377:00:0
3339	97	53	22:44:46.533	117HD105A106A4AE	7STRP	-0.017002,0.0,0,	Slew =,0.21	4O0	4	0	3,840,377:08:0
3340	97	53	22:46:10.533	117HD105A106A4AF	7STRP	0.014901,-0.001,	Slew =12.01	4O0	4	0	3,840,378:43:0
3341	97	53	22:46:15.866	117HD105A106A4AG	7STRP	-0.017002,0.0,0,	Slew =,0.21	4O0	4	0	3,840,378:51:0
3342	97	53	22:47:39.866	117HD105A106A4AH	7STRP	0.014901,-0.001,	Slew =12.01	4O0	4	0	3,840,379:86:0
3343	97	53	22:47:45.200	117HD105A106A4AI	7STRP	-0.017002,0.0,0,	Slew =,0.21	4O0	4	0	3,840,380:03:0
3344	97	53	22:48:03.866		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 1088.03 +/- 2	4O0	4	0	3,840,380:31:0
3345	97	53	22:48:28.533		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *1085.72 +/- 2	4O0	4	0	3,840,380:68:0
3346	97	53	22:48:48.533		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *1081.03 +/- 2	4O0	4	0	3,840,381:07:0
3347	97	53	22:49:09.200	117HD105A106A4AJ	7STRP	0.014901,-0.001,	Slew =12.01	4O0	4	0	3,840,381:38:0
3348	97	53	22:49:14.533	117HD105A106A4AK	7STRP	-0.017002,0.0,0,	Slew =,0.21	4O0	4	0	3,840,381:46:0
3349	97	53	22:50:38.533	117HD105A106A4AL	7STRP	0.014901,-0.001,	Slew =12.01	4O0	4	0	3,840,382:81:0
3350	97	53	22:50:43.866	117HD105A106A4AM	7STRP	-0.017002,0.0,0,	Slew =,0.21	4O0	4	0	3,840,382:89:0
3351	97	53	22:52:07.866	117HD11A	**CSMOS**	GE	***** GROUP END CSMOS	4O0	4	0	3,840,384:33:0
3352	97	53	23:01:05.866		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 1080.97 +/- 2	4O0	4	0	3,840,393:21:0
3353	97	53	23:01:30.533		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *1078.65 +/- 2	4O0	4	0	3,840,393:58:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
3354	97	53	23:01:50.533		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *1073.97 +/- 2	4O0	4	0	3,840,393:88:0	
3355	97	53	23:14:08.533		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 1073.91 +/- 2	4O0	4	0	3,840,406:12:0	
3356	97	53	23:14:32.533		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *1071.75 +/- 2	4O0	4	0	3,840,406:48:0	
3357	97	53	23:14:52.533		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *1067.06 +/- 2	4O0	4	0	3,840,406:78:0	
3358	97	53	23:27:10.533		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 1067.00 +/- 2	4O0	4	0	3,840,419:02:0	
3359	97	53	23:27:35.200		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *1064.68 +/- 2	4O0	4	0	3,840,419:39:0	
3360	97	53	23:27:55.200		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *1060.00 +/- 2	4O0	4	0	3,840,419:69:0	
3361	97	53	23:32:50.533	176HD6B	6TMREC	**NRC**	NO RECORD Record Mode Change	4O0	4	0	3,840,424:57:0	
3362	97	53	23:32:52.533		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 1059.94 +/- 2	4O0	4	0	3,840,424:60:0	
3363	97	53	23:33:02.533		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *1061.06 +/- 2	4O0	4	0	3,840,424:75:0	
3364	97	53	23:33:14.533		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *1058.25 +/- 2	4O0	4	0	3,840,425:02:0	
3365	97	54	00:53:04.533	165HE4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4O0	4	0	3,840,503:89:0	
3366	97	54	00:53:05.200	165HE4B	7SCAN	NORM,160.161999,	Check S/P Position	4O0	4	0	3,840,503:90:0	
3367	97	54	00:56:59.200	117HE	**CSMOS**	GS	***** GROUP START CSMOS	4O0	4	0	3,840,507:77:0	
3368	97	54	00:57:08.533	176HE6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	4O0	4	0	3,840,508:00:0	
3369	97	54	00:57:08.533	117HE105A106A4A	7STRP	0.0,0.006,0,0,0,	Slew =,0.61	4O0	4	0	3,840,508:00:0	
3370	97	54	00:57:30.533	117HE11A	**CSMOS**	GE	***** GROUP END CSMOS	4O0	4	0	3,840,508:33:0	
3371	97	54	00:57:41.866	176HE6B	6TMREC	**NRC**	NO RECORD Record Mode Change	4O0	4	0	3,840,508:50:0	
3372	97	54	00:57:43.866		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 1058.19 +/- 2	4O0	4	0	3,840,508:53:0	
3373	97	54	00:57:53.866		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *1059.31 +/- 2	4O0	4	0	3,840,508:68:0	
3374	97	54	00:58:01.200		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *1057.59 +/- 2	4O0	4	0	3,840,508:79:0	
3375	97	54	01:08:22.533	20KB4A	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	4O0	4	0	3,840,519:10:0	
3376	97	54	01:29:59.866		DMS:	: READY	RDY, TRACK 4, REV, TIC 1057.53 +/- 2	4O0	4	0	3,840,540:45:0	
3377	**97**	**54**	**01:30:00.000**	**20A3FB**	**37F2PR**	**Final Condition**	**Shield Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,840,540:45:2**	
3378	**97**	**54**	**01:30:00.000**	**20A3FD**	**40HRPR**	**Final Condition**	**RCT Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,840,540:45:2**	
3379	**97**	**54**	**01:30:00.000**	**20A3FE**	**40T1PR**	**Final Condition**	**PCT Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**3,840,540:45:2**	
3380	**97**	**54**	**01:30:00.000**	**20A3FF**	**40T2R**	**Final Condition**	**PCT Heater 2 OFF**	**4O0**	**4**	**0**	**3,840,540:45:2**	
3381	**97**	**54**	**01:30:00.000**	**20A3FA**	**37F1PR**	**Final Condition**	**Radiator Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,840,540:45:2**	
3382	**97**	**54**	**01:30:00.000**	**20A3EZ**	**37C2PR**	**Final Condition**	**Optics Heater 2 OFF (primary relay)**	**4O0**	**4**	**0**	**3,840,540:45:2**	
3383	**97**	**54**	**01:30:00.000**	**20A3EY**	**37C1PR**	**Final Condition**	**Optics Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**3,840,540:45:2**	
3384	**97**	**54**	**01:30:00.000**	**20A3EX**	**37HR**	**Final Condition**	**Replacement Heaters OFF**	**4O0**	**4**	**0**	**3,840,540:45:2**	
3385	**97**	**54**	**01:30:00.000**	**20A3EW**	**37A**	**Final Condition**	**NIMS Power ON**	**4O0**	**4**	**0**	**3,840,540:45:2**	

			Sequence:	E06B-AR		Created: 3/14/97	Begin: 97-045/01:30:00 Finish: 97-066/16:00:00				
Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
1	97	54	01:29:59.866		DMS:	: READY	RDY, TRACK 4, REV, TIC 1020.00 +/- 2	4O0	4	0	3,840,540:45:0
2	**97**	**54**	**01:30:00.000**	**20A3FB**	**37F2PR**	**Initial Condition**	**Shield Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,840,540:45:2**
3	**97**	**54**	**01:30:00.000**	**20A3EW**	**37A**	**Initial Condition**	**NIMS Power ON**	**4O0**	**4**	**0**	**3,840,540:45:2**
4	**97**	**54**	**01:30:00.000**	**20A3EY**	**37C1PR**	**Initial Condition**	**Optics Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**3,840,540:45:2**
5	**97**	**54**	**01:30:00.000**	**20A3FD**	**40HRPR**	**Initial Condition**	**RCT Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,840,540:45:2**
6	**97**	**54**	**01:30:00.000**	**20A3FE**	**40T1PR**	**Initial Condition**	**PCT Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**3,840,540:45:2**
7	**97**	**54**	**01:30:00.000**	**20A3FF**	**40T2R**	**Initial Condition**	**PCT Heater 2 OFF**	**4O0**	**4**	**0**	**3,840,540:45:2**
8	**97**	**54**	**01:30:00.000**	**20A3EZ**	**37C2PR**	**Initial Condition**	**Optics Heater 2 OFF (primary relay)**	**4O0**	**4**	**0**	**3,840,540:45:2**
9	**97**	**54**	**01:30:00.000**	**20A3EX**	**37HR**	**Initial Condition**	**Replacement Heaters OFF**	**4O0**	**4**	**0**	**3,840,540:45:2**
10	**97**	**54**	**01:30:00.000**	**20A3FA**	**37F1PR**	**Initial Condition**	**Radiator Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,840,540:45:2**
11	97	54	01:31:25.866	488AA6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	3,840,541:83:0
12	97	54	01:31:30.533	432JD431A6A	6RCDSL	DDSNCG,PLSDSL,EP	Record Deselect (DDS o	4O0	4	0	3,840,541:90:0
13	97	54	01:31:31.200	432JD6B	6RTSL1		R/T Select of DDS and	4O0	4	0	3,840,542:00:0
14	**97**	**54**	**01:31:31.200**	**432JD6C**	**6RTSL2**	**NIMNCG,AACSEL,RT**	**AACS SELECT**	**4O0**	**4**	**0**	**3,840,542:00:0**
15	97	54	01:31:58.533	418JT6A	6BUFLO	2	MUB Buffer low water m	4O0	4	0	3,840,542:41:0
16	97	54	01:31:58.533	418JT6B	6BUFHI	10	MUB Buffer high water	4O0	4	0	3,840,542:41:0
17	97	54	01:31:59.866	444UA443A4A	**7MODE**	**CRU**	AACS CRUISE MODE	4O0	4	0	3,840,542:43:0
18	97	54	01:37:39.200	41BG99A	**POWER**	**PWR MODE change**	Change to Calib/Decon Mode	4O0	4	0	3,840,548:06:0
19	**97**	**54**	**01:37:43.200**	**41BG3G**	**37F2PR**	**1**	**Shield Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,840,548:12:0**
20	**97**	**54**	**01:37:53.200**	**41BG3H**	**37F2PR**	**2**	**Shield Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,840,548:27:0**
21	**97**	**54**	**01:38:03.200**	**41BG3I**	**40T1PR**	**1**	**PCT Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**3,840,548:42:0**
22	**97**	**54**	**01:38:13.200**	**41BG3J**	**40T1PR**	**2**	**PCT Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**3,840,548:57:0**
23	**97**	**54**	**01:38:23.200**	**41BG3K**	**40T2R**	**1**	**PCT Heater 2 OFF**	**4O0**	**4**	**0**	**3,840,548:72:0**
24	**97**	**54**	**01:38:33.200**	**41BG3L**	**40T2R**	**2**	**PCT Heater 2 OFF**	**4O0**	**4**	**0**	**3,840,548:87:0**
25	97	54	01:49:33.200	175ZQ422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4O0	4	0	3,840,559:76:0
26	97	54	01:49:41.066		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC *1021.41 +/- 2	4O0	4	0	3,840,559:87:8
27	97	54	01:49:42.466		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *1021.29 +/- 2	4O0	4	0	3,840,559:89:9
28	97	54	01:49:42.466		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC 1021.29 +/- 2	4O0	4	0	3,840,559:89:9
29	97	54	01:49:42.533	175ZQ176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	4O0	4	0	3,840,559:90:0
30	97	54	01:49:59.866	481UA4A	7VECT		Inert vect update UTC	4O0	4	0	3,840,560:25:0
31	97	54	01:54:49.866		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC * 949.25 +/- 2	4O0	4	0	3,840,565:05:0
32	97	54	01:54:49.866	175ZQ422A6B	6DMSC	RDY,0	DMS Control Tape stop	4O0	4	0	3,840,565:05:0
33	97	54	01:58:39.200	41BF99A	**POWER**	**PWR MODE change**	Change to Maneuver Mode	4O0	4	0	3,840,568:76:0
34	**97**	**54**	**01:58:43.200**	**41BF3K**	**37F2PR**	**1**	**Shield Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,840,568:82:0**
35	**97**	**54**	**01:58:53.200**	**41BF3L**	**37F2PR**	**2**	**Shield Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,840,569:06:0**
36	**97**	**54**	**02:01:03.200**	**41BF3G**	**40T1P**	**1**	**PCT Heater 1 ON (primary relay)**	**4O0**	**4**	**0**	**3,840,571:19:0**
37	**97**	**54**	**02:01:13.200**	**41BF3H**	**40T1P**	**2**	**PCT Heater 1 ON (primary relay)**	**4O0**	**4**	**0**	**3,840,571:34:0**
38	**97**	**54**	**02:01:23.200**	**41BF3I**	**40T2**	**1**	**PCT Heater 2 ON**	**4O0**	**4**	**0**	**3,840,571:49:0**
39	**97**	**54**	**02:01:33.200**	**41BF3J**	**40T2**	**2**	**PCT Heater 2 ON**	**4O0**	**4**	**0**	**3,840,571:64:0**
40	97	54	02:09:03.866	20UA4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	4O0	4	0	3,840,579:12:0
41	97	54	02:09:53.866	20UA4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	3,840,579:87:0
42	97	54	02:10:57.200	176ZA6A	6TMREC	**IPB**	INITIATE PLAYBACK (PB CONTROL) Record Mod	4O0	4	0	3,840,581:00:0
43	97	54	02:49:59.866	418JB6A	6BUFLO	2	MUB Buffer low water m	4O0	4	0	3,840,619:56:0
44	97	54	02:49:59.866	418JB6B	6BUFHI	4	MUB Buffer high water	4O0	4	0	3,840,619:56:0
45	**97**	**54**	**03:10:41.267**	**E6NNSHDOFF01-**		**-----START------**		**4O0**	**4**	**0**	**: :**
46	97	54	03:58:37.866	488AA6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	3,840,687:45:0
47	97	54	04:24:13.866	488AA6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,840,712:74:0
48	97	54	05:25:41.200	488AA6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,840,773:54:0
49	97	54	05:32:29.866	488AB6A	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,840,780:30:0
50	97	54	06:25:50.533	488AB6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,840,833:08:0
51	97	54	07:43:12.533	488AB6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,840,909:55:0
52	97	54	08:14:59.866	418JC6A	6BUFLO	2	MUB Buffer low water m	4O0	4	0	3,840,941:04:0
53	97	54	08:14:59.866	418JC6B	6BUFHI	10	MUB Buffer high water	4O0	4	0	3,840,941:04:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
54	97	54	08:16:45.866	488AB6D	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,840,942:72:0	
55	97	54	08:25:29.200	488AB6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,840,951:38:0	
56	97	54	11:47:57.800	488AC6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,841,151:61:0	
57	97	54	12:47:22.466	488AC6B	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,841,210:39:0	
58	97	54	14:21:33.800	488AC6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,841,303:53:0	
59	97	54	14:27:35.133	488AC6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,841,309:49:0	
60	97	54	14:29:25.800	488AC6E	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,841,311:33:0	
61	97	54	15:28:59.800	488AD6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,841,370:25:0	
62	97	54	15:34:25.800	488AD6B	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,841,375:59:0	
63	97	54	16:33:59.800	488AD6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,841,434:51:0	
64	97	54	17:57:01.800	488AD6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	3,841,516:62:0	
65	97	54	19:41:33.800	488AD6E	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	3,841,620:06:0	
66	97	54	21:17:33.800	488AE6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	3,841,715:01:0	
67	97	54	22:55:39.800	488AE6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	3,841,812:03:0	
68	97	54	23:10:53.800	488AE6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	3,841,827:09:0	
69	97	55	00:57:58.466	176ZB6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	4O0	4	0	3,841,933:00:0	
70	97	55	01:01:19.800	20SM4B	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	4O0	4	0	3,841,936:29:0	
71	97	55	01:20:19.800	20SM4D	**7MODE**	**INT**	AACS INERTIAL MODE	4O0	4	0	3,841,955:10:0	
72	97	55	03:45:00.466	488AF6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	3,842,098:18:0	
73	97	55	03:47:57.800	488AF6B	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,842,101:11:0	
74	97	55	04:01:03.800	20Z6A	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,842,114:07:0	
75	**97**	**55**	**04:47:59.800**	**20Z6B**	**6RTDS2**	**NIMNCG,AACNCG,RT**	**R/T ENG DESLECT**	**4O0**	**4**	**0**	**3,842,160:45:0**	
76	97	55	04:48:59.800	20Z6C	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,842,161:44:0	
77	**97**	**55**	**06:30:59.800**	**20Z6D**	**6RTSL2**	**NIMNCG,AACNCG,RT**	**R/T ENG SELECT**	**4O0**	**4**	**0**	**3,842,262:33:0**	
78	97	55	06:31:59.800	20Z6E	6TMSED	NORM,AH1	Sci, Eng, and D/L Chan	4O0	4	0	3,842,263:32:0	
79	97	55	06:41:59.800	474AA416A4B	**7MODE**	**INT**	AACS INERTIAL MODE	4O0	4	0	3,842,273:22:0	
80	97	55	06:43:59.800	474AA416A4D	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	4O0	4	0	3,842,275:20:0	
81	97	55	06:48:13.800	474AA416A4E	7BURN	,213.9478,-17.99	ALERT -- Thruster fire	4O0	4	0	3,842,279:37:0	
82	97	55	08:13:43.133	474AA416A4I	7BURN	,213.9478,-17.99	ALERT -- Thruster fire	4O0	4	0	3,842,363:87:0	
83	97	55	09:39:11.800	474AA416A4O	7BURN	,213.9478,-17.99	ALERT -- Thruster fire	4O0	4	0	3,842,448:45:0	
84	97	55	11:05:01.800	474AA416A4V	**7MODE**	**CRU**	AACS CRUISE MODE	4O0	4	0	3,842,533:35:0	
85	97	55	11:07:59.800	20Z6F	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,842,536:29:0	
86	97	55	12:00:14.466	432JF431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	4O0	4	0	3,842,587:90:0	
87	97	55	12:00:15.133	432JF6A	6RTSL1		R/T Select of DDS and	4O0	4	0	3,842,588:00:0	
88	97	55	12:00:45.800	488AG6A	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,842,588:46:0	
89	97	55	12:00:59.800	444UB443A4A	**7MODE**	**CRU**	AACS CRUISE MODE	4O0	4	0	3,842,588:67:0	
90	97	55	12:07:14.466	488AG6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,842,594:83:0	
91	97	55	12:08:03.800	20UD4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	4O0	4	0	3,842,595:66:0	
92	97	55	12:08:53.800	20UD4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	3,842,596:50:0	
93	97	55	12:09:21.133	176ZH6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	3,842,597:00:0	
94	97	55	12:58:21.800	488AG6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,842,645:43:0	
95	97	55	14:17:17.800	488AG6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,842,723:49:0	
96	97	55	14:54:24.400	488AG6E	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,842,760:22:0	
97	97	55	15:52:52.400	41BB99A	**POWER**	**PWR MODE change**	Change to Calib/Decon Mode	4O0	4	0	3,842,818:06:0	
98	**97**	**55**	**15:52:56.400**	**41BB3G**	**37F2PR**	**1**	**Shield Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,842,818:12:0**	
99	**97**	**55**	**15:53:06.400**	**41BB3H**	**37F2PR**	**2**	**Shield Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,842,818:27:0**	
100	**97**	**55**	**15:53:16.400**	**41BB3I**	**40T1PR**	**1**	**PCT Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**3,842,818:42:0**	
101	**97**	**55**	**15:53:26.400**	**41BB3J**	**40T1PR**	**2**	**PCT Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**3,842,818:57:0**	
102	**97**	**55**	**15:53:36.400**	**41BB3K**	**40T2R**	**1**	**PCT Heater 2 OFF**	**4O0**	**4**	**0**	**3,842,818:72:0**	
103	**97**	**55**	**15:53:46.400**	**41BB3L**	**40T2R**	**2**	**PCT Heater 2 OFF**	**4O0**	**4**	**0**	**3,842,818:87:0**	
104	97	55	15:53:58.400	488AH6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,842,819:14:0	
105	97	55	16:03:55.733	176XU6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	4O0	4	0	3,842,829:00:0	
106	**97**	**55**	**16:05:01.267**	**E6NNSHDOFF01-**		**-----STOP-------**		**4O0**	**4**	**0**	: :	
107	**97**	**55**	**16:05:01.267**	**E6NNRCTRLT01-**		**-----START------**		**4O0**	**4**	**0**	: :	
108	97	55	16:07:01.733	20XE4A	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	4O0	4	0	3,842,832:06:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters		Description	GCM	GO	GS	RIM MF I
109	97	55	16:11:08.400	20UO4A	**7SAFE**	**STOP**		S/P NO MOVEMENT	4O0	4	0	3,842,836:12:0
110	97	55	16:11:58.400	20UO4B	7SLEW	DIS,POS,0.0		Stator movement	4O0	4	0	3,842,836:87:0
111	97	55	16:14:02.400	176XV6A	6TMREC	**RPB**		RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	3,842,839:00:0
112	**97**	**55**	**16:15:03.066**	**185XE10A3A**	**40HRP**		**1**	**RCT Heater ON (primary relay)**	**4O0**	**4**	**0**	**3,842,840:00:0**
113	**97**	**55**	**16:15:08.400**	**185XE10B3A**	**40HRP**		**2**	**RCT Heater ON (primary relay)**	**4O0**	**4**	**0**	**3,842,840:08:0**
114	97	55	17:57:01.733	488AH6B	6TMSED	NORM,AL6		Sci, Eng, and D/L Chan	4O0	4	0	3,842,940:78:0
115	97	55	18:19:52.400	488AH6C	6TMSED	FILL,AL6		Sci, Eng, and D/L Chan	4O0	4	0	3,842,963:41:0
116	97	55	18:33:21.066	488AH6D	6TMSED	NORM,AL6		Sci, Eng, and D/L Chan	4O0	4	0	3,842,976:71:0
117	97	55	19:37:17.733	488AH6E	6TMSED	NORM,AL7		Sci, Eng, and D/L Chan	4O0	4	0	3,843,040:02:0
118	97	55	21:17:33.733	488AI6A	6TMSED	NORM,AL6		Sci, Eng, and D/L Chan	4O0	4	0	3,843,139:17:0
119	97	55	22:55:37.733	488AI6B	6TMSED	FILL,AL6		Sci, Eng, and D/L Chan	4O0	4	0	3,843,236:16:0
120	97	55	23:18:42.400	488AI6C	6TMSED	NORM,AL6		Sci, Eng, and D/L Chan	4O0	4	0	3,843,259:00:0
121	97	56	01:29:59.733	418JD6A	6BUFLO		2	MUB Buffer low water m	4O0	4	0	3,843,388:77:0
122	97	56	01:29:59.733	418JD6B	6BUFHI		4	MUB Buffer high water	4O0	4	0	3,843,388:77:0
123	97	56	03:54:21.733	488AJ6A	6TMSED	NORM,AL5		Sci, Eng, and D/L Chan	4O0	4	0	3,843,531:57:0
124	97	56	04:09:49.733	125XE	NIMSINIT	GS		##### GROUP START INIT	4O0	4	0	3,843,546:84:0
125	**97**	**56**	**04:09:49.733**	**125XE4A**	**37IST**	**1,0,0,OFF,0,0,0**		**Chopper ON, Sync, 63Hz (Ref)**	**460**	**4**	**0**	**3,843,546:84:0**
126	**97**	**56**	**04:10:50.400**	**125XE4B**	**37IST**	**1,2,0,OFF,0,0,0**		**Chopper ON, Sync, Chopper (Ref)**	**4R0**	**4**	**0**	**3,843,547:84:0**
127	**97**	**56**	**04:11:51.066**	**125XE4C**	**37IST**	**0,2,0,OFF,0,1,3**		**Gain State 1**	**1R0**	**4**	**0**	**3,843,548:84:0**
128	97	56	04:12:51.733	125XE11A	NIMSINIT	GE		##### GROUP END INIT	1R0	4	0	3,843,549:84:0
129	**97**	**56**	**04:12:51.733**	**125XE4D**	**37MB**	**1B,1B,0,0,0,0**		**Selects mirror (spatial) edit table**	**1R0**	**4**	**0**	**3,843,549:84:0**
130	97	56	04:13:33.733	488AJ6B	6TMSED	NORM,AL4		Sci, Eng, and D/L Chan	1R0	4	0	3,843,550:56:0
131	97	56	04:14:53.066	127XE	NIMSTAB	GS		%%%%% GROUP START TAB	1R0	4	0	3,843,551:84:0
132	**97**	**56**	**04:14:53.066**	**127XE4A**	**37IOP**	**3,0**		**Long Map, Grating Start Position =00**	**1R3**	**4**	**0**	**3,843,551:84:0**
133	**97**	**56**	**04:14:53.733**	**127XE4B**	**37ETB**	**0A,CA,18,03,FF,1**		**Loads wavelength edit table**	**1R3**	**4**	**0**	**3,843,551:85:0**
134	97	56	04:15:01.733	127XE11A	NIMSTAB	GE		%%%%% GROUP END TAB	1R3	4	0	3,843,552:06:0
135	97	56	04:19:00.400	176XE6A	6TMREC	**PPB**		PAUSE PLAYBACK (PB CONTROL) Record Mode C	1R3	4	0	3,843,556:00:0
136	97	56	04:25:04.400	192XE4A	**7CONE**	**17.0,119.7**		Check S/P Position	1R3	4	0	3,843,562:00:0
137	**97**	**56**	**04:27:25.733**	**432XE6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**		**NIMS R/T SELECT**	**1R3**	**4**	**0**	**3,843,564:30:0**
138	**97**	**56**	**04:28:25.066**	**432XF6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**		**NIMS R/T DESELECT**	**1R3**	**4**	**0**	**3,843,565:28:0**
139	97	56	04:31:08.400	192XE4B	**7CONE**	**17.0,0.0**		Check S/P Position	1R3	4	0	3,843,568:00:0
140	**97**	**56**	**04:33:29.733**	**432XU6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**		**NIMS R/T SELECT**	**1R3**	**4**	**0**	**3,843,570:30:0**
141	**97**	**56**	**04:35:29.733**	**432XV6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**		**NIMS R/T DESELECT**	**1R3**	**4**	**0**	**3,843,572:28:0**
142	97	56	04:37:12.400	192XE4C	**7CONE**	**17.0,119.7**		Check S/P Position	1R3	4	0	3,843,574:00:0
143	**97**	**56**	**04:39:13.733**	**185XE10C3A**	**40HRPR**		**1**	**RCT Heater OFF (primary relay)**	**1R3**	**4**	**0**	**3,843,576:00:0**
144	**97**	**56**	**04:39:19.066**	**185XE10D3A**	**40HRPR**		**2**	**RCT Heater OFF (primary relay)**	**1R3**	**4**	**0**	**3,843,576:08:0**
145	**97**	**56**	**04:39:33.733**	**432XW6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**		**NIMS R/T SELECT**	**1R3**	**4**	**0**	**3,843,576:30:0**
146	**97**	**56**	**04:40:33.066**	**432XY6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**		**NIMS R/T DESELECT**	**1R3**	**4**	**0**	**3,843,577:28:0**
147	**97**	**56**	**04:42:20.599**	**E6NNRCTRLT01-**		**-----STOP-------**			**1R3**	**4**	**0**	**: :**
148	97	56	04:43:16.400	192XE4D	**7CONE**	**17.0,153.0**		Check S/P Position	1R3	4	0	3,843,580:00:0
149	97	56	04:44:12.400	127XF	NIMSTAB	GS		%%%%% GROUP START TAB	1R3	4	0	3,843,580:84:0
150	**97**	**56**	**04:44:12.400**	**127XF4A**	**37IOP**	**0,0**		**Safe, Grating Start Position =00**	**1R0**	**4**	**0**	**3,843,580:84:0**
151	**97**	**56**	**04:44:13.066**	**127XF4B**	**37ETB**	**04,C4,02,00,00**		**Loads wavelength edit table**	**1R0**	**4**	**0**	**3,843,580:85:0**
152	97	56	04:44:21.066	127XF11A	NIMSTAB	GE		%%%%% GROUP END TAB	1R0	4	0	3,843,581:06:0
153	**97**	**56**	**04:47:14.400**	**125XF4A**	**37MB**	**0,0,0,0,0,0**		**Selects mirror (spatial) edit table**	**1R0**	**4**	**0**	**3,843,583:84:0**
154	97	56	04:47:14.400	125XF	NIMSINIT	GS		##### GROUP START INIT	1R0	4	0	3,843,583:84:0
155	**97**	**56**	**04:48:15.066**	**125XF4B**	**37IST**	**1,0,0,OFF,0,0,0**		**Chopper ON, Sync, 63Hz (Ref)**	**160**	**4**	**0**	**3,843,584:84:0**
156	**97**	**56**	**04:49:15.733**	**125XF4C**	**37IST**	**1,1,0,OFF,0,0,0**		**Chopper OFF, N/A, 63Hz (Ref)**	**1O0**	**4**	**0**	**3,843,585:84:0**
157	97	56	04:49:15.733	125XF11A	NIMSINIT	GE		##### GROUP END INIT	1O0	4	0	3,843,585:84:0
158	97	56	04:55:28.400	41BK99A	**POWER**	**PWR MODE change**		Change to Maneuver Mode	1O0	4	0	3,843,592:06:0
159	**97**	**56**	**04:55:32.400**	**41BK3K**	**37F2PR**		**1**	**Shield Flash Heater OFF (primary relay)**	**1O0**	**4**	**0**	**3,843,592:12:0**
160	**97**	**56**	**04:55:42.400**	**41BK3L**	**37F2PR**		**2**	**Shield Flash Heater OFF (primary relay)**	**1O0**	**4**	**0**	**3,843,592:27:0**
161	**97**	**56**	**04:57:52.400**	**41BK3G**	**40T1P**		**1**	**PCT Heater 1 ON (primary relay)**	**1O0**	**4**	**0**	**3,843,594:40:0**
162	**97**	**56**	**04:58:02.400**	**41BK3H**	**40T1P**		**2**	**PCT Heater 1 ON (primary relay)**	**1O0**	**4**	**0**	**3,843,594:55:0**
163	**97**	**56**	**04:58:12.400**	**41BK3I**	**40T2**		**1**	**PCT Heater 2 ON**	**1O0**	**4**	**0**	**3,843,594:70:0**

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters		Description	GCM	GO	GS	RIM	MF I
164	**97**	**56**	**04:58:22.400**	**41BK3J**	**40T2**		**2**	**PCT Heater 2 ON**	**1O0**	**4**	**0**	**3,843,594:85:0**	
165	97	56	05:05:39.066	20UN4A	**7SAFE**	**STOP**		S/P NO MOVEMENT	1O0	4	0	3,843,602:12:0	
166	97	56	05:06:29.066	20UN4B	7SLEW	DIS,POS,0.0		Stator movement	1O0	4	0	3,843,602:87:0	
167	97	56	05:08:33.066	176XF6A	6TMREC	**RPB**		RESUME PLAYBACK (PB CONTROL) Record Mode	1O0	4	0	3,843,605:00:0	
168	97	56	05:21:04.400	488AJ6C	6TMSED	FILL,AL4		Sci, Eng, and D/L Chan	1O0	4	0	3,843,617:35:0	
169	97	56	05:28:13.733	488AJ6D	6TMSED	FILL,AL2		Sci, Eng, and D/L Chan	1O0	4	0	3,843,624:42:0	
170	97	56	06:10:53.733	488AJ6E	6TMSED	NORM,AL2		Sci, Eng, and D/L Chan	1O0	4	0	3,843,666:60:0	
171	97	56	06:40:45.733	488AK6A	6TMSED	NORM,AL3		Sci, Eng, and D/L Chan	1O0	4	0	3,843,696:18:0	
172	97	56	08:59:59.733	418JE6A	6BUFLO		2	MUB Buffer low water m	1O0	4	0	3,843,833:82:0	
173	97	56	08:59:59.733	418JE6B	6BUFHI		10	MUB Buffer high water	1O0	4	0	3,843,833:82:0	
174	97	56	09:20:45.733	488AK6B	6TMSED	NORM,AL4		Sci, Eng, and D/L Chan	1O0	4	0	3,843,854:40:0	
175	97	56	10:14:05.733	488AK6C	6TMSED	NORM,AL3		Sci, Eng, and D/L Chan	1O0	4	0	3,843,907:17:0	
176	97	56	12:58:21.733	488AL6A	6TMSED	NORM,AL2		Sci, Eng, and D/L Chan	1O0	4	0	3,844,069:59:0	
177	97	56	13:24:19.733	488AL6B	6TMSED	FILL,AL2		Sci, Eng, and D/L Chan	1O0	4	0	3,844,095:30:0	
178	97	56	13:45:17.733	488AL6C	6TMSED	FILL,AL3		Sci, Eng, and D/L Chan	1O0	4	0	3,844,116:06:0	
179	97	56	14:36:29.733	488AL6D	6TMSED	FILL,AL4		Sci, Eng, and D/L Chan	1O0	4	0	3,844,166:64:0	
180	97	56	15:23:55.733	488AL6E	6TMSED	NORM,AL4		Sci, Eng, and D/L Chan	1O0	4	0	3,844,213:56:0	
181	97	56	17:50:37.733	488AM6A	6TMSED	NORM,AL6		Sci, Eng, and D/L Chan	1O0	4	0	3,844,358:64:0	
182	97	56	19:30:53.733	488AM6B	6TMSED	NORM,AL7		Sci, Eng, and D/L Chan	1O0	4	0	3,844,457:79:0	
183	97	56	21:13:17.666	488AM6C	6TMSED	NORM,AL6		Sci, Eng, and D/L Chan	1O0	4	0	3,844,559:13:0	
184	**97**	**57**	**02:59:56.333**	**432JG6B**	**6RTDS2**	**NIMNCG,AACDSL,RT**		**AACS DESELECT**	**1O0**	**4**	**0**	**3,844,901:89:0**	
185	97	57	03:47:57.666	488AN6A	6TMSED	NORM,AL5		Sci, Eng, and D/L Chan	1O0	4	0	3,844,949:43:0	
186	97	57	04:09:17.666	488AN6B	6TMSED	NORM,AL4		Sci, Eng, and D/L Chan	1O0	4	0	3,844,970:52:0	
187	97	57	05:16:27.666	488AN6C	6TMSED	FILL,AL4		Sci, Eng, and D/L Chan	1O0	4	0	3,845,037:00:0	
188	97	57	05:23:57.666	488AN6D	6TMSED	FILL,AL2		Sci, Eng, and D/L Chan	1O0	4	0	3,845,044:38:0	
189	97	57	06:10:55.666	488AN6E	6TMSED	NORM,AL2		Sci, Eng, and D/L Chan	1O0	4	0	3,845,090:79:0	
190	97	57	06:36:29.666	488AO6A	6TMSED	NORM,AL3		Sci, Eng, and D/L Chan	1O0	4	0	3,845,116:14:0	
191	97	57	09:35:41.666	488AO6B	6TMSED	NORM,AL4		Sci, Eng, and D/L Chan	1O0	4	0	3,845,293:35:0	
192	97	57	09:52:45.666	488AO6C	6TMSED	NORM,AL3		Sci, Eng, and D/L Chan	1O0	4	0	3,845,310:24:0	
193	97	57	12:54:05.666	488AP6A	6TMSED	NORM,AL2		Sci, Eng, and D/L Chan	1O0	4	0	3,845,489:55:0	
194	97	57	12:57:33.000	488AP6B	6TMSED	FILL,AL2		Sci, Eng, and D/L Chan	1O0	4	0	3,845,493:02:0	
195	97	57	13:41:01.666	488AP6C	6TMSED	FILL,AL3		Sci, Eng, and D/L Chan	1O0	4	0	3,845,536:02:0	
196	97	57	14:32:13.666	488AP6D	6TMSED	FILL,AL4		Sci, Eng, and D/L Chan	1O0	4	0	3,845,586:60:0	
197	97	57	14:55:59.666	488AP6E	6TMSED	NORM,AL4		Sci, Eng, and D/L Chan	1O0	4	0	3,845,610:15:0	
198	97	57	16:58:27.666	488AQ6A	6TMSED	FILL,AL4		Sci, Eng, and D/L Chan	1O0	4	0	3,845,731:26:0	
199	97	57	17:50:37.666	488AQ6B	6TMSED	FILL,AL6		Sci, Eng, and D/L Chan	1O0	4	0	3,845,782:80:0	
200	97	57	19:30:53.666	488AQ6C	6TMSED	FILL,AL7		Sci, Eng, and D/L Chan	1O0	4	0	3,845,882:04:0	
201	97	57	21:09:01.666	488AQ6D	6TMSED	FILL,AL6		Sci, Eng, and D/L Chan	1O0	4	0	3,845,979:09:0	
202	97	58	03:47:57.600	488AR6A	6TMSED	FILL,AL5		Sci, Eng, and D/L Chan	1O0	4	0	3,846,373:59:0	
203	97	58	04:02:53.600	488AR6B	6TMSED	FILL,AL4		Sci, Eng, and D/L Chan	1O0	4	0	3,846,388:38:0	
204	97	58	05:17:33.600	488AR6C	6TMSED	FILL,AL2		Sci, Eng, and D/L Chan	1O0	4	0	3,846,462:24:0	
205	97	58	06:32:13.600	488AR6D	6TMSED	FILL,AL3		Sci, Eng, and D/L Chan	1O0	4	0	3,846,536:10:0	
206	97	58	09:20:45.600	488AR6E	6TMSED	FILL,AL4		Sci, Eng, and D/L Chan	1O0	4	0	3,846,702:72:0	
207	97	58	10:03:25.600	488AS6A	6TMSED	FILL,AL3		Sci, Eng, and D/L Chan	1O0	4	0	3,846,744:90:0	
208	97	58	11:37:28.933	488AS6B	6TMSED	NORM,AL3		Sci, Eng, and D/L Chan	1O0	4	0	3,846,838:01:0	
209	97	58	11:58:42.266	176BA6A	6TMREC	**PPB**		PAUSE PLAYBACK (PB CONTROL) Record Mode C	1O0	4	0	3,846,859:00:0	
210	97	58	12:01:42.933	165BM4A	7TMOT	DIS,TMC		Disable IVP - Target Motion	1O0	4	0	3,846,861:89:0	
211	97	58	12:01:43.600	165BM4B	7SCAN	NORM,305.304996,		Check S/P Position	1O0	4	0	3,846,861:90:0	
212	97	58	12:04:50.933	20UF4A	**7SAFE**	**STOP**		S/P NO MOVEMENT	1O0	4	0	3,846,865:07:0	
213	97	58	12:05:16.266	432BC6A	6RTSL1			R/T Select of DDS and	1O0	4	0	3,846,865:45:0	
214	97	58	12:05:40.933	20UF4B	7SLEW	DIS,POS,0.0		Stator movement	1O0	4	0	3,846,865:82:0	
215	97	58	12:07:48.266	176BB6A	6TMREC	**RPB**		RESUME PLAYBACK (PB CONTROL) Record Mode	1O0	4	0	3,846,868:00:0	
216	97	58	12:54:05.600	488AS6C	6TMSED	NORM,AL2		Sci, Eng, and D/L Chan	1O0	4	0	3,846,913:71:0	
217	97	58	13:26:05.600	488AS6D	6TMSED	NORM,AL3		Sci, Eng, and D/L Chan	1O0	4	0	3,846,945:39:0	
218	97	58	14:25:49.600	488AS6E	6TMSED	NORM,AL4		Sci, Eng, and D/L Chan	1O0	4	0	3,847,004:46:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
219	97	58	17:46:21.600	488AT6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,847,202:76:0	
220	97	58	19:26:37.600	488AT6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	3,847,302:00:0	
221	97	58	21:09:01.600	488AT6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,847,403:25:0	
222	97	59	03:43:41.600	488AU6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	3,847,793:55:0	
223	97	59	04:02:53.600	488AU6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,847,812:54:0	
224	97	59	05:10:48.266	488AU6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,847,879:69:0	
225	97	59	05:17:33.600	488AU6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,847,886:40:0	
226	97	59	06:11:01.600	488AU6E	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,847,939:29:0	
227	97	59	07:28:00.266	488AV6A	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,848,015:41:0	
228	97	59	07:59:41.600	488AV6B	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,848,046:72:0	
229	97	59	08:09:34.933	488AV6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,848,056:52:0	
230	97	59	11:28:45.533	488AV6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,848,253:51:0	
231	97	59	13:36:45.533	488AW6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,848,380:14:0	
232	97	59	14:21:33.533	488AW6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,848,424:42:0	
233	97	59	14:51:18.200	488AW6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,848,453:80:0	
234	97	59	15:39:57.533	488AW6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,848,502:00:0	
235	97	59	17:46:21.533	488AW6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,848,627:01:0	
236	97	59	19:26:37.533	488AX6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	3,848,726:16:0	
237	97	59	21:02:37.533	488AX6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,848,821:11:0	
238	97	60	03:39:25.533	488AY6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	3,849,213:51:0	
239	97	60	04:02:53.533	488AY6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,849,236:70:0	
240	97	60	05:06:12.200	488AY6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,849,299:35:0	
241	97	60	05:13:17.533	488AY6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,849,306:36:0	
242	97	60	06:01:04.866	488AY6E	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,849,353:60:0	
243	97	60	06:21:33.533	488AZ6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,849,373:83:0	
244	97	60	08:35:57.533	488AZ6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,849,506:76:0	
245	97	60	10:39:41.533	488AZ6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,849,629:19:0	
246	97	60	12:47:41.533	488BA6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,849,755:73:0	
247	97	60	13:32:29.533	488BA6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,849,800:10:0	
248	97	60	14:10:53.533	488BA6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,849,838:08:0	
249	97	60	17:42:05.466	488BA6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,850,046:88:0	
250	97	60	19:22:21.466	488BB6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	3,850,146:12:0	
251	97	60	21:04:45.466	488BB6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,850,247:37:0	
252	97	61	03:39:25.466	488BC6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	3,850,637:67:0	
253	97	61	04:02:53.466	488BC6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,850,660:86:0	
254	97	61	05:01:36.133	488BC6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,850,719:01:0	
255	97	61	05:09:01.466	488BC6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,850,726:32:0	
256	97	61	05:56:08.800	488BC6E	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,850,772:87:0	
257	97	61	06:17:17.466	488BD6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,850,793:79:0	
258	97	61	08:12:29.466	488BD6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,850,907:73:0	
259	97	61	10:54:37.466	488BD6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,851,068:14:0	
260	97	61	12:47:41.466	488BE6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,851,179:89:0	
261	97	61	13:26:05.466	488BE6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,851,217:87:0	
262	97	61	14:06:37.466	488BE6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,851,258:04:0	
263	97	61	17:35:41.466	488BE6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,851,464:74:0	
264	97	61	19:15:57.466	488BF6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	3,851,563:89:0	
265	97	61	20:58:21.400	488BF6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,851,665:23:0	
266	97	62	03:33:01.400	488BG6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	3,852,055:53:0	
267	97	62	04:09:17.400	488BG6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,852,091:41:0	
268	97	62	05:01:37.400	488BG6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,852,143:19:0	
269	97	62	05:09:01.400	488BG6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,852,150:48:0	
270	97	62	05:56:12.066	488BG6E	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,852,197:17:0	
271	97	62	06:10:53.400	488BH6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,852,211:65:0	
272	97	62	07:51:09.400	488BH6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,852,310:80:0	
273	97	62	11:09:33.400	488BH6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,852,507:09:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
274	97	62	12:49:49.400	488BI6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,852,606:24:0	
275	97	62	13:41:01.400	488BI6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,852,656:82:0	
276	97	62	14:34:02.733	488BI6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,852,709:31:0	
277	97	62	15:33:36.733	488BI6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,852,768:23:0	
278	97	62	17:35:41.400	488BI6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,852,888:90:0	
279	97	62	19:15:57.400	488BJ6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	3,852,988:14:0	
280	97	62	20:58:21.400	488BJ6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,853,089:39:0	
281	97	62	22:35:15.400	488BJ6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,853,185:24:0	
282	97	62	22:58:20.066	488BJ6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,853,208:08:0	
283	97	63	03:33:01.333	488BK6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	3,853,479:69:0	
284	97	63	04:09:17.333	488BK6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,853,515:57:0	
285	97	63	04:57:01.333	488BK6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,853,562:76:0	
286	97	63	05:04:45.333	488BK6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,853,570:44:0	
287	97	63	05:51:16.000	488BK6E	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,853,616:44:0	
288	97	63	07:06:21.333	488BL6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,853,690:68:0	
289	97	63	07:19:00.666	488BL6B	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,853,703:24:0	
290	97	63	07:50:27.333	488BL6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,853,734:33:0	
291	97	63	11:47:57.333	488BL6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,853,969:23:0	
292	97	63	13:36:45.333	488BM6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,854,076:78:0	
293	97	63	14:23:58.666	488BM6B	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,854,123:51:0	
294	97	63	15:28:32.666	488BM6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,854,187:38:0	
295	97	63	17:27:09.333	488BM6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,854,304:66:0	
296	97	63	19:15:57.333	488BM6E	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	3,854,412:30:0	
297	97	63	20:54:05.333	488BN6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,854,509:35:0	
298	97	63	22:30:11.333	488BN6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,854,604:39:0	
299	97	63	22:53:16.000	488BN6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,854,627:23:0	
300	97	64	03:28:45.333	488BO6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	3,854,899:65:0	
301	97	64	04:02:53.333	488BO6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,854,933:43:0	
302	97	64	04:57:13.333	488BO6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,854,987:19:0	
303	97	64	05:04:45.333	488BO6D	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,854,994:60:0	
304	97	64	05:15:25.333	488BO6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,855,005:19:0	
305	97	64	12:10:15.933	432BE6A	6RTSL1		R/T Select of DDS and	1O0	4	0	3,855,415:45:0	
306	97	64	17:31:01.266	488BP6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,855,732:66:0	
307	97	64	18:16:13.266	488BP6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	3,855,777:39:0	
308	97	64	19:15:57.266	488BP6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,855,836:46:0	
309	97	64	22:45:43.933	488BP6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,856,043:89:0	
310	97	64	22:49:17.266	488BP6E	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,856,047:45:0	
311	97	65	05:46:24.600	488BQ6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,856,460:03:0	
312	97	65	05:55:57.266	488BQ6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,856,469:43:0	
313	97	65	07:27:41.266	488BQ6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,856,560:18:0	
314	97	65	11:13:49.266	488BQ6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,856,783:77:0	
315	97	65	12:43:25.266	488BR6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,856,872:42:0	
316	97	65	13:26:05.266	488BR6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,856,914:60:0	
317	97	65	14:23:50.600	488BR6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,856,971:71:0	
318	97	65	15:23:24.533	488BR6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,857,030:63:0	
319	97	65	17:27:09.200	488BR6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,857,153:07:0	
320	97	65	19:07:25.200	488BS6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	3,857,252:22:0	
321	97	65	20:49:49.200	488BS6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,857,353:47:0	
322	97	65	22:25:03.866	488BS6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,857,447:65:0	
323	97	65	22:48:08.533	488BS6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,857,470:49:0	
324	97	66	03:18:05.200	488BT6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	3,857,737:47:0	
325	97	66	03:58:37.200	488BT6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,857,777:55:0	
326	97	66	04:51:25.866	488BT6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,857,829:76:0	
327	97	66	04:58:21.200	488BT6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,857,836:62:0	
328	97	66	05:41:28.533	488BT6E	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,857,879:30:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
329	97	66	06:51:25.200	488BU6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,857,948:46:0	
330	97	66	07:08:47.200	488BU6B	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,857,965:62:0	
331	97	66	07:40:13.866	488BU6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,857,996:71:0	
332	97	66	11:43:41.200	488BU6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,858,237:51:0	
333	97	66	13:02:37.200	488BV6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,858,315:57:0	
334	97	66	13:36:45.200	488BV6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,858,349:35:0	
335	97	66	14:30:51.200	488BV6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,858,402:81:0	
336	97	66	15:19:30.533	488BV6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,858,451:01:0	
337	97	66	15:55:53.866	176ZK6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	1O0	4	0	3,858,487:00:0	
338	97	66	15:59:59.866		DMS:	: READY	RDY, TRACK 4, REV, TIC 949.19 +/- 2	1O0	4	0	3,858,491:05:0	
339	**97**	**66**	**16:00:00.000**	**20A3EX**	**37HR**	**Final Condition**	**Replacement Heaters OFF**	**1O0**	**4**	**0**	**3,858,491:05:2**	
340	**97**	**66**	**16:00:00.000**	**20A3EY**	**37C1PR**	**Final Condition**	**Optics Heater 1 OFF (primary relay)**	**1O0**	**4**	**0**	**3,858,491:05:2**	
341	**97**	**66**	**16:00:00.000**	**20A3EZ**	**37C2PR**	**Final Condition**	**Optics Heater 2 OFF (primary relay)**	**1O0**	**4**	**0**	**3,858,491:05:2**	
342	**97**	**66**	**16:00:00.000**	**20A3FA**	**37F1PR**	**Final Condition**	**Radiator Flash Heater OFF (primary relay)**	**1O0**	**4**	**0**	**3,858,491:05:2**	
343	**97**	**66**	**16:00:00.000**	**20A3FB**	**37F2PR**	**Final Condition**	**Shield Flash Heater OFF (primary relay)**	**1O0**	**4**	**0**	**3,858,491:05:2**	
344	**97**	**66**	**16:00:00.000**	**20A3FD**	**40HRPR**	**Final Condition**	**RCT Heater OFF (primary relay)**	**1O0**	**4**	**0**	**3,858,491:05:2**	
345	**97**	**66**	**16:00:00.000**	**20A3FE**	**40T1P**	**Final Condition**	**PCT Heater 1 ON (primary relay)**	**1O0**	**4**	**0**	**3,858,491:05:2**	
346	**97**	**66**	**16:00:00.000**	**20A3FF**	**40T2**	**Final Condition**	**PCT Heater 2 ON**	**1O0**	**4**	**0**	**3,858,491:05:2**	
347	**97**	**66**	**16:00:00.000**	**20A3EW**	**37A**	**Final Condition**	**NIMS Power ON**	**1O0**	**4**	**0**	**3,858,491:05:2**	

			Sequence:	E06C-ARF		Created: 4/8/97	Begin: 97-066/16:00:00 Finish: 97-089/16:00:00				
Line	**YR**	**DOY**	**SCET - GMT**	**PSID**	**Command**	**Parameters**	**Description**	**GCM**	**GO**	**GS**	**RIM MF I**
1	97	66	15:59:59.866		DMS:	: READY	RDY, TRACK 4, REV, TIC 4247.00 +/-	1O0	4	0	3,858,491:05:0
2	**97**	**66**	**16:00:00.000**	**20A3EX**	**37HR**	**Initial Condition**	**Replacement Heaters OFF**	**1O0**	**4**	**0**	**3,858,491:05:2**
3	**97**	**66**	**16:00:00.000**	**20A3EZ**	**37C2PR**	**CMD,37C2PR,20A3E**	**Optics Heater 2 OFF (primary relay)**	**1O0**	**4**	**0**	**3,858,491:05:2**
4	**97**	**66**	**16:00:00.000**	**20A3FA**	**37F1PR**	**CMD,37F1PR,20A3F**	**Radiator Flash Heater OFF (primary relay)**	**1O0**	**4**	**0**	**3,858,491:05:2**
5	**97**	**66**	**16:00:00.000**	**20A3FB**	**37F2PR**	**CMD,37F2PR,20A3F**	**Shield Flash Heater OFF (primary relay)**	**1O0**	**4**	**0**	**3,858,491:05:2**
6	**97**	**66**	**16:00:00.000**	**20A3FD**	**40HRPR**	**CMD,40HRPR,20A3F**	**RCT Heater OFF (primary relay)**	**1O0**	**4**	**0**	**3,858,491:05:2**
7	**97**	**66**	**16:00:00.000**	**20A3FE**	**40T1P**	**CMD,40T1P,20A3FE**	**PCT Heater 1 ON (primary relay)**	**1O0**	**4**	**0**	**3,858,491:05:2**
8	**97**	**66**	**16:00:00.000**	**20A3FF**	**40T2**	**CMD,40T2,20A3FF,**	**PCT Heater 2 ON**	**1O0**	**4**	**0**	**3,858,491:05:2**
9	**97**	**66**	**16:00:00.000**	**20A3EW**	**37A**	**CMD,37A,20A3EW,,**	**NIMS Power ON**	**1O0**	**4**	**0**	**3,858,491:05:2**
10	**97**	**66**	**16:00:00.000**	**20A3EY**	**37C1PR**	**CMD,37C1PR,20A3E**	**Optics Heater 1 OFF (primary relay)**	**1O0**	**4**	**0**	**3,858,491:05:2**
11	97	66	16:01:49.200	488AA6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,858,492:78:0
12	97	66	16:01:57.866	488AA6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,858,493:00:0
13	97	66	16:01:59.866	488AA6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,858,493:03:0
14	97	66	16:01:59.866	418JF6A	6BUFLO	2	MUB Buffer low water m	1O0	4	0	3,858,493:03:0
15	97	66	16:01:59.866	418JF6B	6BUFHI	10	MUB Buffer high water	1O0	4	0	3,858,493:03:0
16	97	66	16:04:03.866	20UN4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	1O0	4	0	3,858,495:07:0
17	97	66	16:04:53.866	20UN4B	7SLEW	DIS,POS,0.0	Stator movement	1O0	4	0	3,858,495:82:0
18	97	66	16:04:59.866	176SA6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	1O0	4	0	3,858,496:00:0
19	97	66	17:19:18.533	432BM6A	6RTSL1		R/T Select of DDS and	1O0	4	0	3,858,569:45:0
20	97	66	17:27:09.200	488AA6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,858,577:23:0
21	97	66	19:07:25.200	488AA6E	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	3,858,676:38:0
22	97	66	20:49:49.200	488AB6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,858,777:63:0
23	97	67	03:18:05.133	488AC6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	3,859,161:63:0
24	97	67	03:58:37.133	488AC6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,859,201:71:0
25	97	67	04:47:16.466	488AC6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,859,249:82:0
26	97	67	04:54:05.133	488AC6D	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,859,256:58:0
27	97	67	06:02:33.800	488AC6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,859,324:33:0
28	97	67	07:17:01.133	488AD6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,859,398:00:0
29	97	67	11:13:49.133	488AD6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,859,632:18:0
30	97	67	12:01:36.466	488AD6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,859,679:42:0
31	97	67	12:19:57.133	488AD6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,859,697:55:0
32	97	67	12:47:41.133	488AD6E	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,859,725:03:0
33	97	67	13:20:40.466	488AE6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,859,757:60:0
34	97	67	13:32:29.133	488AE6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,859,769:31:0
35	97	67	17:22:53.133	488AE6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,859,997:19:0
36	97	67	19:01:01.133	488AE6D	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	3,860,094:24:0
37	97	67	20:43:25.133	488AF6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,860,195:49:0
38	97	68	03:13:49.133	488AG6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	3,860,581:59:0
39	97	68	03:54:21.066	488AG6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,860,621:67:0
40	97	68	04:42:14.400	488AG6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,860,669:09:0
41	97	68	04:49:49.066	488AG6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,860,676:54:0
42	97	68	05:36:37.733	488AG6E	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,860,722:81:0
43	97	68	05:47:25.066	488AH6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,860,733:51:0
44	97	68	07:12:45.066	488AH6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,860,817:87:0
45	97	68	11:09:33.066	488AH6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,861,052:14:0
46	97	68	12:34:53.066	488AI6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,861,136:50:0
47	97	68	12:51:57.066	488AI6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,861,153:39:0
48	97	68	13:32:29.066	488AI6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,861,193:47:0
49	97	68	17:22:53.066	488AI6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,861,421:35:0
50	97	68	18:56:45.066	488AJ6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	3,861,514:20:0
51	97	68	20:39:09.066	488AJ6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,861,615:45:0
52	97	69	03:13:49.066	488AK6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	3,862,005:75:0
53	97	69	03:54:21.066	488AK6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,862,045:83:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
54	97	69	04:36:34.400	488AK6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,862,087:61:0	
55	97	69	04:43:25.066	488AK6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,862,094:40:0	
56	97	69	05:31:43.066	488AK6E	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,862,142:19:0	
57	97	69	05:47:25.066	488AL6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,862,157:67:0	
58	97	69	07:12:45.066	488AL6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,862,242:12:0	
59	97	69	11:09:33.000	488AL6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,862,476:30:0	
60	97	69	12:34:53.000	488AM6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,862,560:66:0	
61	97	69	13:17:33.000	488AM6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,862,602:84:0	
62	97	69	14:13:31.666	488AM6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,862,658:26:0	
63	97	69	14:50:35.666	488AM6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,862,694:86:0	
64	97	69	17:16:29.000	488AM6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,862,839:21:0	
65	97	69	17:20:00.333	488AN6A	6TMSED	NORM,AH6	Sci, Eng, and D/L Chan	1O0	4	0	3,862,842:65:0	
66	97	69	17:43:33.000	176SB6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	1O0	4	0	3,862,866:00:0	
67	97	69	17:49:00.333	20UQ4B	7SLEW	DIS,POS,0.0	Stator movement	1O0	4	0	3,862,871:36:0	
68	97	69	17:50:00.333	20UQ4D	**7MODE**	**SPNL**	AACS ALL-SPIN LOW	1O0	4	0	3,862,872:35:0	
69	97	69	17:52:00.333	20UQ4E	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	1O0	4	0	3,862,874:33:0	
70	97	69	17:57:30.333	20UQ4G	7VENT	0.611,1.333,8	ALERT -- Thruster fire	1O0	4	0	3,862,879:73:0	
71	97	69	17:57:31.000	20UQ4H	7VENT	0.611,10.989,8	ALERT -- Thruster fire	1O0	4	0	3,862,879:74:0	
72	97	69	17:57:51.000	20UQ4I	7VENT	0.611,1.333,6	ALERT -- Thruster fire	1O0	4	0	3,862,880:13:0	
73	97	69	17:57:51.666	20UQ4J	7VENT	0.611,10.989,6	ALERT -- Thruster fire	1O0	4	0	3,862,880:14:0	
74	97	69	17:58:11.666	20UQ4K	7VENT	0.611,1.333,4	ALERT -- Thruster fire	1O0	4	0	3,862,880:44:0	
75	97	69	17:58:12.333	20UQ4L	7VENT	0.611,0.666,5	ALERT -- Thruster fire	1O0	4	0	3,862,880:45:0	
76	97	69	17:58:22.333	20UQ4M	7VENT	0.611,1.333,4	ALERT -- Thruster fire	1O0	4	0	3,862,880:60:0	
77	97	69	17:58:23.000	20UQ4N	7VENT	0.611,0.666,5	ALERT -- Thruster fire	1O0	4	0	3,862,880:61:0	
78	97	69	17:58:33.000	20UQ4O	7VENT	1.211,1.333,10	ALERT -- Thruster fire	1O0	4	0	3,862,880:76:0	
79	97	69	17:58:33.666	20UQ4P	7VENT	1.211,0.666,12	ALERT -- Thruster fire	1O0	4	0	3,862,880:77:0	
80	97	69	18:00:20.333	20UQ4S	7VENT	0.611,1.333,7	ALERT -- Thruster fire	1O0	4	0	3,862,882:55:0	
81	97	69	18:00:21.000	20UQ4T	7VENT	0.611,10.989,7	ALERT -- Thruster fire	1O0	4	0	3,862,882:56:0	
82	97	69	18:00:41.000	20UQ4U	7VENT	0.611,1.333,1	ALERT -- Thruster fire	1O0	4	0	3,862,882:86:0	
83	97	69	18:00:41.666	20UQ4V	7VENT	0.611,10.989,1	ALERT -- Thruster fire	1O0	4	0	3,862,882:87:0	
84	97	69	18:01:01.666	20UQ4AC	7VENT	0.611,1.333,2	ALERT -- Thruster fire	1O0	4	0	3,862,883:26:0	
85	97	69	18:01:02.333	20UQ4AD	7VENT	0.611,0.666,3	ALERT -- Thruster fire	1O0	4	0	3,862,883:27:0	
86	97	69	18:01:12.333	20UQ4AE	7VENT	0.611,1.333,2	ALERT -- Thruster fire	1O0	4	0	3,862,883:42:0	
87	97	69	18:01:13.000	20UQ4AF	7VENT	0.611,0.666,3	ALERT -- Thruster fire	1O0	4	0	3,862,883:43:0	
88	97	69	18:01:23.000	20UQ4W	7VENT	1.211,1.333,9	ALERT -- Thruster fire	1O0	4	0	3,862,883:58:0	
89	97	69	18:01:23.666	20UQ4X	7VENT	1.211,0.666,11	ALERT -- Thruster fire	1O0	4	0	3,862,883:59:0	
90	97	69	18:02:20.333	20UQ4Z	**7MODE**	**CRU**	AACS CRUISE MODE	1O0	4	0	3,862,884:53:0	
91	97	69	18:30:04.333	20UB4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	1O0	4	0	3,862,912:01:0	
92	97	69	18:30:54.333	20UB4B	7SLEW	DIS,POS,0.0	Stator movement	1O0	4	0	3,862,912:76:0	
93	97	69	18:31:04.333	176WA6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	1O0	4	0	3,862,913:00:0	
94	97	69	18:56:45.000	488AN6B	6TMSED	NORM,AH7	Sci, Eng, and D/L Chan	1O0	4	0	3,862,938:36:0	
95	97	69	19:28:00.333	488AN6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	3,862,969:28:0	
96	97	69	20:39:09.000	488AN6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,863,039:61:0	
97	97	69	22:14:43.666	488AN6E	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,863,134:18:0	
98	97	69	22:41:33.000	488AO6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,863,160:66:0	
99	97	70	00:58:19.666	176BE6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	1O0	4	0	3,863,296:00:0	
100	97	70	01:01:20.333	165BO4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	1O0	4	0	3,863,298:89:0	
101	97	70	01:01:21.000	165BO4B	7SCAN	NORM,305.304996,	Check S/P Position	1O0	4	0	3,863,298:90:0	
102	97	70	01:04:28.333	20UO4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	1O0	4	0	3,863,302:07:0	
103	97	70	01:04:53.666	432BG6A	6RTSL1		R/T Select of DDS and	1O0	4	0	3,863,302:45:0	
104	97	70	01:05:18.333	20UO4B	7SLEW	DIS,POS,0.0	Stator movement	1O0	4	0	3,863,302:82:0	
105	97	70	01:07:25.666	176BF6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	1O0	4	0	3,863,305:00:0	
106	97	70	03:09:33.000	488AO6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	3,863,425:71:0	
107	97	70	03:50:05.000	488AO6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,863,465:79:0	
108	97	70	04:36:37.000	488AO6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,863,511:81:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
109	97	70	04:43:25.000	488AP6A	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,863,518:56:0	
110	97	70	05:31:47.666	488AP6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,863,566:42:0	
111	97	70	06:47:09.000	488AP6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,863,640:90:0	
112	97	70	06:58:28.333	488AP6D	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,863,652:17:0	
113	97	70	07:35:32.333	488AP6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,863,688:77:0	
114	97	70	11:28:45.000	488AQ6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,863,919:45:0	
115	97	70	12:47:41.000	488AQ6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,863,997:51:0	
116	97	70	13:28:13.000	488AQ6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,864,037:59:0	
117	97	70	14:15:31.000	488AQ6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,864,084:39:0	
118	97	70	14:49:10.333	488AQ6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,864,117:65:0	
119	97	70	17:12:12.933	488AR6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,864,259:17:0	
120	97	70	18:56:44.933	488AR6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	3,864,362:52:0	
121	97	70	20:34:52.933	488AR6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,864,459:57:0	
122	97	71	03:05:16.933	488AS6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	3,864,845:67:0	
123	97	71	03:43:40.933	488AS6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,864,883:65:0	
124	97	71	04:32:01.600	488AS6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,864,931:48:0	
125	97	71	04:39:08.933	488AS6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,864,938:52:0	
126	97	71	05:26:53.600	488AS6E	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,864,985:72:0	
127	97	71	06:42:52.933	488AT6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,865,060:86:0	
128	97	71	06:53:22.266	488AT6B	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,865,071:29:0	
129	97	71	07:30:26.266	488AT6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,865,107:89:0	
130	**97**	**71**	**09:04:08.266**	**31E6A,**	**6CKSUM**	**NIMS**	**NIMS,1000,14B3**	**1O0**	**4**	**0**	**3,865,200:59:0**	
131	97	71	09:04:28.933	31E6B,	6MROH	12	read from LLM1A12,2282,0,A2	1O0	4	0	3,865,200:90:0	
132	97	71	11:24:28.933	488AT6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,865,339:41:0	
133	97	71	12:41:16.933	488AT6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,865,415:37:0	
134	97	71	13:21:48.933	488AU6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,865,455:45:0	
135	97	71	14:10:26.266	488AU6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,865,503:53:0	
136	97	71	14:44:05.600	488AU6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,865,536:79:0	
137	97	71	18:52:28.933	488AU6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,865,782:48:0	
138	97	71	19:58:36.933	488AV6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	3,865,847:85:0	
139	97	71	20:34:52.933	488AV6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,865,883:73:0	
140	**97**	**72**	**01:25:20.867**	**E6NNSHDOFF02-**		**-----START------**		**1O0**	**4**	**0**	**: :**	
141	97	72	02:29:00.866	488AW6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,866,234:04:0	
142	97	72	02:55:38.200	488AW6B	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,866,260:34:0	
143	97	72	03:05:16.866	488AW6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,866,269:83:0	
144	97	72	05:21:58.866	488AW6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,866,405:10:0	
145	97	72	05:36:44.866	488AW6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,866,419:65:0	
146	97	72	07:06:20.866	488AX6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,866,508:30:0	
147	97	72	10:54:36.866	488AX6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,866,734:08:0	
148	97	72	12:24:12.866	488AX6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,866,822:64:0	
149	97	72	13:13:16.866	488AY6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,866,871:21:0	
150	97	72	14:03:15.533	488AY6B	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,866,920:60:0	
151	97	72	14:40:19.533	488AY6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,866,957:29:0	
152	97	72	17:07:56.866	488AY6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	3,867,103:29:0	
153	97	72	17:31:24.866	488AY6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,867,126:48:0	
154	97	72	18:29:28.866	488AZ6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,867,183:87:0	
155	97	72	19:01:18.200	488AZ6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,867,215:39:0	
156	97	72	22:06:54.866	176SD6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	1O0	4	0	3,867,399:00:0	
157	97	72	22:08:00.200	488AZ6C	6TMSED	NORM,AH6	Sci, Eng, and D/L Chan	1O0	4	0	3,867,400:07:0	
158	97	72	22:45:00.200	474AA416A4B	**7MODE**	**INT**	AACS INERTIAL MODE	1O0	4	0	3,867,436:61:0	
159	97	72	22:47:00.200	474AA416A4D	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	1O0	4	0	3,867,438:59:0	
160	97	72	22:51:14.200	474AA416A4E	7BURN	10.970499,-25.47	ALERT -- Thruster fire	1O0	4	0	3,867,442:76:0	
161	97	72	23:16:06.200	474AA416A4G	7BURN	0.970499,-25.471	ALERT -- Thruster fire	1O0	4	0	3,867,467:39:0	
162	97	73	01:21:37.533	474AA416A4M	7BURN	0.970499,-25.471	ALERT -- Thruster fire	1O0	4	0	3,867,591:52:0	
163	97	73	02:29:00.866	488BA6A	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	1O0	4	0	3,867,658:20:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
164	97	73	02:58:52.866	488BA6B	6TMSED	NORM,AH4	Sci, Eng, and D/L Chan	1O0	4	0	3,867,687:69:0	
165	97	73	03:27:08.200	474AA416A4S	7BURN	0.970499,-25.471	ALERT -- Thruster fire	1O0	4	0	3,867,715:64:0	
166	97	73	04:09:16.800	488BA6C	6TMSED	NORM,AH3	Sci, Eng, and D/L Chan	1O0	4	0	3,867,757:35:0	
167	97	73	04:19:03.466	488BA6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,867,767:05:0	
168	97	73	04:25:33.466	488BA6E	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,867,773:44:0	
169	97	73	04:34:52.800	488BB6A	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,867,782:64:0	
170	97	73	05:32:39.466	474AA416A4Y	7BURN	0.970499,-25.471	ALERT -- Thruster fire	1O0	4	0	3,867,839:77:0	
171	97	73	05:44:16.800	488BB6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,867,851:31:0	
172	97	73	06:42:52.800	488BB6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,867,909:27:0	
173	97	73	06:48:12.800	488BB6D	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,867,914:52:0	
174	97	73	07:25:16.800	488BB6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,867,951:21:0	
175	97	73	07:39:15.466	488BC6A	6TMSED	NORM,AH3	Sci, Eng, and D/L Chan	1O0	4	0	3,867,965:05:0	
176	97	73	07:53:10.133	474AA416A4AE	7BURN	0.970499,-25.471	ALERT -- Thruster fire	1O0	4	0	3,867,978:74:0	
177	97	73	10:13:41.466	474AA416A4AK	7BURN	0.970499,-25.471	ALERT -- Thruster fire	1O0	4	0	3,868,117:72:0	
178	97	73	11:09:32.800	488BC6B	6TMSED	NORM,AH2	Sci, Eng, and D/L Chan	1O0	4	0	3,868,173:03:0	
179	97	73	12:34:53.466	474AA416A4AR	**7MODE**	**CRU**	AACS CRUISE MODE	1O0	4	0	3,868,257:40:0	
180	97	73	13:06:52.800	488BC6C	6TMSED	NORM,AH3	Sci, Eng, and D/L Chan	1O0	4	0	3,868,289:07:0	
181	97	73	13:53:10.800	488BD6A	6TMSED	FILL,AH3	Sci, Eng, and D/L Chan	1O0	4	0	3,868,334:79:0	
182	**97**	**73**	**14:19:40.867**	**E6NNSHDOFF02-**		**-----STOP-------**		**1O0**	**4**	**0**	**: :**	
183	**97**	**73**	**14:19:40.867**	**E6NNRCTRLT02-**		**-----START------**		**1O0**	**4**	**0**	**: :**	
184	97	73	14:28:16.800	488BD6B	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,868,369:53:0	
185	97	73	14:35:14.800	488BD6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,868,376:43:0	
186	97	73	14:57:44.800	488BD6D	6TMSED	NORM,AH3	Sci, Eng, and D/L Chan	1O0	4	0	3,868,398:66:0	
187	97	73	16:15:00.133	488BD6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,868,475:12:0	
188	97	73	16:17:04.133	20WN4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	1O0	4	0	3,868,477:16:0	
189	97	73	16:17:54.133	20WN4B	7SLEW	DIS,POS,0.0	Stator movement	1O0	4	0	3,868,478:00:0	
190	97	73	16:18:54.800	176SK6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	1O0	4	0	3,868,479:00:0	
191	97	73	17:01:32.800	488BE6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,868,521:15:0	
192	97	73	18:48:12.800	488BE6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	3,868,626:60:0	
193	97	73	20:30:36.800	488BE6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,868,727:85:0	
194	97	73	22:04:22.800	488BE6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,868,820:61:0	
195	97	73	22:24:56.133	176SL6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	1O0	4	0	3,868,841:00:0	
196	97	73	22:28:00.133	488BE6E	6TMSED	FILL,BA6	Sci, Eng, and D/L Chan	1O0	4	0	3,868,844:03:0	
197	97	73	22:31:12.133	488BF6A	6TMSED	NORM,BA6	Sci, Eng, and D/L Chan	1O0	4	0	3,868,847:18:0	
198	97	73	22:33:00.133	20US4F	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	1O0	4	0	3,868,848:89:0	
199	97	73	22:37:00.133	20US4G	7STAT	17.45,0.0,90.0	Stator inertial point	1O0	4	0	3,868,852:85:0	
200	97	74	01:30:00.133	488BF6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,869,024:03:0	
201	97	74	01:38:07.466	41WK99A	**POWER**	**PWR MODE change**	Change to Calib/Decon Mode	1O0	4	0	3,869,032:06:0	
202	**97**	**74**	**01:38:11.466**	**41WK3G**	**37F2PR**		**1 Shield Flash Heater OFF (primary relay)**	**1O0**	**4**	**0**	**3,869,032:12:0**	
203	**97**	**74**	**01:38:21.466**	**41WK3H**	**37F2PR**		**2 Shield Flash Heater OFF (primary relay)**	**1O0**	**4**	**0**	**3,869,032:27:0**	
204	**97**	**74**	**01:38:31.466**	**41WK3I**	**40T1PR**		**1 PCT Heater 1 OFF (primary relay)**	**1O0**	**4**	**0**	**3,869,032:42:0**	
205	**97**	**74**	**01:38:41.466**	**41WK3J**	**40T1PR**		**2 PCT Heater 1 OFF (primary relay)**	**1O0**	**4**	**0**	**3,869,032:57:0**	
206	**97**	**74**	**01:38:51.466**	**41WK3K**	**40T2R**		**1 PCT Heater 2 OFF**	**1O0**	**4**	**0**	**3,869,032:72:0**	
207	**97**	**74**	**01:39:01.466**	**41WK3L**	**40T2R**		**2 PCT Heater 2 OFF**	**1O0**	**4**	**0**	**3,869,032:87:0**	
208	97	74	01:52:16.800	20XG4A	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	1O0	4	0	3,869,046:06:0	
209	97	74	01:56:23.466	20WL4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	1O0	4	0	3,869,050:12:0	
210	97	74	01:57:13.466	20WL4B	7SLEW	DIS,POS,0.0	Stator movement	1O0	4	0	3,869,050:87:0	
211	97	74	01:59:17.466	176YE6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	1O0	4	0	3,869,053:00:0	
212	**97**	**74**	**02:00:18.133**	**185XG10A3A**	**40HRP**		**1 RCT Heater ON (primary relay)**	**1O0**	**4**	**0**	**3,869,054:00:0**	
213	**97**	**74**	**02:00:23.466**	**185XG10B3A**	**40HRP**		**2 RCT Heater ON (primary relay)**	**1O0**	**4**	**0**	**3,869,054:08:0**	
214	97	74	02:54:36.800	488BF6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	3,869,107:65:0	
215	**97**	**74**	**03:28:20.866**	**E6NNRCTRLT02-**		**-----STOP-------**		**1O0**	**4**	**0**	**: :**	
216	97	74	03:35:08.800	488BF6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,869,147:73:0	
217	97	74	04:22:54.133	488BF6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,869,195:03:0	
218	97	74	04:30:36.800	488BG6A	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,869,202:60:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
219	97	74	05:22:10.133	488BG6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,869,253:59:0	
220	97	74	06:42:52.800	488BG6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,869,333:43:0	
221	97	74	06:43:02.800	488BG6D	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,869,333:58:0	
222	97	74	07:20:10.800	488BG6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,869,370:33:0	
223	97	74	11:05:16.733	488BH6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,869,592:90:0	
224	97	74	13:06:52.733	488BH6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,869,713:23:0	
225	97	74	13:53:04.733	488BH6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,869,758:86:0	
226	97	74	13:55:04.733	125XG	NIMSINIT	GS	##### GROUP START INIT	160	4	0	3,869,760:84:0	
227	**97**	**74**	**13:55:04.733**	**125XG4A**	**37IST**	**1,0,0,OFF,0,0,0**	**Chopper ON, Sync, 63Hz (Ref)**	**160**	**4**	**0**	**3,869,760:84:0**	
228	**97**	**74**	**13:56:05.400**	**125XG4B**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**1R0**	**4**	**0**	**3,869,761:84:0**	
229	**97**	**74**	**13:57:06.066**	**125XG4C**	**37IST**	**0,2,0,OFF,0,1,3**	**Gain State 1**	**1R0**	**4**	**0**	**3,869,762:84:0**	
230	97	74	13:58:06.733	125XG11A	NIMSINIT	GE	##### GROUP END INIT	1R0	4	0	3,869,763:84:0	
231	**97**	**74**	**13:58:06.733**	**125XG4D**	**37MB**	**1B,1B,0,0,0,0**	**Selects mirror (spatial) edit table**	**1R0**	**4**	**0**	**3,869,763:84:0**	
232	**97**	**74**	**14:00:08.066**	**127XG4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**1R3**	**4**	**0**	**3,869,765:84:0**	
233	97	74	14:00:08.066	127XG	NIMSTAB	GS	%%%%% GROUP START TAB	1R3	4	0	3,869,765:84:0	
234	**97**	**74**	**14:00:08.733**	**127XG4B**	**37ETB**	**0A,CA,18,03,FF,1**	**Loads wavelength edit table**	**1R3**	**4**	**0**	**3,869,765:85:0**	
235	97	74	14:00:16.733	127XG11A	NIMSTAB	GE	%%%%% GROUP END TAB	1R3	4	0	3,869,766:06:0	
236	97	74	14:04:15.400	176XG6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	1R3	4	0	3,869,770:00:0	
237	97	74	14:10:19.400	192XG4A	**7CONE**	**17.0,119.7**	Check S/P Position	1R3	4	0	3,869,776:00:0	
238	**97**	**74**	**14:12:40.733**	**432XG6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**	**NIMS R/T SELECT**	**1R3**	**4**	**0**	**3,869,778:30:0**	
239	**97**	**74**	**14:13:40.066**	**432XH6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**1R3**	**4**	**0**	**3,869,779:28:0**	
240	97	74	14:16:23.400	192XG4B	**7CONE**	**17.0,0.0**	Check S/P Position	1R3	4	0	3,869,782:00:0	
241	**97**	**74**	**14:18:44.733**	**432XI6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**	**NIMS R/T SELECT**	**1R3**	**4**	**0**	**3,869,784:30:0**	
242	**97**	**74**	**14:20:44.733**	**432YE6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**1R3**	**4**	**0**	**3,869,786:28:0**	
243	97	74	14:22:27.400	192XG4C	**7CONE**	**17.0,119.7**	Check S/P Position	1R3	4	0	3,869,788:00:0	
244	**97**	**74**	**14:24:28.733**	**185XG10C3A**	**40HRPR**	**1**	**RCT Heater OFF (primary relay)**	**1R3**	**4**	**0**	**3,869,790:00:0**	
245	**97**	**74**	**14:24:34.066**	**185XG10D3A**	**40HRPR**	**2**	**RCT Heater OFF (primary relay)**	**1R3**	**4**	**0**	**3,869,790:08:0**	
246	**97**	**74**	**14:24:48.733**	**432YF6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**	**NIMS R/T SELECT**	**1R3**	**4**	**0**	**3,869,790:30:0**	
247	**97**	**74**	**14:25:48.066**	**432ZE6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**1R3**	**4**	**0**	**3,869,791:28:0**	
248	97	74	14:28:31.400	192XG4D	**7CONE**	**17.0,153.0**	Check S/P Position	1R3	4	0	3,869,794:00:0	
249	97	74	14:29:27.400	127XH	NIMSTAB	GS	%%%%% GROUP START TAB	1R3	4	0	3,869,794:84:0	
250	**97**	**74**	**14:29:27.400**	**127XH4A**	**37IOP**	**0,0**	**Safe, Grating Start Position =00**	**1R0**	**4**	**0**	**3,869,794:84:0**	
251	**97**	**74**	**14:29:28.066**	**127XH4B**	**37ETB**	**04,C4,02,00,00**	**Loads wavelength edit table**	**1R0**	**4**	**0**	**3,869,794:85:0**	
252	97	74	14:29:36.066	127XH11A	NIMSTAB	GE	%%%%% GROUP END TAB	1R0	4	0	3,869,795:06:0	
253	97	74	14:32:29.400	125XH	NIMSINIT	GS	##### GROUP START INIT	1R0	4	0	3,869,797:84:0	
254	**97**	**74**	**14:32:29.400**	**125XH4A**	**37MB**	**0,0,0,0,0,0**	**Selects mirror (spatial) edit table**	**1R0**	**4**	**0**	**3,869,797:84:0**	
255	**97**	**74**	**14:33:30.066**	**125XH4B**	**37IST**	**1,0,0,OFF,0,0,0**	**Chopper ON, Sync, 63Hz (Ref)**	**160**	**4**	**0**	**3,869,798:84:0**	
256	**97**	**74**	**14:34:30.733**	**125XH4C**	**37IST**	**1,1,0,OFF,0,0,0**	**Chopper OFF, N/A, 63Hz (Ref)**	**1O0**	**4**	**0**	**3,869,799:84:0**	
257	97	74	14:34:30.733	125XH11A	NIMSINIT	GE	##### GROUP END INIT	1O0	4	0	3,869,799:84:0	
258	97	74	14:35:08.733	488BH6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,869,800:50:0	
259	97	74	14:40:43.400	41WL99A	**POWER**	**PWR MODE change**	Change to Maneuver/Playback Mode	1O0	4	0	3,869,806:06:0	
260	**97**	**74**	**14:40:47.400**	**41WL3K**	**37F2PR**	**1**	**Shield Flash Heater OFF (primary relay)**	**1O0**	**4**	**0**	**3,869,806:12:0**	
261	**97**	**74**	**14:40:57.400**	**41WL3L**	**37F2PR**	**2**	**Shield Flash Heater OFF (primary relay)**	**1O0**	**4**	**0**	**3,869,806:27:0**	
262	**97**	**74**	**14:43:07.400**	**41WL3G**	**40T1P**	**1**	**PCT Heater 1 ON (primary relay)**	**1O0**	**4**	**0**	**3,869,808:40:0**	
263	**97**	**74**	**14:43:17.400**	**41WL3H**	**40T1P**	**2**	**PCT Heater 1 ON (primary relay)**	**1O0**	**4**	**0**	**3,869,808:55:0**	
264	**97**	**74**	**14:43:27.400**	**41WL3I**	**40T2**	**1**	**PCT Heater 2 ON**	**1O0**	**4**	**0**	**3,869,808:70:0**	
265	**97**	**74**	**14:43:37.400**	**41WL3J**	**40T2**	**2**	**PCT Heater 2 ON**	**1O0**	**4**	**0**	**3,869,808:85:0**	
266	97	74	14:50:54.066	20WM4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	1O0	4	0	3,869,816:12:0	
267	97	74	14:51:44.066	20WM4B	7SLEW	DIS,POS,0.0	Stator movement	1O0	4	0	3,869,816:87:0	
268	97	74	14:53:48.066	176XH6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	1O0	4	0	3,869,819:00:0	
269	97	74	17:01:32.733	488BH6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,869,945:31:0	
270	97	74	18:41:48.733	488BI6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	3,870,044:46:0	
271	97	74	20:24:12.733	488BI6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,870,145:71:0	
272	97	74	21:59:16.733	488BI6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,870,239:73:0	
273	97	74	22:26:06.066	488BI6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,870,266:30:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
274	97	75	02:29:26.066	432MD431A6A	6RCDSL	DDSDSL,PLSNCG,EP	Record Deselect (DDS o	1O0	4	0	3,870,506:90:0	
275	97	75	02:29:26.733	432MD6A	6RTSL1		R/T Select of DDS and	1O0	4	0	3,870,507:00:0	
276	97	75	02:54:36.733	488BJ6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	3,870,531:81:0	
277	97	75	03:30:52.733	488BJ6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,870,567:69:0	
278	97	75	04:22:56.733	488BJ6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,870,619:23:0	
279	97	75	04:30:36.733	488BJ6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,870,626:76:0	
280	97	75	05:12:16.066	488BJ6E	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,870,668:03:0	
281	97	75	05:32:28.733	488BK6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,870,688:02:0	
282	97	75	07:08:28.733	488BK6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,870,782:88:0	
283	97	75	10:35:24.733	488BK6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,870,987:57:0	
284	97	75	12:09:16.733	488BL6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,871,080:42:0	
285	97	75	13:06:52.733	488BL6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,871,137:39:0	
286	97	75	13:52:58.733	488BL6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,871,183:02:0	
287	97	75	14:30:02.733	488BL6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,871,219:62:0	
288	97	75	16:57:16.666	488BL6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,871,365:27:0	
289	97	75	18:37:32.666	488BM6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	3,871,464:42:0	
290	97	75	20:19:56.666	488BM6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,871,565:67:0	
291	97	75	21:54:10.666	488BM6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,871,658:85:0	
292	97	75	22:21:00.000	488BM6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,871,685:42:0	
293	97	76	02:50:20.666	488BN6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	3,871,951:77:0	
294	97	76	03:24:28.666	488BN6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,871,985:55:0	
295	97	76	04:17:18.000	488BN6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,872,037:77:0	
296	97	76	04:24:12.666	488BN6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,872,044:62:0	
297	97	76	05:17:22.000	488BN6E	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,872,097:23:0	
298	97	76	06:32:10.000	488BO6A	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,872,171:21:0	
299	97	76	06:47:08.666	488BO6B	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,872,186:04:0	
300	97	76	07:14:24.000	176SE6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	1O0	4	0	3,872,213:00:0	
301	97	76	07:14:58.666	488BO6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,872,213:52:0	
302	97	76	07:23:00.000	488BO6D	6TMSED	NORM,AH3	Sci, Eng, and D/L Chan	1O0	4	0	3,872,221:46:0	
303	97	76	07:55:02.000	490UC412A4B	**7MODE**	**INT**	AACS INERTIAL MODE	1O0	4	0	3,872,253:17:0	
304	97	76	08:00:00.000	490UC412A4D	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	1O0	4	0	3,872,258:09:0	
305	97	76	08:04:10.000	490UC412A4E	7VECT	RTH	Inert vect update UTC	1O0	4	0	3,872,262:20:0	
306	97	76	08:04:14.000	490UC412A4F	7TURN	2,RTH	ALERT Thruster	1O0	4	0	3,872,262:26:0	
307	97	76	08:08:02.000	490UC412A406A4A	7STAR	1,3000,95.710999	Star catalog update	1O0	4	0	3,872,266:04:0	
308	97	76	08:08:04.000	490UC412A406A4B	7STAR	2,217,50.1856,49	Star catalog update	1O0	4	0	3,872,266:07:0	
309	97	76	08:08:06.000	490UC412A406A4C	7STAR	3,0,0.0,0.0	Star catalog update	1O0	4	0	3,872,266:10:0	
310	97	76	08:08:08.000	490UC412A406A4D	7STAR	4,0,0.0,0.0	Star catalog update	1O0	4	0	3,872,266:13:0	
311	97	76	08:08:10.000	490UC412A406A4E	7STAR	5,0,0.0,0.0	Star catalog update	1O0	4	0	3,872,266:16:0	
312	97	76	08:08:12.000	490UC412A406A4F	7STAR	6,0,0.0,0.0	Star catalog update	1O0	4	0	3,872,266:19:0	
313	97	76	09:17:12.666	490UC412A4L	**7MODE**	**CRU**	AACS CRUISE MODE	1O0	4	0	3,872,334:42:0	
314	97	76	09:36:00.000	488BO6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,872,353:04:0	
315	97	76	09:37:04.000	20UU4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	1O0	4	0	3,872,354:09:0	
316	97	76	09:37:54.000	20UU4B	7SLEW	DIS,POS,0.0	Stator movement	1O0	4	0	3,872,354:84:0	
317	97	76	09:38:59.333	176SF6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	1O0	4	0	3,872,356:00:0	
318	97	76	10:50:20.666	488BP6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,872,426:52:0	
319	97	76	12:28:28.666	488BP6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,872,523:57:0	
320	97	76	13:13:16.666	488BP6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,872,567:85:0	
321	97	76	13:54:57.333	488BP6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,872,609:14:0	
322	97	76	14:28:36.666	488BP6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,872,642:40:0	
323	97	76	16:57:16.666	488BQ6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,872,789:43:0	
324	97	76	18:37:32.666	488BQ6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	3,872,888:58:0	
325	97	76	20:19:56.666	488BQ6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,872,989:83:0	
326	97	76	21:58:06.600	176BG6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	1O0	4	0	3,873,087:00:0	
327	97	76	22:01:07.266	165BP4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	1O0	4	0	3,873,089:89:0	
328	97	76	22:01:07.933	165BP4B	7SCAN	NORM,312.130997,	Check S/P Position	1O0	4	0	3,873,089:90:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
329	97	76	22:04:15.266	20UV4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	1O0	4	0	3,873,093:07:0	
330	97	76	22:04:40.600	432BI6A	6RTSL1		R/T Select of DDS and	1O0	4	0	3,873,093:45:0	
331	97	76	22:05:05.266	20UV4B	7SLEW	DIS,POS,0.0	Stator movement	1O0	4	0	3,873,093:82:0	
332	97	76	22:07:12.600	176BH6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	1O0	4	0	3,873,096:00:0	
333	97	77	02:46:04.600	488BR6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	3,873,371:73:0	
334	97	77	03:30:52.600	488BR6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,873,416:10:0	
335	97	77	04:12:43.266	488BR6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,873,457:45:0	
336	97	77	04:19:56.600	488BR6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,873,464:58:0	
337	97	77	05:07:27.933	488BR6E	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,873,511:58:0	
338	97	77	05:17:32.600	488BS6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,873,521:55:0	
339	97	77	06:32:12.600	488BS6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,873,595:41:0	
340	97	77	11:01:00.600	488BS6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,873,861:27:0	
341	97	77	12:58:20.600	488BT6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,873,977:31:0	
342	97	77	16:53:00.600	488BT6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,874,209:39:0	
343	97	77	18:33:16.600	488BT6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	3,874,308:54:0	
344	97	77	20:15:40.600	488BU6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,874,409:79:0	
345	97	78	02:46:04.600	488BV6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	3,874,795:89:0	
346	97	78	03:30:52.600	488BV6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,874,840:26:0	
347	97	78	03:59:53.866	432JH431A6A	6RCDSL	DDSNCG,PLSDSL,EP	Record Deselect (DDS o	1O0	4	0	3,874,868:90:0	
348	97	78	03:59:54.533	432JH6A	6RTSL1		R/T Select of DDS and	1O0	4	0	3,874,869:00:0	
349	**97**	**78**	**03:59:54.533**	**432JH6B**	**6RTSL2**	**NIMNCG,AACSEL,RT**	**AACS SELECT**	**1O0**	**4**	**0**	**3,874,869:00:0**	
350	97	78	04:12:45.866	488BV6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,874,881:65:0	
351	97	78	04:19:56.533	488BV6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,874,888:74:0	
352	97	78	05:02:33.866	488BV6E	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,874,930:88:0	
353	97	78	05:13:16.533	488BW6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,874,941:51:0	
354	97	78	06:23:40.533	488BW6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,875,011:17:0	
355	97	78	11:05:16.533	488BW6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,875,289:63:0	
356	97	78	12:05:00.533	488BX6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,875,348:70:0	
357	97	78	12:37:00.533	488BX6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,875,380:38:0	
358	97	78	13:42:40.533	488BX6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,875,445:33:0	
359	97	78	14:19:44.533	488BX6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,875,482:02:0	
360	97	78	14:32:12.533	488BX6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,875,494:32:0	
361	**97**	**78**	**16:48:00.000**	**E6NNDET3CHK1-**		**-----START------**		**1O0**	**4**	**0**	**: :**	
362	97	78	16:48:44.533	488BY6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,875,629:35:0	
363	**97**	**78**	**16:48:56.533**	**31I4A**	**37IST**	**1,0,0,OFF,0,0,0**	**Chopper ON, Sync, 63Hz (Ref)**	**160**	**4**	**0**	**3,875,629:53:0**	
364	**97**	**78**	**16:49:57.200**	**31I4B**	**37IST**	**1,2,0,OFF,0,1,0**	**Chopper ON, Sync, Chopper (Ref)Gain State**	**2R0**	**4**	**0**	**3,875,630:53:0**	
365	**97**	**78**	**16:50:57.866**	**31I4C**	**37MB**	**1B,1B,0,0,0,0**	**Selects mirror (spatial) edit table**	**2R0**	**4**	**0**	**3,875,631:53:0**	
366	**97**	**78**	**16:51:58.533**	**31I4D**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**3,875,632:53:0**	
367	**97**	**78**	**16:51:59.200**	**31I4E**	**37ETB**	**07,C7,30,E0,00,0**	**Loads wavelength edit table**	**2R3**	**4**	**0**	**3,875,632:54:0**	
368	**97**	**78**	**16:52:57.200**	**31I6B**	**6RTSL2**	**NIMSEL,AACNCG,RT**	**NIMS R/T SELECT**	**2R3**	**4**	**0**	**3,875,633:50:0**	
369	**97**	**78**	**16:54:58.533**	**31I6C**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**2R3**	**4**	**0**	**3,875,635:50:0**	
370	**97**	**78**	**16:54:59.200**	**31I4F**	**37MB**	**00,00,0,0,0,0**	**Selects mirror (spatial) edit table**	**2R3**	**4**	**0**	**3,875,635:51:0**	
371	**97**	**78**	**16:55:59.866**	**31I4G**	**37IOP**	**0,0**	**Safe, Grating Start Position =00**	**2R0**	**4**	**0**	**3,875,636:51:0**	
372	**97**	**78**	**16:57:00.533**	**31I4H**	**37IST**	**1,0,0,OFF,0,0,0**	**Chopper ON, Sync, 63Hz (Ref)**	**260**	**4**	**0**	**3,875,637:51:0**	
373	**97**	**78**	**16:58:01.200**	**31I4I**	**37IST**	**1,1,0,OFF,0,0,0**	**Chopper OFF, N/A, 63Hz (Ref)**	**2O0**	**4**	**0**	**3,875,638:51:0**	
374	**97**	**78**	**16:59:00.000**	**E6NNDET3CHK1-**		**-----STOP-------**		**2O0**	**4**	**0**	**: :**	
375	97	78	18:33:16.533	488BY6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	3,875,732:70:0	
376	97	78	20:15:40.533	488BY6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	3,875,834:04:0	
377	97	78	21:48:52.533	488BY6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	3,875,926:20:0	
378	97	78	22:08:44.533	488BY6E	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	2O0	4	0	3,875,945:79:0	
379	97	78	22:13:29.866	488BZ6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	3,875,950:52:0	
380	97	78	23:04:12.533	488BZ6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	3,876,000:66:0	
381	97	79	02:39:40.533	488BZ6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	3,876,213:75:0	
382	97	79	03:30:52.533	488BZ6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	3,876,264:42:0	
383	97	79	04:08:11.200	488BZ6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	3,876,301:33:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
384	97	79	04:15:40.533	488CA6A	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	2O0	4	0	3,876,308:70:0	
385	97	79	05:02:39.866	488CA6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	2O0	4	0	3,876,355:22:0	
386	97	79	05:09:00.533	488CA6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2O0	4	0	3,876,361:47:0	
387	97	79	06:13:00.533	488CA6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	3,876,424:74:0	
388	97	79	11:09:32.466	488CB6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2O0	4	0	3,876,718:08:0	
389	97	79	12:43:24.466	488CB6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	3,876,810:84:0	
390	97	79	16:48:44.466	488CB6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	3,877,053:51:0	
391	97	79	18:07:40.466	488CC6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	3,877,131:57:0	
392	97	79	20:09:16.466	488CC6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	3,877,251:81:0	
393	97	79	20:43:24.466	488CC6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	3,877,285:59:0	
394	97	80	00:14:36.466	488CD6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	3,877,494:48:0	
395	97	80	02:35:24.466	488CD6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	3,877,633:71:0	
396	97	80	03:30:52.466	488CD6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	3,877,688:58:0	
397	97	80	04:03:36.466	488CD6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	3,877,721:01:0	
398	97	80	04:11:24.466	488CD6E	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	2O0	4	0	3,877,728:66:0	
399	97	80	04:57:47.133	488CE6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	2O0	4	0	3,877,774:54:0	
400	97	80	05:43:08.466	488CE6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2O0	4	0	3,877,819:41:0	
401	97	80	06:22:29.800	488CE6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	2O0	4	0	3,877,858:34:0	
402	97	80	06:59:33.800	488CE6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2O0	4	0	3,877,895:03:0	
403	97	80	11:30:52.466	488CF6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	2O0	4	0	3,878,163:33:0	
404	97	80	12:05:00.466	488CF6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2O0	4	0	3,878,197:11:0	
405	97	80	12:32:44.466	488CF6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	3,878,224:50:0	
406	97	80	13:44:32.466	488CF6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	3,878,295:51:0	
407	97	80	14:18:11.133	488CF6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	3,878,328:76:0	
408	97	80	16:42:20.400	488CG6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	3,878,471:37:0	
409	97	80	17:52:44.400	488CG6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	3,878,541:03:0	
410	97	81	00:40:12.400	488CH6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	3,878,944:02:0	
411	97	81	02:35:24.400	488CH6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	3,879,057:87:0	
412	97	81	03:30:52.400	488CH6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	3,879,112:74:0	
413	97	81	04:03:39.066	488CH6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	3,879,145:21:0	
414	97	81	04:11:24.400	488CH6E	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	2O0	4	0	3,879,152:82:0	
415	97	81	04:47:53.733	488CI6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	2O0	4	0	3,879,188:90:0	
416	97	81	04:54:04.400	488CI6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2O0	4	0	3,879,195:09:0	
417	97	81	05:53:48.400	488CI6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	3,879,254:16:0	
418	97	81	11:15:56.400	488CJ6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2O0	4	0	3,879,572:70:0	
419	97	81	11:29:36.400	488CJ6B	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	2O0	4	0	3,879,586:26:0	
420	97	81	12:32:44.400	488CJ6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	3,879,648:66:0	
421	97	81	12:47:20.400	488CJ6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	3,879,663:15:0	
422	97	81	16:42:20.400	488CJ6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	3,879,895:53:0	
423	97	81	17:37:48.400	488CK6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	3,879,950:40:0	
424	97	81	18:45:46.400	488CK6B	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	2O0	4	0	3,880,017:60:0	
425	97	81	18:48:12.400	488CK6C	6TMSED	FILL,AL8	Sci, Eng, and D/L Chan	2O0	4	0	3,880,020:06:0	
426	97	81	18:49:52.400	488CK6D	6TMSED	NORM,AL8	Sci, Eng, and D/L Chan	2O0	4	0	3,880,021:65:0	
427	97	81	19:35:08.400	488CK6E	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	3,880,066:44:0	
428	97	82	01:01:32.333	488CL6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	3,880,389:27:0	
429	97	82	02:12:31.000	432BK6A	6RTSL1		R/T Select of DDS and	2O0	4	0	3,880,459:45:0	
430	97	82	02:31:08.333	488CL6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	3,880,477:83:0	
431	97	82	03:30:52.333	488CL6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	3,880,536:90:0	
432	97	82	03:58:01.000	488CL6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	3,880,563:76:0	
433	97	82	04:05:00.333	488CL6E	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	2O0	4	0	3,880,570:68:0	
434	97	82	04:52:59.666	488CM6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	2O0	4	0	3,880,618:19:0	
435	97	82	04:58:20.333	488CM6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2O0	4	0	3,880,623:45:0	
436	97	82	05:43:08.333	488CM6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	3,880,667:73:0	
437	97	82	11:20:12.333	488CN6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2O0	4	0	3,881,001:15:0	
438	97	82	12:07:08.333	488CN6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	2O0	4	0	3,881,047:53:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
439	97	82	12:22:04.333	488CN6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2O0	4	0	3,881,062:32:0	
440	97	82	13:28:27.000	488CN6D	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	2O0	4	0	3,881,128:00:0	
441	97	82	13:32:28.333	488CN6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	3,881,131:89:0	
442	97	82	14:02:58.333	488CO6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	3,881,162:13:0	
443	97	82	16:38:04.333	488CO6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	3,881,315:49:0	
444	97	82	18:18:20.333	488CO6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	3,881,414:64:0	
445	97	82	21:34:49.000	488CP6A	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	2O0	4	0	3,881,609:02:0	
446	97	82	21:59:21.666	488CP6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	3,881,633:27:0	
447	97	83	01:10:04.333	488CP6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	3,881,821:83:0	
448	97	83	02:24:44.333	488CP6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	3,881,895:69:0	
449	97	83	03:30:52.333	488CP6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	3,881,961:15:0	
450	97	83	03:53:26.333	488CQ6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	3,881,983:44:0	
451	97	83	04:00:44.333	488CQ6B	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	2O0	4	0	3,881,990:64:0	
452	97	83	04:48:06.933	488CQ6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	2O0	4	0	3,882,037:51:0	
453	97	83	05:17:32.266	488CQ6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2O0	4	0	3,882,066:60:0	
454	97	83	06:12:09.600	488CQ6E	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	2O0	4	0	3,882,120:62:0	
455	97	83	06:49:13.600	488CR6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2O0	4	0	3,882,157:31:0	
456	97	83	11:35:08.266	488CR6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	2O0	4	0	3,882,440:10:0	
457	97	83	11:54:20.266	488CR6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2O0	4	0	3,882,459:09:0	
458	97	83	12:13:32.266	488CR6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	3,882,478:08:0	
459	97	83	13:29:12.266	488CS6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	3,882,552:84:0	
460	97	83	14:02:51.600	488CS6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	3,882,586:19:0	
461	97	83	16:38:04.266	488CS6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	3,882,739:65:0	
462	97	83	17:18:36.266	488CS6D	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	3,882,779:73:0	
463	97	83	18:15:54.266	488CS6E	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	2O0	4	0	3,882,836:43:0	
464	97	83	18:18:20.266	488CT6A	6TMSED	FILL,AL8	Sci, Eng, and D/L Chan	2O0	4	0	3,882,838:80:0	
465	97	83	18:20:00.266	488CT6B	6TMSED	NORM,AL8	Sci, Eng, and D/L Chan	2O0	4	0	3,882,840:48:0	
466	97	83	20:00:44.266	488CT6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	3,882,940:14:0	
467	97	84	01:20:44.266	488CU6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	3,883,256:58:0	
468	97	84	02:24:44.266	488CU6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	3,883,319:85:0	
469	97	84	03:30:52.266	488CU6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	3,883,385:31:0	
470	97	84	03:53:29.600	488CU6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	3,883,407:65:0	
471	97	84	04:00:44.266	488CU6E	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	2O0	4	0	3,883,414:80:0	
472	97	84	04:43:13.600	488CV6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	2O0	4	0	3,883,456:82:0	
473	97	84	04:47:40.266	488CV6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2O0	4	0	3,883,461:27:0	
474	97	84	05:28:12.266	488CV6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	3,883,501:35:0	
475	97	84	11:26:36.200	488CW6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2O0	4	0	3,883,855:77:0	
476	97	84	12:24:12.200	488CW6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	3,883,912:74:0	
477	97	84	16:33:48.200	488CW6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	3,884,159:61:0	
478	97	84	17:07:56.200	488CW6D	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	3,884,193:39:0	
479	97	84	18:11:38.200	488CX6A	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	2O0	4	0	3,884,256:39:0	
480	97	84	18:14:04.200	488CX6B	6TMSED	FILL,AL8	Sci, Eng, and D/L Chan	2O0	4	0	3,884,258:76:0	
481	97	84	18:15:44.200	488CX6C	6TMSED	NORM,AL8	Sci, Eng, and D/L Chan	2O0	4	0	3,884,260:44:0	
482	97	84	19:56:28.200	488CX6D	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	3,884,360:10:0	
483	97	85	01:25:00.200	488CY6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	3,884,685:03:0	
484	97	85	02:20:28.200	488CY6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	3,884,739:81:0	
485	97	85	03:30:52.200	488CY6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	3,884,809:47:0	
486	97	85	03:49:10.866	488CY6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	3,884,827:57:0	
487	97	85	03:56:28.200	488CY6E	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	2O0	4	0	3,884,834:76:0	
488	97	85	04:39:21.533	488CZ6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2O0	4	0	3,884,877:23:0	
489	97	85	05:19:40.200	488CZ6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	3,884,917:11:0	
490	97	85	11:26:36.200	488DA6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2O0	4	0	3,885,280:02:0	
491	97	85	13:04:44.200	488DA6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	3,885,377:07:0	
492	97	85	13:18:57.533	488DA6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	3,885,391:13:0	
493	97	85	13:52:36.200	488DA6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	3,885,424:38:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
494	97	85	16:29:32.133	488DA6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	3,885,579:57:0
495	97	85	17:54:52.133	488DB6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	3,885,664:02:0
496	97	85	18:52:10.133	488DB6B	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	2O0	4	0	3,885,720:63:0
497	97	85	18:54:36.133	488DB6C	6TMSED	FILL,AL8	Sci, Eng, and D/L Chan	2O0	4	0	3,885,723:09:0
498	97	85	18:56:16.133	488DB6D	6TMSED	NORM,AL8	Sci, Eng, and D/L Chan	2O0	4	0	3,885,724:68:0
499	97	85	19:35:08.133	488DB6E	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	3,885,763:17:0
500	97	85	21:29:27.466	488DC6A	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	2O0	4	0	3,885,876:23:0
501	97	85	21:54:00.800	488DC6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	3,885,900:49:0
502	**97**	**85**	**23:59:57.333**	**E6NNG7PREP01-**		**-----START------**		**2O0**	**4**	**0**	**: :**
503	**97**	**86**	**00:06:01.333**	**E6NNG7PREP01-**		**-----STOP-------**		**2O0**	**4**	**0**	**: :**
504	**97**	**86**	**00:07:52.133**	**125DN4A**	**37IST**	**1,0,0,OFF,0,0,0**	**Chopper ON, Sync, 63Hz (Ref)**	**260**	**4**	**0**	**3,886,032:84:0**
505	97	86	00:07:52.133	125DN	NIMSINIT	GS	##### GROUP START INIT	260	4	0	3,886,032:84:0
506	97	86	00:08:52.800	125DN11A	NIMSINIT	GE	##### GROUP END INIT	260	4	0	3,886,033:84:0
507	**97**	**86**	**00:08:52.800**	**125DN4B**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**3,886,033:84:0**
508	97	86	00:12:55.466	125DA	NIMSINIT	GS	##### GROUP START INIT	2R0	4	0	3,886,037:84:0
509	**97**	**86**	**00:12:55.466**	**125DA4A**	**37IST**	**0,0,0,OFF,0,1,1**	**Gain State 4**	**4R0**	**4**	**0**	**3,886,037:84:0**
510	97	86	00:13:56.133	125DA11A	NIMSINIT	GE	##### GROUP END INIT	4R0	4	0	3,886,038:84:0
511	**97**	**86**	**00:13:56.133**	**125DA4B**	**37MB**	**1B,1B,0,0,0,0**	**Selects mirror (spatial) edit table**	**4R0**	**4**	**0**	**3,886,038:84:0**
512	**97**	**86**	**00:16:58.133**	**127DA4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**4R3**	**4**	**0**	**3,886,041:84:0**
513	97	86	00:16:58.133	127DA	NIMSTAB	GS	%%%%% GROUP START TAB	4R3	4	0	3,886,041:84:0
514	**97**	**86**	**00:16:58.800**	**127DA4B**	**37ETB**	**07,C7,31,87,00,0**	**Loads wavelength edit table**	**4R3**	**4**	**0**	**3,886,041:85:0**
515	97	86	00:17:08.800	127DA11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	3,886,042:09:0
516	**97**	**86**	**00:18:23.466**	**432DA6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**	**NIMS R/T SELECT**	**4R3**	**4**	**0**	**3,886,043:30:0**
517	97	86	00:18:59.466	125DI	NIMSINIT	GS	##### GROUP START INIT	4R3	4	0	3,886,043:84:0
518	97	86	00:18:59.466	125DI11A	NIMSINIT	GE	##### GROUP END INIT	4R3	4	0	3,886,043:84:0
519	**97**	**86**	**00:18:59.466**	**125DI4A**	**37IST**	**0,2,1,OFF,1,0,1**	**OPCAL**	**4R3**	**4**	**0**	**3,886,043:84:0**
520	97	86	00:21:00.800	125DJ11A	NIMSINIT	GE	##### GROUP END INIT	4R3	4	0	3,886,045:84:0
521	97	86	00:21:00.800	125DJ	NIMSINIT	GS	##### GROUP START INIT	4R3	4	0	3,886,045:84:0
522	**97**	**86**	**00:21:00.800**	**125DJ4A**	**37IST**	**0,2,1,OFF,1,0,1**	**OPCAL**	**4R3**	**4**	**0**	**3,886,045:84:0**
523	**97**	**86**	**00:21:24.133**	**432DI6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**4R3**	**4**	**0**	**3,886,046:28:0**
524	97	86	00:22:01.466	125EU11A	NIMSINIT	GE	##### GROUP END INIT	4R3	4	0	3,886,046:84:0
525	**97**	**86**	**00:22:01.466**	**125EU4A**	**37MB**	**0,0,0,0,0,0**	**Selects mirror (spatial) edit table**	**4R3**	**4**	**0**	**3,886,046:84:0**
526	97	86	00:22:01.466	125EU	NIMSINIT	GS	##### GROUP START INIT	4R3	4	0	3,886,046:84:0
527	97	86	00:23:02.133	127DX	NIMSTAB	GS	%%%%% GROUP START TAB	4R3	4	0	3,886,047:84:0
528	**97**	**86**	**00:23:02.133**	**127DX4A**	**37IOP**	**0,0**	**Safe, Grating Start Position =00**	**4R0**	**4**	**0**	**3,886,047:84:0**
529	**97**	**86**	**00:23:02.800**	**127DX4B**	**37ETB**	**04,C4,02,00,00**	**Loads wavelength edit table**	**4R0**	**4**	**0**	**3,886,047:85:0**
530	97	86	00:23:12.800	127DX11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R0	4	0	3,886,048:09:0
531	**97**	**86**	**00:24:02.800**	**125FZ4A**	**37IST**	**1,0,0,OFF,0,0,0**	**Chopper ON, Sync, 63Hz (Ref)**	**460**	**4**	**0**	**3,886,048:84:0**
532	97	86	00:24:02.800	125FZ	NIMSINIT	GS	##### GROUP START INIT	460	4	0	3,886,048:84:0
533	97	86	00:25:03.466	125FZ11A	NIMSINIT	GE	##### GROUP END INIT	460	4	0	3,886,049:84:0
534	**97**	**86**	**00:25:03.466**	**125FZ4B**	**37IST**	**1,1,0,OFF,0,0,0**	**Chopper OFF, N/A, 63Hz (Ref)**	**4O0**	**4**	**0**	**3,886,049:84:0**
535	97	86	01:31:24.133	488DC6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	3,886,115:49:0
536	97	86	02:20:28.133	488DC6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	3,886,164:06:0
537	97	86	03:26:36.133	488DC6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,886,229:43:0
538	97	86	03:44:00.133	488DD6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,886,246:62:0
539	97	86	03:50:04.133	488DD6B	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,886,252:62:0
540	97	86	04:34:28.800	488DD6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,886,296:55:0
541	97	86	05:13:16.133	488DD6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,886,334:88:0
542	97	86	06:00:00.133	418JK6B	6BUFHI		4 MUB Buffer high water	4O0	4	0	3,886,381:17:0
543	97	86	06:00:00.133	418JK6A	6BUFLO		2 MUB Buffer low water m	4O0	4	0	3,886,381:17:0
544	97	86	07:44:58.133	176SI6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	4O0	4	0	3,886,485:00:0
545	97	86	07:50:00.133	41WG99A	**POWER**	**PWR MODE change**	Change to Calib/Decon Mode	4O0	4	0	3,886,489:89:0
546	**97**	**86**	**07:50:04.133**	**41WG3G**	**37F2PR**		**1 Shield Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,886,490:04:0**
547	**97**	**86**	**07:50:14.133**	**41WG3H**	**37F2PR**		**2 Shield Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,886,490:19:0**
548	**97**	**86**	**07:50:24.133**	**41WG3I**	**40T1PR**		**1 PCT Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**3,886,490:34:0**

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters		Description	GCM	GO	GS	RIM	MF I
549	**97**	**86**	**07:50:34.133**	**41WG3J**	**40T1PR**		**2**	**PCT Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**3,886,490:49:0**	
550	**97**	**86**	**07:50:44.133**	**41WG3K**	**40T2R**		**1**	**PCT Heater 2 OFF**	**4O0**	**4**	**0**	**3,886,490:64:0**	
551	**97**	**86**	**07:50:54.133**	**41WG3L**	**40T2R**		**2**	**PCT Heater 2 OFF**	**4O0**	**4**	**0**	**3,886,490:79:0**	
552	97	86	08:43:41.466	488DD6E	6TMSED	FILL,AL4		Sci, Eng, and D/L Chan	4O0	4	0	3,886,543:07:0	
553	97	86	08:50:52.133	488DE6A	6TMSED	FILL,AL2		Sci, Eng, and D/L Chan	4O0	4	0	3,886,550:16:0	
554	97	86	11:53:30.800	488DE6B	6TMSED	NORM,AL2		Sci, Eng, and D/L Chan	4O0	4	0	3,886,730:74:0	
555	97	86	11:58:36.133	488DE6C	6TMSED	NORM,AL3		Sci, Eng, and D/L Chan	4O0	4	0	3,886,735:77:0	
556	97	86	12:54:04.133	488DE6D	6TMSED	NORM,AL4		Sci, Eng, and D/L Chan	4O0	4	0	3,886,790:64:0	
557	97	86	13:18:50.133	488DE6E	6TMSED	FILL,AL4		Sci, Eng, and D/L Chan	4O0	4	0	3,886,815:18:0	
558	97	86	13:52:29.466	488DF6A	6TMSED	NORM,AL4		Sci, Eng, and D/L Chan	4O0	4	0	3,886,848:44:0	
559	97	86	15:40:00.133	41WH99A	**POWER**	**PWR MODE change**		Change to Maneuver/Playback Mode	4O0	4	0	3,886,954:74:0	
560	**97**	**86**	**15:40:04.133**	**41WH3K**	**37F2PR**		**1**	**Shield Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,886,954:80:0**	
561	**97**	**86**	**15:40:14.133**	**41WH3L**	**37F2PR**		**2**	**Shield Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,886,955:04:0**	
562	**97**	**86**	**15:42:24.133**	**41WH3G**	**40T1P**		**1**	**PCT Heater 1 ON (primary relay)**	**4O0**	**4**	**0**	**3,886,957:17:0**	
563	**97**	**86**	**15:42:34.133**	**41WH3H**	**40T1P**		**2**	**PCT Heater 1 ON (primary relay)**	**4O0**	**4**	**0**	**3,886,957:32:0**	
564	**97**	**86**	**15:42:44.133**	**41WH3I**	**40T2**		**1**	**PCT Heater 2 ON**	**4O0**	**4**	**0**	**3,886,957:47:0**	
565	**97**	**86**	**15:42:54.133**	**41WH3J**	**40T2**		**2**	**PCT Heater 2 ON**	**4O0**	**4**	**0**	**3,886,957:62:0**	
566	97	86	15:50:04.133	20UY4A	**7SAFE**	**STOP**		S/P NO MOVEMENT	4O0	4	0	3,886,964:70:0	
567	97	86	15:50:54.133	20UY4B	7SLEW	DIS,POS,0.0		Stator movement	4O0	4	0	3,886,965:54:0	
568	97	86	15:51:18.800	176SJ6A	6TMREC	**RPB**		RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	3,886,966:00:0	
569	97	86	16:14:33.466	488DF6B	6TMSED	FILL,AL4		Sci, Eng, and D/L Chan	4O0	4	0	3,886,988:90:0	
570	97	86	16:33:12.133	488DF6C	6TMSED	NORM,AL4		Sci, Eng, and D/L Chan	4O0	4	0	3,887,007:39:0	
571	97	86	16:44:28.133	488DF6D	6TMSED	NORM,AL5		Sci, Eng, and D/L Chan	4O0	4	0	3,887,018:52:0	
572	97	86	17:51:34.800	488DF6E	6TMSED	FILL,AL5		Sci, Eng, and D/L Chan	4O0	4	0	3,887,084:86:0	
573	97	86	18:14:04.133	488DG6A	6TMSED	FILL,AL6		Sci, Eng, and D/L Chan	4O0	4	0	3,887,107:17:0	
574	97	86	18:19:06.800	488DG6B	6TMSED	NORM,AL6		Sci, Eng, and D/L Chan	4O0	4	0	3,887,112:16:0	
575	97	86	18:33:16.133	488DG6C	6TMSED	NORM,AL7		Sci, Eng, and D/L Chan	4O0	4	0	3,887,126:16:0	
576	97	86	21:47:13.466	176PA6A	6TMREC	**PPB**		PAUSE PLAYBACK (PB CONTROL) Record Mode C	4O0	4	0	3,887,318:00:0	
577	97	86	22:19:22.133	488DG6D	6TMSED	FILL,AL7		Sci, Eng, and D/L Chan	4O0	4	0	3,887,349:72:0	
578	97	86	22:21:32.133	488DG6E	6TMSED	FILL,AL3		Sci, Eng, and D/L Chan	4O0	4	0	3,887,351:85:0	
579	97	87	00:44:10.066	176PB6A	6TMREC	**RPB**		RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	3,887,493:00:0	
580	97	87	04:00:00.066	418JL6A	6BUFLO		2	MUB Buffer low water m	4O0	4	0	3,887,686:62:0	
581	97	87	04:00:00.066	418JL6B	6BUFHI		10	MUB Buffer high water	4O0	4	0	3,887,686:62:0	
582	97	87	04:29:35.400	488DH6A	6TMSED	NORM,AL3		Sci, Eng, and D/L Chan	4O0	4	0	3,887,715:86:0	
583	97	87	05:04:44.066	488DH6B	6TMSED	NORM,AL4		Sci, Eng, and D/L Chan	4O0	4	0	3,887,750:64:0	
584	97	87	07:00:00.066	481UG4A	7VECT	BB1		Inert vect update UTC	4O0	4	0	3,887,864:64:0	
585	97	87	11:26:36.066	488DI6A	6TMSED	NORM,AL3		Sci, Eng, and D/L Chan	4O0	4	0	3,888,128:34:0	
586	97	87	12:43:24.066	488DI6B	6TMSED	NORM,AL4		Sci, Eng, and D/L Chan	4O0	4	0	3,888,204:30:0	
587	97	87	13:13:42.066	488DI6C	6TMSED	FILL,AL4		Sci, Eng, and D/L Chan	4O0	4	0	3,888,234:27:0	
588	97	87	13:47:21.400	488DI6D	6TMSED	NORM,AL4		Sci, Eng, and D/L Chan	4O0	4	0	3,888,267:53:0	
589	97	87	14:56:32.066	176SP6A	6TMREC	**PPB**		PAUSE PLAYBACK (PB CONTROL) Record Mode C	4O0	4	0	3,888,336:00:0	
590	97	87	14:59:34.066	176KB6A	6TMREC	ORT		OPNAV - REAL TIME Record Mode Change	4O0	4	0	3,888,339:00:0	
591	97	87	15:03:35.400	165KC4A	7TMOT	DIS,TMC		Disable IVP - Target Motion	4O0	4	0	3,888,342:89:0	
592	97	87	15:03:36.066	165KC4B	7SCAN	NORM,191.153,-6.		Check S/P Position	4O0	4	0	3,888,342:90:0	
593	97	87	15:38:58.733	165KD4A	7TMOT	DIS,TMC		Disable IVP - Target Motion	4O0	4	0	3,888,377:89:0	
594	97	87	15:38:59.400	165KD4B	7SCAN	NORM,191.261999,		Check S/P Position	4O0	4	0	3,888,377:90:0	
595	97	87	16:16:04.066	20UZ4A	**7SAFE**	**STOP**		S/P NO MOVEMENT	4O0	4	0	3,888,414:60:0	
596	97	87	16:16:54.066	20UZ4B	7SLEW	DIS,POS,0.0		Stator movement	4O0	4	0	3,888,415:44:0	
597	97	87	16:17:25.400	176SQ6A	6TMREC	**RPB**		RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	3,888,416:00:0	
598	97	87	16:23:08.066	488DI6E	6TMSED	NORM,AL6		Sci, Eng, and D/L Chan	4O0	4	0	3,888,421:59:0	
599	97	87	17:33:32.066	488DJ6A	6TMSED	NORM,AL7		Sci, Eng, and D/L Chan	4O0	4	0	3,888,491:25:0	
600	97	87	18:15:54.066	488DJ6B	6TMSED	FILL,AL7		Sci, Eng, and D/L Chan	4O0	4	0	3,888,533:16:0	
601	97	87	18:18:20.066	488DJ6C	6TMSED	FILL,AL8		Sci, Eng, and D/L Chan	4O0	4	0	3,888,535:53:0	
602	97	87	18:20:00.066	488DJ6D	6TMSED	NORM,AL8		Sci, Eng, and D/L Chan	4O0	4	0	3,888,537:21:0	
603	97	87	19:45:48.066	488DJ6E	6TMSED	NORM,AL7		Sci, Eng, and D/L Chan	4O0	4	0	3,888,622:08:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
604	97	87	19:59:52.066	176SM6A	6TMREC	**TPB**	TERMINATE PLAYBACK (PB CONTROL) Record Mo	4O0	4	0	3,888,636:00:0	
605	97	87	20:05:00.066	488DK6A	6TMSED	NORM,AH7	Sci, Eng, and D/L Chan	4O0	4	0	3,888,641:07:0	
606	97	87	20:22:00.066	20WA4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	3,888,657:81:0	
607	97	87	20:23:00.066	20WA4D	**7MODE**	**SPNL**	AACS ALL-SPIN LOW	4O0	4	0	3,888,658:80:0	
608	97	87	20:25:00.066	20WA4E	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	4O0	4	0	3,888,660:78:0	
609	97	87	20:30:30.066	20WA4G	7VENT	0.611,1.333,8	ALERT -- Thruster fire	4O0	4	0	3,888,666:27:0	
610	97	87	20:30:30.733	20WA4H	7VENT	0.611,10.989,8	ALERT -- Thruster fire	4O0	4	0	3,888,666:28:0	
611	97	87	20:30:50.733	20WA4I	7VENT	0.611,1.333,6	ALERT -- Thruster fire	4O0	4	0	3,888,666:58:0	
612	97	87	20:30:51.400	20WA4J	7VENT	0.611,10.989,6	ALERT -- Thruster fire	4O0	4	0	3,888,666:59:0	
613	97	87	20:31:11.400	20WA4K	7VENT	0.611,1.333,4	ALERT -- Thruster fire	4O0	4	0	3,888,666:89:0	
614	97	87	20:31:12.066	20WA4L	7VENT	0.611,0.666,5	ALERT -- Thruster fire	4O0	4	0	3,888,666:90:0	
615	97	87	20:31:22.066	20WA4M	7VENT	0.611,1.333,4	ALERT -- Thruster fire	4O0	4	0	3,888,667:14:0	
616	97	87	20:31:22.733	20WA4N	7VENT	0.611,0.666,5	ALERT -- Thruster fire	4O0	4	0	3,888,667:15:0	
617	97	87	20:31:32.733	20WA4O	7VENT	1.211,1.333,10	ALERT -- Thruster fire	4O0	4	0	3,888,667:30:0	
618	97	87	20:31:33.400	20WA4P	7VENT	1.211,0.666,12	ALERT -- Thruster fire	4O0	4	0	3,888,667:31:0	
619	97	87	20:33:20.066	20WA4S	7VENT	0.611,1.333,7	ALERT -- Thruster fire	4O0	4	0	3,888,669:09:0	
620	97	87	20:33:20.733	20WA4T	7VENT	0.611,10.989,7	ALERT -- Thruster fire	4O0	4	0	3,888,669:10:0	
621	97	87	20:33:40.733	20WA4U	7VENT	0.611,1.333,1	ALERT -- Thruster fire	4O0	4	0	3,888,669:40:0	
622	97	87	20:33:41.400	20WA4V	7VENT	0.611,10.989,1	ALERT -- Thruster fire	4O0	4	0	3,888,669:41:0	
623	97	87	20:34:01.400	20WA4AC	7VENT	0.611,1.333,2	ALERT -- Thruster fire	4O0	4	0	3,888,669:71:0	
624	97	87	20:34:02.066	20WA4AD	7VENT	0.611,0.666,3	ALERT -- Thruster fire	4O0	4	0	3,888,669:72:0	
625	97	87	20:34:12.066	20WA4AE	7VENT	0.611,1.333,2	ALERT -- Thruster fire	4O0	4	0	3,888,669:87:0	
626	97	87	20:34:12.733	20WA4AF	7VENT	0.611,0.666,3	ALERT -- Thruster fire	4O0	4	0	3,888,669:88:0	
627	97	87	20:34:22.733	20WA4W	7VENT	1.211,1.333,9	ALERT -- Thruster fire	4O0	4	0	3,888,670:12:0	
628	97	87	20:34:23.400	20WA4X	7VENT	1.211,0.666,11	ALERT -- Thruster fire	4O0	4	0	3,888,670:13:0	
629	97	87	20:35:20.066	20WA4Z	**7MODE**	**CRU**	AACS CRUISE MODE	4O0	4	0	3,888,671:07:0	
630	97	87	20:50:00.066	41WJ99A	**POWER**	**PWR MODE change**	Change to Data Taking Mode	4O0	4	0	3,888,685:53:0	
631	**97**	**87**	**20:50:04.066**	**41WJ3K**	**37F2PR**	**1**	**Shield Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,888,685:59:0**	
632	**97**	**87**	**20:50:14.066**	**41WJ3L**	**37F2PR**	**2**	**Shield Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,888,685:74:0**	
633	**97**	**87**	**20:50:24.066**	**41WJ3A**	**40T1PR**	**1**	**PCT Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**3,888,685:89:0**	
634	**97**	**87**	**20:50:34.066**	**41WJ3B**	**40T1PR**	**2**	**PCT Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**3,888,686:13:0**	
635	**97**	**87**	**20:50:44.066**	**41WJ3C**	**40T2R**	**1**	**PCT Heater 2 OFF**	**4O0**	**4**	**0**	**3,888,686:28:0**	
636	**97**	**87**	**20:50:54.066**	**41WJ3D**	**40T2R**	**2**	**PCT Heater 2 OFF**	**4O0**	**4**	**0**	**3,888,686:43:0**	
637	97	87	21:01:59.400	432OB431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	4O0	4	0	3,888,697:40:0	
638	97	87	21:02:00.066	432OB6A	6RTSL1		R/T Select of DDS and	4O0	4	0	3,888,697:41:0	
639	97	87	21:02:33.400		DMS:	: *SLEW-TIC	P7, TRACK *1, *FWD, TIC 4247.00 +/-	4O0	4	0	3,888,698:00:0	
640	97	87	21:02:33.400	465WA6A	6DMST	5000	DMS Slew to TIC	4O0	4	0	3,888,698:00:0	
641	97	87	21:11:38.066	165BJ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4O0	4	0	3,888,706:89:0	
642	97	87	21:11:38.733	165BJ4B	7SCAN	NORM,202.424,-11	Check S/P Position	4O0	4	0	3,888,706:90:0	
643	97	87	21:19:12.066	488DK6B	6TMSED	FILL,AH7	Sci, Eng, and D/L Chan	4O0	4	0	3,888,714:42:0	
644	97	87	21:43:44.733	488DK6C	6TMSED	NORM,AH7	Sci, Eng, and D/L Chan	4O0	4	0	3,888,738:67:0	
645	97	87	22:15:00.066	488DK6D	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	3,888,769:59:0	
646	97	88	01:35:40.066	488DK6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	3,888,968:10:0	
647	97	88	02:11:56.066	488DL6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	3,889,003:89:0	
648	97	88	02:56:14.733	465WB6A	6DMSC	P100,4	DMS Control Tape P/B 100.8kbps	4O0	4	0	3,889,047:73:0	
649	97	88	03:22:06.733	465WB6B	6DMSC	RDY,4	DMS Control Tape stop	4O0	4	0	3,889,073:35:0	
650	97	88	03:26:36.066	488DL6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,889,077:75:0	
651	97	88	03:39:21.400	488DL6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,889,090:40:0	
652	97	88	03:45:48.066	488DL6D	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,889,096:74:0	
653	97	88	04:24:43.400	488DL6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,889,135:28:0	
654	97	88	04:58:20.000	488DM6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,889,168:50:0	
655	97	88	05:30:00.000	488DM6B	6TMSED	NORM,AH4	Sci, Eng, and D/L Chan	4O0	4	0	3,889,199:79:0	
656	97	88	05:30:01.333	465WC6A	6DTRN	CMD,6DTRN,465WC6	DMS TRACK TURNAROUND	4O0	4	0	3,889,199:81:0	
657	97	88	05:40:04.000	465WD6A	6DMSC	P100,1	DMS Control Tape P/B 100.8kbps	4O0	4	0	3,889,209:75:0	
658	97	88	06:11:58.000	465WD6B	6DMSC	RDY,1	DMS Control Tape stop	4O0	4	0	3,889,241:34:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
659	97	88	06:27:34.000	465WE6A	6DMSC	P100,2	DMS Control Tape P/B 100.8kbps	4O0	4	0	3,889,256:73:0	
660	97	88	06:59:42.000	465WF6A	6DMSC	P100,3	DMS Control Tape P/B 100.8kbps	4O0	4	0	3,889,288:53:0	
661	97	88	07:31:42.666	465WF6B	6DMSC	RDY,3	DMS Control Tape stop	4O0	4	0	3,889,320:22:0	
662	97	88	07:46:26.000	465WG6A	6DMSC	P100,4	DMS Control Tape P/B 100.8kbps	4O0	4	0	3,889,334:73:0	
663	97	88	08:18:33.333	465WH6A	6DMSC	P100,3	DMS Control Tape P/B 100.8kbps	4O0	4	0	3,889,366:52:0	
664	97	88	08:19:39.333	465WH6B	6DMSC	RDY,3	DMS Control Tape stop	4O0	4	0	3,889,367:60:0	
665	97	88	08:34:09.333	465WI6A	6DMSC	RDY,4	DMS Control Tape stop	4O0	4	0	3,889,382:00:0	
666	97	88	08:35:03.333	465WJ6A	6DTRN	CMD,6DTRN,465WJ6	DMS TRACK TURNAROUND	4O0	4	0	3,889,382:81:0	
667	97	88	09:02:00.000	488DM6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,889,409:49:0	
668	97	88	11:26:36.000	488DN6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,889,552:50:0	
669	97	88	12:39:08.000	488DN6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,889,624:26:0	
670	97	88	13:08:34.000	488DN6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,889,653:36:0	
671	97	88	13:42:13.333	488DN6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,889,686:62:0	
672	97	88	14:59:23.333		DMS:	: *SLEW-TIC	P7, TRACK 1, FWD, TIC 201.62 +/-	4O0	4	0	3,889,763:00:0	
673	97	88	14:59:23.333	465KY6A	6DMST	5625	DMS Slew to TIC	4O0	4	0	3,889,763:00:0	
674	97	88	15:32:45.333	176KC6A	6TMREC	ORT	OPNAV - REAL TIME Record Mode Change	4O0	4	0	3,889,796:00:0	
675	97	88	15:38:48.000	165KE4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4O0	4	0	3,889,801:89:0	
676	97	88	15:38:48.666	165KE4B	7SCAN	NORM,202.816999,	Check S/P Position	4O0	4	0	3,889,801:90:0	
677	97	88	16:14:11.333	165KF4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4O0	4	0	3,889,836:89:0	
678	97	88	16:14:12.000	165KF4B	7SCAN	NORM,202.882,-11	Check S/P Position	4O0	4	0	3,889,836:90:0	
679	97	88	16:23:08.000	488DN6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	3,889,845:75:0	
680	97	88	17:59:08.000	488DO6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	3,889,940:70:0	
681	97	88	18:38:46.666	165KG4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4O0	4	0	3,889,979:89:0	
682	97	88	18:38:47.333	165KG4B	7SCAN	NORM,204.106998,	Check S/P Position	4O0	4	0	3,889,979:90:0	
683	97	88	18:39:48.666	176KD6A	6TMREC	ORT	OPNAV - REAL TIME Record Mode Change	4O0	4	0	3,889,981:00:0	
684	97	88	19:14:10.000	165KH4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4O0	4	0	3,890,014:89:0	
685	97	88	19:14:10.666	165KH4B	7SCAN	NORM,204.169998,	Check S/P Position	4O0	4	0	3,890,014:90:0	
686	97	88	19:45:48.000	488DO6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	3,890,046:24:0	
687	97	88	19:52:41.333	488DO6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	3,890,053:07:0	
688	97	88	20:24:31.333	488DO6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	3,890,084:51:0	
689	97	88	21:01:20.666	165BK4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4O0	4	0	3,890,120:89:0	
690	97	88	21:01:21.333	165BK4B	7SCAN	NORM,221.787998,	Check S/P Position	4O0	4	0	3,890,120:90:0	
691	97	88	21:29:40.666	465KZ6A	6DMSC	RDY,4	DMS Control Tape stop	4O0	4	0	3,890,149:00:0	
692	97	89	00:00:00.000	481UA4A	7VECT		Inert vect update UTC	4O0	4	0	3,890,297:61:0	
693	97	89	01:28:18.000	176KE6A	6TMREC	ORT	OPNAV - REAL TIME Record Mode Change	4O0	4	0	3,890,385:00:0	
694	97	89	01:33:20.000	165KI4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4O0	4	0	3,890,389:89:0	
695	97	89	01:33:20.666	165KI4B	7SCAN	NORM,206.855,-12	Check S/P Position	4O0	4	0	3,890,389:90:0	
696	97	89	02:05:32.000	488DP6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,890,421:75:0	
697	97	89	02:08:43.333	165KJ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4O0	4	0	3,890,424:89:0	
698	97	89	02:08:44.000	165KJ4B	7SCAN	NORM,206.907999,	Check S/P Position	4O0	4	0	3,890,424:90:0	
699	97	89	03:05:20.666	165BL4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4O0	4	0	3,890,480:89:0	
700	97	89	03:05:21.333	165BL4B	7SCAN	NORM,221.787998,	Check S/P Position	4O0	4	0	3,890,480:90:0	
701	97	89	03:34:12.666	488DP6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,890,509:48:0	
702	97	89	03:41:32.000	488DP6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,890,516:70:0	
703	97	89	04:28:52.000	488DP6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,890,563:53:0	
704	97	89	04:39:08.000	488DP6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,890,573:67:0	
705	97	89	05:06:24.666	488DQ6A	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,890,600:65:0	
706	97	89	05:43:28.666	488DQ6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,890,637:34:0	
707	97	89	05:51:24.666	488DQ6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,890,645:20:0	
708	97	89	06:23:40.000	488DQ6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,890,677:11:0	
709	97	89	06:27:34.666	488DQ6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,890,680:90:0	
710	97	89	09:50:36.000	488DR6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,890,881:71:0	
711	97	89	12:34:51.933	488DR6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,891,044:22:0	
712	97	89	12:58:25.933	488DR6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,891,067:50:0	
713	97	89	13:37:05.266	488DR6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,891,105:71:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
714	97	89	15:20:03.933	20UA4A	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	4O0	4	0	3,891,207:57:0	
715	97	89	15:59:59.933		DMS:	: READY	RDY, TRACK 4, REV, TIC 5625.00 +/-	4O0	4	0	3,891,247:11:0	
716	**97**	**89**	**16:00:00.000**	**20A3EX**	**37HR**	**Final Condition**	**Replacement Heaters OFF**	**4O0**	**4**	**0**	**3,891,247:11:1**	
717	**97**	**89**	**16:00:00.000**	**20A3EY**	**37C1PR**	**Final Condition**	**Optics Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**3,891,247:11:1**	
718	**97**	**89**	**16:00:00.000**	**20A3EZ**	**37C2PR**	**Final Condition**	**Optics Heater 2 OFF (primary relay)**	**4O0**	**4**	**0**	**3,891,247:11:1**	
719	**97**	**89**	**16:00:00.000**	**20A3FA**	**37F1PR**	**Final Condition**	**Radiator Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,891,247:11:1**	
720	**97**	**89**	**16:00:00.000**	**20A3FB**	**37F2PR**	**Final Condition**	**Shield Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,891,247:11:1**	
721	**97**	**89**	**16:00:00.000**	**20A3FD**	**40HRPR**	**Final Condition**	**RCT Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,891,247:11:1**	
722	**97**	**89**	**16:00:00.000**	**20A3FE**	**40T1PR**	**Final Condition**	**PCT Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**3,891,247:11:1**	
723	**97**	**89**	**16:00:00.000**	**20A3FF**	**40T2R**	**Final Condition**	**PCT Heater 2 OFF**	**4O0**	**4**	**0**	**3,891,247:11:1**	
724	**97**	**89**	**16:00:00.000**	**20A3EW**	**37A**	**Final Condition**	**NIMS Power ON**	**4O0**	**4**	**0**	**3,891,247:11:1**	

E6JNAURORA01

OAPEL: E6JNAURORA01 ALIAS: E6JNAURORA01
EXT: R PSID: FH
SCLK1: 03834085:00:0 SCLK2: 03834085:12:0
SCET1: 1997-049/12:42:46.733 SCET2: 1997-049/12:42:54.733
TARGET: JUPITER PARTITION: 1

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

MB_DOWN: 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

E6JNFEA06401

```
OAPEL:  E6JNFEA06401            ALIAS:  E6JNFEA06401
EXT:    A                       PSID:   DB
SCLK1:  03835467:00:0           SCLK2:  03835468:58:0
SCET1:    97-050/12:00:08.174   SCET2:    97-050/12:01:47.508
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	01100	0,0001,0001,0000,0000
2	10000	1,0000,0000,0000,0000
3	00800	0,0000,1000,0000,0000
4	00000	0,0000,0000,0000,0000
5	00000	0,0000,0000,0000,0000
6	00000	0,0000,0000,0000,0000

E6JNFEA06402

```
OAPEL:  E6JNFEA06402            ALIAS:  E6JNFEA06402
EXT:    A                       PSID:   DC
SCLK1:  03835483:00:0           SCLK2:  03835484:58:0
SCET1:    97-050/12:16:18.840   SCET2:    97-050/12:17:58.173
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:    20                 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:     0507020001          05  07  020  001
WTGRP_SIZ:  7
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	00000	0,0000,0000,0000,0000
1	11D00	1,0001,1101,0000,0000
2	19900	1,1001,1001,0000,0000
3	01900	0,0001,1001,0000,0000
4	0B810	0,1011,1000,0001,0000
5	00C00	0,0000,1100,0000,0000
6	00000	0,0000,0000,0000,0000

E6JNFEA06403

```
OAPEL:  E6JNFEA06403              ALIAS:  E6JNFEA06403
EXT:    A                         PSID:   DE
SCLK1:  03835550:00:0             SCLK2:  03835551:58:0
SCET1:    97-050/13:24:03.505     SCET2:    97-050/13:25:42.838
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	01100	0,0001,0001,0000,0000
2	10000	1,0000,0000,0000,0000
3	00800	0,0000,1000,0000,0000
4	00000	0,0000,0000,0000,0000
5	00000	0,0000,0000,0000,0000
6	00000	0,0000,0000,0000,0000

E6NNHNDARK01

```
OAPEL:  E6NNHNDARK01              ALIAS:  E6NNHNDARK01
EXT:    A                         PSID:   DF
SCLK1:  03835957:90:0             SCLK2:  03835958:90:0
SCET1:    97-050/20:16:34.822     SCET2:    97-050/20:17:35.489
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:        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

E6ENCHEMIS01

```
OAPEL:  E6ENCHEMIS01            ALIAS:  E6INCHEMIS01
EXT:    A                       PSID:   DG
SCLK1:  03835974:90:0           SCLK2:  03835976:64:0
SCET1:    97-050/20:33:46.155   SCET2:    97-050/20:35:30.155
TARGET: EUROPA                  PARTITION: 1

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

MB_DOWN:    00000               MB_UP:      00000
COMP_FLAG:  1
EST_COMP:   2.0                 EST_COMPV:  0.3
RATE_CON1:  00000               RATE_CON2:  65525
NWAVETOT:    96                 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:     0326096001          03  26  096  001
WTGRP_SIZ:  26
```

EDIT TABLE

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

E6NNHEALTH01

```
OAPEL:  E6NNHEALTH01            ALIAS:  E6NNHEALTH01
EXT:    R                       PSID:   FY
SCLK1:  03836035:00:0           SCLK2:  03836035:12:0
SCET1:  1997-050/21:34:26.666   SCET2:  1997-050/21:34:34.666
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

E6JNFEA04801

```
OAPEL:  E6JNFEA04801            ALIAS:  E6JNFEA04801
EXT:    A                       PSID:   DH
SCLK1:  03836050:00:0           SCLK2:  03836051:58:0
SCET1:    97-050/21:49:36.819   SCET2:    97-050/21:51:16.153
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	01100	0,0001,0001,0000,0000
2	10000	1,0000,0000,0000,0000
3	00800	0,0000,1000,0000,0000
4	00000	0,0000,0000,0000,0000
5	00000	0,0000,0000,0000,0000
6	00000	0,0000,0000,0000,0000

E6JNPFTB4801

```
OAPEL:  E6JNPFTB4801            ALIAS:  E6JNPFTB4801
EXT:    A                       PSID:   FC
SCLK1:  03836093:00:0           SCLK2:  03836099:73:0
SCET1:    97-050/22:33:05.484   SCET2:    97-050/22:39:58.151
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	01100	0,0001,0001,0000,0000
2	10000	1,0000,0000,0000,0000
3	00800	0,0000,1000,0000,0000
4	00000	0,0000,0000,0000,0000
5	00000	0,0000,0000,0000,0000
6	00000	0,0000,0000,0000,0000

E6JNFEA04803

```
OAPEL:  E6JNFEA04803            ALIAS:  E6JNFEA04803
EXT:    A                       PSID:   DL
SCLK1:  03836159:00:0           SCLK2:  03836160:59:0
SCET1:    97-050/23:39:49.482   SCET2:    97-050/23:41:29.482
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	01100	0,0001,0001,0000,0000
2	10000	1,0000,0000,0000,0000
3	00800	0,0000,1000,0000,0000
4	00000	0,0000,0000,0000,0000
5	00000	0,0000,0000,0000,0000
6	00000	0,0000,0000,0000,0000

E6JNPFTB4802

```
OAPEL:  E6JNPFTB4802              ALIAS:  E6JNPFTB4802
EXT:    A                         PSID:   DN
SCLK1:  03836173:00:0             SCLK2:  03836179:74:0
SCET1:    97-050/23:53:58.814     SCET2:    97-051/00:00:52.000
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:    20                   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:     0507020001          05  07  020  001
WTGRP_SIZ:  7
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	00000	0,0000,0000,0000,0000
1	11D00	1,0001,1101,0000,0000
2	19900	1,1001,1001,0000,0000
3	01900	0,0001,1001,0000,0000
4	0B810	0,1011,1000,0001,0000
5	00C00	0,0000,1100,0000,0000
6	00000	0,0000,0000,0000,0000

E6JNRTHOTS01

```
OAPEL:  E6JNRTHOTS01            ALIAS:  E6JNRTHOTS01
EXT:    R                       PSID:   FJ
SCLK1:  03836385:00:0           SCLK2:  03836385:12:0
SCET1:  1997-051/03:28:20.000   SCET2:  1997-051/03:28:28.000
TARGET: JUPITER                 PARTITION: 1

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

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

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

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

EDIT TABLE

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

E6INCHEMIS02

```
OAPEL:  E6INCHEMIS02              ALIAS:  E6INCHEMIS02
EXT:    A                         PSID:   DO
SCLK1:  03836419:00:0             SCLK2:  03836422:41:0
SCET1:    97-051/04:02:42.805     SCET2:    97-051/04:06:12.139
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:   384                   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:     0326384001          03  26  384  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	1FDFF	1,1111,1101,1111,1111
3	1FDFF	1,1111,1101,1111,1111
4	1FDFF	1,1111,1101,1111,1111
5	1FDFF	1,1111,1101,1111,1111
6	1FDFF	1,1111,1101,1111,1111
7	1FDFF	1,1111,1101,1111,1111
8	1FDFF	1,1111,1101,1111,1111
9	1FDFF	1,1111,1101,1111,1111
10	1FDFF	1,1111,1101,1111,1111
11	1FDFF	1,1111,1101,1111,1111
12	1FDFF	1,1111,1101,1111,1111
13	1FDFF	1,1111,1101,1111,1111
14	1FDFF	1,1111,1101,1111,1111
15	1FDFF	1,1111,1101,1111,1111
16	1FDFF	1,1111,1101,1111,1111
17	1FDFF	1,1111,1101,1111,1111
18	1FDFF	1,1111,1101,1111,1111
19	1FDFF	1,1111,1101,1111,1111
20	1FDFF	1,1111,1101,1111,1111
21	1FDFF	1,1111,1101,1111,1111
22	1FDFF	1,1111,1101,1111,1111
23	1FDFF	1,1111,1101,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

E6NNHNDARK02

```
OAPEL:  E6NNHNDARK02              ALIAS:  E6NNHNDARK02
EXT:    A                         PSID:   DP
SCLK1:  03836498:00:0             SCLK2:  03836499:00:0
SCET1:    97-051/05:22:35.469     SCET2:    97-051/05:23:36.136
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:        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

E6JNFEA02001

```
OAPEL:  E6JNFEA02001            ALIAS:  E6JNFEA02001
EXT:    A                       PSID:   DQ
SCLK1:  03836641:00:0           SCLK2:  03836655:16:0
SCET1:    97-051/07:47:10.797   SCET2:    97-051/08:01:30.796
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:    20                 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:     0507020001          05  07  020  001
WTGRP_SIZ:  7
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	00000	0,0000,0000,0000,0000
1	11D00	1,0001,1101,0000,0000
2	19900	1,1001,1001,0000,0000
3	01900	0,0001,1001,0000,0000
4	0B810	0,1011,1000,0001,0000
5	00C00	0,0000,1100,0000,0000
6	00000	0,0000,0000,0000,0000

E6JNFEA02002

```
OAPEL:  E6JNFEA02002            ALIAS:  E6JNFEA02002
EXT:    A                       PSID:   DR
SCLK1:  03836669:00:0           SCLK2:  03836670:59:0
SCET1:    97-051/08:15:29.463   SCET2:    97-051/08:17:09.463
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

E6NNHEALTH02

```
OAPEL:  E6NNHEALTH02            ALIAS:  E6NNHEALTH02
EXT:    R                       PSID:   FX
SCLK1:  03836674:00:0           SCLK2:  03836674:12:0
SCET1:  1997-051/08:20:32.666   SCET2:  1997-051/08:20:40.666
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

E6JNFEA02003

```
OAPEL:  E6JNFEA02003            ALIAS:  E6JNFEA02003
EXT:    A                       PSID:   DS
SCLK1:  03836688:00:0           SCLK2:  03836701:59:0
SCET1:    97-051/08:34:42.129   SCET2:    97-051/08:48:30.129
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

E6JNFEASUB01

```
OAPEL:  E6JNFEASUB01              ALIAS:  E6JNFEASUB01
EXT:    A                         PSID:   DU
SCLK1:  03836762:00:0             SCLK2:  03836768:00:0
SCET1:    97-051/09:49:31.459     SCET2:    97-051/09:55:35.459
TARGET: JUPITER                   PARTITION: 1

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

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

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

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

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	11400	1,0001,0100,0000,0000
1	11400	1,0001,0100,0000,0000
2	11400	1,0001,0100,0000,0000
3	11400	1,0001,0100,0000,0000
4	11400	1,0001,0100,0000,0000
5	11400	1,0001,0100,0000,0000
6	11400	1,0001,0100,0000,0000
7	19400	1,1001,0100,0000,0000
8	1A400	1,1010,0100,0000,0000
9	1A400	1,1010,0100,0000,0000
10	0A400	0,1010,0100,0000,0000
11	0A400	0,1010,0100,0000,0000
12	0A400	0,1010,0100,0000,0000
13	0AC00	0,1010,1100,0000,0000
14	0A800	0,1010,1000,0000,0000
15	0A800	0,1010,1000,0000,0000
16	1A800	1,1010,1000,0000,0000
17	1A800	1,1010,1000,0000,0000
18	1A800	1,1010,1000,0000,0000
19	1A800	1,1010,1000,0000,0000
20	12800	1,0010,1000,0000,0000
21	12800	1,0010,1000,0000,0000
22	12800	1,0010,1000,0000,0000
23	12800	1,0010,1000,0000,0000
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

E6ENEURORT01

```
OAPEL:  E6ENEURORT01            ALIAS:  E6ENEURORT01
EXT:    R                       PSID:   FK
SCLK1:  03836891:00:0           SCLK2:  03836892:12:0
SCET1:  1997-051/11:59:57.333   SCET2:  1997-051/12:01:06.000
TARGET: EUROPA                  PARTITION: 1

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

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

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

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

EDIT TABLE

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

E6ENTERINC01

```
OAPEL:  E6ENTERINC01              ALIAS:  E6ENTERINC01
EXT:    B                         PSID:   DG
SCLK1:  03836904:23:0             SCLK2:  03836910:38:0
SCET1:    97-051/12:13:21.454     SCET2:    97-051/12:19:35.454
TARGET: EUROPA                    PARTITION: 1

MODE:       1                     GAIN:       2
CHOP:       1                     GRAT_OFF:   4
PTAB_A:     1 1 0 0 212           PTAB_B:     1 1 0 0 212
ECAL:       0                     OPCAL:      0
R/T:        0                     RECORD:     1

MB_DOWN:    00000                 MB_UP:      00000
COMP_FLAG:  1
EST_COMP:   2.0                   EST_COMPV:  0.3
RATE_CON1:  00000                 RATE_CON2:  65525
NWAVETOT:   192                   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:     0113192001          01  13  192  001
WTGRP_SIZ:  13
```

EDIT TABLE

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

E6ENTERINC01

```
OAPEL:  E6ENTERINC01              ALIAS:  E6ENTERINC01
EXT:    A                         PSID:   DG
SCLK1:  03836912:08:0             SCLK2:  03836920:09:0
SCET1:    97-051/12:21:16.787     SCET2:    97-051/12:29:22.786
TARGET: EUROPA                    PARTITION: 1

MODE:       1                     GAIN:       3
CHOP:       1                     GRAT_OFF:   4
PTAB_A:     1 1 0 0 212           PTAB_B:     1 1 0 0 212
ECAL:       0                     OPCAL:      0
R/T:        0                     RECORD:     1

MB_DOWN:    00000                 MB_UP:      00000
COMP_FLAG:  1
EST_COMP:   2.0                   EST_COMPV:  0.3
RATE_CON1:  00000                 RATE_CON2:  65525
NWAVETOT:   192                   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:     0113192001          01  13  192  001
WTGRP_SIZ:  13
```

EDIT TABLE

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

E6INHRSPEC01

OAPEL: E6INHRSPEC01 ALIAS: E6INHRSPEC01
EXT: A PSID: FZ
SCLK1: 03836932:00:0 SCLK2: 03836936:66:0
SCET1: 97-051/12:41:24.786 SCET2: 97-051/12:46:11.453
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: 216 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: 0326216001 03 26 216 001
WTGRP_SIZ: 26

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	00180	0,0000,0001,1000,0000
1	1FDFF	1,1111,1101,1111,1111
2	00180	0,0000,0001,1000,0000
3	1FDFF	1,1111,1101,1111,1111
4	00180	0,0000,0001,1000,0000
5	1FDFF	1,1111,1101,1111,1111
6	00180	0,0000,0001,1000,0000
7	1FDFF	1,1111,1101,1111,1111
8	00180	0,0000,0001,1000,0000
9	1FDFF	1,1111,1101,1111,1111
10	00180	0,0000,0001,1000,0000
11	1FDFF	1,1111,1101,1111,1111
12	00180	0,0000,0001,1000,0000
13	1FDFF	1,1111,1101,1111,1111
14	00180	0,0000,0001,1000,0000
15	1FDFF	1,1111,1101,1111,1111
16	00180	0,0000,0001,1000,0000
17	1FDFF	1,1111,1101,1111,1111
18	00180	0,0000,0001,1000,0000
19	1FDFF	1,1111,1101,1111,1111
20	00180	0,0000,0001,1000,0000
21	1FDFF	1,1111,1101,1111,1111
22	00180	0,0000,0001,1000,0000
23	1FDFF	1,1111,1101,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

E6ENSUCOMP01

OAPEL: E6ENSUCOMP01 ALIAS: E6ENSUCOMP01
EXT: A PSID: DZ
SCLK1: 03837142:00:0 SCLK2: 03837149:88:0
SCET1: 97-051/16:13:44.779 SCET2: 97-051/16:21:48.112
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: 192 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: 0326192001 03 26 192 001
WTGRP_SIZ: 26

EDIT TABLE

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

E6ENSUCOMP02

OAPEL: E6ENSUCOMP02 ALIAS: E6ENSUCOMP02
EXT: A PSID: EA
SCLK1: 03837160:00:0 SCLK2: 03837167:90:0
SCET1: 97-051/16:31:56.779 SCET2: 97-051/16:40:01.333
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: 192 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: 0326192001 03 26 192 001
WTGRP_SIZ: 26

EDIT TABLE

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

E6ENSUCOMP02

```
OAPEL:  E6ENSUCOMP02              ALIAS:  E6ENSUCOMP02
EXT:    B                         PSID:   EA
SCLK1:  03837160:00:0             SCLK2:  03837167:90:0
SCET1:    97-051/16:31:56.779     SCET2:    97-051/16:40:01.333
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:    96                   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:     0326096001          03  26  096  001
WTGRP_SIZ:  26
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1FD00	1,1111,1101,0000,0000
1	00000	0,0000,0000,0000,0000
2	1FD00	1,1111,1101,0000,0000
3	00000	0,0000,0000,0000,0000
4	1FD00	1,1111,1101,0000,0000
5	00000	0,0000,0000,0000,0000
6	1FD00	1,1111,1101,0000,0000
7	00000	0,0000,0000,0000,0000
8	1FD00	1,1111,1101,0000,0000
9	00000	0,0000,0000,0000,0000
10	1FD00	1,1111,1101,0000,0000
11	00000	0,0000,0000,0000,0000
12	1FD00	1,1111,1101,0000,0000
13	00000	0,0000,0000,0000,0000
14	1FD00	1,1111,1101,0000,0000
15	00000	0,0000,0000,0000,0000
16	1FD00	1,1111,1101,0000,0000
17	00000	0,0000,0000,0000,0000
18	1FD00	1,1111,1101,0000,0000
19	00000	0,0000,0000,0000,0000
20	1FD00	1,1111,1101,0000,0000
21	00000	0,0000,0000,0000,0000
22	1FD00	1,1111,1101,0000,0000
23	00000	0,0000,0000,0000,0000
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

E6ENSUCOMP02

```
OAPEL:  E6ENSUCOMP02            ALIAS:  E6ENSUCOMP02
EXT:    C                       PSID:   EA
SCLK1:  03837160:00:0           SCLK2:  03837167:90:0
SCET1:    97-051/16:31:56.779   SCET2:    97-051/16:40:01.333
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:   288                 TLMFMT:     MPW

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

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

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1FD00	1,1111,1101,0000,0000
1	1FDFF	1,1111,1101,1111,1111
2	1FD00	1,1111,1101,0000,0000
3	1FDFF	1,1111,1101,1111,1111
4	1FD00	1,1111,1101,0000,0000
5	1FDFF	1,1111,1101,1111,1111
6	1FD00	1,1111,1101,0000,0000
7	1FDFF	1,1111,1101,1111,1111
8	1FD00	1,1111,1101,0000,0000
9	1FDFF	1,1111,1101,1111,1111
10	1FD00	1,1111,1101,0000,0000
11	1FDFF	1,1111,1101,1111,1111
12	1FD00	1,1111,1101,0000,0000
13	1FDFF	1,1111,1101,1111,1111
14	1FD00	1,1111,1101,0000,0000
15	1FDFF	1,1111,1101,1111,1111
16	1FD00	1,1111,1101,0000,0000
17	1FDFF	1,1111,1101,1111,1111
18	1FD00	1,1111,1101,0000,0000
19	1FDFF	1,1111,1101,1111,1111
20	1FD00	1,1111,1101,0000,0000
21	1FDFF	1,1111,1101,1111,1111
22	1FD00	1,1111,1101,0000,0000
23	1FDFF	1,1111,1101,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

E6INRTIMON01

```
OAPEL:  E6INRTIMON01            ALIAS:  E6INRTIMON01
EXT:    R                       PSID:   DT
SCLK1:  03837171:00:0           SCLK2:  03837171:12:0
SCET1:  1997-051/16:43:04.000   SCET2:  1997-051/16:43:12.000
TARGET: IO                      PARTITION: 1

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

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

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

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

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	12995	1,0010,1001,1001,0101
1	12995	1,0010,1001,1001,0101
2	12995	1,0010,1001,1001,0101
3	12995	1,0010,1001,1001,0101
4	12995	1,0010,1001,1001,0101
5	12995	1,0010,1001,1001,0101
6	12995	1,0010,1001,1001,0101
7	12995	1,0010,1001,1001,0101
8	12995	1,0010,1001,1001,0101
9	12995	1,0010,1001,1001,0101
10	12995	1,0010,1001,1001,0101
11	12995	1,0010,1001,1001,0101
12	00000	0,0000,0000,0000,0000

E6ENBRTPLN01

```
OAPEL:  E6ENBRTPLN01              ALIAS:  E6ESBRTPLN01
EXT:    A                         PSID:   IR
SCLK1:  03837175:03:0             SCLK2:  03837175:51:0
SCET1:    97-051/16:47:08.778     SCET2:    97-051/16:47:40.778
TARGET: EUROPA                    PARTITION: 1

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

MB_DOWN:    00000                 MB_UP:      00000
COMP_FLAG:  1
EST_COMP:   2.0                   EST_COMPV:  0.3
RATE_CON1:  00000                 RATE_CON2:  65525
NWAVETOT:   384                   TLMFMT:     IM8

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

WETGID:     0326384001          03  26  384  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	1FDFF	1,1111,1101,1111,1111
3	1FDFF	1,1111,1101,1111,1111
4	1FDFF	1,1111,1101,1111,1111
5	1FDFF	1,1111,1101,1111,1111
6	1FDFF	1,1111,1101,1111,1111
7	1FDFF	1,1111,1101,1111,1111
8	1FDFF	1,1111,1101,1111,1111
9	1FDFF	1,1111,1101,1111,1111
10	1FDFF	1,1111,1101,1111,1111
11	1FDFF	1,1111,1101,1111,1111
12	1FDFF	1,1111,1101,1111,1111
13	1FDFF	1,1111,1101,1111,1111
14	1FDFF	1,1111,1101,1111,1111
15	1FDFF	1,1111,1101,1111,1111
16	1FDFF	1,1111,1101,1111,1111
17	1FDFF	1,1111,1101,1111,1111
18	1FDFF	1,1111,1101,1111,1111
19	1FDFF	1,1111,1101,1111,1111
20	1FDFF	1,1111,1101,1111,1111
21	1FDFF	1,1111,1101,1111,1111
22	1FDFF	1,1111,1101,1111,1111
23	1FDFF	1,1111,1101,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

E6ENSEAICE01

```
OAPEL:  E6ENSEAICE01              ALIAS:  E6ENSEAICE01
EXT:    A                         PSID:   FM
SCLK1:  03837239:00:0             SCLK2:  03837240:04:0
SCET1:    97-051/17:51:49.442     SCET2:    97-051/17:52:52.776
TARGET: EUROPA                    PARTITION: 1

MODE:       7                     GAIN:       3
CHOP:       1                     GRAT_OFF:   4
PTAB_A:     1 1 0 0 012           PTAB_B:     1 1 0 0 012
ECAL:       0                     OPCAL:      0
R/T:        0                     RECORD:     1

MB_DOWN:    00000                 MB_UP:      00000
COMP_FLAG:  1
EST_COMP:   2.0                   EST_COMPV:  0.3
RATE_CON1:  00000                 RATE_CON2:  65525
NWAVETOT:    10                   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:     0713010001          07  13  010  001
WTGRP_SIZ:  13
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1FDC0	1,1111,1101,1100,0000
1	1FDC0	1,1111,1101,1100,0000
2	1FDC0	1,1111,1101,1100,0000
3	1FDC0	1,1111,1101,1100,0000
4	1FDC0	1,1111,1101,1100,0000
5	1FDC0	1,1111,1101,1100,0000
6	1FDC0	1,1111,1101,1100,0000
7	1FDC0	1,1111,1101,1100,0000
8	1FDC0	1,1111,1101,1100,0000
9	1FDC0	1,1111,1101,1100,0000
10	1FDC0	1,1111,1101,1100,0000
11	1FDC0	1,1111,1101,1100,0000
12	00000	0,0000,0000,0000,0000

E6ENSEAICE01

```
OAPEL:  E6ENSEAICE01              ALIAS:  E6ENSEAICE01
EXT:    B                         PSID:   FM
SCLK1:  03837245:26:0             SCLK2:  03837246:31:0
SCET1:    97-051/17:58:10.775     SCET2:    97-051/17:59:14.775
TARGET: EUROPA                    PARTITION: 1

MODE:       7                     GAIN:       3
CHOP:       1                     GRAT_OFF:   4
PTAB_A:     1 1 0 0 012           PTAB_B:     1 1 0 0 012
ECAL:       0                     OPCAL:      0
R/T:        0                     RECORD:     1

MB_DOWN:    00000                 MB_UP:      00000
COMP_FLAG:  1
EST_COMP:   2.0                   EST_COMPV:  0.3
RATE_CON1:  00000                 RATE_CON2:  65525
NWAVETOT:    10                   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:     0713010001          07  13  010  001
WTGRP_SIZ:  13
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1FDC0	1,1111,1101,1100,0000
1	1FDC0	1,1111,1101,1100,0000
2	1FDC0	1,1111,1101,1100,0000
3	1FDC0	1,1111,1101,1100,0000
4	1FDC0	1,1111,1101,1100,0000
5	1FDC0	1,1111,1101,1100,0000
6	1FDC0	1,1111,1101,1100,0000
7	1FDC0	1,1111,1101,1100,0000
8	1FDC0	1,1111,1101,1100,0000
9	1FDC0	1,1111,1101,1100,0000
10	1FDC0	1,1111,1101,1100,0000
11	1FDC0	1,1111,1101,1100,0000
12	00000	0,0000,0000,0000,0000

E6NNHEALTH03

```
OAPEL:  E6NNHEALTH03            ALIAS:  E6NNHEALTH03
EXT:    R                       PSID:   FW
SCLK1:  03837467:00:0           SCLK2:  03837467:12:0
SCET1:  1997-051/21:42:21.266   SCET2:  1997-051/21:42:29.266
TARGET: CAL                     PARTITION: 1

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

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

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

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

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	08044	0,1000,0000,0100,0100
1	00000	0,0000,0000,0000,0000
2	00000	0,0000,0000,0000,0000
3	00000	0,0000,0000,0000,0000
4	00000	0,0000,0000,0000,0000
5	00000	0,0000,0000,0000,0000
6	00000	0,0000,0000,0000,0000
7	00000	0,0000,0000,0000,0000
8	00000	0,0000,0000,0000,0000
9	00000	0,0000,0000,0000,0000
10	00000	0,0000,0000,0000,0000
11	00000	0,0000,0000,0000,0000
12	00000	0,0000,0000,0000,0000
13	00000	0,0000,0000,0000,0000
14	00000	0,0000,0000,0000,0000
15	00000	0,0000,0000,0000,0000
16	00000	0,0000,0000,0000,0000
17	00000	0,0000,0000,0000,0000
18	00000	0,0000,0000,0000,0000
19	00000	0,0000,0000,0000,0000
20	00000	0,0000,0000,0000,0000
21	00000	0,0000,0000,0000,0000
22	00000	0,0000,0000,0000,0000
23	00000	0,0000,0000,0000,0000
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

E6JNFEA03801

```
OAPEL:  E6JNFEA03801            ALIAS:  E6JNFEA03801
EXT:    A                       PSID:   ED
SCLK1:  03837491:83:0           SCLK2:  03837502:58:0
SCET1:    97-051/22:07:32.766   SCET2:    97-051/22:18:23.432
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

E6INCHEMIS06

OAPEL: E6INCHEMIS06 ALIAS: E6INCHEMIS06
EXT: A PSID: EE
SCLK1: 03837843:00:0 SCLK2: 03837845:64:0
SCET1: 97-052/04:02:32.086 SCET2: 97-052/04:05:16.086
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: 216 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: 0326216001 03 26 216 001
WTGRP_SIZ: 26

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	00180	0,0000,0001,1000,0000
1	1FDFF	1,1111,1101,1111,1111
2	00180	0,0000,0001,1000,0000
3	1FDFF	1,1111,1101,1111,1111
4	00180	0,0000,0001,1000,0000
5	1FDFF	1,1111,1101,1111,1111
6	00180	0,0000,0001,1000,0000
7	1FDFF	1,1111,1101,1111,1111
8	00180	0,0000,0001,1000,0000
9	1FDFF	1,1111,1101,1111,1111
10	00180	0,0000,0001,1000,0000
11	1FDFF	1,1111,1101,1111,1111
12	00180	0,0000,0001,1000,0000
13	1FDFF	1,1111,1101,1111,1111
14	00180	0,0000,0001,1000,0000
15	1FDFF	1,1111,1101,1111,1111
16	00180	0,0000,0001,1000,0000
17	1FDFF	1,1111,1101,1111,1111
18	00180	0,0000,0001,1000,0000
19	1FDFF	1,1111,1101,1111,1111
20	00180	0,0000,0001,1000,0000
21	1FDFF	1,1111,1101,1111,1111
22	00180	0,0000,0001,1000,0000
23	1FDFF	1,1111,1101,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

E6NNHNDARK03

```
OAPEL:  E6NNHNDARK03              ALIAS:  E6NNHNDARK03
EXT:    A                         PSID:   EG
SCLK1:  03837868:00:0             SCLK2:  03837869:00:0
SCET1:    97-052/04:27:48.752     SCET2:    97-052/04:28:49.418
TARGET: CAL                       PARTITION: 1

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

MB_DOWN:    00000                 MB_UP:      00000
COMP_FLAG:  1
EST_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

E6NNHEALTH04

```
OAPEL:  E6NNHEALTH04              ALIAS:  E6NNHEALTH04
EXT:    R                         PSID:   FV
SCLK1:  03838006:00:0             SCLK2:  03838006:12:0
SCET1:  1997-052/06:47:20.600     SCET2:  1997-052/06:47:28.600
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

E6JNFEA09501

```
OAPEL:  E6JNFEA09501            ALIAS:  E6JNFEA09501
EXT:    A                       PSID:   EH
SCLK1:  03838025:00:0           SCLK2:  03838026:59:0
SCET1:    97-052/07:06:33.413   SCET2:    97-052/07:08:13.413
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	01100	0,0001,0001,0000,0000
2	10000	1,0000,0000,0000,0000
3	00800	0,0000,1000,0000,0000
4	00000	0,0000,0000,0000,0000
5	00000	0,0000,0000,0000,0000
6	00000	0,0000,0000,0000,0000

E6JNFEA09502

```
OAPEL:  E6JNFEA09502            ALIAS:  E6JNFEA09502
EXT:    A                       PSID:   EI
SCLK1:  03838072:00:0           SCLK2:  03838073:59:0
SCET1:    97-052/07:54:04.744   SCET2:    97-052/07:55:44.744
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:    20                 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:     0507020001          05  07  020  001
WTGRP_SIZ:  7
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	00000	0,0000,0000,0000,0000
1	11D00	1,0001,1101,0000,0000
2	19900	1,1001,1001,0000,0000
3	01900	0,0001,1001,0000,0000
4	0B810	0,1011,1000,0001,0000
5	00C00	0,0000,1100,0000,0000
6	00000	0,0000,0000,0000,0000

E6JNFEA09503

```
OAPEL:  E6JNFEA09503            ALIAS:  E6JNFEA09503
EXT:    A                       PSID:   EJ
SCLK1:  03838084:00:0           SCLK2:  03838085:58:0
SCET1:    97-052/08:06:12.744   SCET2:    97-052/08:07:52.077
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	01100	0,0001,0001,0000,0000
2	10000	1,0000,0000,0000,0000
3	00800	0,0000,1000,0000,0000
4	00000	0,0000,0000,0000,0000
5	00000	0,0000,0000,0000,0000
6	00000	0,0000,0000,0000,0000

E6INVOLCAN01

```
OAPEL:  E6INVOLCAN01              ALIAS:  E6INVOLCAN01
EXT:    A                         PSID:   EK
SCLK1:  03838097:00:0             SCLK2:  03838098:23:0
SCET1:    97-052/08:19:21.410     SCET2:    97-052/08:20:37.410
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:    67                   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:     0326067001          03  26  067  001
WTGRP_SIZ:  26
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	00000	0,0000,0000,0000,0000
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	1FDFF	1,1111,1101,1111,1111
8	00000	0,0000,0000,0000,0000
9	00100	0,0000,0001,0000,0000
10	00000	0,0000,0000,0000,0000
11	00100	0,0000,0001,0000,0000
12	00000	0,0000,0000,0000,0000
13	00100	0,0000,0001,0000,0000
14	00000	0,0000,0000,0000,0000
15	1FDFF	1,1111,1101,1111,1111
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	1FDFF	1,1111,1101,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

E6JNFEA53M01

```
OAPEL:  E6JNFEA53M01            ALIAS:  E6JNFEA53M01
EXT:    A                       PSID:   EL
SCLK1:  03838121:00:0           SCLK2:  03838127:00:0
SCET1:    97-052/08:43:37.410   SCET2:    97-052/08:49:41.409
TARGET: JUPITER                 PARTITION: 1

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

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

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

WETGID:    0326160001          03  26  160  001
WTGRP_SIZ: 26
```

EDIT TABLE

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

E6NNHEALTH05

```
OAPEL:  E6NNHEALTH05            ALIAS:  E6NNHEALTH05
EXT:    R                       PSID:   FU
SCLK1:  03838176:00:0           SCLK2:  03838176:12:0
SCET1:  1997-052/09:39:13.933   SCET2:  1997-052/09:39:21.933
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

E6JNFEA5UM01

```
OAPEL:  E6JNFEA5UM01              ALIAS:  E6JNFEA5UM01
EXT:    A                         PSID:   EN
SCLK1:  03838203:00:0             SCLK2:  03838209:00:0
SCET1:    97-052/10:06:32.073     SCET2:    97-052/10:12:36.072
TARGET: JUPITER                   PARTITION: 1

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

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

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

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

EDIT TABLE

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

E6JNTHRMNS01

```
OAPEL:  E6JNTHRMNS01            ALIAS:  E6JNTHRMNS01
EXT:    A                       PSID:   EP
SCLK1:  03838263:00:0           SCLK2:  03838284:24:0
SCET1:    97-052/11:07:12.070   SCET2:    97-052/11:28:42.069
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

E6NNHEALTH06

```
OAPEL:  E6NNHEALTH06            ALIAS:  E6NNHEALTH06
EXT:    R                       PSID:   FT
SCLK1:  03838556:00:0           SCLK2:  03838556:12:0
SCET1:  1997-052/16:03:27.266   SCET2:  1997-052/16:03:35.266
TARGET: CAL                     PARTITION: 1

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

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

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

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

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	08044	0,1000,0000,0100,0100
1	00000	0,0000,0000,0000,0000
2	00000	0,0000,0000,0000,0000
3	00000	0,0000,0000,0000,0000
4	00000	0,0000,0000,0000,0000
5	00000	0,0000,0000,0000,0000
6	00000	0,0000,0000,0000,0000
7	00000	0,0000,0000,0000,0000
8	00000	0,0000,0000,0000,0000
9	00000	0,0000,0000,0000,0000
10	00000	0,0000,0000,0000,0000
11	00000	0,0000,0000,0000,0000
12	00000	0,0000,0000,0000,0000
13	00000	0,0000,0000,0000,0000
14	00000	0,0000,0000,0000,0000
15	00000	0,0000,0000,0000,0000
16	00000	0,0000,0000,0000,0000
17	00000	0,0000,0000,0000,0000
18	00000	0,0000,0000,0000,0000
19	00000	0,0000,0000,0000,0000
20	00000	0,0000,0000,0000,0000
21	00000	0,0000,0000,0000,0000
22	00000	0,0000,0000,0000,0000
23	00000	0,0000,0000,0000,0000
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

E6GNGLOBAL01

OAPEL: E6GNGLOBAL01 ALIAS: E6GNGLOBAL01
EXT: A PSID: FZ
SCLK1: 03838574:51:0 SCLK2: 03838579:31:0
SCET1: 97-052/16:22:13.393 SCET2: 97-052/16:27:03.392
TARGET: GANYMEDE 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: 192 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: 0326192001 03 26 192 001
WTGRP_SIZ: 26

EDIT TABLE

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

E6GNGLOBAL01

```
OAPEL:  E6GNGLOBAL01              ALIAS:  E6GNGLOBAL01
EXT:    B                         PSID:   FZ
SCLK1:  03838584:63:0             SCLK2:  03838589:43:0
SCET1:    97-052/16:32:28.058     SCET2:    97-052/16:37:18.058
TARGET: GANYMEDE                  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:   192                   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:     0326192001          03  26  192  001
WTGRP_SIZ:  26
```

EDIT TABLE

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

E6JNFEA12401

```
OAPEL:  E6JNFEA12401            ALIAS:  E6JNFEA12401
EXT:    A                       PSID:   EQ
SCLK1:  03838600:00:0           SCLK2:  03838601:59:0
SCET1:    97-052/16:47:56.725   SCET2:    97-052/16:49:36.725
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	01100	0,0001,0001,0000,0000
2	10000	1,0000,0000,0000,0000
3	00800	0,0000,1000,0000,0000
4	00000	0,0000,0000,0000,0000
5	00000	0,0000,0000,0000,0000
6	00000	0,0000,0000,0000,0000

E6JNFEA12402

```
OAPEL:  E6JNFEA12402              ALIAS:  E6JNFEA12402
EXT:    A                         PSID:   ER
SCLK1:  03838634:00:0             SCLK2:  03838635:59:0
SCET1:    97-052/17:22:19.390     SCET2:    97-052/17:23:59.390
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:    20                   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:     0507020001          05  07  020  001
WTGRP_SIZ:  7
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	00000	0,0000,0000,0000,0000
1	11D00	1,0001,1101,0000,0000
2	19900	1,1001,1001,0000,0000
3	01900	0,0001,1001,0000,0000
4	0B810	0,1011,1000,0001,0000
5	00C00	0,0000,1100,0000,0000
6	00000	0,0000,0000,0000,0000

E6JNFEA12403

```
OAPEL:  E6JNFEA12403            ALIAS:  E6JNFEA12403
EXT:    A                       PSID:   ES
SCLK1:  03838665:00:0           SCLK2:  03838666:59:0
SCET1:    97-052/17:53:40.055   SCET2:    97-052/17:55:20.055
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	01100	0,0001,0001,0000,0000
2	10000	1,0000,0000,0000,0000
3	00800	0,0000,1000,0000,0000
4	00000	0,0000,0000,0000,0000
5	00000	0,0000,0000,0000,0000
6	00000	0,0000,0000,0000,0000

E6NNHEALTH07

```
OAPEL:  E6NNHEALTH07            ALIAS:  E6NNHEALTH07
EXT:    R                       PSID:   FS
SCLK1:  03839191:00:0           SCLK2:  03839191:12:0
SCET1:  1997-053/02:45:30.533   SCET2:  1997-053/02:45:38.533
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

E6JNFEA14001

OAPEL: E6JNFEA14001 ALIAS: E6JNFEA14001
EXT: A PSID: EW
SCLK1: 03839210:00:0 SCLK2: 03839211:76:0
SCET1: 97-053/03:04:43.369 SCET2: 97-053/03:06:34.533
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: 19 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: 0507019001 05 07 019 001
WTGRP_SIZ: 7

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	00400	0,0000,0100,0000,0000
1	11D00	1,0001,1101,0000,0000
2	1A800	1,1010,1000,0000,0000
3	00900	0,0000,1001,0000,0000
4	0B810	0,1011,1000,0001,0000
5	00C00	0,0000,1100,0000,0000
6	00000	0,0000,0000,0000,0000

E6JNFEA14002

```
OAPEL:  E6JNFEA14002              ALIAS:  E6JNFEA14002
EXT:    A                         PSID:   EX
SCLK1:  03839232:85:0             SCLK2:  03839234:76:0
SCET1:    97-053/03:27:54.533     SCET2:    97-053/03:29:49.866
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:    19                   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:     0507019001          05  07  019  001
WTGRP_SIZ:  7
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	00400	0,0000,0100,0000,0000
1	11D00	1,0001,1101,0000,0000
2	1A800	1,1010,1000,0000,0000
3	00900	0,0000,1001,0000,0000
4	0B810	0,1011,1000,0001,0000
5	00C00	0,0000,1100,0000,0000
6	00000	0,0000,0000,0000,0000

E6JNFEA14003

```
OAPEL:  E6JNFEA14003              ALIAS:  E6JNFEA14003
EXT:    A                         PSID:   EY
SCLK1:  03839259:86:0             SCLK2:  03839261:59:0
SCET1:    97-053/03:55:13.200     SCET2:    97-053/03:56:56.700
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:    19                   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:     0507019001          05  07  019  001
WTGRP_SIZ:  7
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	00400	0,0000,0100,0000,0000
1	11D00	1,0001,1101,0000,0000
2	1A800	1,1010,1000,0000,0000
3	00900	0,0000,1001,0000,0000
4	0B810	0,1011,1000,0001,0000
5	00C00	0,0000,1100,0000,0000
6	00000	0,0000,0000,0000,0000

E6NNHNDARK04

```
OAPEL:  E6NNHNDARK04              ALIAS:  E6NNHNDARK04
EXT:    A                         PSID:   FA
SCLK1:  03839795:00:0             SCLK2:  03839796:00:0
SCET1:    97-053/12:56:13.347     SCET2:    97-053/12:57:14.014
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:        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

E6JNFEA15001

OAPEL: E6JNFEA15001 ALIAS: E6JNFEA15001
EXT: A PSID: FB
SCLK1: 03839811:00:0 SCLK2: 03839812:67:0
SCET1: 97-053/13:12:24.013 SCET2: 97-053/13:14:09.200
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: 20 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: 0507020001 05 07 020 001
WTGRP_SIZ: 7

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	00000	0,0000,0000,0000,0000
1	11D00	1,0001,1101,0000,0000
2	19900	1,1001,1001,0000,0000
3	01900	0,0001,1001,0000,0000
4	0B810	0,1011,1000,0001,0000
5	00C00	0,0000,1100,0000,0000
6	00000	0,0000,0000,0000,0000

E6JNFEA15002

```
OAPEL:  E6JNFEA15002            ALIAS:  E6JNFEA15002
EXT:    A                       PSID:   FC
SCLK1:  03839827:86:0           SCLK2:  03839829:67:0
SCET1:    97-053/13:29:31.866   SCET2:    97-053/13:31:20.533
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:    20                 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:     0507020001          05  07  020  001
WTGRP_SIZ:  7
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	00000	0,0000,0000,0000,0000
1	11D00	1,0001,1101,0000,0000
2	19900	1,1001,1001,0000,0000
3	01900	0,0001,1001,0000,0000
4	0B810	0,1011,1000,0001,0000
5	00C00	0,0000,1100,0000,0000
6	00000	0,0000,0000,0000,0000

E6JNFEA15003

```
OAPEL:  E6JNFEA15003            ALIAS:  E6JNFEA15003
EXT:    A                       PSID:   FD
SCLK1:  03839844:86:0           SCLK2:  03839846:50:0
SCET1:    97-053/13:46:43.200   SCET2:    97-053/13:48:20.678
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:    20                 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:     0507020001          05  07  020  001
WTGRP_SIZ:  7
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	00000	0,0000,0000,0000,0000
1	11D00	1,0001,1101,0000,0000
2	19900	1,1001,1001,0000,0000
3	01900	0,0001,1001,0000,0000
4	0B810	0,1011,1000,0001,0000
5	00C00	0,0000,1100,0000,0000
6	00000	0,0000,0000,0000,0000

E6NNPCTCAL01

```
OAPEL:  E6NNPCTCAL01              ALIAS:  E6NNPCTCAL01
EXT:    A                         PSID:   FP
SCLK1:  03840151:89:0             SCLK2:  03840152:54:0
SCET1:    97-053/18:57:10.001     SCET2:    97-053/18:57:47.334
TARGET: CAL                       PARTITION: 1

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

MB_DOWN:    00000                 MB_UP:      00000
COMP_FLAG:  1
EST_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	1FDC0	1,1111,1101,1100,0000
1	1FDC0	1,1111,1101,1100,0000
2	1FDC0	1,1111,1101,1100,0000
3	1FDC0	1,1111,1101,1100,0000
4	1FDC0	1,1111,1101,1100,0000
5	1FDC0	1,1111,1101,1100,0000
6	1FDC0	1,1111,1101,1100,0000
7	1FDC0	1,1111,1101,1100,0000
8	1FDC0	1,1111,1101,1100,0000
9	1FDC0	1,1111,1101,1100,0000
10	1FDC0	1,1111,1101,1100,0000
11	1FDC0	1,1111,1101,1100,0000
12	1FD80	1,1111,1101,1000,0000
13	1FD80	1,1111,1101,1000,0000
14	1FD80	1,1111,1101,1000,0000
15	1FD80	1,1111,1101,1000,0000
16	1FD80	1,1111,1101,1000,0000
17	1FD80	1,1111,1101,1000,0000
18	1FD80	1,1111,1101,1000,0000
19	1FD80	1,1111,1101,1000,0000
20	1FD80	1,1111,1101,1000,0000
21	1FD80	1,1111,1101,1000,0000
22	1FD80	1,1111,1101,1000,0000
23	1FD80	1,1111,1101,1000,0000
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

E6NNPCTCAL01

```
OAPEL:  E6NNPCTCAL01            ALIAS:  E6NNPCTCAL01
EXT:    B                       PSID:   FP
SCLK1:  03840159:00:0           SCLK2:  03840160:00:0
SCET1:    97-053/19:04:16.000   SCET2:    97-053/19:05:16.667
TARGET: CAL                     PARTITION: 1

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

MB_DOWN:   00000                MB_UP:     00000
COMP_FLAG: 1
EST_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	1FDC0	1,1111,1101,1100,0000
1	1FDC0	1,1111,1101,1100,0000
2	1FDC0	1,1111,1101,1100,0000
3	1FDC0	1,1111,1101,1100,0000
4	1FDC0	1,1111,1101,1100,0000
5	1FDC0	1,1111,1101,1100,0000
6	1FDC0	1,1111,1101,1100,0000
7	1FDC0	1,1111,1101,1100,0000
8	1FDC0	1,1111,1101,1100,0000
9	1FDC0	1,1111,1101,1100,0000
10	1FDC0	1,1111,1101,1100,0000
11	1FDC0	1,1111,1101,1100,0000
12	1FD80	1,1111,1101,1000,0000
13	1FD80	1,1111,1101,1000,0000
14	1FD80	1,1111,1101,1000,0000
15	1FD80	1,1111,1101,1000,0000
16	1FD80	1,1111,1101,1000,0000
17	1FD80	1,1111,1101,1000,0000
18	1FD80	1,1111,1101,1000,0000
19	1FD80	1,1111,1101,1000,0000
20	1FD80	1,1111,1101,1000,0000
21	1FD80	1,1111,1101,1000,0000
22	1FD80	1,1111,1101,1000,0000
23	1FD80	1,1111,1101,1000,0000
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

E6CNCALLRT01

OAPEL: E6CNCALLRT01 ALIAS: E6CNCALLRT01
EXT: R PSID: DC
SCLK1: 03840332:00:0 SCLK2: 03840334:12:0
SCET1: 1997-053/21:59:11.200 SCET2: 1997-053/22:01:20.533
TARGET: CALLISTO PARTITION: 1

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

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

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

WETGID: 0301408000 03 01 408 000
WTGRP_SIZ: 1

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	1FFFF	1,1111,1111,1111,1111
25	1FFFF	1,1111,1111,1111,1111

E6CNGLOBAL01

```
OAPEL:  E6CNGLOBAL01            ALIAS:  E6CNGLOBAL01
EXT:    A                       PSID:   FE
SCLK1:  03840341:00:0           SCLK2:  03840343:02:0
SCET1:    97-053/22:08:17.327   SCET2:    97-053/22:10:19.994
TARGET: CALLISTO                PARTITION: 1

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

MB_DOWN:    00000               MB_UP:      00000
COMP_FLAG:  1
EST_COMP:   2.0                 EST_COMPV:  0.3
RATE_CON1:  00000               RATE_CON2:  65525
NWAVETOT:   270                 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:     0326270001          03  26  270  001
WTGRP_SIZ:  26
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	07DFE	0,0111,1101,1111,1110
1	005FE	0,0000,0101,1111,1110
2	07DFE	0,0111,1101,1111,1110
3	005FE	0,0000,0101,1111,1110
4	07DFE	0,0111,1101,1111,1110
5	005FE	0,0000,0101,1111,1110
6	07DFE	0,0111,1101,1111,1110
7	005FE	0,0000,0101,1111,1110
8	07DFE	0,0111,1101,1111,1110
9	005FE	0,0000,0101,1111,1110
10	07DFE	0,0111,1101,1111,1110
11	005FE	0,0000,0101,1111,1110
12	07DFE	0,0111,1101,1111,1110
13	00DFE	0,0000,1101,1111,1110
14	07DFE	0,0111,1101,1111,1110
15	00DFE	0,0000,1101,1111,1110
16	07DFE	0,0111,1101,1111,1110
17	00DFE	0,0000,1101,1111,1110
18	07DFE	0,0111,1101,1111,1110
19	00DFE	0,0000,1101,1111,1110
20	07DFE	0,0111,1101,1111,1110
21	00DFE	0,0000,1101,1111,1110
22	07DFE	0,0111,1101,1111,1110
23	00DFE	0,0000,1101,1111,1110
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

E6NNRCTRLT01

```
OAPEL:  E6NNRCTRLT01            ALIAS:  LSNNRCTRTA01
EXT:    R                       PSID:   XU
SCLK1:  03843565:00:0           SCLK2:  03843565:12:0
SCET1:  1997-056/04:28:06.400   SCET2:  1997-056/04:28:14.400
TARGET: CAL                     PARTITION: 1

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

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

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

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

EDIT TABLE

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

E6NNRCTRLT01

OAPEL: E6NNRCTRLT01 ALIAS: LSNNRCTRTA01
EXT: S PSID: XU
SCLK1: 03843571:00:0 SCLK2: 03843572:12:0
SCET1: 1997-056/04:34:10.400 SCET2: 1997-056/04:35:19.066
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

E6NNRCTRLT01

```
OAPEL:  E6NNRCTRLT01            ALIAS:  LSNNRCTRTA01
EXT:    T                       PSID:   XU
SCLK1:  03843577:00:0           SCLK2:  03843577:12:0
SCET1:  1997-056/04:40:14.400   SCET2:  1997-056/04:40:22.400
TARGET: CAL                     PARTITION: 1

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

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

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

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

EDIT TABLE

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

E6NNRCTRLT02

```
OAPEL:  E6NNRCTRLT02            ALIAS:  LSNNRCTRTB01
EXT:    R                       PSID:   YE
SCLK1:  03869779:00:0           SCLK2:  03869779:12:0
SCET1:  1997-074/14:13:21.400   SCET2:  1997-074/14:13:29.400
TARGET: CAL                     PARTITION: 1

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

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

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

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

EDIT TABLE

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

E6NNRCTRLT02

```
OAPEL:  E6NNRCTRLT02            ALIAS:  LSNNRCTRTB01
EXT:    S                       PSID:   YE
SCLK1:  03869785:00:0           SCLK2:  03869786:12:0
SCET1:  1997-074/14:19:25.400   SCET2:  1997-074/14:20:34.066
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

E6NNRCTRLT02

```
OAPEL:  E6NNRCTRLT02            ALIAS:  LSNNRCTRTB01
EXT:    T                       PSID:   YE
SCLK1:  03869791:00:0           SCLK2:  03869791:12:0
SCET1:  1997-074/14:25:29.400   SCET2:  1997-074/14:25:37.400
TARGET: CAL                     PARTITION: 1

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

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

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

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

EDIT TABLE

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

E6NNDET3CHK1

```
OAPEL:  E6NNDET3CHK1            ALIAS:  E6NNDET3CHK1
EXT:    R                       PSID:   DN
SCLK1:  03875634:00:0           SCLK2:  03875635:12:0
SCET1:  1997-078/16:53:24.533   SCET2:  1997-078/16:54:33.200
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:    11011               MB_UP:      11011
COMP_FLAG:  0
EST_COMP:   0.0                 EST_COMPV:  0.0
RATE_CON1:  00000               RATE_CON2:  00000
NWAVETOT:    72                 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:     0302072000          03   02   072   000
WTGRP_SIZ:  2
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	0E000	0,1110,0000,0000,0000
1	0E000	0,1110,0000,0000,0000
2	0E000	0,1110,0000,0000,0000
3	0E000	0,1110,0000,0000,0000
4	0E000	0,1110,0000,0000,0000
5	0E000	0,1110,0000,0000,0000
6	0E000	0,1110,0000,0000,0000
7	0E000	0,1110,0000,0000,0000
8	0E000	0,1110,0000,0000,0000
9	0E000	0,1110,0000,0000,0000
10	0E000	0,1110,0000,0000,0000
11	0E000	0,1110,0000,0000,0000
12	0E000	0,1110,0000,0000,0000
13	0E000	0,1110,0000,0000,0000
14	0E000	0,1110,0000,0000,0000
15	0E000	0,1110,0000,0000,0000
16	0E000	0,1110,0000,0000,0000
17	0E000	0,1110,0000,0000,0000
18	0E000	0,1110,0000,0000,0000
19	0E000	0,1110,0000,0000,0000
20	0E000	0,1110,0000,0000,0000
21	0E000	0,1110,0000,0000,0000
22	0E000	0,1110,0000,0000,0000
23	0E000	0,1110,0000,0000,0000
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

E6NNOPCAL_01

```
OAPEL:  E6NNOPCAL_01            ALIAS:  E6NNOPCAL_01
EXT:    R                       PSID:   DN
SCLK1:  03886044:00:0           SCLK2:  03886046:12:0
SCET1:  1997-086/00:19:04.133   SCET2:  1997-086/00:21:13.466
TARGET: CAL                     PARTITION: 1

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

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

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

WETGID:     0302120000          03  02  120  000
WTGRP_SIZ:  2
```

EDIT TABLE

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

NIMS E6 OBSTAB

This is a time-ordered ASCII TABLE (listing) of GALILEO NIMS observation parameters for use by downlink data processing of the NIMS E6 data. Each Obstab entry is 512 bytes long but is presented here as 4 lines of 128 characters per entry. Included items come from NIMS commands in (1) the Standard Sequence Data File (SSDF) and (2) the Playback Table Update Process (PTUP), plus some items from (3) the NIMS/CDS software load.

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

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

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

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

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

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

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# WETGID       10 319 - 328     .Wavelength selection group ID (unique)         PBK: WET_GID    (realtime <tbd>)
                                  Rule of formation: mmeellllnnn where
                                   mm  = instrument mode (0-15)
                                   ee  = # entries in group
                                   lll = number of wavelengths selected
                                   nnn = sequence number
* WETGRPSIZ     2 329 - 330     .# Wavelength Edit entries (1-26)               PBK: ED_GRP_LEN (realtime SEF: 37ETB <tbd>)
* WETGRP      182 331 - 512     .Wavelength Edit Table group:  WETGRPSIZ        PBK: ED_GRP     (realtime SEF: 37ETB data bytes 2..)
                                  entries, each one has 7 characters.  The
                                  first 2 characters are the repeat count
                                  (01-26).  The other 5 characters contain
                                  5 hex digits, representing the detector
                                  mask in the form BHHHH where B is 0 or 1
                                  and H has range 0-15.  (These entries are
                                  from the 37ETB instrument edit group for
                                  realtime data and from the logical AND of
                                  corresponding entries in the instrument
                                  and playback edit groups for playback data.)
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.The TARGET names used are:
   CAL      - N - non-science targets, usually calibration targets
   EARTH    - W - Earth
   MOON     - L - Moon
   SKY      - H - Stellar Space (space and stars)
   VENUS    - V - Venus
   GASPRA   - P - Gaspra
   IDA      - U - Ida
   JUPITER  - J - Jupiter
   IO       - I - Io
   EUROPA   - E - Europa
   GANYMEDE - G - Ganymede
   CALLISTO - C - Callisto
   J_RING   - R - Jupiter rings
   (the single letter abbreviation appears as the third character in the OAPEL name ).
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E6JNAURORA01E6JNAURORA01RFH03834085:00:003834085:12:01         JUPITER  3414 1 1 0 0 124 1 1 0 0 12400100 1101111011 0 0.00.0000
0000000                  408RT 1997-049/12:42:46.7331997-049/12:42:54.733
          00000000000000000000000000000000000000000000000000302408000 2241FFFF0200000

E6JNFEA06401E6JNFEA06401ADB03835467:00:003835468:58:01         JUPITER  5214 1 1 0 1 4 6 1 1 0 1 4 600010 0000000000 1 2.00.3000
0065525                   4LPU  97-050/12:00:08.174  97-050/12:01:47.508
          00000000000000000000000000000000000000000000000000507004001 701000000101100011000001008000100000010000000100000

E6JNFEA06402E6JNFEA06402ADC03835483:00:003835484:58:01         JUPITER  5214 1 1 0 1 4 6 1 1 0 1 4 600010 0000000000 1 2.00.3000
0065525                  20LPU  97-050/12:16:18.840  97-050/12:17:58.173
          00000000000000000000000000000000000000000000000000507020001 701000000111D000119900010190001 0B8100100C000100000

E6JNFEA06403E6JNFEA06403ADE03835550:00:003835551:58:01         JUPITER  5214 1 1 0 1 4 6 1 1 0 1 4 600010 0000000000 1 2.00.3000
0065525                   4LPU  97-050/13:24:03.505  97-050/13:25:42.838
          00000000000000000000000000000000000000000000000000507004001 701000000101100011000001008000100000010000000100000

E6NNHNDARK01E6NNHNDARK01ADF03835957:90:003835958:90:01         CAL      3214 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                  32LPU  97-050/20:16:34.822  97-050/20:17:35.489
          00000000000000000000000000000000000000000000000000032603200126011FDFF011FDFF010000001000000100000010000001000000100
0001000000100000010000001000000100000010000001000000100000010000001000000100000010000001000000100000010000001000000100000
E6ENCHEMIS01E6INCHEMIS01ADG03835974:90:003835976:64:01         EUROPA   3214 1 1 0 0 124 1 1 0 0 12400012 0000000000 1 2.00.3000
0065525                  96MPW  97-050/20:33:46.155  97-050/20:35:30.155
          03003003000003002902802802902803203403103103203002903260960012601000000011FDFF010000001000000100000011FDFF010000001000
000100000011FDFF010000001000000100000011FDFF010000001000000100000011FDFF010000001000000100000011FDFF010000001000000100000
E6NNHEALTH01E6NNHEALTH01RFY03836035:00:003836035:12:01         CAL      3214 1 1 0 0 124 1 1 0 0 12400100 0000000000 0 0.00.0000
0000000                  003RT 1997-050/21:34:26.6661997-050/21:34:34.666
          00000000000000000000000000000000000000000000000000302003000 201080442500000

E6JNFEA04801E6JNFEA04801ADH03836050:00:003836051:58:01         JUPITER  5214 1 1 0 1 4 6 1 1 0 1 4 600010 0000000000 1 2.00.3000
0065525                   4LPU  97-050/21:49:36.819  97-050/21:51:16.153
          00000000000000000000000000000000000000000000000000507004001 701000000101100011000001008000100000010000000100000

E6JNPFTB4801E6JNPFTB4801AFC03836093:00:003836099:73:01         JUPITER  5214 1 1 0 1 4 6 1 1 0 1 4 600010 0000000000 1 2.00.3000
0065525                   4LPU  97-050/22:33:05.484  97-050/22:39:58.151
          00000000000000000000000000000000000000000000000000507004001 701000000101100011000001008000100000010000000100000

E6JNFEA04803E6JNFEA04803ADL03836159:00:003836160:59:01         JUPITER  5214 1 1 0 1 4 6 1 1 0 1 4 600010 0000000000 1 2.00.3000
0065525                   4LPU  97-050/23:39:49.482  97-050/23:41:29.482
          00000000000000000000000000000000000000000000000000507004001 701000000101100011000001008000100000010000000100000

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E6JNPFTB4802E6JNPFTB4802ADN03836173:00:003836179:74:01         JUPITER  5214 1 1 0 1 4 6 1 1 0 1 4 600010 0000000000 1 2.00.3000
0065525                  20LPU  97-050/23:53:58.814  97-051/00:00:52.000
          00000000000000000000000000000000000000000000000000507020001 701000000111D000119900010190001OB8100100C000100000

E6JNRTHOTS01E6JNRTHOTS01RFJ03836385:00:003836385:12:01         JUPITER  3214 1 1 0 0 124 1 1 0 0 12400100 1101111011 0 0.00.0000
0000000                  408RT 1997-051/03:28:20.0001997-051/03:28:28.000
          00000000000000000000000000000000000000000000000000302408000 2241FFFF0200000

E6INCHEMIS02E6INCHEMIS02ADO03836419:00:003836422:41:01         IO       3214 1 1 0 0 124 1 1 0 0 12400012 0000000000 1 2.00.3000
0065525                  384MPW  97-051/04:02:42.805  97-051/04:06:12.139
          03003003000003002902802802902803203403103103203002903263840012601 1FDFF011FDFF011FDFF011FDFF011FDFF011FDFF011FDFF011FD
FF011FDFF011FDFF011FDFF011FDFF011FDFF011FDFF011FDFF011FDFF011FDFF011FDFF011FDFF011FDFF011FDFF011FDFF01000000100000
E6NNHNDARK02E6NNHNDARK02ADP03836498:00:003836499:00:01         CAL      3214 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                  32LPU  97-051/05:22:35.469  97-051/05:23:36.136
          00000000000000000000000000000000000000000000000000326032001260 11FDFF011FDFF010000001000000100000010000001000000100
0001000000100000010000001000000100000010000001000000100000010000001000000100000010000001000000100000010000001000000100000
E6JNFEA02001E6JNFEA02001ADQ03836641:00:003836655:16:01         JUPITER  5214 1 1 0 1 4 6 1 1 0 1 4 600010 0000000000 1 2.00.3000
0065525                  20LPU  97-051/07:47:10.797  97-051/08:01:30.796
          00000000000000000000000000000000000000000000000000507020001 701000000111D000119900010190001OB8100100C000100000

E6JNFEA02002E6JNFEA02002ADR03836669:00:003836670:59:01         JUPITER  5214 1 1 0 1 4 6 1 1 0 1 4 600010 0000000000 1 2.00.3000
0065525                  25LPU  97-051/08:15:29.463  97-051/08:17:09.463
          00000000000000000000000000000000000000000000000000507025001 701004000111D810119900010190201OB8100100C010100000

E6NNHEALTH02E6NNHEALTH02RFX03836674:00:003836674:12:01         CAL      3214 1 1 0 0 124 1 1 0 0 12400100 0000000000 0 0.00.0000
0000000                  003RT 1997-051/08:20:32.6661997-051/08:20:40.666
          00000000000000000000000000000000000000000000000000302003000 201080442500000

E6JNFEA02003E6JNFEA02003ADS03836688:00:003836701:59:01         JUPITER  5214 1 1 0 1 4 6 1 1 0 1 4 600010 0000000000 1 2.00.3000
0065525                  25LPU  97-051/08:34:42.129  97-051/08:48:30.129
          00000000000000000000000000000000000000000000000000507025001 701004000111D810119900010190201OB8100100C010100000

E6JNFEASUB01E6JNFEASUB01ADU03836762:00:003836768:00:01         JUPITER  3214 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                  80LPU  97-051/09:49:31.459  97-051/09:55:35.459
          00000000000000000000000000000000000000000000000000326080001260111400011140001114000111400011140001114000111400011940
00011A400011A400010A400010A400010A400010AC00010A800010A800011A800011A800011A800011A800011280001128000112800011280001000000100000
E6ENEURORT01E6ENEURORT01RFK03836891:00:003836892:12:01         EUROPA   3214 1 1 0 0 124 1 1 0 0 12400100 1101111011 0 0.00.0000
0000000                  408RT 1997-051/11:59:57.3331997-051/12:01:06.000
          00000000000000000000000000000000000000000000000000302408000 2241FFFF0200000

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E6ENTERINC01E6ENTERINC01BDG03836904:23:003836910:38:01         EUROPA   1214 1 1 0 0 212 1 1 0 0 21200010 0000000000 1 2.00.3000
0065525                  192MPW  97-051/12:13:21.454  97-051/12:19:35.454
          0000000000000000000000000000000000000000000000000000011319200113011FDFF011FDFF011FDFF011FDFF011FDFF011FDFF011FDFF011FD
FF011FDFF011FDFF011FDFF011FDFF0100000
E6ENTERINC01E6ENTERINC01ADG03836912:08:003836920:09:01         EUROPA   1314 1 1 0 0 212 1 1 0 0 21200010 0000000000 1 2.00.3000
0065525                  192MPW  97-051/12:21:16.787  97-051/12:29:22.786
          0000000000000000000000000000000000000000000000000000011319200113011FDFF011FDFF011FDFF011FDFF011FDFF011FDFF011FDFF011FD
FF011FDFF011FDFF011FDFF011FDFF0100000
E6INHRSPEC01E6INHRSPEC01AFZ03836932:00:003836936:66:01         IO       3214 1 1 0 0 124 1 1 0 0 12400012 0000000000 1 2.00.3000
0065525                  216MPW  97-051/12:41:24.786  97-051/12:46:11.453
          0300300300000300290280280290280320340310310320300290326216001260100180011FDFF0100180011FDFF0100180011FDFF0100180011FD
FF0100180011FDFF0100180011FDFF0100180011FDFF0100180011FDFF0100180011FDFF0100180011FDFF0100180011FDFF01000000100000
E6ENSUCOMP01E6ENSUCOMP01ADZ03837142:00:003837149:88:01         EUROPA   3314 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                  192MPW  97-051/16:13:44.779  97-051/16:21:48.112
          0000000000000000000000000000000000000000000000000000326192001260100000011FDFF0100000011FDFF0100000011FDFF0100000011FD
FF0100000011FDFF0100000011FDFF0100000011FDFF0100000011FDFF0100000011FDFF0100000011FDFF0100000011FDFF01000000100000
E6ENSUCOMP02E6ENSUCOMP02AEA03837160:00:003837167:90:01         EUROPA   3314 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                  192MPW  97-051/16:31:56.779  97-051/16:40:01.333
          0000000000000000000000000000000000000000000000000000326192001260100000011FDFF0100000011FDFF0100000011FDFF0100000011FD
FF0100000011FDFF0100000011FDFF0100000011FDFF0100000011FDFF0100000011FDFF0100000011FDFF0100000011FDFF01000000100000
E6ENSUCOMP02E6ENSUCOMP02BEA03837160:00:003837167:90:01         EUROPA   3314 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                   96MPW  97-051/16:31:56.779  97-051/16:40:01.333
          0000000000000000000000000000000000000000000000000000326096001260 11FD000100000011FD000100000011FD000100000011FD0001000
00011FD000100000011FD000100000011FD000100000011FD000100000011FD000100000011FD000100000011FD000100000011FD000100000011FD0001000000100000100000
E6ENSUCOMP02E6ENSUCOMP02CEA03837160:00:003837167:90:01         EUROPA   3314 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                  288MPW  97-051/16:31:56.779  97-051/16:40:01.333
          0000000000000000000000000000000000000000000000000000326288001260 11FD00011FDFF011FD00011FDFF011FD00011FDFF011FD00011FD
FF011FD00011FDFF011FD00011FDFF011FD00011FDFF011FD00011FDFF011FD00011FDFF011FD00011FDFF011FD00011FDFF01000000100000
E6INRTIMON01E6INRTIMON01RDT03837171:00:003837171:12:01         IO       7214 1 1 021 012 1 1 021 01200100 1110000111 0 0.00.0000
0000000                  008RT 1997-051/16:43:04.0001997-051/16:43:12.000
          0000000000000000000000000000000000000000000000000000702008000 212129950100000

E6ENBRTPLN01E6ESBRTPLN01AIR03837175:03:003837175:51:01         EUROPA   3214 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                  384IM8  97-051/16:47:08.778  97-051/16:47:40.778
          0000000000000000000000000000000000000000000000000000326384001260 11FDFF011FDFF011FDFF011FDFF011FDFF011FDFF011FDFF011FD
FF011FDFF011FDFF011FDFF011FDFF011FDFF011FDFF011FDFF011FDFF011FDFF011FDFF011FDFF011FDFF011FDFF011FDFF01000000100000
E6ENSEAICE01E6ENSEAICE01AFM03837239:00:003837240:04:01         EUROPA   7314 1 1 0 0 012 1 1 0 0 01200010 0000000000 1 2.00.3000
0065525                   10LPU  97-051/17:51:49.442  97-051/17:52:52.776
          0000000000000000000000000000000000000000000000000000713010001130 11FDC0011FDC0011FDC0011FDC0011FDC0011FDC0011FDC0011FD
C0011FDC0011FDC0011FDC0011FDC00100000
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E6ENSEAICE01E6ENSEAICE01BFM03837245:26:003837246:31:01         EUROPA   7314 1 1 0 0 012 1 1 0 0 01200010 0000000000 1 2.00.3000
0065525                   10LPU  97-051/17:58:10.775  97-051/17:59:14.775
          00000000000000000000000000000000000000000000000000007130100011301 1FDC0011FDC0011FDC0011FDC0011FDC0011FDC0011FDC0011FD
C0011FDC0011FDC0011FDC0011FDC00100000
E6NNHEALTH03E6NNHEALTH03RFW03837467:00:003837467:12:01         CAL      3214 1 1 0 0 124 1 1 0 0 12400100 0000000000 0 0.00.0000
0000000                   003RT 1997-051/21:42:21.2661997-051/21:42:29.266
          000000000000000000000000000000000000000000000000000302003000 201080442500000

E6JNFEA03801E6JNFEA03801AED03837491:83:003837502:58:01         JUPITER  5214 1 1 0 1 4 6 1 1 0 1 4 600010 0000000000 1 2.00.3000
0065525                   25LPU  97-051/22:07:32.766  97-051/22:18:23.432
          000000000000000000000000000000000000000000000000507025001 701004000111D810119900010190201 0B8100100C010100000

E6INCHEMIS06E6INCHEMIS06AEE03837843:00:003837845:64:01         IO       3214 1 1 0 0 124 1 1 0 0 12400012 0000000000 1 2.00.3000
0065525                   216LPU  97-052/04:02:32.086  97-052/04:05:16.086
          030030030000030029028028029028032034031031032030029032621600126010018001 1FDFF0100180011FDFF0100180011FDFF0100180011FD
FF0100180011FDFF0100180011FDFF0100180011FDFF0100180011FDFF0100180011FDFF0100180011FDFF0100180011FDFF01000000100000
E6NNHNDARK03E6NNHNDARK03AEG03837868:00:003837869:00:01         CAL      3414 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                   32LPU  97-052/04:27:48.752  97-052/04:28:49.418
          000000000000000000000000000000000000000000000000000326032001260 11FDFF011FDFF0100000010000001000000100000010000001
000100000010000001000000100000010000001000000100000010000001000000100000010000001000000100000010000001000000100000010000001000000100000
E6NNHEALTH04E6NNHEALTH04RFV03838006:00:003838006:12:01         CAL      3214 1 1 0 0 124 1 1 0 0 12400100 0000000000 0 0.00.0000
0000000                   003RT 1997-052/06:47:20.6001997-052/06:47:28.600
          000000000000000000000000000000000000000000000000000302003000 201080442500000

E6JNFEA09501E6JNFEA09501AEH03838025:00:003838026:59:01         JUPITER  5214 1 1 0 1 4 6 1 1 0 1 4 600010 0000000000 1 2.00.3000
0065525                    4LPU  97-052/07:06:33.413  97-052/07:08:13.413
          000000000000000000000000000000000000000000000000507004001 701000000101100011000001008000100000010000001000000

E6JNFEA09502E6JNFEA09502AEI03838072:00:003838073:59:01         JUPITER  5214 1 1 0 1 4 6 1 1 0 1 4 600010 0000000000 1 2.00.3000
0065525                   20LPU  97-052/07:54:04.744  97-052/07:55:44.744
          000000000000000000000000000000000000000000000000507020001 701000000111D000119900010190001 0B8100100C000100000

E6JNFEA09503E6JNFEA09503AEJ03838084:00:003838085:58:01         JUPITER  5214 1 1 0 1 4 6 1 1 0 1 4 600010 0000000000 1 2.00.3000
0065525                    4LPU  97-052/08:06:12.744  97-052/08:07:52.077
          000000000000000000000000000000000000000000000000507004001 701000000101100011000001008000100000010000001000000

E6INVOLCAN01E6INVOLCAN01AEK03838097:00:003838098:23:01         IO       3414 1 1 0 0 124 1 1 0 0 12400012 0000000000 1 2.00.3000
0065525                   67LPU  97-052/08:19:21.410  97-052/08:20:37.410
          030030030000030029028028029028032034031031032030029032606700126010000001 1FDFF0100000010000001000000100000010000011FD
FF0100000010010001000000100100010000001001000100000011FDFF0100000010000001000000100000010000001000000011FDFF01000000100000
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E6JNFEA53M01E6JNFEA53M01AEL03838121:00:003838127:00:01         JUPITER  3414 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                  160LPU  97-052/08:43:37.410  97-052/08:49:41.409
          000000000000000000000000000000000000000000000000000032616000126010118301011 8B010118F010118F010118F010118F010118F01001
8F010018F010018F010018F010018F010018F010018F010018F010018F010018F010019F010019F010219F010219F010231F010231F010231F01000000100000
E6NNHEALTH05E6NNHEALTH05RFU03838176:00:003838176:12:01         CAL      3214 1 1 0 0 124 1 1 0 0 12400100 0000000000 0 0.00.0000
0000000                  003RT 1997-052/09:39:13.9331997-052/09:39:21.933
          000000000000000000000000000000000000000000000000000302003000 201080442500000

E6JNFEA5UM01E6JNFEA5UM01AEN03838203:00:003838209:00:01         JUPITER  3414 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                   80LPU  97-052/10:06:32.073  97-052/10:12:36.072
          000000000000000000000000000000000000000000000000000032608000126010000701000070100007010000701000070100007010000701000070100
0701000070100007010000701000070100007010000701000070100007010000F010000F010000F010000F010000F010000F010000F010000F01000000100000
E6JNTHRMNS01E6JNTHRMNS01AEP03838263:00:003838284:24:01         JUPITER  3414 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                   80LPU  97-052/11:07:12.070  97-052/11:28:42.069
          000000000000000000000000000000000000000000000000000032608000126010000701000070100007010000701000070101107010000701000
0701000070110007010000701000070100007010080701000070100007010000701000070100007010000701000070100007010000F010000F010000F010000F01000000100000
E6NNHEALTH06E6NNHEALTH06RFT03838556:00:003838556:12:01         CAL      3214 1 1 0 0 124 1 1 0 0 12400100 0000000000 0 0.00.0000
0000000                  003RT 1997-052/16:03:27.2661997-052/16:03:35.266
          000000000000000000000000000000000000000000000000000302003000 201080442500000

E6GNGLOBAL01E6GNGLOBAL01AFZ03838574:51:003838579:31:01         GANYMEDE 3314 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                  192LPU  97-052/16:22:13.393  97-052/16:27:03.392
          000000000000000000000000000000000000000000000000000032619200126010000001 1FDFF0100000011FDFF0100000011FDFF0100000011FD
FF0100000011FDFF0100000011FDFF0100000011FDFF0100000011FDFF0100000011FDFF0100000011FDFF0100000011FDFF0100000011FDFF01000000100000
E6GNGLOBAL01E6GNGLOBAL01BFZ03838584:63:003838589:43:01         GANYMEDE 3314 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                  192LPU  97-052/16:32:28.058  97-052/16:37:18.058
          000000000000000000000000000000000000000000000000000032619200126010000001 1FDFF0100000011FDFF0100000011FDFF0100000011FD
FF0100000011FDFF0100000011FDFF0100000011FDFF0100000011FDFF0100000011FDFF0100000011FDFF0100000011FDFF01000000100000
E6JNFEA12401E6JNFEA12401AEQ03838600:00:003838601:59:01         JUPITER  5214 1 1 0 1 4 6 1 1 0 1 4 600010 0000000000 1 2.00.3000
0065525                   4LPU  97-052/16:47:56.725  97-052/16:49:36.725
          000000000000000000000000000000000000000000000000000507004001 701000000101100011000001008000100000010000001000000

E6JNFEA12402E6JNFEA12402AER03838634:00:003838635:59:01         JUPITER  5214 1 1 0 1 4 6 1 1 0 1 4 600010 0000000000 1 2.00.3000
0065525                   20LPU  97-052/17:22:19.390  97-052/17:23:59.390
          000000000000000000000000000000000000000000000000000507020001 701000000111D000119900010190001 0B8100100C000100000

E6JNFEA12403E6JNFEA12403AES03838665:00:003838666:59:01         JUPITER  5214 1 1 0 1 4 6 1 1 0 1 4 600010 0000000000 1 2.00.3000
0065525                   4LPU  97-052/17:53:40.055  97-052/17:55:20.055
          000000000000000000000000000000000000000000000000000507004001 701000000101100011000001008000100000010000001000000

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E6NNHEALTH07E6NNHEALTH07RFS03839191:00:003839191:12:01         CAL      3214 1 1 0 0 124 1 1 0 0 12400100 0000000000 0 0.00.0000
0000000                  003RT 1997-053/02:45:30.5331997-053/02:45:38.533
          00000000000000000000000000000000000000000000000000302003000 201080442500000

E6JNFEA14001E6JNFEA14001AEW03839210:00:003839211:76:01         JUPITER  5214 1 1 0 1 4 6 1 1 0 1 4 600010 0000000000 1 2.00.3000
0065525                  19LPU  97-053/03:04:43.369  97-053/03:06:34.533
          00000000000000000000000000000000000000000000000000507019001 701004000111D00011A8000100900010B8100100C000100000

E6JNFEA14002E6JNFEA14002AEX03839232:85:003839234:76:01         JUPITER  5214 1 1 0 1 4 6 1 1 0 1 4 600010 0000000000 1 2.00.3000
0065525                  19LPU  97-053/03:27:54.533  97-053/03:29:49.866
          00000000000000000000000000000000000000000000000000507019001 701004000111D00011A8000100900010B8100100C000100000

E6JNFEA14003E6JNFEA14003AEY03839259:86:003839261:59:01         JUPITER  5214 1 1 0 1 4 6 1 1 0 1 4 600010 0000000000 1 2.00.3000
0065525                  19LPU  97-053/03:55:13.200  97-053/03:56:56.700
          00000000000000000000000000000000000000000000000000507019001 701004000111D00011A8000100900010B8100100C000100000

E6NNHNDARK04E6NNHNDARK04AFA03839795:00:003839796:00:01         CAL      3214 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                  32LPU  97-053/12:56:13.347  97-053/12:57:14.014
          00000000000000000000000000000000000000000000000000032603200126011FDFF011FDFF010000001000000100000010000001000000100
0001000001000000100000010000001000000100000010000001000000100000010000001000000100000010000001000000100000010000001000000100000
E6JNFEA15001E6JNFEA15001AFB03839811:00:003839812:67:01         JUPITER  5214 1 1 0 1 4 6 1 1 0 1 4 600010 0000000000 1 2.00.3000
0065525                  20LPU  97-053/13:12:24.013  97-053/13:14:09.200
          00000000000000000000000000000000000000000000000000507020001 701000000111D000119900010190010B8100100C000100000

E6JNFEA15002E6JNFEA15002AFC03839827:86:003839829:67:01         JUPITER  5214 1 1 0 1 4 6 1 1 0 1 4 600010 0000000000 1 2.00.3000
0065525                  20LPU  97-053/13:29:31.866  97-053/13:31:20.533
          00000000000000000000000000000000000000000000000000507020001 701000000111D000119900010190010B8100100C000100000

E6JNFEA15003E6JNFEA15003AFD03839844:86:003839846:50:01         JUPITER  5214 1 1 0 1 4 6 1 1 0 1 4 600010 0000000000 1 2.00.3000
0065525                  20LPU  97-053/13:46:43.200  97-053/13:48:20.678
          00000000000000000000000000000000000000000000000000507020001 701000000111D000119900010190010B8100100C000100000

E6NNPCTCAL01E6NNPCTCAL01AFP03840151:89:003840152:54:01         CAL      3414 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                  228LPU  97-053/18:57:10.001  97-053/18:57:47.334
          00000000000000000000000000000000000000000000000000032622800126011FDC0011FDC0011FDC0011FDC0011FDC0011FDC0011FDC0011FD
C0011FDC0011FDC0011FDC0011FDC0011FD80011FD80011FD80011FD80011FD80011FD80011FD80011FD80011FD80011FD80011FD8001000000100000
E6NNPCTCAL01E6NNPCTCAL01BFP03840159:00:003840160:00:01         CAL      3414 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                  228LPU  97-053/19:04:16.000  97-053/19:05:16.667
          00000000000000000000000000000000000000000000000000032622800126011FDC0011FDC0011FDC0011FDC0011FDC0011FDC0011FDC0011FD
C0011FDC0011FDC0011FDC0011FDC0011FD80011FD80011FD80011FD80011FD80011FD80011FD80011FD80011FD80011FD80011FD8001000000100000
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E6CNCALLRT01E6CNCALLRT01RDC03840332:00:003840334:12:01         CALLISTO 3414 1 1 0 0 124 1 1 0 0 12400100 1101111011 0 0.00.0000
0000000                  408RT 1997-053/21:59:11.2001997-053/22:01:20.533
          00000000000000000000000000000000000000000000000000301408000 1261FFFF

E6CNGLOBAL01E6CNGLOBAL01AFE03840341:00:003840343:02:01         CALLISTO 3414 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                  270MPW  97-053/22:08:17.327  97-053/22:10:19.994
          00000000000000000000000000000000000000000000000000032627000126010 7DFE01005FE0107DFE01005FE0107DFE01005FE0107DFE01005
FE0107DFE01005FE0107DFE01005FE0107DFE0100DFE0107DFE0100DFE0107DFE0100DFE0107DFE0100DFE0107DFE0100DFE01000000100000
E6NNRCTRLT01LSNNRCTRTA01RXU03843565:00:003843565:12:01         CAL      3114 1 1 0 0 124 1 1 0 0 12400100 1101111011 0 0.00.0000
0000000                  252RT 1997-056/04:28:06.4001997-056/04:28:14.400
          00000000000000000000000000000000000000000000000000303252000 312003FF12007FF0200000

E6NNRCTRLT01LSNNRCTRTA01SXU03843571:00:003843572:12:01         CAL      3114 1 1 0 0 124 1 1 0 0 12400100 1101111011 0 0.00.0000
0000000                  252RT 1997-056/04:34:10.4001997-056/04:35:19.066
          00000000000000000000000000000000000000000000000000303252000 312003FF12007FF0200000

E6NNRCTRLT01LSNNRCTRTA01TXU03843577:00:003843577:12:01         CAL      3114 1 1 0 0 124 1 1 0 0 12400100 1101111011 0 0.00.0000
0000000                  252RT 1997-056/04:40:14.4001997-056/04:40:22.400
          00000000000000000000000000000000000000000000000000303252000 312003FF12007FF0200000

E6NNRCTRLT02LSNNRCTRTB01RYE03869779:00:003869779:12:01         CAL      3114 1 1 0 0 124 1 1 0 0 12400100 1101111011 0 0.00.0000
0000000                  252RT 1997-074/14:13:21.4001997-074/14:13:29.400
          00000000000000000000000000000000000000000000000000303252000 312003FF12007FF0200000

E6NNRCTRLT02LSNNRCTRTB01SYE03869785:00:003869786:12:01         CAL      3114 1 1 0 0 124 1 1 0 0 12400100 1101111011 0 0.00.0000
0000000                  252RT 1997-074/14:19:25.4001997-074/14:20:34.066
          00000000000000000000000000000000000000000000000000303252000 312003FF12007FF0200000

E6NNRCTRLT02LSNNRCTRTB01TYE03869791:00:003869791:12:01         CAL      3114 1 1 0 0 124 1 1 0 0 12400100 1101111011 0 0.00.0000
0000000                  252RT 1997-074/14:25:29.4001997-074/14:25:37.400
          00000000000000000000000000000000000000000000000000303252000 312003FF12007FF0200000

E6NNDET3CHK1E6NNDET3CHK1RDN03875634:00:003875635:12:01         CAL      3214 1 1 0 0 124 1 1 0 0 12400100 1101111011 0 0.00.0000
0000000                   72RT 1997-078/16:53:24.5331997-078/16:54:33.200
          00000000000000000000000000000000000000000000000000302072000 2240E0000200000

E6NNOPCAL_01E6NNOPCAL_01RDN03886044:00:003886046:12:01         CAL      3414 1 1 0 0 124 1 1 0 0 12400100 1101111011 0 0.00.0000
0000000                  120RT 1997-086/00:19:04.1331997-086/00:21:13.466
          00000000000000000000000000000000000000000000000000302120000 224187000200000

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```

Chapter 5 - Detailed Observation Designs

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5.2	NIMS E6 Observations	3-164

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.

NIMS Chopper On

ACTIVITY ID: E6NNCHOPON01-
START TIME: 97-049/11:30:02.600

Activity ID: Orbit E6 Target N Inst N OAPEL CHOPON SeqNo 01 -

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

Time System	CDS	Load ID	Calendar Date 02/18/97	Week 8
Start	JEE-CDS	00003405:00:0	97-049/11:30:02.600	JEE-002/09:22:50.000
End	JEE-CDS	00003395:00:0	97-049/11:40:09.267	JEE-002/09:12:43.333
Duration		00000010:00:0	000/00:10:06.667	000/00:10:06.667

Top Label E6NNCHOPON01-
Bottom Label

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

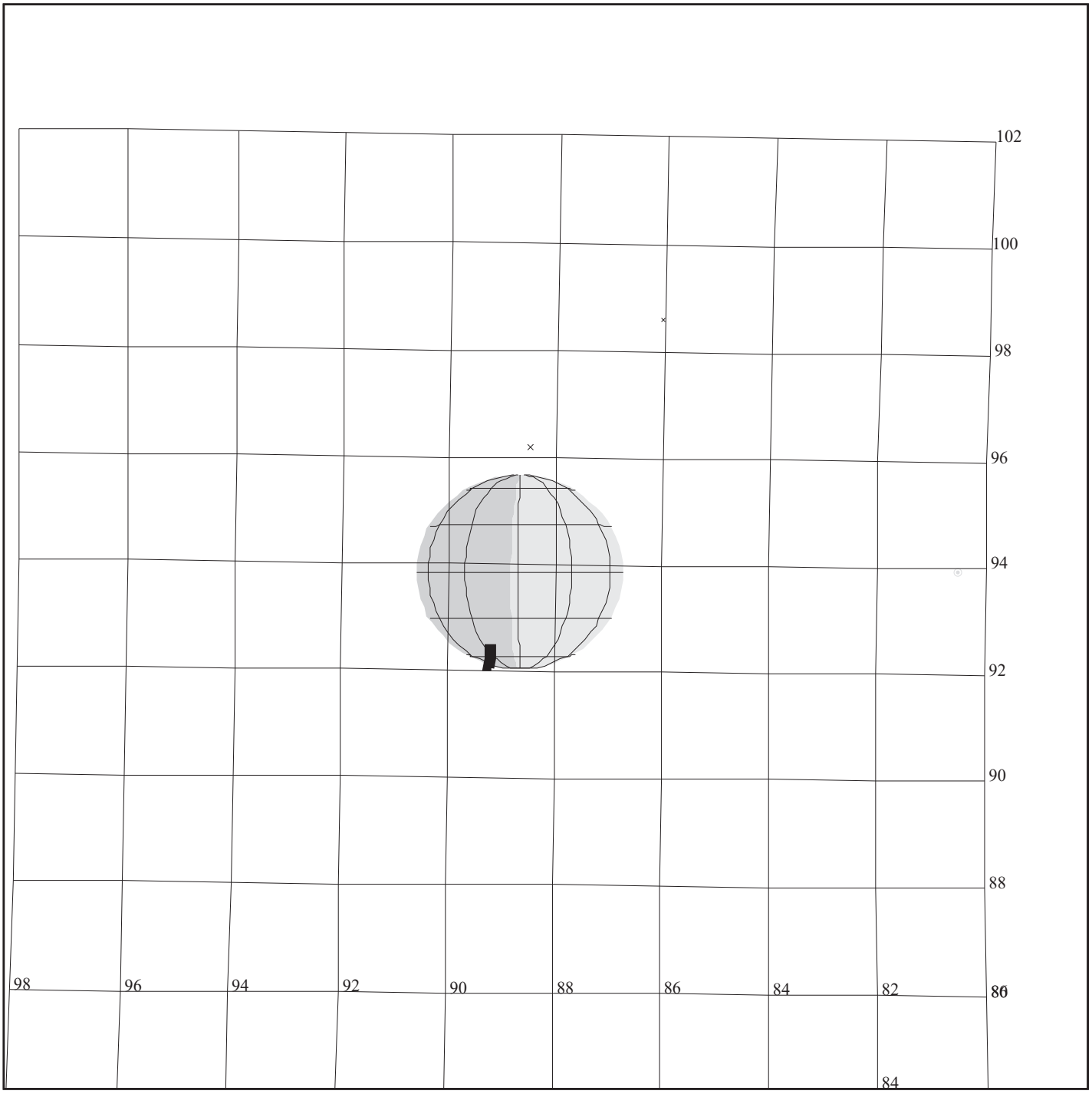
Observation Objective

Configure the NIMS instrument for orbit E6 data taking.
This orbit includes observations of Jupiter, Io, Callisto, Europa, Ganymede and the main ring.

Design Detail

Use NIMSINIT with the following commands:

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



165BD:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/0842 TC= 2(90 95.44)
A= 182 pD= 0 SR=17.450 RA50=215.29 DEC50=-14.38 cone= 90.00 clock= 95.44
165BE:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/1944 TC= 2(90.30 92.20)
A= 182 pD= 0 SR=17.450 RA50=214.46 DEC50=-17.53 cone= 90.30 clock= 92.20

E6JNAURORA01

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6JUE6AURA02

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS: **THINNING:UVS 1**

START:JEE 97-051/20:52:52.600 -CDS 3452:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.200**

OBSERVATION:E6JUE6AURA02 **DESCRIP:UVS AURORAL MAP E6 IN**

NIMS Aurora Ride Along

ACTIVITY ID: E6JNAURORA01+
START TIME: 97-049/12:38:47.934

Activity ID: Orbit E6 Target J Inst N OAPEL AURORA SeqNo 01 +

Title	NIMS Aurora Ride Along	Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team NIMS	Working Group MWG

Time System CDS Load ID Calendar Date 02/18/97 Week 8

Start	JEE-CDS 00003337:00:0	97-049/12:38:47.934	JEE-002/08:14:04.666
End	JEE-CDS 00003330:00:0	97-049/12:45:52.600	JEE-002/08:07:00.000
Duration	00000007:00:0	000/00:07:04.666	000/00:07:04.666

Top Label E6JNAURORA01+
Bottom Label

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

Observation Objective

Real Time Ride-Along observation with UVS taking 4 408 wavelength spectra in Jupiter's southern aurora region.

Data Returned

Design Detail

Real-time Ride-Along with UVS in Jupiter's southern aurora region.

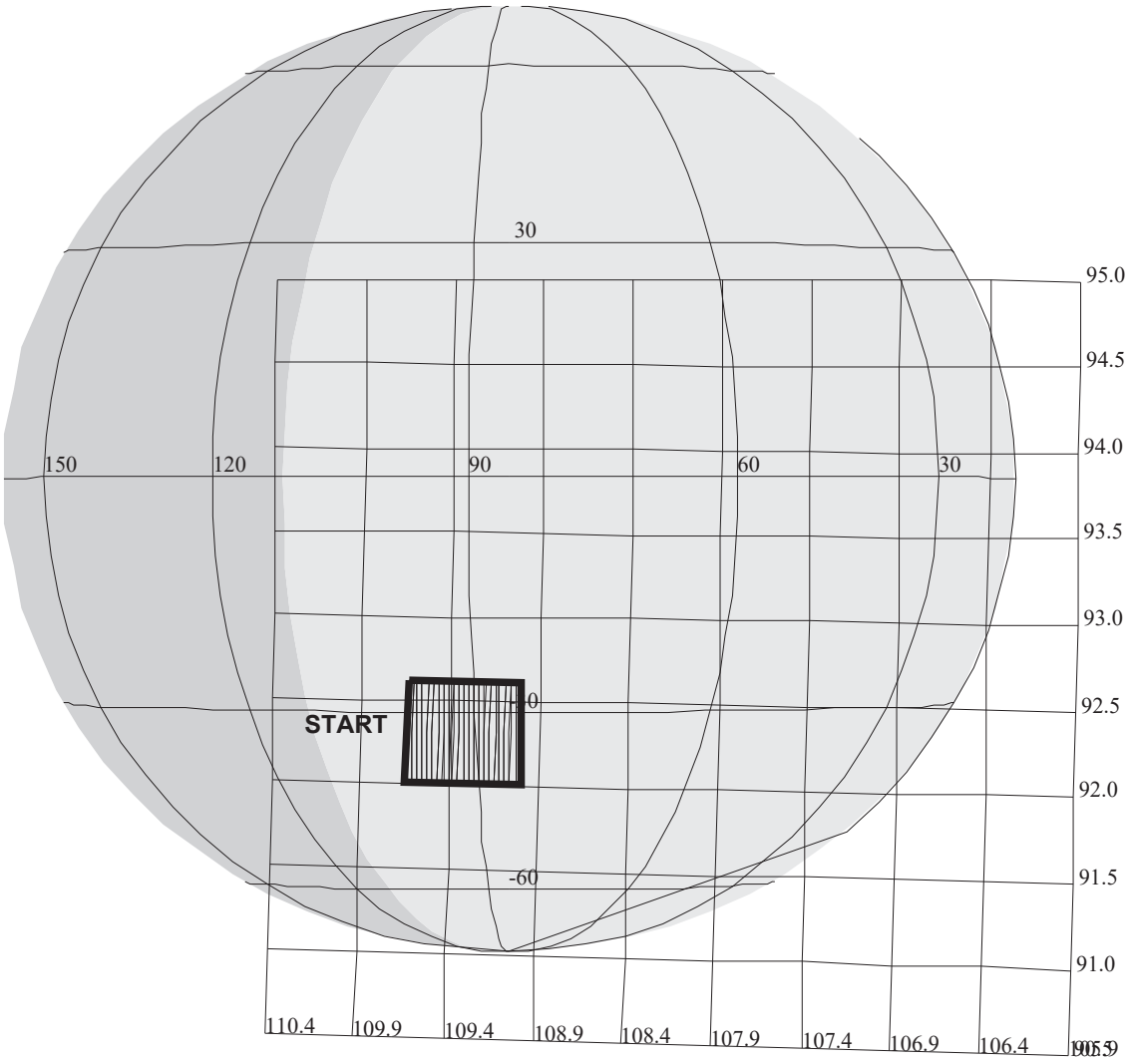
Alias: E6JUE6AURA02

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

1 Rim of Real Time

Long Map (LM), Gain 4, Grating Start 0, R/T, JLM408

Galileo Activity Plan Form 01/21/97 14:44:46 rev 6/95



165DB:TT= 0 TMC= 1 C= 5.40 XC= 0.00 BS= 0/4024 TC= 1(-33 91.5)
A= 364 pD= 0 SR=17.450 RA50=234.29 DEC50=-22.89 cone=109.64 clock= 92.30
117DB:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/4024
1:#s= 1 Cs= -10.90 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 300 rD= 2

E6JNFEA06401

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6JNFEA06401

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-051/20:52:52.600 -CDS 1951:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750**

OBSERVATION:E6JNFEA06401 **DESCRIP:JUP_FEAT_TRK_64_DEG_PHASE_01**

Jupiter Feature Track 64 deg phase pt 1 ACTIVITY ID: E6JNFEA06401-
START TIME: 97-050/11:55:08.600

Activity ID: Orbit E6 Target J Inst N OAPEL FEA064 SeqNo 01 -

Title	Jupiter Feature Track 64 deg phase pt 1	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS Working Group AWG

Time System	CDS	Load ID	Calendar Date 02/19/97 Week 8
Start	JEE-CDS	00001956:00:0	97-050/11:55:08.600 JEE-001/08:57:44.000
End	JEE-CDS	00001949:00:0	97-050/12:02:13.267 JEE-001/08:50:39.333
Duration		00000007:00:0	000/00:07:04.667 000/00:07:04.667

Top Label	E6JNFEA06401-				
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

One of 23 OAPELs constituting the feature tracks for this feature campaign. This is the first observation obtained on a rotation with phase angle approximately 64 degrees. Jupiter imaged in 4 colors, using NIMS downlink wavelength table JFT04A. This observation acquired with White Oval DE feature near the terminator, assuming feature coordinates 33 degrees south latitude (planetographic) and 91.5 degrees west longitude (System III).

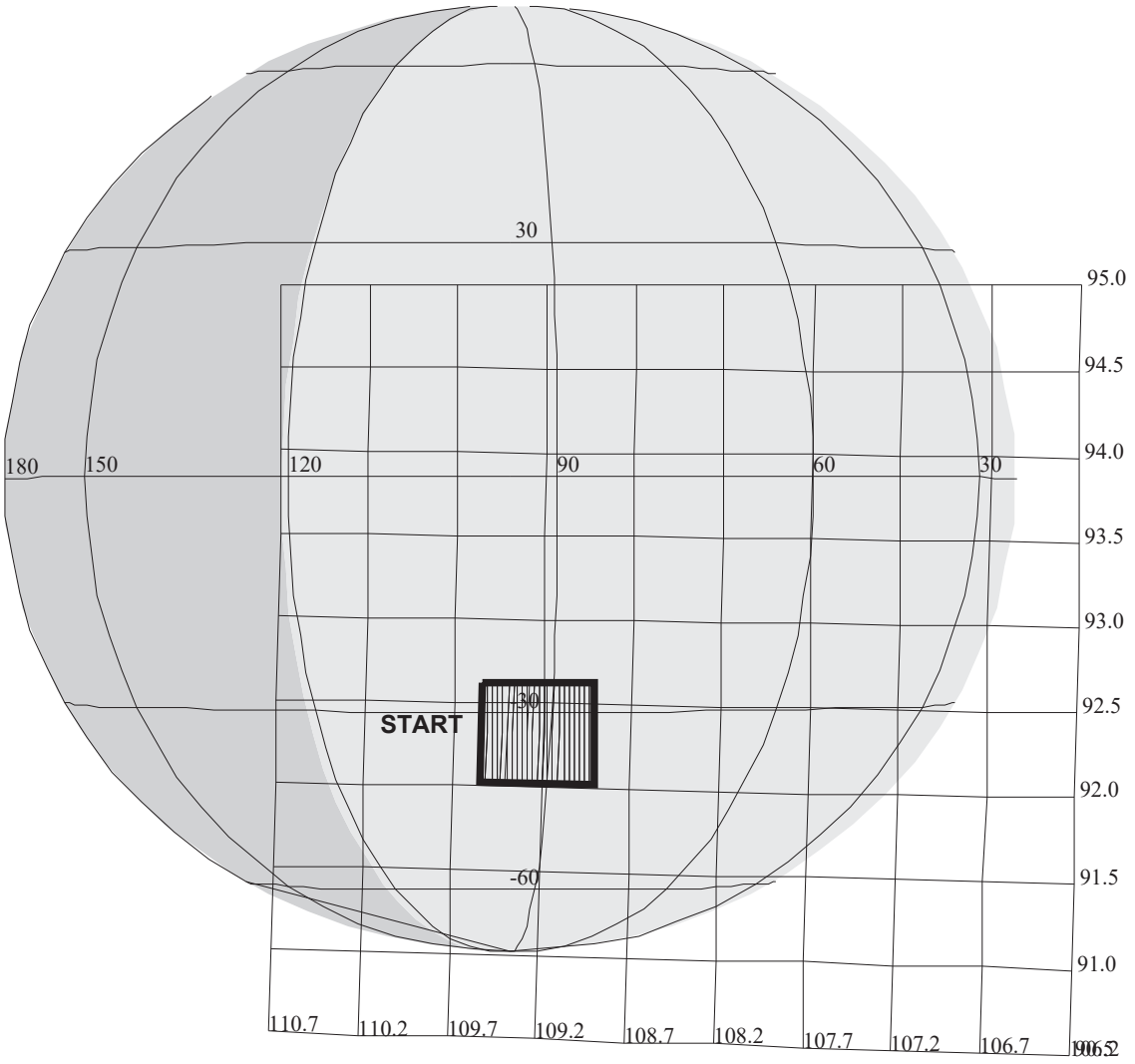
Data Returned

Design Detail

Short map, Nyquist-sampled observation of 1*1 (10*10 mrad) area centered on White Oval DE feature near 91.5 degrees West longitude, 33 degrees South latitude (planetographic). S/C distance about 1.38 million KM, NIMS IFOV (NIMSEL) = 690 KM; 1*1 mosaic covers 13800*13800 KM. About 100 seconds of scanning, accumulating 0.02554 mbtg in 4 colors, and using 0.00336 tracks. 4 rims reserved for targetting.

Short Map (SM), Gain 2, Grating Start 1, LPU, JFT68A, JFT04A

Galileo Activity Plan Form 01/21/97 14:44:46 rev 6/95



165DC:TT= 0 TMC= 1 C= 5.50 XC= 0.00 BS= 0/6936 TC= 1(-33 91.5)
A= 728 pD= 0 SR=17.450 RA50=234.19 DEC50=-22.87 cone=109.55 clock= 92.30
117DC:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/6936
1:#s= 1 Cs= -10.90 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 300 rD= 2

E6JNFEA06402

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6JNFEA06402

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-051/20:52:52.600 -CDS 1935:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750**

OBSERVATION:E6JNFEA06402 **DESCRIP:JUP_FEAT_TRK_64_DEG_PHASE_02**

Jupiter Feature Track 64 deg phase pt 2 ACTIVITY ID: E6JNFEA06402-
START TIME: 97-050/12:11:19.267

Activity ID: Orbit E6 Target J Inst N OAPEL FEA064 SeqNo 02 -

Title	Jupiter Feature Track 64 deg phase pt 2	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS Working Group AWG

Time System	CDS	Load ID	Calendar Date 02/19/97 Week 8
Start	JEE-CDS	00001940:00:0	97-050/12:11:19.267 JEE-001/08:41:33.333
End	JEE-CDS	00001933:00:0	97-050/12:18:23.934 JEE-001/08:34:28.666
Duration		00000007:00:0	000/00:07:04.667 000/00:07:04.667

Top Label E6JNFEA06402-
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

One of 23 OAPELs constituting the feature tracks for this feature campaign. This is the second observation obtained on a rotation with phase angle approximately 64 degrees. Jupiter imaged in 4 colors, using NIMS downlink wavelength table JFT04A. This observation acquired with White Oval DE feature near the central meridian, assuming feature coordinates 33 degrees south latitude (planetographic) and 91.5 degrees west longitude (System III).

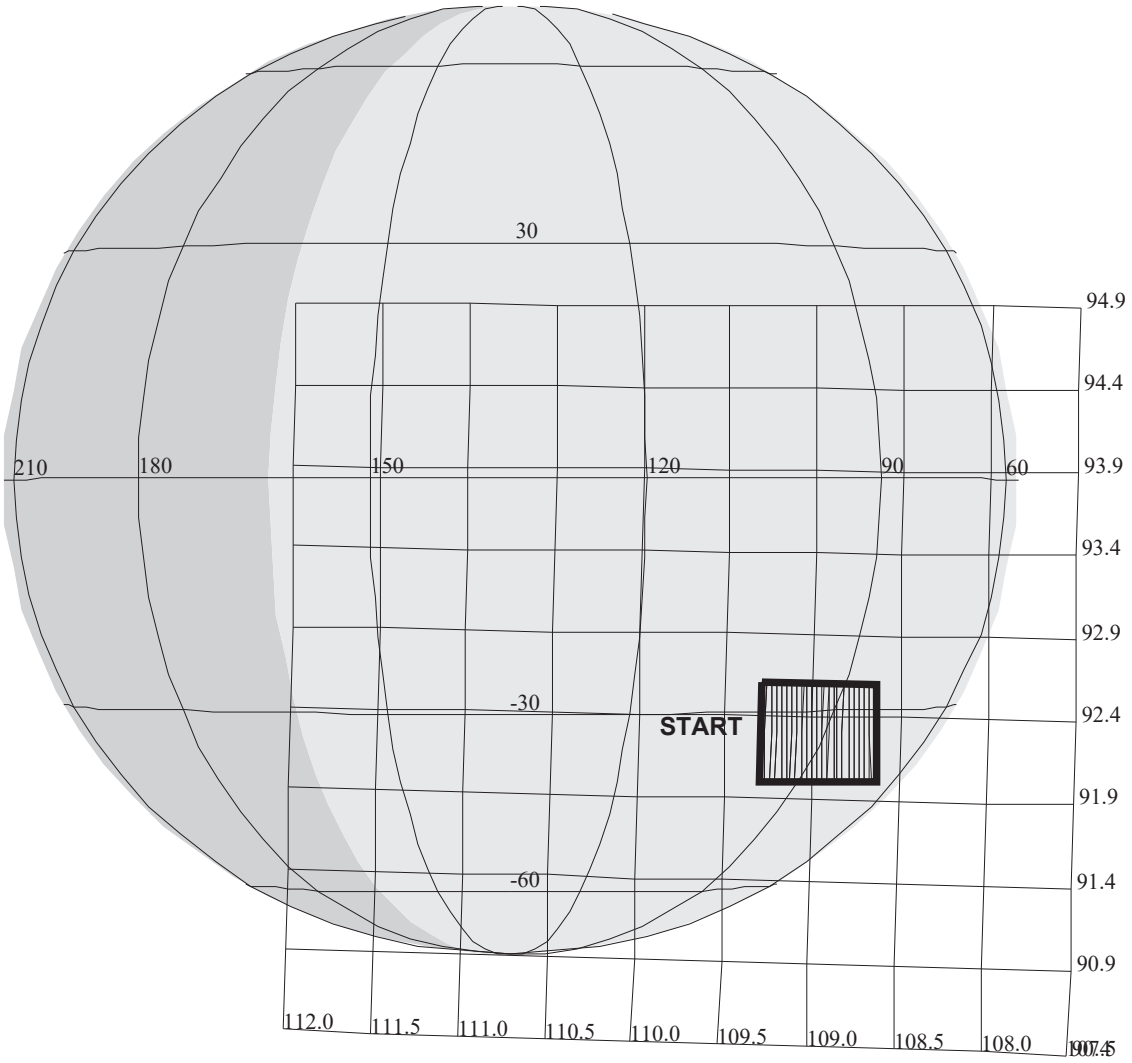
Data Returned

Design Detail

Short map, Nyquist-sampled observation of 1*1 (10*10 mrad) area centered on White Oval feature DE near 91.5 degrees West longitude, 33 degrees South latitude (planetographic). S/C distance about 1.37 million KM, NIMS IFOV (NIMSEL) = 685 KM; 1*1 mosaic covers 13700*13700 KM. About 100 seconds of scanning, accumulating 0.02554 mbtg in 4 colors, and using 0.00336 tracks. 4 rims reserved for targetting.

Short Map (SM), Gain 2, Grating Start 1, LPU, JFT68A, JFT20A

Galileo Activity Plan Form 01/21/97 14:44:46 rev 6/95



165DE:TT= 0 TMC= 1 C= 5.50 XC= 0.00 BS= 0/9130 TC= 1(-33 91.5)
A= 728 pD= 0 SR=17.450 RA50=233.97 DEC50=-22.83 cone=109.34 clock= 92.30
117DE:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/9130
1:#s= 1 Cs= -10.90 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 300 rD= 2

E6JNFEA06403

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6JNFEA06403

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-051/20:52:52.600 -CDS 1868:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750**

OBSERVATION:E6JNFEA06403 **DESCRIP:JUP_FEAT_TRK_64_DEG_PHASE_03**

Jupiter Feature Track 64 deg phase pt 3 ACTIVITY ID: E6JNFEA06403-
START TIME: 97-050/13:19:03.934

Activity ID: Orbit E6 Target J Inst N OAPEL FEA064 SeqNo 03 -

Title	Jupiter Feature Track 64 deg phase pt 3	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS Working Group AWG

Time System	CDS	Load ID	Calendar Date 02/19/97 Week 8
Start	JEE-CDS	00001873:00:0	97-050/13:19:03.934 JEE-001/07:33:48.666
End	JEE-CDS	00001866:00:0	97-050/13:26:08.600 JEE-001/07:26:44.000
Duration		00000007:00:0	000/00:07:04.666 000/00:07:04.666

Top Label	E6JNFEA06403-				
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

One of 23 OAPELs constituting the feature tracks for this feature campaign. This is the third observation obtained on a rotation with phase angle approximately 64 degrees. Jupiter imaged in 4 colors, using NIMS downlink wavelength table JFT04A. This observation acquired with White Oval DE feature near minimum airmass, assuming feature coordinates 33 degrees south latitude (planetographic) and 91.5 degrees west longitude (System III).

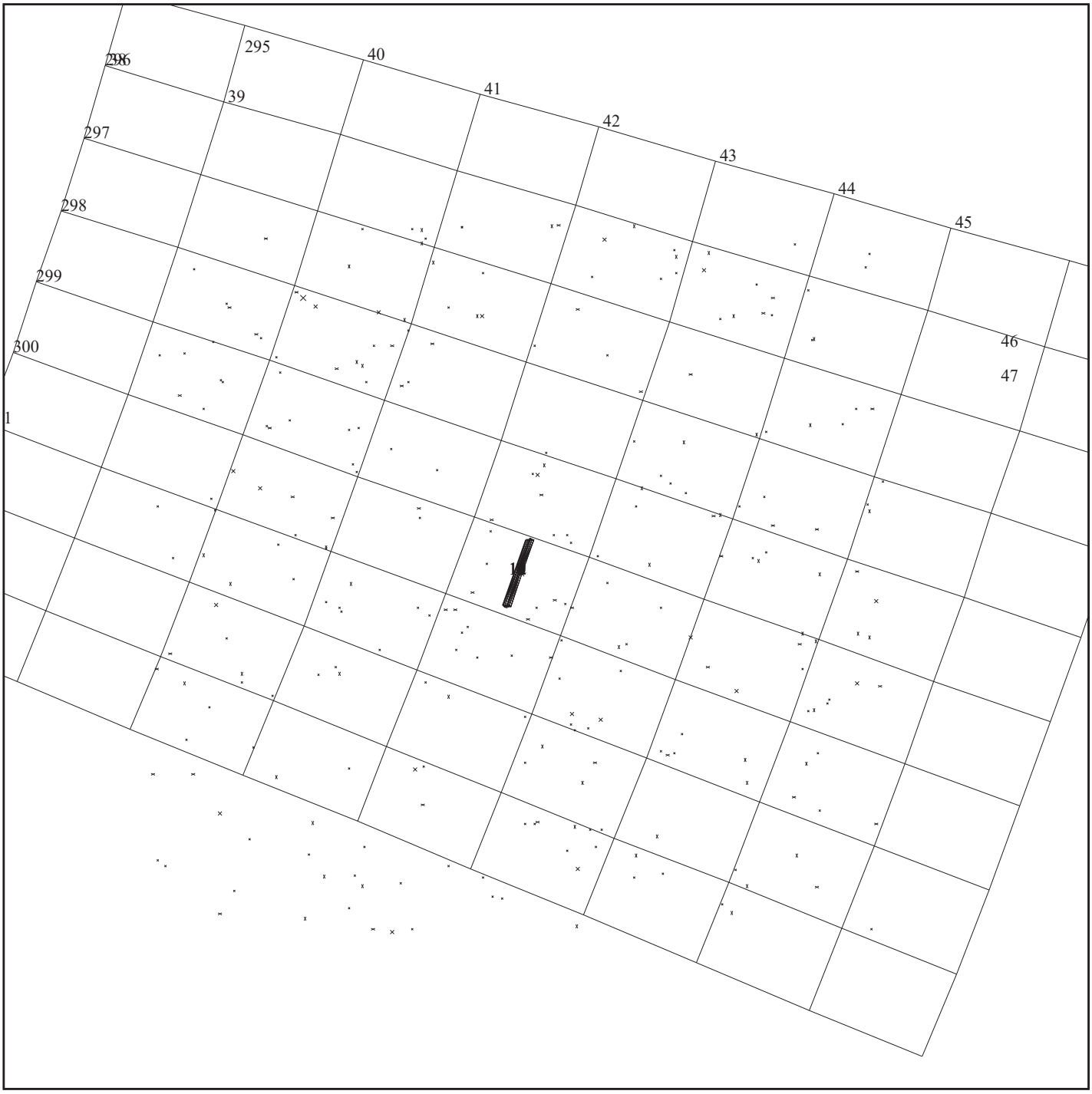
Data Returned

Design Detail

Short map, Nyquist-sampled observation of 1*1 (10*10 mrad) area centered on White Oval DE feature near 91.5 degrees West longitude, 33 degrees South latitude (planetographic). S/C distance about 1.35 million KM, NIMS IFOV (NIMSEL) = 675 KM; 1*1 mosaic covers 13500*13500 KM. About 100 seconds of scanning, accumulating 0.02554 mbtg in 4 colors, and using 0.00336 tracks. 4 rims reserved for targetting.

Short Map (SM), Gain 2, Grating Start 1, LPU, JFT68A, JFT04A

Galileo Activity Plan Form 01/21/97 14:44:46 rev 6/95



165DF:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/3386 TC=14(Betelgeuse O)
A= 728 pD= 0 SR=17.450 RA50= 88.12 DEC50= 7.40 cone= 42.51 clock=300.44

E6HNDARK__01

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6HNDARK__01

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS: **THINNING:NIM 2**

START:IEE 97-051/12:03:03.333 -CDS 936:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.800**

OBSERVATION:E6HNDARK__01 **DESCRIP:DARK OBSERVATION**

Dark Observation

ACTIVITY ID: E6HNDARK__01-
START TIME: 97-050/20:11:36.000

Activity ID: Orbit E6 Target H Inst N OAPEL DARK SeqNo 01 -

Title	Dark Observation			Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	Calendar Date	02/19/97	Week 8
Start	IEE-CDS	00000941:00:0	97-050/20:11:36.000	IEE-000/15:51:27.333	
End	IEE-CDS	00000934:00:0	97-050/20:18:40.667	IEE-000/15:44:22.666	
Duration		00000007:00:0	000/00:07:04.667	000/00:07:04.667	

Top Label	E6HNDARK__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

Obtain 1 rim of dark sky data per day for each day of NIMS observations within the E6 orbit for purposes of calibration.

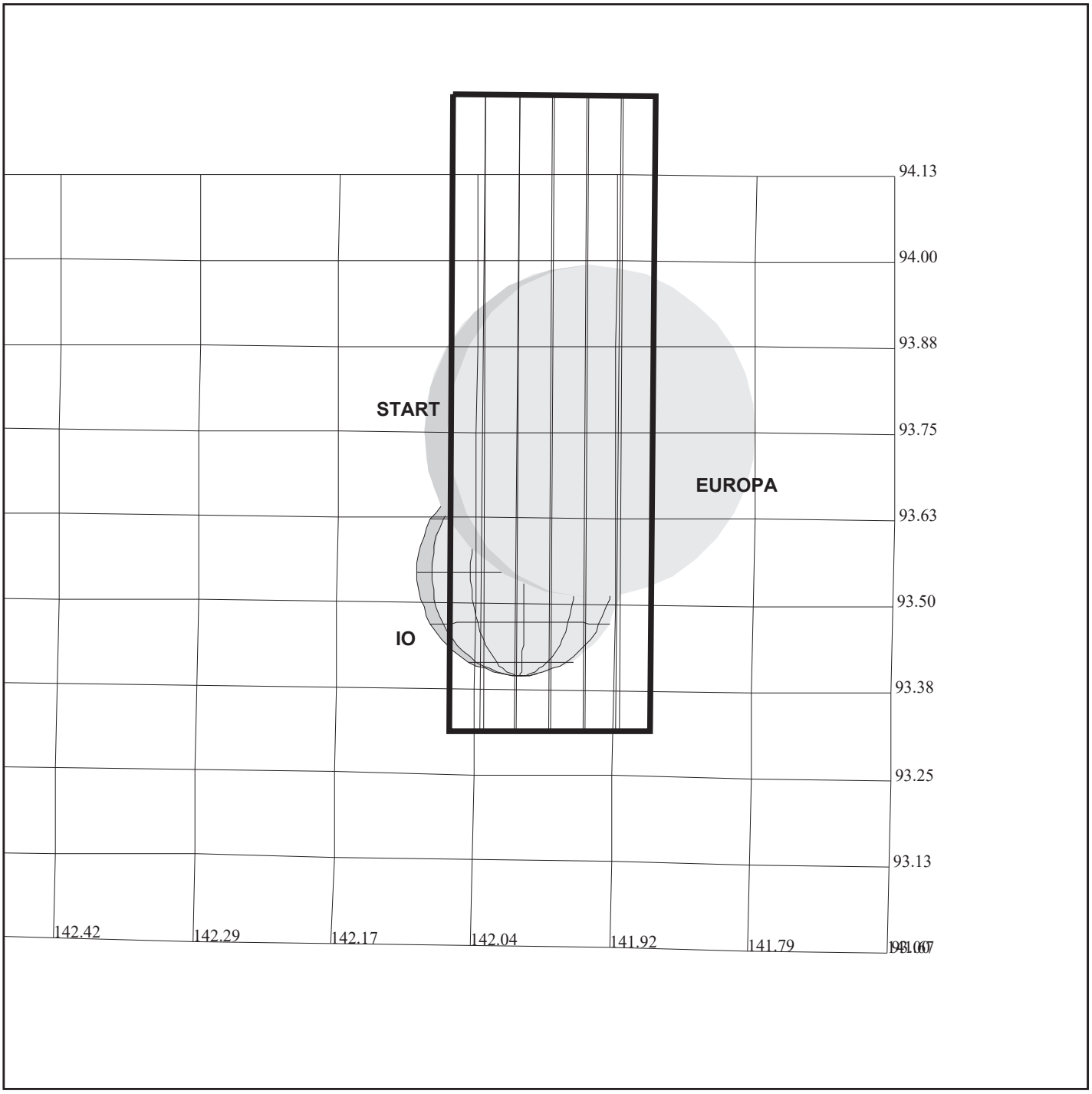
Data Returned

Design Detail

Sit and stare design, target to dark-sky and remain there for 1 rim. Observation to be done in long-map mode.

Long Map (LM), Gain 2, Grating Start 0, LPU, DRK34, DRK32

Galileo Activity Plan Form 01/21/97 14:44:46 rev 6/95



165DG:TT= 0 TMC= 1 C= 1.00 XC= 2.50 BS= 0/6480 TC= 3
A= 546 pD= 0 SR=17.450 RA50=269.81 DEC50=-25.03 cone=142.06 clock= 93.78
117DG:#SB= 1 OR= 0.020 RR=12.000 BM=F RC= 1 BS= 0/6480
1:#s= 1 Cs= -2.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 312 rD= 2

E6ENCHEMIS01

DESIGN G3.0 jmart: 2/26/1997 11:22:38

FILE:P.E6INCHEMIS01

TARGET BODY : IO

MINI:m.E6INCHEMIS01

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS:

THINNING:NIM 2

START:IEE 97-051/12:03:03.333 -CDS 919:00:0

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.200

OBSERVATION:E6INCHEMIS01

DESCRIP:MONITORING OF IO DAYSIDE

Monitoring of IO's Dayside

ACTIVITY ID: E6ENCHEMIS01-
START TIME: 97-050/20:29:48.000

Activity ID: Orbit E6 Target E Inst N OAPEL CHEMIS SeqNo 01 -

Title	Monitoring of IO's Dayside			Instrument	NIMS
Requestor	NIMS-SWG/R. LOPES	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	Calendar Date	02/19/97	Week 8
Start	IEE-CDS	00000923:00:0	97-050/20:29:48.000	IEE-000/15:33:15.333	
End	IEE-CDS	00000917:00:0	97-050/20:35:52.000	IEE-000/15:27:11.333	
Duration		00000006:00:0	000/00:06:04.000	000/00:06:04.000	

Top Label	E6ENCHEMIS01-				
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 ~800 km/nimsel (most observations will have resolutions between 120 and 400 km/nimsel).

This observation turned into a distant observation of Europa when Io was obscured by Europa.

Data Returned

Design Detail

Partial or full disk mosaics within C/A + or - 32 hours in all orbits. High priority orbits are G2, C3, E4, E6 and E10 where resolution for lit disk is best.

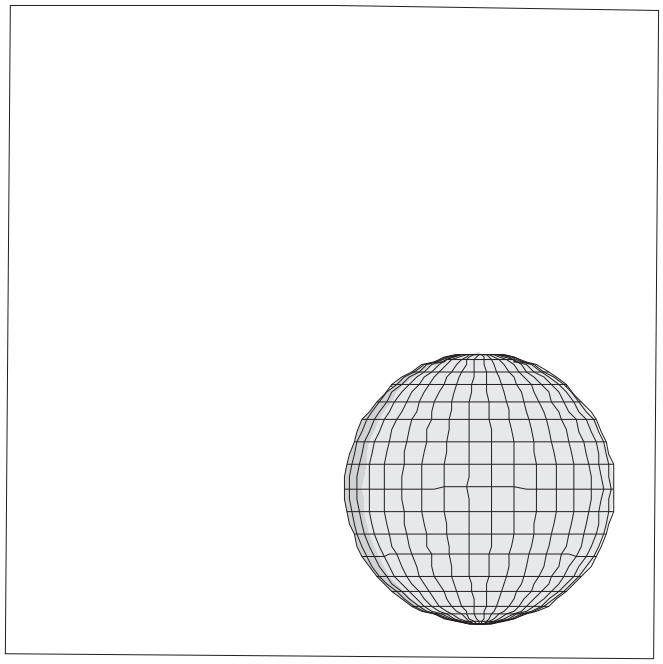
Long map, 51 wavelengths.
Tracks used per orbit: 0.05 to 0.42.
Bits To Ground per orbit: 0.3 to 2.2 Mbits.

ALIAS: E6INCHEMIS01

Interestingly, Io was completely obscured by Europa in this observation - hence the alias. Contrary to what the Pointer plot shows, Io was COMPLETELY obscured by Europa. NO Io spectra apppear in ANY of the NIMS pixels. The TMC was set for the motion of Io, not Europa.

Long Map (LM), Gain 2, Grating Start 0, MPW, ELM245, ELM96

Galileo Activity Plan Form 01/21/97 14:44:46 rev 6/95



165JS:TT= 0 TMC= 1 C= -2.10 XC= -1.95 BS= 0/2486 TC= 3
A= 728 pD= 104 SR=17.450 RA50=270.96 DEC50=-25.25 cone=143.10 clock= 93.37
118JS:#SB= 1 Cs= 4.10 XCs= 0.00 TPP= 26 SR= 3.000 RR= 3.000 BM=F RC= 1 BS= 3/2486
1:#s= 2 #p= 2 Cr= -3.94 XCr= 3.90

E6NNHEALTH01

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6ISSRFMON01

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS:

THINNING:

START:IEE 97-051/12:03:03.333 -CDS 886:00:0

BODY PLOT TIME:TARGET-TIME D= 104 S= 0.200

OBSERVATION:E6ISSRFMON01

DESCRIP:IO SURFACE MONITOR CAMPAIGN OCM

E6 Health 1

ACTIVITY ID: E6NNHEALTH01-
START TIME: 97-050/21:31:28.600

Activity ID: Orbit E6 Target N Inst N OAPEL HEALTH SeqNo 01 -

Title	E6 Health 1			Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	Calendar Date	02/19/97	Week 8
Start	JEE-CDS	00001386:00:0	97-050/21:31:28.600	JEE-000/23:21:24.000	
End	JEE-CDS	00001380:00:0	97-050/21:37:32.600	JEE-000/23:15:20.000	
Duration		00000006:00:0	000/00:06:04.000	000/00:06:04.000	

Top Label	E6NNHEALTH01-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	0	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

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

Data Returned

Design Detail

No scan platform commanding. Scan platform is at the end of the slew of the previous observation: E6ISSRFMON01

Long Map (LM), Gain 2, Grating Start 0, R/T, RT003

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NIMS Software Load

ACTIVITY ID: E6NIMSP2LD01-
START TIME: 97-050/21:37:32.600

Activity ID: Orbit E6 Target N Inst I OAPEL MSP2LD SeqNo 01 -

Title	NIMS Software Load			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID	Calendar Date	02/19/97	Week 8
Start	JEE-CDS	00001380:00:0	97-050/21:37:32.600	JEE-000/23:15:20.000	
End	JEE-CDS	00001370:00:0	97-050/21:47:39.267	JEE-000/23:05:13.333	
Duration		00000010:00:0	000/00:10:06.667	000/00:10:06.667	

Top Label	E6NIMSP2LD01-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	100	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

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

Memory load from CDS to NIMS and restart.
Diagnostic checksum, processor halt, memory reload from CDS,
instrument restart, and operational mode set.

Design Detail

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

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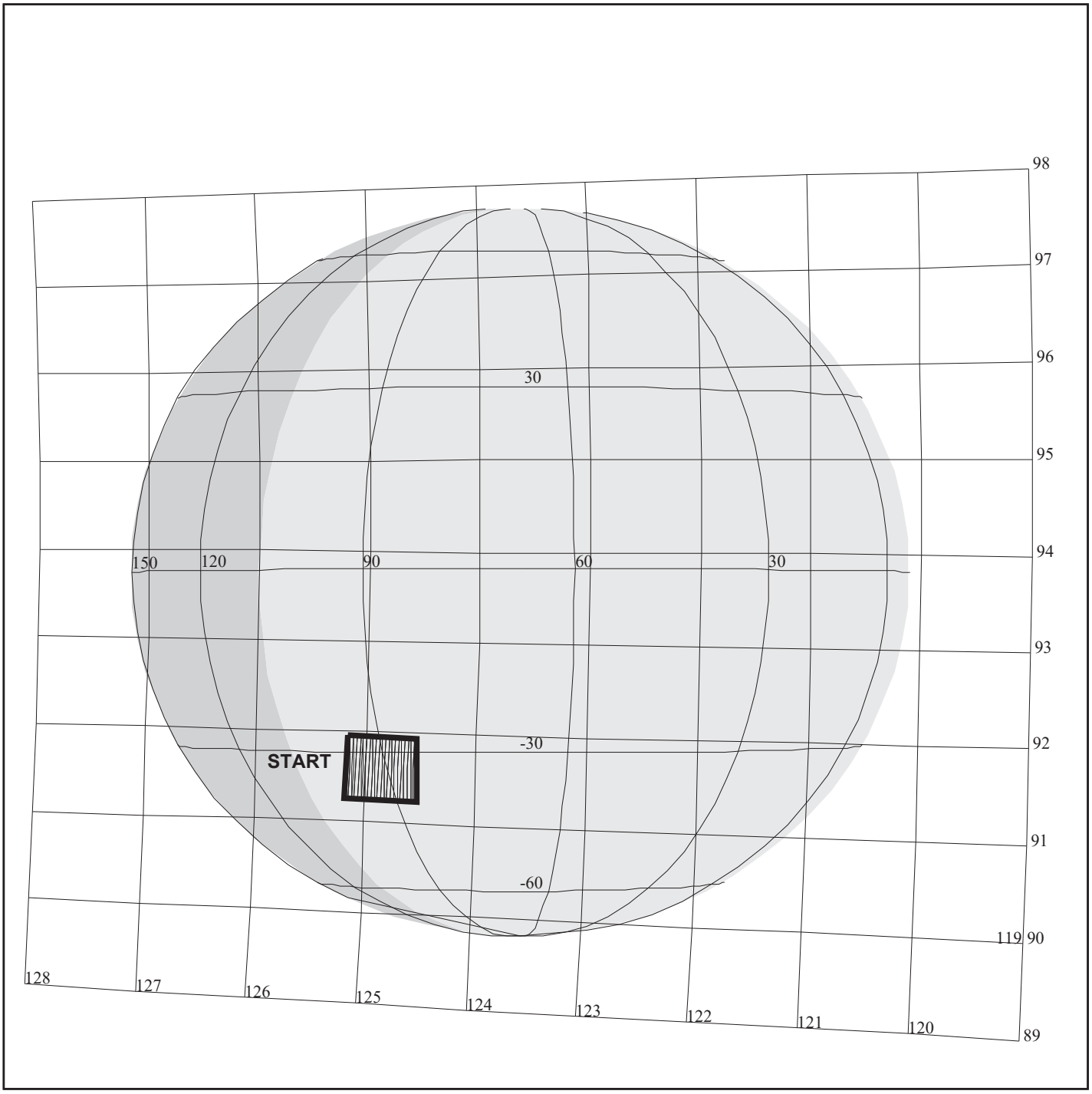


165DH:TT= 0 TMC= 1 C= 5.00 XC= 0.00 BS= 0/0130 TC= 1(-33 91.5)
A= 728 pD= 0 SR=17.450 RA50=251.03 DEC50=-25.99 cone=125.17 clock= 91.60
117DH:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/0130
1:#s= 1 Cs= -10.90 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 300 rD= 2

E6JNFEA04801

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6JNFEA04801

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-051/20:52:52.600 -CDS 1368:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750**

OBSERVATION:E6JNFEA04801 **DESCRIP:JUP_FEAT_TRK_48_DEG_PHASE_01**

Jupiter Feature Track 48 deg phase pt 1 ACTIVITY ID: E6JNFEA04801-
START TIME: 97-050/21:48:06.600

Activity ID: Orbit E6 Target J Inst N OAPEL FEA048 SeqNo 01 -

Title	Jupiter Feature Track 48 deg phase pt 1	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS Working Group AWG

Time System	CDS	Load ID	Calendar Date 02/19/97 Week 8
Start	JEE-CDS	00001369:50:0	97-050/21:48:06.600 JEE-000/23:04:46.000
End	JEE-CDS	00001366:00:0	97-050/21:51:41.934 JEE-000/23:01:10.666
Duration		00000003:50:0	000/00:03:35.334 000/00:03:35.334

Top Label E6JNFEA04801-
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

One of 23 OAPELs constituting the feature tracks for this feature campaign. This is the first observation obtained on a rotation with phase angle approximately 48 degrees. Jupiter imaged in 4 colors, using NIMS downlink wavelength table JFT04A. This observation acquired with White Oval DE feature near the terminator, assuming feature coordinates 33 degrees south latitude (planetographic) and 91.5 degrees west longitude (System III).

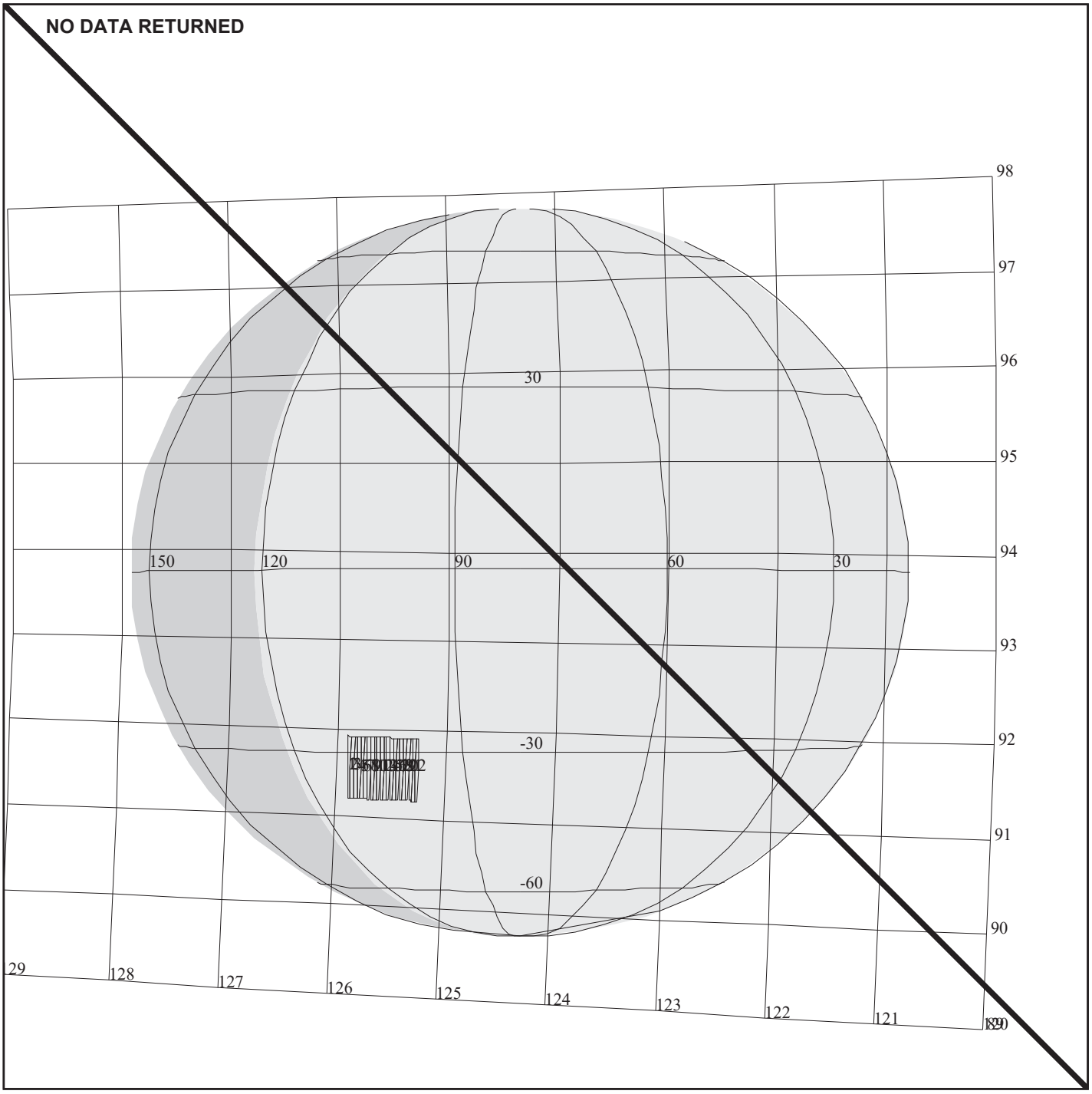
Data Returned

Design Detail

Short map, Nyquist-sampled observation of 1*1 (10*10 mrad) area centered on White Oval DE feature near 91.5 degrees West longitude, 33 degrees South latitude (planetographic). S/C distance about 1.10 million KM, NIMS IFOV (NIMSEL) = 550 KM; 1*1 mosaic covers 11000*11000 KM. About 100 seconds of scanning, accumulating 0.02554 mbtg in 4 colors, and using 0.00336 tracks. 4 rims reserved for targetting.

Short Map (SM), Gain 2, Grating Start 1, LPU, JFT68A, JFT04A

Galileo Activity Plan Form 01/21/97 14:44:47 rev 6/95



165DI:TT= 0 TMC= 1 C= 5.50 XC= 0.00 BS= 0/4316 TC= 1(-33 104)
A= 182 pD= 0 SR=17.450 RA50=251.83 DEC50=-26.09 cone=125.89 clock= 91.56
117DI:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/4316
1:#s= 1 Cs= -10.90 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 300 rD= 2

E6JNFEA04802

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6JNFEA04802

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-051/20:52:52.600 -CDS 1345:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750**

OBSERVATION:E6JNFEA04802 **DESCRIP:JUP_FEAT_TRK_48_DEG_PHASE_02**

Jupiter Observation 48 Phase

ACTIVITY ID: E6JNFEA04802-
START TIME: 97-050/22:09:53.934

Activity ID: Orbit E6 Target J Inst N OAPEL FEA048 SeqNo 02 -

Title	Jupiter Observation 48 Phase	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team NIMS	Working Group AWG

Time System	CDS	Load ID	Calendar Date	02/19/97	Week 8
Start	JEE-CDS	00001348:00:0	97-050/22:09:53.934	JEE-000/22:42:58.666	
End	JEE-CDS	00001343:00:0	97-050/22:14:57.267	JEE-000/22:37:55.333	
Duration		00000005:00:0	000/00:05:03.333	000/00:05:03.333	

Top Label E6JNFEA04802-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	0	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of 23 OAPELs constituting the feature tracks for this feature campaign. This is the second observation obtained on a rotation with phase angle approximately 48 degrees. Jupiter imaged in 4 colors, using NIMS downlink wavelength table JFT04A. This observation acquired with White Oval DE feature near the terminator, assuming feature coordinates 33 degrees south latitude and 91.5 degrees west longitude (System III).

NOTE: ON 12/11/96 IT WAS DECIDED THAT NO DATA FROM THIS OBSERVATION WILL BE TRANSMITTED TO THE GROUND.

No Data Returned

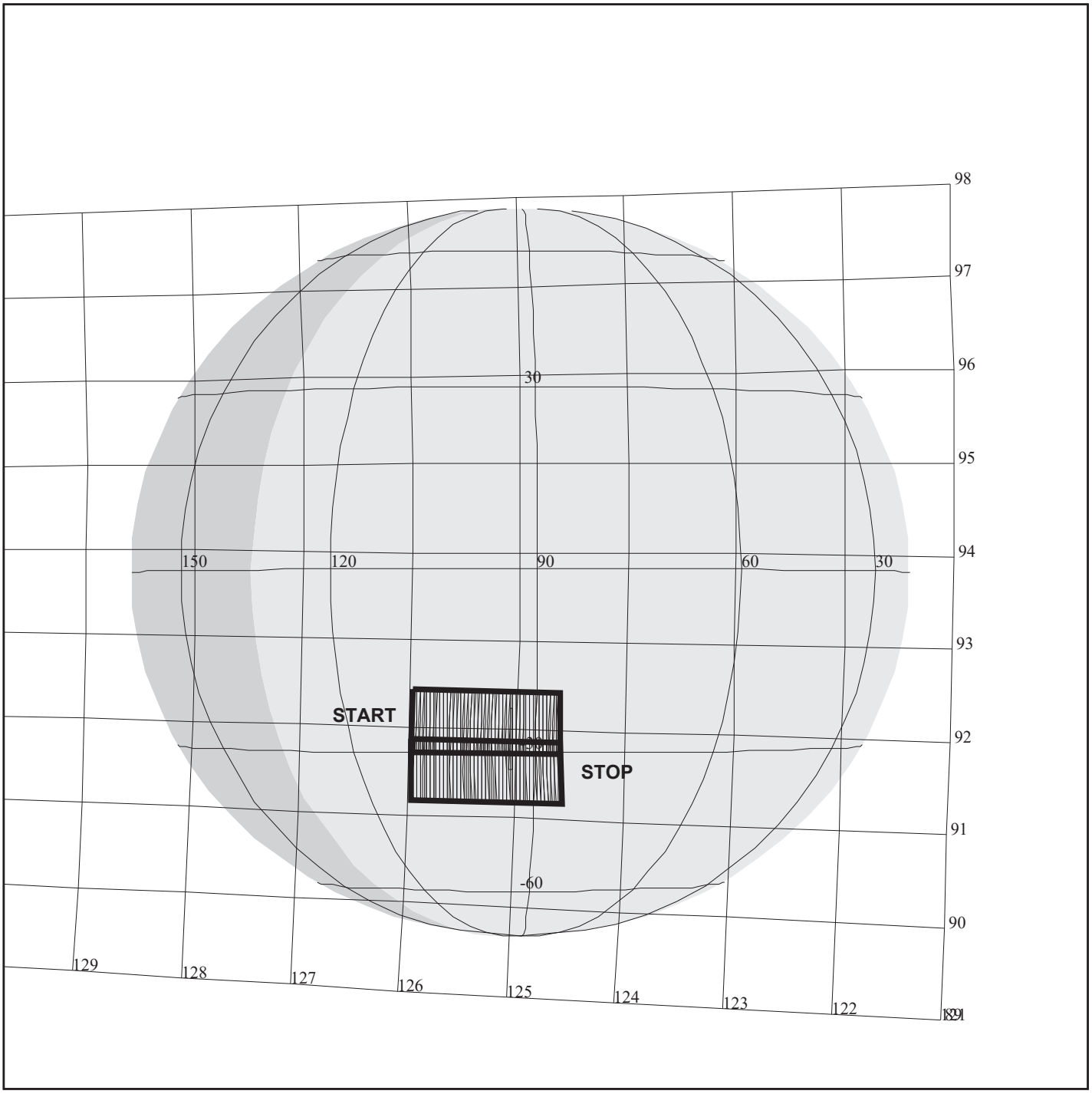
Design Detail

Short map, Nyquist-sampled observation of 1*1 (10*10 mrad) area centered on White Oval DE feature near 91.5 degrees West longitude, 33 degrees South latitude. S/C distance about 1.10 million KM, NIMS IFOV (NIMSEL) = 550 KM; 1*1 mosaic covers 11000*11000 KM. About 100 seconds of scanning, accumulating 0.02554 mbtg in 4 colors, and using 0.00336 tracks.
4 rims reserved for targetting.

NOTE: ON 12/11/96 IT WAS DECIDED THAT NO DATA FROM THIS OBSERVATION WILL BE TRANSMITTED TO THE GROUND.

Short Map (SM), Gain 2, Grating Start 1, MPW, JFT68A, JFT04A

Galileo Activity Plan Form 01/21/97 14:44:47 rev 6/95



165DK:TT= 0 TMC= 1 C= 18.40 XC= 7.50 BS= 0/7956 TC= 1(-33 91.5)
A= 182 pD= 0 SR=17.450 RA50=251.94 DEC50=-25.67 cone=125.96 clock= 92.08
117DK:#SB= 1 OR= 0.110 RR=12.000 BM=F RC= 1 BS= 0/7956
1:#s= 2 Cs= -23.80 XCs= 0.00 Cr= 23.80 XCr= -8.00 sD= 600 rD= 40

E6JNPFTB4801

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6JNPFTB4801

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-051/20:52:52.600 -CDS 1325:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750**

OBSERVATION:E6JNPFTB4801 **DESCRIP:JUP_FEAT_TRK_48_DEG_PHASE_0**

Jupiter Feature Track B 48 deg part 1 ACTIVITY ID: E6JNPFTB4801-
START TIME: 97-050/22:31:07.934

Activity ID: Orbit E6 Target J Inst N OAPEL PFTB48 SeqNo 01 -

Title	Jupiter Feature Track B 48 deg part 1	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team NIMS	Working Group AWG

Time System	CDS	Load ID	Calendar Date 02/19/97 Week 8
Start	JEE-CDS	00001327:00:0	97-050/22:31:07.934 JEE-000/22:21:44.666
End	JEE-CDS	00001318:00:0	97-050/22:40:13.934 JEE-000/22:12:38.666
Duration		00000009:00:0	000/00:09:06.000 000/00:09:06.000

Top Label E6JNPFTB4801-
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

One of 23 OAPELs constituting the partial feature track for White Oval DE. This observation also includes part of White Oval BC. This is the second observation of White Oval DE obtained on a rotation with phase angle approximately 48 degrees. Jupiter imaged in 4 colors, using NIMS downlink wavelength table JFT04A. This observation acquired with White Oval BC near the terminator, assuming feature coordinates 33 degrees south latitude (planetographic) and 91.5 degrees west longitude (System III).

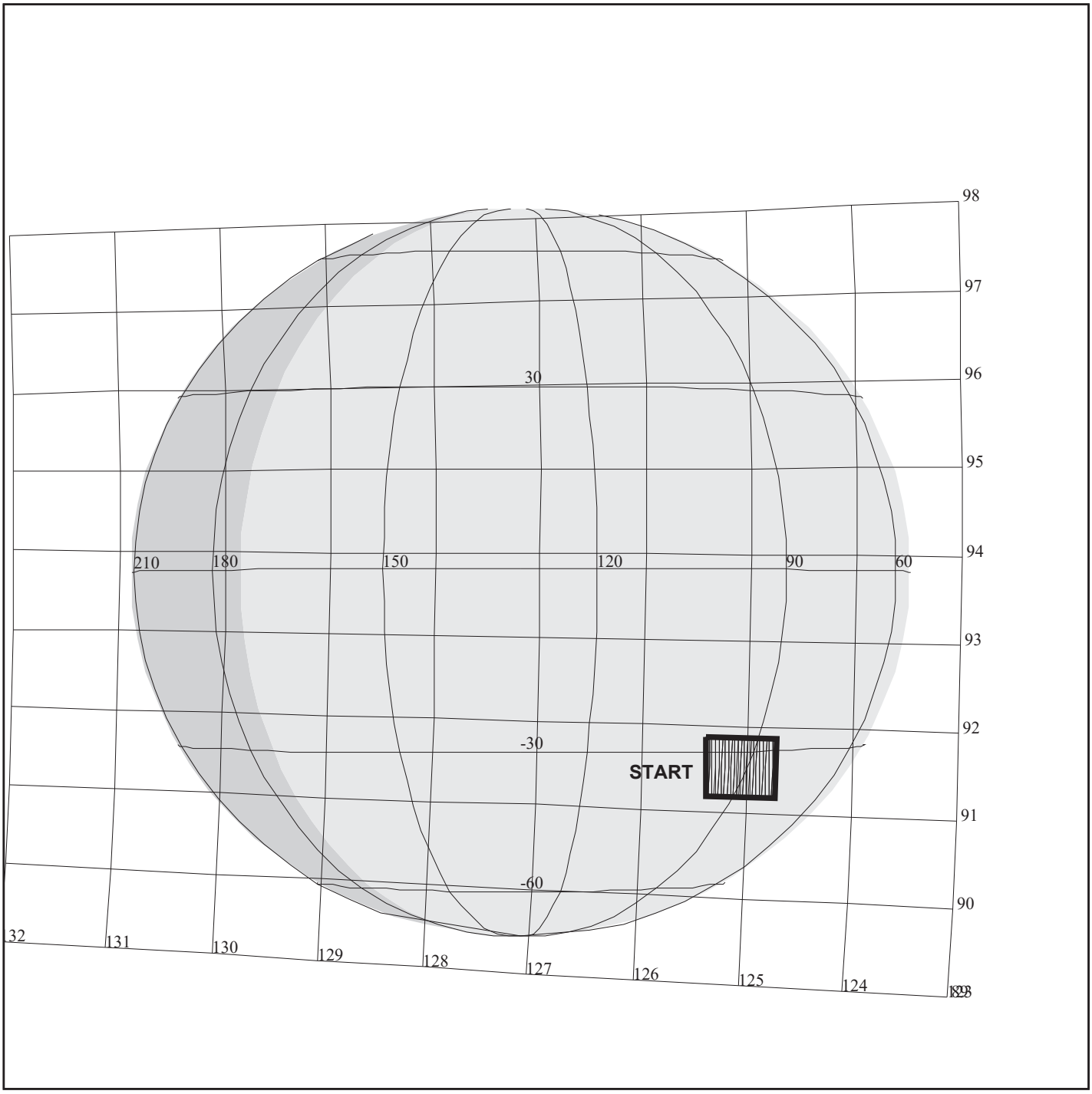
Data Returned

Design Detail

Short map, Nyquist-sampled observation of 2*2 (20*18 mrad) area positioned with bottom left-hand frame on White Oval DE feature near 91.5 degrees West longitude, 33 degrees South latitude (planetographic). S/C distance about 1.08 million KM, NIMS IFOV (NIMSEL) = 540 KM; 2*2 mosaic covers 21600*19440 with a 20% overlap between tiers. About 413 seconds of scanning (including 20 secs for reposition slews), accumulating 0.07 mbtg in 4 colors, and using 0.01411 tracks. 2 rims reserved for targetting.

Short Map (SM), Gain 2, Grating Start 1, LPU, JFT68C, JFT04A

Galileo Activity Plan Form 01/21/97 14:44:47 rev 6/95



165DL:TT= 0 TMC= 1 C= 5.50 XC= 0.00 BS= 0/9968 TC= 1(-33 91.5)
A= 182 pD= 0 SR=17.450 RA50=251.26 DEC50=-26.07 cone=125.38 clock= 91.53
117DL:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/9968
1:#s= 1 Cs= -10.90 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 300 rD= 2

E6JNFEA04803

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6JNFEA04803

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-051/20:52:52.600 -CDS 1259:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750**

OBSERVATION:E6JNFEA04803 **DESCRIP:JUP_FEAT_TRK_48_DEG_PHASE_03**

Jupiter Feature Track 48 deg phase pt 3 ACTIVITY ID: E6JNFEA04803-
START TIME: 97-050/23:35:50.600

Activity ID: Orbit E6 Target J Inst N OAPEL FEA048 SeqNo 03 -

Title	Jupiter Feature Track 48 deg phase pt 3	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS Working Group AWG

Time System	CDS	Load ID	Calendar Date	02/19/97	Week 8
Start	JEE-CDS	00001263:00:0	97-050/23:35:50.600	JEE-000/21:17:02.000	
End	JEE-CDS	00001255:30:0	97-050/23:43:35.934	JEE-000/21:09:16.666	
Duration		00000007:61:0	000/00:07:45.334	000/00:07:45.334	

Top Label	E6JNFEA04803-				
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

One of 23 OAPELs constituting the feature tracks for this feature campaign. This is the third observation obtained on a rotation with phase angle approximately 48 degrees. Jupiter imaged in 4 colors, using NIMS downlink wavelength table JFT04A. This observation acquired with White Oval DE feature near minimum airmass, assuming feature coordinates 33 degrees south latitude (planetographic) and 91.5 degrees west longitude (System III).

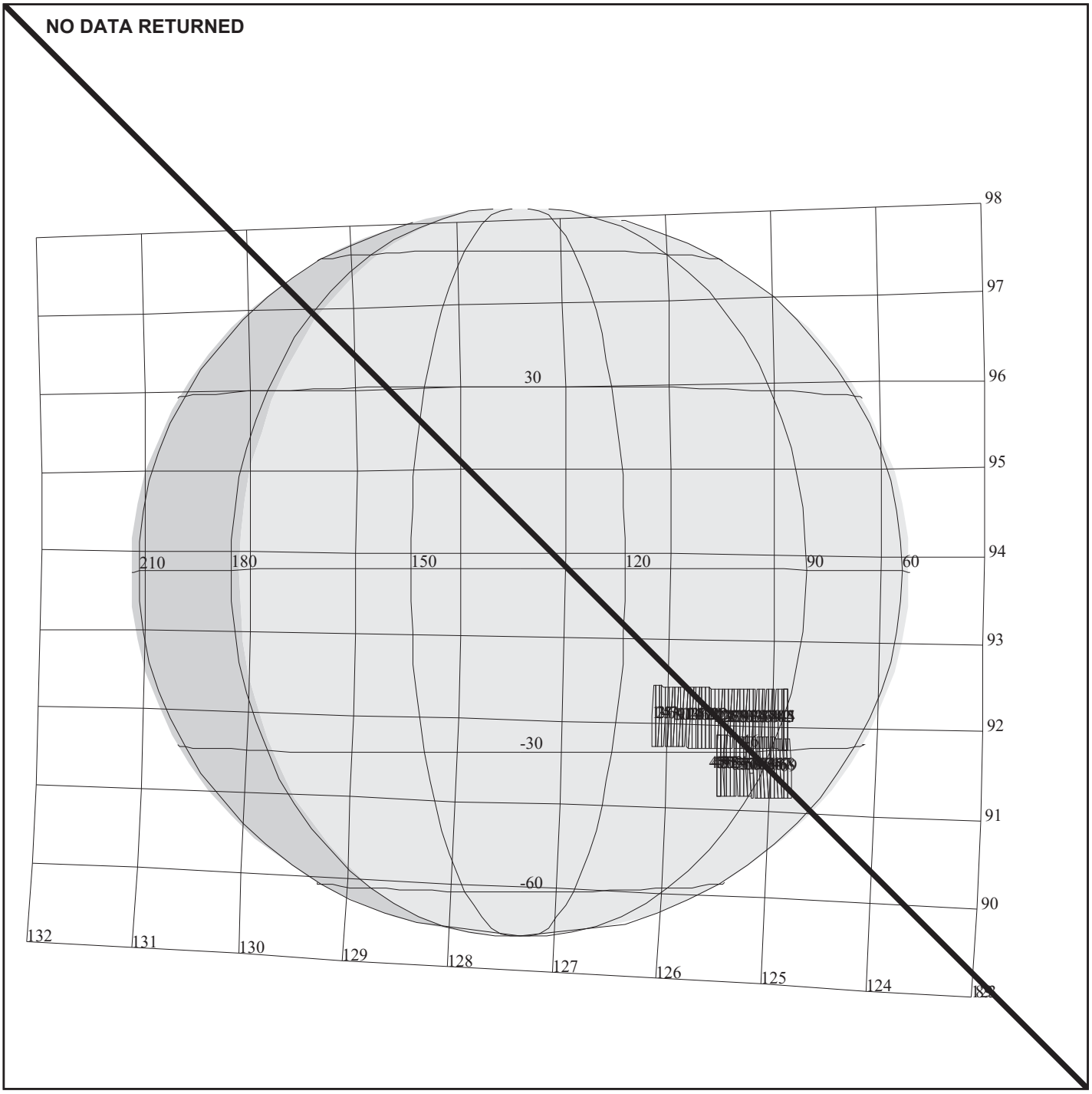
Data Returned

Design Detail

Short map, Nyquist-sampled observation of 1*1 (10*10 mrad) area centered on White Oval DE feature near 91.5 degrees West longitude, 33 degrees South latitude (planetographic). S/C distance about 1.07 million KM, NIMS IFOV (NIMSEL) = 535 KM 1*1 mosaic covers 10700*10700 KM. About 100 seconds of scanning, accumulating 0.02554 mbtg in 4 colors, and using 0.00336 tracks. 2 rims reserved for targetting.

Short Map (SM), Gain 2, Grating Start 1, LPU, JFT68A, JFT04A

Galileo Activity Plan Form 01/21/97 14:44:47 rev 6/95



165DM:TT= 0 TMC= 1 C= 17.50 XC= 8.00 BS= 0/1242 TC= 1(-33 91.5)
A= 182 pD= 0 SR=17.450 RA50=252.14 DEC50=-25.69 cone=126.14 clock= 92.08
117DM:#SB= 2 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/1242
1:#s= 1 Cs= -21.60 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 620 rD= 2
2:#s= 1 Cs= -10.90 XCs= 0.00 Cr= 11.00 XCr= -8.00 sD= 300 rD= 40

E6JNPFTA4802

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6JNPFTA4802

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-051/20:52:52.600 -CDS 1252:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750**

OBSERVATION:E6JNPFTA4802 **DESCRIP:JUP_FEAT_TRK_48_DEG_PHASE_02**

Jupiter Feature Track A 48 deg part 2 ACTIVITY ID: E6JNPFTA4802-
START TIME: 97-050/23:43:55.934

Activity ID: Orbit E6 Target J Inst N OAPEL PFTA48 SeqNo 02 -

Title	Jupiter Feature Track A 48 deg part 2	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team NIMS	Working Group AWG

Time System CDS Load ID Calendar Date 02/19/97 Week 8

Start	JEE-CDS 00001255:00:0	97-050/23:43:55.934	JEE-000/21:08:56.666
End	JEE-CDS 00001246:70:0	97-050/23:52:15.267	JEE-000/21:00:37.333
Duration	00000008:21:0	000/00:08:19.333	000/00:08:19.333

Top Label E6JNPFTA4802-
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

Another OAPEL constituting the partial feature track for feature A. This is the second observation obtained on a rotation with phase angle approximately 48 degrees. Jupiter imaged in 19 colors, using NIMS downlink wavelength table JFT19A. This observation acquired with feature near minimum airmass.

NOTED: AS OF 12/11/96, NO DATA FROM THIS OBSERVATION WILL BE TRANSMITTED TO THE GROUND.

No Data Returned

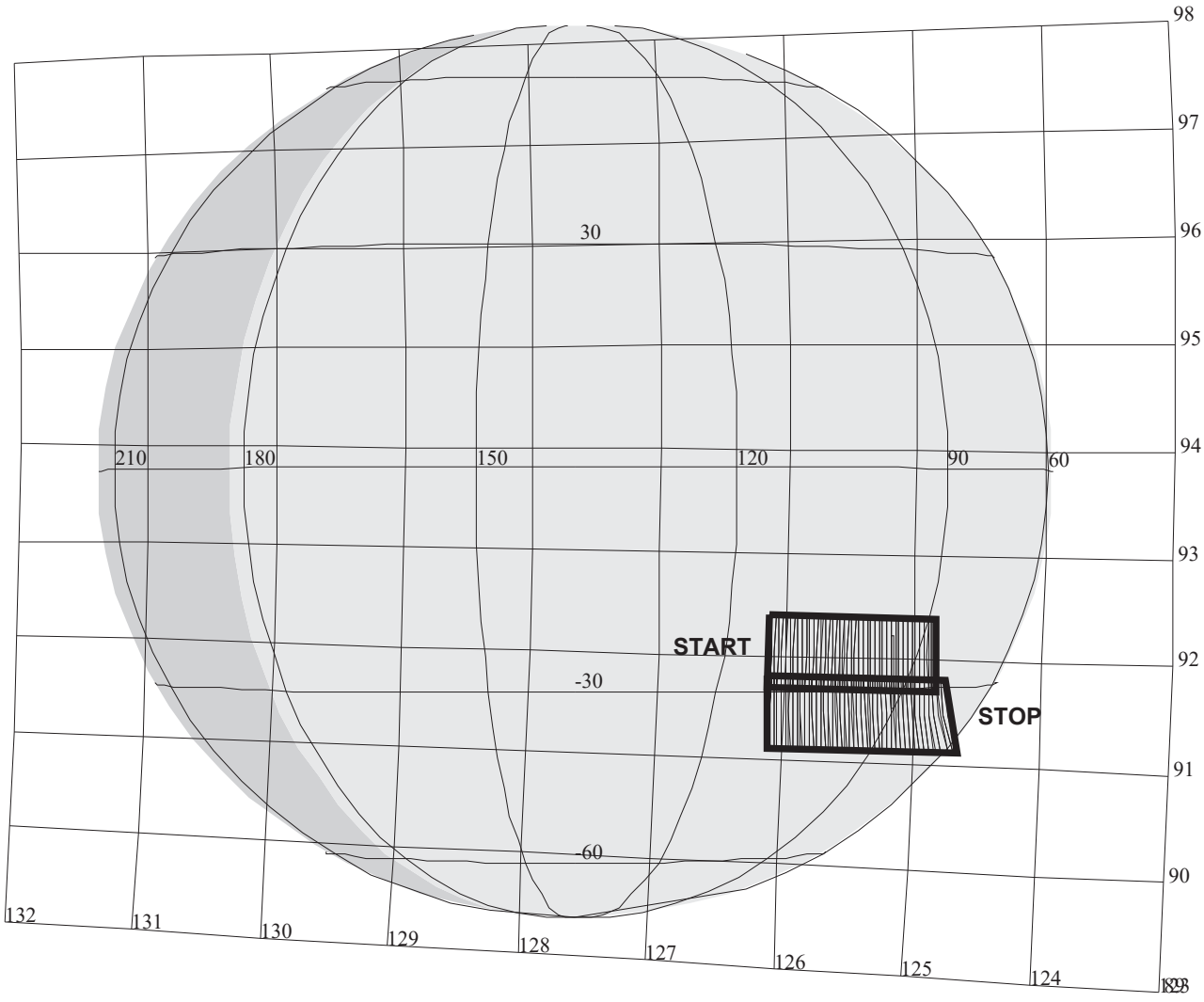
Design Detail

Short map, Nyquist-sampled observation of a 2*1 (20*10 mrad) scan of the southern equatorial region,one tier to the north of the SEB primary campaign feature, followed by a 1*1 (10*10 mrad) scan of the adjacent territory just to the east of the SEB campaign feature. S/C distance about 1.04 milllion KM, NIMS IFOV (NIMSEL) = 520 KM; 2*1 mosaic covers 20800*10400 KM, 1*1 scan cove 10400*10400 KM. About 320 seconds of scanning, accumulating 0.2875 mbtg in 4 colors, and using 0.01075 tracks. 2 rims reserved for targetting.

NOTE: AS OF 12/11/96, NO DATA FROM THIS OBSERVATION WILL BE TRANSMITTED TO THE GROUND.

Short Map (SM), Gain 2, Grating Start 1, LPU, JFT68A, JFT04A

Galileo Activity Plan Form 01/21/97 14:44:47 rev 6/95



165DN:TT= 0 TMC= 1 C= 4.50 XC= 8.00 BS= 0/2516 TC= 1(-33 107)
A= 182 pD= 0 SR=17.450 RA50=252.14 DEC50=-25.72 cone=126.14 clock= 92.04
117DN:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/2516
1:#s= 2 Cs= -21.90 XCs= 0.00 Cr= 21.90 XCr= -8.00 sD= 600 rD= 40

E6JNPFTB4802

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6JNPFTB4802

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-051/20:52:52.600 -CDS 1245:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750**

OBSERVATION:E6JNPFTB4802 **DESCRIP:JUP_FEAT_TRK_48_DEG_PHASE_0**

Jupiter Feature Track B 48 deg part 2 ACTIVITY ID: E6JNPFTB4802-
START TIME: 97-050/23:52:35.267

Activity ID: Orbit E6 Target J Inst N OAPEL PFTB48 SeqNo 02 -

Title	Jupiter Feature Track B 48 deg part 2	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team NIMS	Working Group AWG

Time System	CDS	Load ID	Calendar Date 02/19/97 Week 8
Start	JEE-CDS	00001246:40:0	97-050/23:52:35.267 JEE-000/21:00:17.333
End	JEE-CDS	00001238:00:0	97-051/00:01:07.267 JEE-000/20:51:45.333
Duration		00000008:40:0	000/00:08:32.000 000/00:08:32.000

Top Label E6JNPFTB4802-
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

One of 23 OAPELs constituting the White Oval DE feature track, the second also to see White Oval BC. This is the fourth observation of this feature obtained on a rotation with phase angle approximately 48 degrees. Jupiter imaged in 4 colors, using NIMS downlink wavelength table JFT04A. This observation acquired with White Oval DE between the central meridian and the minimum airmass point, assuming feature coordinates 33 degrees south latitude (planetographic) and 91.5 degrees west longitude (System III).

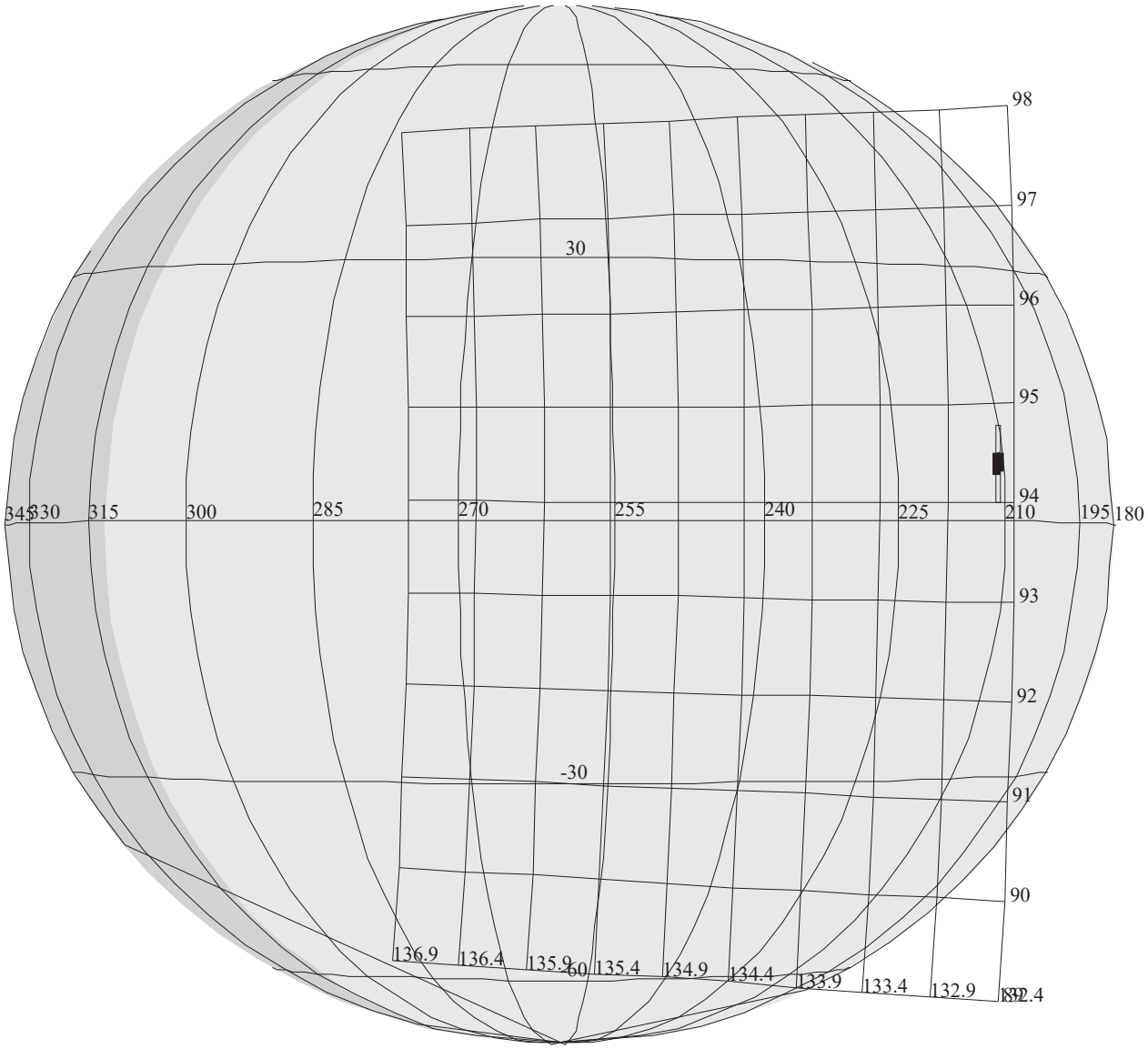
Data Returned

Design Detail

Short map, Nyquist-sampled observation of 2*2 (20*18 mrad) area positioned with White Oval DE in lower left-hand frame assuming feature near 91.5 degrees West longitude, 33 degrees South latitude (planetographic) S/C distance about 1.04 million KM, NIMS IFOV (NIMSEL) = 520 KM; 2*2 mosaic covers 20800*18720 KM with a 20% overlap between tiers. About 420 seconds of scanning (including 20 secs for reposition slews), accumulating 0.07 mbtg in 4 colors, and using 0.01411 tracks. 2 rims reserved for targetting.

Short Map (SM), Gain 2, Grating Start 1, LPU, JFT68C, JFT20A

Galileo Activity Plan Form 01/21/97 14:44:47 rev 6/95



165FJ:TT= 0 TMC= 1 C= 0.93 XC= 0.00 BS= 0/1100 TC= 1(6.5 210)
A= 546 pD= 0 SR=17.450 RA50=259.36 DEC50=-24.41 cone=132.56 clock= 94.39
117FJ:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/1100
1:#s= 1 Cs= -1.79 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 182 rD= 2

E6JNRTHOTS01

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6JNRTHOTS01

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS: **THINNING:NIM 7**

START:IEE 97-051/12:03:03.333 -CDS 509:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.900**

OBSERVATION:E6JNRTHOTS01 **DESCRIP:JUPITER_REAL_TIME_HOTSPOT**

Jupiter Real-Time Hotspot

ACTIVITY ID: E6JNRTHOTS01-
START TIME: 97-051/03:24:21.333

Activity ID: Orbit E6 Target J Inst N OAPEL RTHOTS SeqNo 01 -

Title	Jupiter Real-Time Hotspot	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team NIMS	Working Group AWG

Time System	CDS	Load ID	Calendar Date	02/20/97	Week 8
Start	IEE-CDS	00000513:00:0	97-051/03:24:21.333	IEE-000/08:38:42.000	
End	IEE-CDS	00000506:00:0	97-051/03:31:26.000	IEE-000/08:31:37.333	
Duration		00000007:00:0	000/00:07:04.667	000/00:07:04.667	

Top Label E6JNRTHOTS01-
Bottom Label

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

Observation Objective

4 Longmap spectra of the Hotspot region at 500 km/pixel on Jupiter.
Determination of water and phosphine content within the Hotspot
are primary objectives.

Data Returned

Design Detail

Long map real-time 1-rim spectra at 4 mirror positions centered on the
Hotspot region.
NIMSel coordinates: 265 degrees West longitude, 6.5 degrees North latitude.
Acquired near the central meridian at approximately 42 degrees phase angle.
Spatial resolution: 500 km/pixel.
CDS 02:70:0 used for targetting.

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

Long Map (LM), Gain 2, Grating Start 0, R/T, JLM408

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NIMS E6 Reload

ACTIVITY ID: E6NIMSP2LD08-
START TIME: 97-051/03:48:37.333

Activity ID: Orbit E6 Target N Inst I OAPEL MSP2LD SeqNo 08 -

Title	NIMS E6 Reload			Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	Calendar Date	02/20/97	Week 8
Start	IEE-CDS	00000489:00:0	97-051/03:48:37.333	IEE-000/08:14:26.000	
End	IEE-CDS	00000479:81:0	97-051/03:57:50.000	IEE-000/08:05:13.333	
Duration		00000009:10:0	000/00:09:12.667	000/00:09:12.667	

Top Label E6NIMSP2LD08-
Bottom Label

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

Observation Objective

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

Memory load from CDS to NIMS and restart.
Diagnostic checksum, processor halt, memory reload from CDS,
instrument restart, and operational mode set.

Design Detail

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

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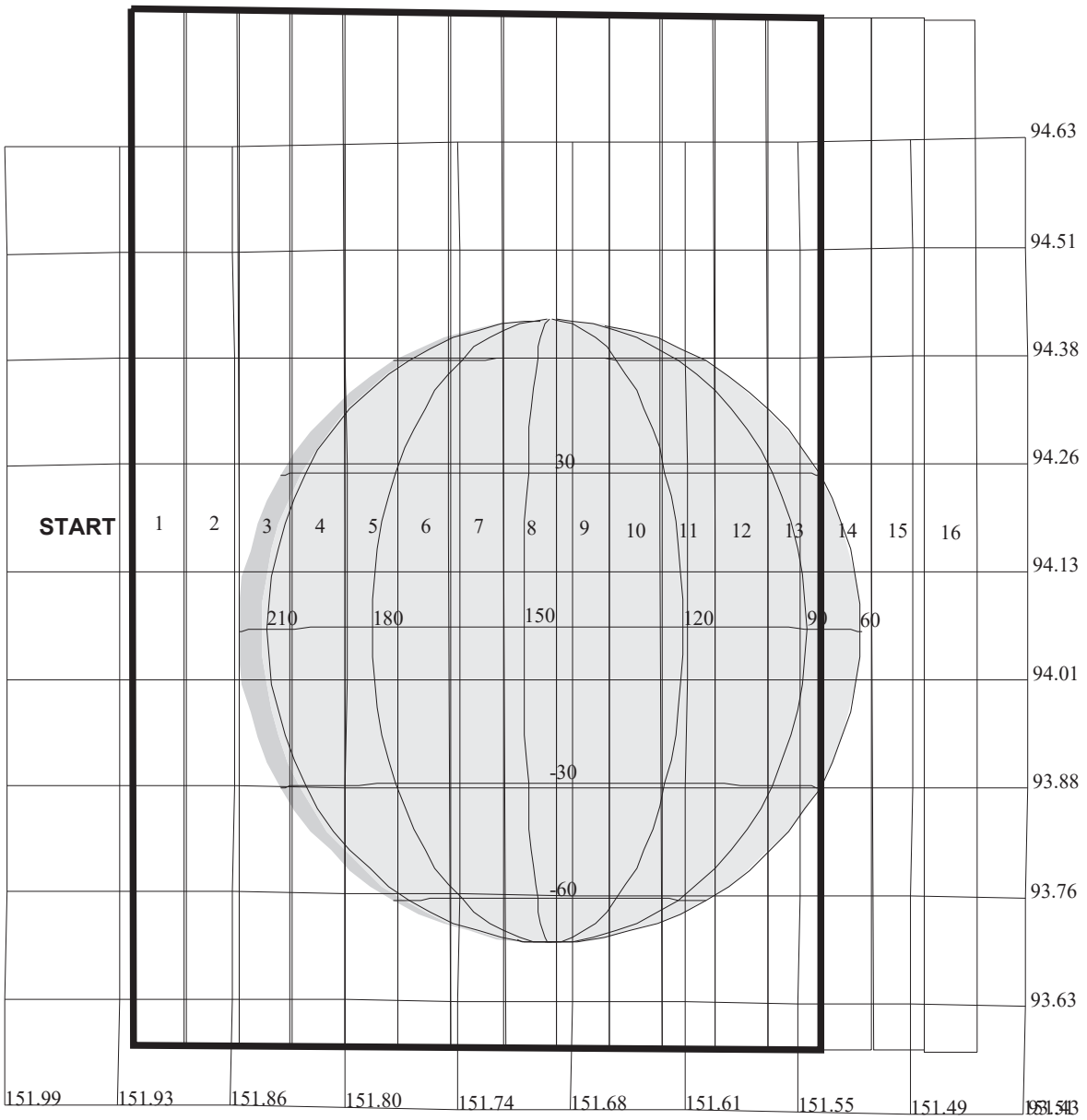

165DO:TT= 0 TMC= 1 C= 3.90 XC= 1.00 BS= 0/7288 TC= 3
A= 728 pD= 0 SR=17.450 RA50=280.62 DEC50=-24.24 cone=151.91 clock= 94.19
117DO:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/7288
1:#s= 1 Cs= -8.05 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 814 rD= 2

E6INCHEMIS02

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6INCHEMIS02

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS:

THINNING:NIM 2

START:IEE 97-051/12:03:03.333 -CDS 475:00:0

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

OBSERVATION:E6INCHEMIS02

DESCRIP:MONITORING OF IO DAYSIDE

Monitoring of IO's Dayside

ACTIVITY ID: E6INCHEMIS02-
START TIME: 97-051/03:57:54.000

Activity ID: Orbit E6 Target I Inst N OAPEL CHEMIS SeqNo 02 -

Title	Monitoring of IO's Dayside			Instrument	NIMS
Requestor	NIMS-SWG/R. LOPES	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	Calendar Date	02/20/97	Week 8
Start	IEE-CDS	00000479:75:0	97-051/03:57:54.000	IEE-000/08:05:09.333	
End	IEE-CDS	00000470:00:0	97-051/04:07:50.000	IEE-000/07:55:13.333	
Duration		00000009:75:0	000/00:09:56.000	000/00:09:56.000	

Top Label	E6INCHEMIS02-				
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 ~800 km/nimsel (most observations will have resolutions between 120 and 400 km/nimsel).

Data Returned

Design Detail

Partial or full disk mosaics within C/A + or - 32 hours in all orbits. High priority orbits are G2, C3, E4, E6 and E10 where resolution for lit disk is best.

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

Long Map (LM), Gain 2, Grating Start 0, MPW, ILM442, ILM384

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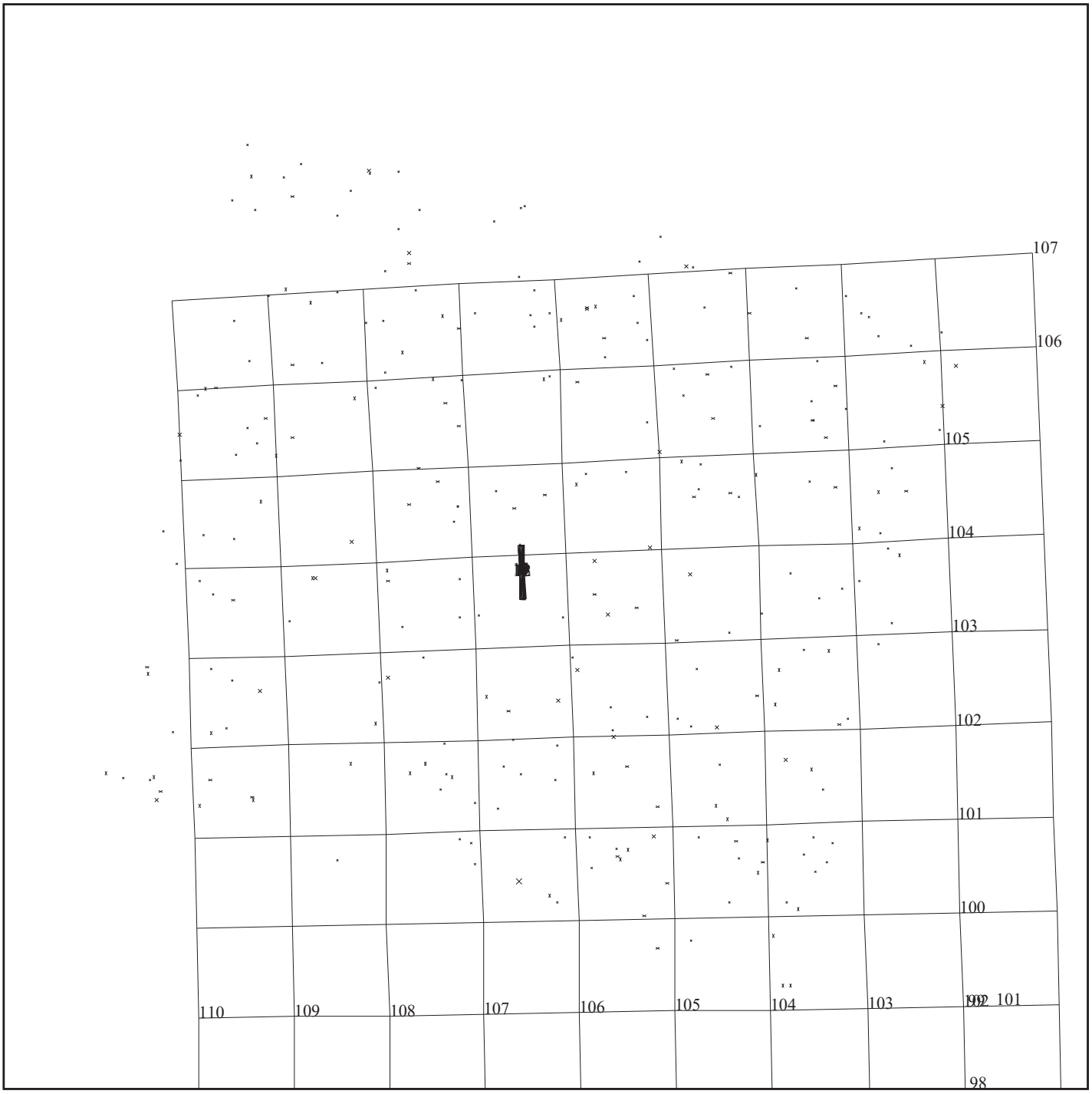

165DP:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/1666 TC=15(-11.5 234)
A= 728 pD= 0 SR=17.450 RA50=234.00 DEC50=-11.50 cone=106.50 clock=103.82

E6HNDARK__02

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6HNDARK__02

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS: **THINNING:NIM 2**

START:IEE 97-051/12:03:03.333 -CDS 396:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.800**

OBSERVATION:E6HNDARK__02 **DESCRIP:DARK OBSERVATION**

Dark Observation

ACTIVITY ID: E6HNDARK__02-
START TIME: 97-051/05:17:36.000

Activity ID: Orbit E6 Target H Inst N OAPEL DARK SeqNo 02 -

Title	Dark Observation			Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	Calendar Date	02/20/97	Week 8
Start	IEE-CDS	00000401:00:0	97-051/05:17:36.000	IEE-000/06:45:27.333	
End	IEE-CDS	00000394:00:0	97-051/05:24:40.667	IEE-000/06:38:22.666	
Duration		00000007:00:0	000/00:07:04.667	000/00:07:04.667	

Top Label E6HNDARK__02-
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

Obtain 1 rim of dark sky data per day for each day of NIMS observations within the E6 orbit for purposes of calibration.

Data Returned

Design Detail

Sit and stare design, target to dark-sky and remain there for 1 rim. Observation to be done in short-map mode.

Long Map (LM), Gain 2, Grating Start 0, LPU, DRK34, DRK32

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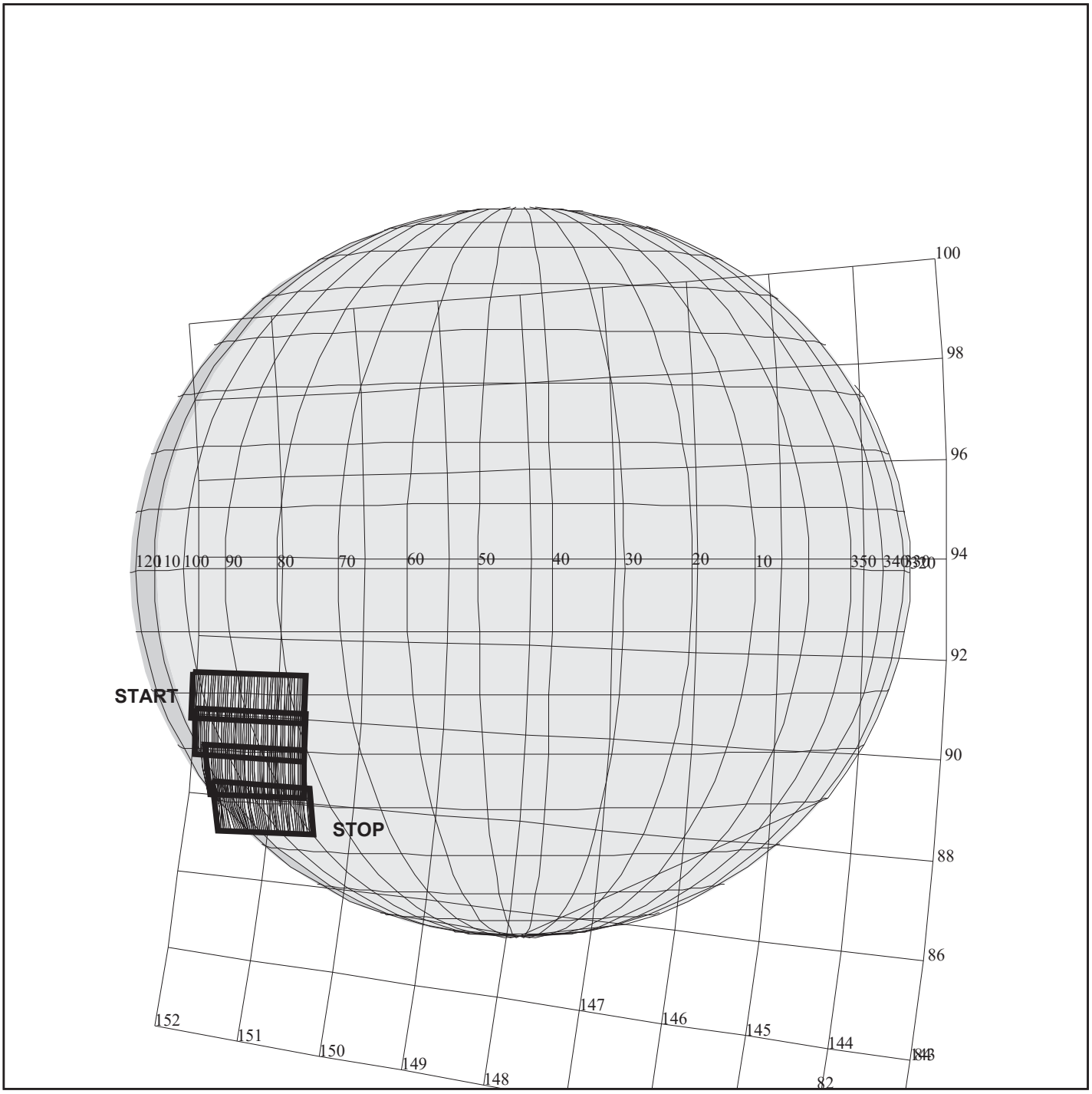


165DQ:TT= 0 TMC= 1 C= 20.00 XC= 14.50 BS= 0/7692 TC= 1(-33 87)
A= 728 pD= 0 SR=17.450 RA50=280.99 DEC50=-25.95 cone=152.04 clock= 90.48
117DQ:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/7692
1:#s= 4 Cs= -22.40 XCs= 0.00 Cr= 23.50 XCr= -8.00 sD= 618 rD= 36

E6JNFEA02001

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6JNFEA02001

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-051/20:52:52.600 -CDS 777:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750**

OBSERVATION:E6JNFEA02001 **DESCRIP:JUP_FEAT_TRK_20_DEG_PHS_01**

Jupiter Feature Track 20 deg phase pt 1 ACTIVITY ID: E6JNFEA02001-
START TIME: 97-051/07:42:11.267

Activity ID: Orbit E6 Target J Inst N OAPEL FEA020 SeqNo 01 -

Title	Jupiter Feature Track 20 deg phase pt 1	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS Working Group AWG

Time System	CDS	Load ID	Calendar Date 02/20/97 Week 8
Start	JEE-CDS	00000782:00:0	97-051/07:42:11.267 JEE-000/13:10:41.333
End	JEE-CDS	00000762:00:0	97-051/08:02:24.600 JEE-000/12:50:28.000
Duration		00000020:00:0	000/00:20:13.333 000/00:20:13.333

Top Label	E6JNFEA02001-				
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

One of 23 OAPELs constituting the White Oval feature tracks for this feature campaign. This is the first observation obtained on this rotation. White Oval DE near the terminator. Jupiter imaged in 4 colors, using NIMS downlink wavelength table JFT04A. This observation acquired with feature 33 degrees south latitude (planetographic) and 91.5 degrees west longitude.

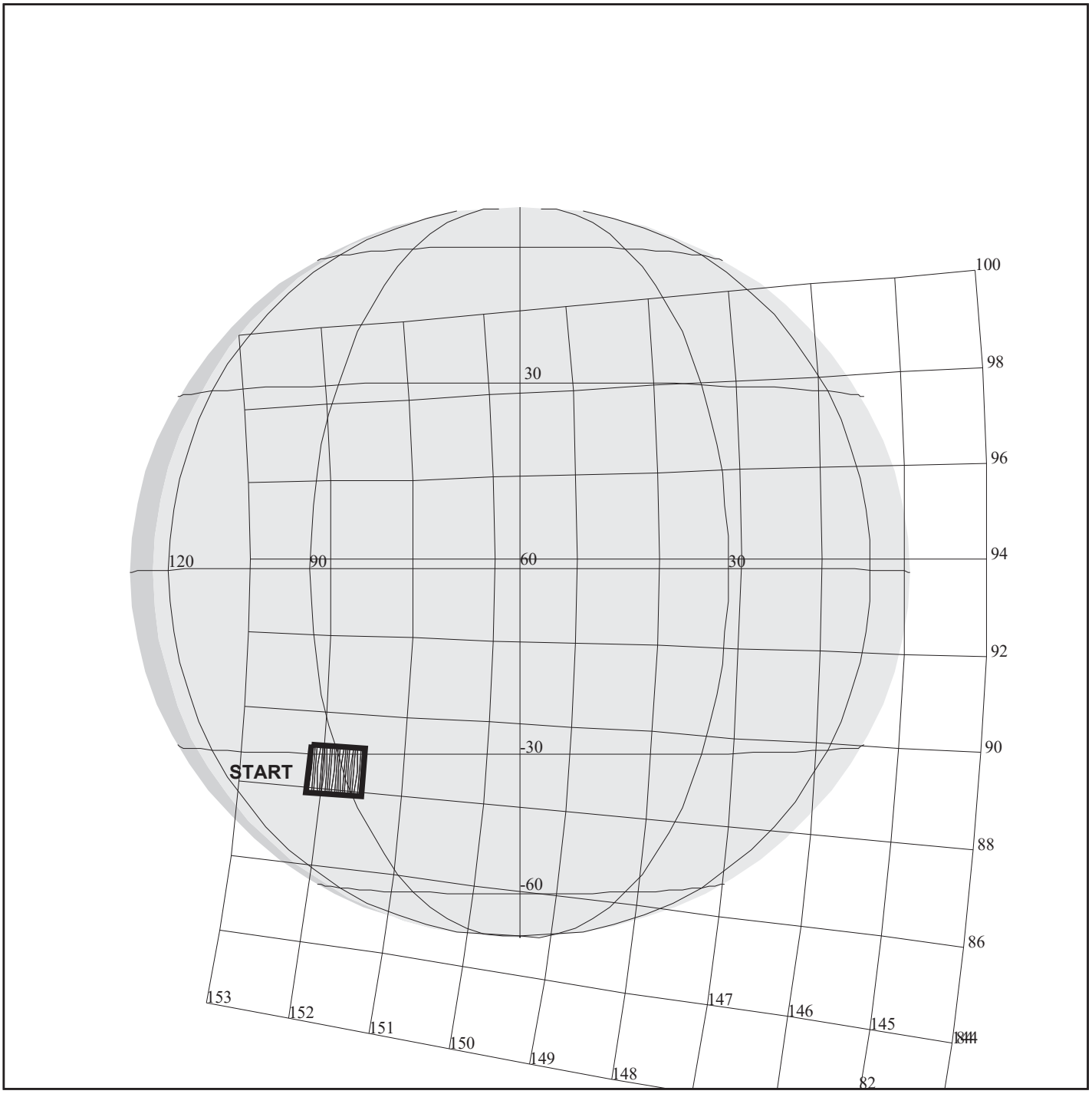
Data Returned

Design Detail

Short map, Nyquist-sampled observation of 2*4 (20*34 mrad) contiguous area. The White Oval DE primary feature is located about half way across the second tier. S/C distance about 0.83 million KM, NIMS IFOV (NIMSEL) = 415 KM; 2*4 mosaic covers 16600*28230 KM with a 20% overlap between tiers. About 860 seconds of scanning, including 60 secs for 3 reposition slews. Data accumulated .15 mbtg in 4 colors, and using 0.02889 tracks.
4 rims reserved for targetting.

Short Map (SM), Gain 2, Grating Start 1, LPU, JFT68C, JFT20A

Galileo Activity Plan Form 01/21/97 14:44:48 rev 6/95



165DR:TT= 0 TMC= 1 C= 5.50 XC= 0.00 BS= 0/2788 TC= 1(-33 91.5)
A= 364 pD= 0 SR=17.450 RA50=281.30 DEC50=-26.85 cone=152.16 clock= 88.51
117DR:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/2788
1:#s= 1 Cs= -10.90 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 300 rD= 2

E6JNFEA02002

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6JNFEA02002

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-051/20:52:52.600 -CDS 749:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750**

OBSERVATION:E6JNFEA02002 **DESCRIP:JUP_FEAT_TRK_20_DEG_PHASE_02**

Jupiter Feature Track 20 deg phase pt 2 ACTIVITY ID: E6JNFEA02002-
START TIME: 97-051/08:12:31.267

Activity ID: Orbit E6 Target J Inst N OAPEL FEA020 SeqNo 02 -

Title	Jupiter Feature Track 20 deg phase pt 2	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS Working Group AWG

Time System	CDS	Load ID	Calendar Date	02/20/97	Week 8
Start	JEE-CDS	00000752:00:0	97-051/08:12:31.267	JEE-000/12:40:21.333	
End	JEE-CDS	00000747:00:0	97-051/08:17:34.600	JEE-000/12:35:18.000	
Duration		00000005:00:0	000/00:05:03.333	000/00:05:03.333	

Top Label E6JNFEA02002-
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

One of 23 OAPELs constituting the feature tracks for this feature campaign. This is the second observation obtained on a rotation with phase angle approximately 20 degrees. Jupiter imaged in 25 colors, using NIMS downlink wavelength table JFT25A. This observation acquired with feature (the White Oval DE) near 45 degrees relative longitude, assuming feature coordinates 33 degrees south latitude (planetographic) and 91.5 degrees west longitude (System III).

Data Returned

Design Detail

Short map, Nyquist-sampled observation of 1*1 (10*10 mrad) area centered on White Oval DE feature near 91.5 degrees West longitude, 33 degrees South latitude (planetographic). S/C distance about 0.81 milllion KM, NIMS IFOV (NIMSEL) = 405 KM; 1*1 mosaic covers 8100*8100 KM. About 100 seconds of scanning, accumulating 0.1182 mbtg in 25 colors, and using 0.00336 tracks. 2 rims reserved for targetting.

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

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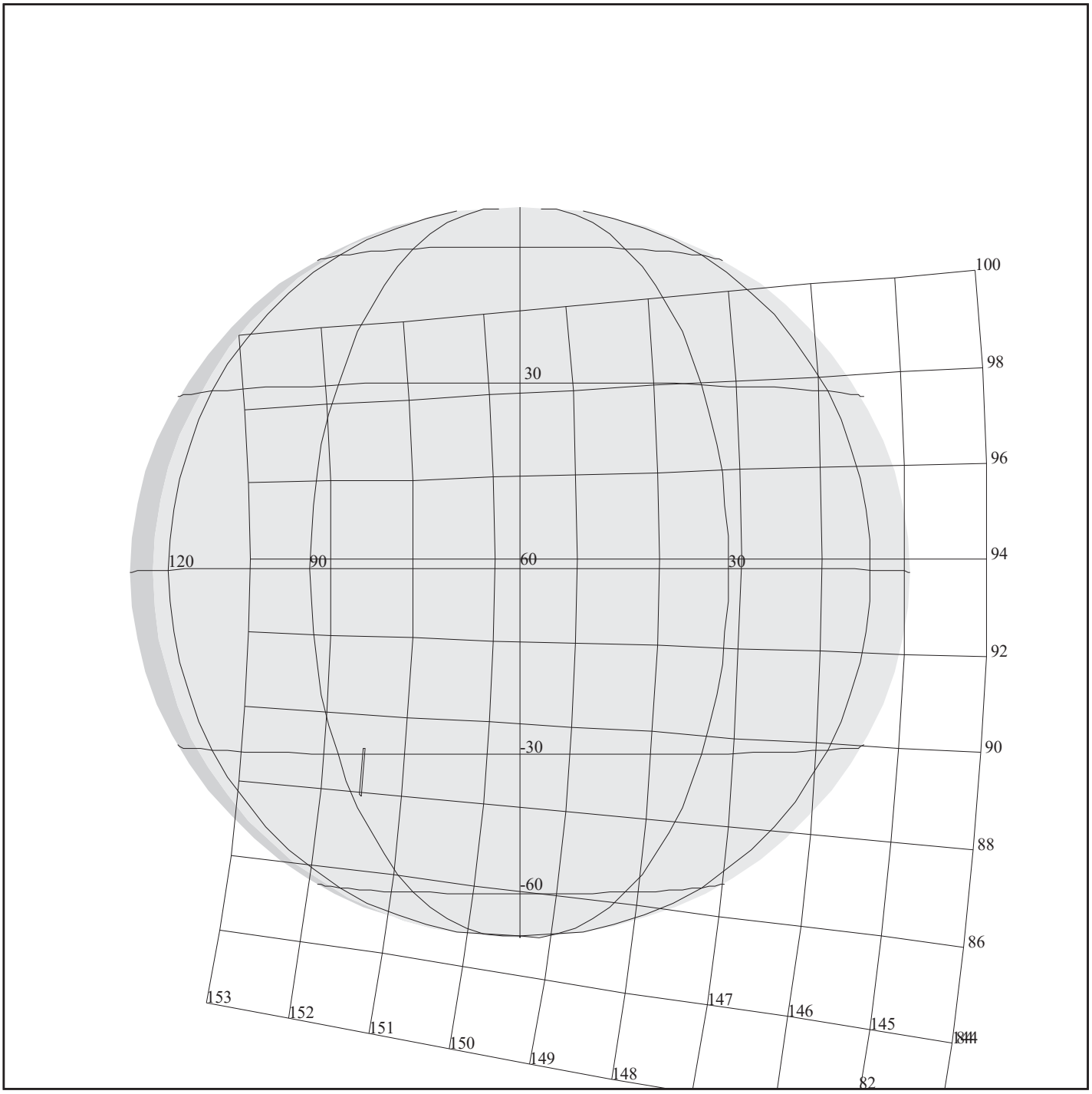

165DR:TT= 0 TMC= 1 C= 5.50 XC= 0.00 BS= 0/2788 TC= 1(-33 91.5)
A= 364 pD= 0 SR=17.450 RA50=281.30 DEC50=-26.85 cone=152.16 clock= 88.51
117DR:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/2788
1:#s= 1 Cs= -10.90 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 300 rD= 2

E6NNHEALTH02

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6JNFEA02002

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-051/20:52:52.600 -CDS 749:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750**

OBSERVATION:E6JNFEA02002 **DESCRIP:JUP_FEAT_TRK_20_DEG_PHASE_02**

E6 Health 2

ACTIVITY ID: E6NNHEALTH02-
START TIME: 97-051/08:17:41.267

Activity ID: Orbit E6 Target N Inst N OAPEL HEALTH SeqNo 02 -

Title	E6 Health 2	Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team NIMS	Working Group SWG

Time System	CDS	Load ID	Calendar Date	02/20/97	Week 8
Start	JEE-CDS	00000746:81:0	97-051/08:17:41.267		JEE-000/12:35:11.333
End	JEE-CDS	00000741:00:0	97-051/08:23:38.600		JEE-000/12:29:14.000
Duration		00000005:81:0	000/00:05:57.333		000/00:05:57.333

Top Label	E6NNHEALTH02-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	0	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

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

Data Returned

Design Detail

No scan platform commanding. Scan platform is at the end of the slew of the previous observation: E6JNFEA02002

Long Map (LM), Gain 2, Grating Start 0, R/T, RT003

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NIMS Software Load

ACTIVITY ID: E6NIMSP2LD02-
START TIME: 97-051/08:23:45.267

Activity ID: Orbit E6 Target N Inst I OAPEL MSP2LD SeqNo 02 -

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

Time System	CDS	Load ID	Calendar Date	02/20/97	Week 8
Start	JEE-CDS	00000740:81:0	97-051/08:23:45.267	JEE-000/12:29:07.333	
End	JEE-CDS	00000732:80:0	97-051/08:31:51.267	JEE-000/12:21:01.333	
Duration		00000008:01:0	000/00:08:06.000	000/00:08:06.000	

Top Label	E6NIMSP2LD02-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	100	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

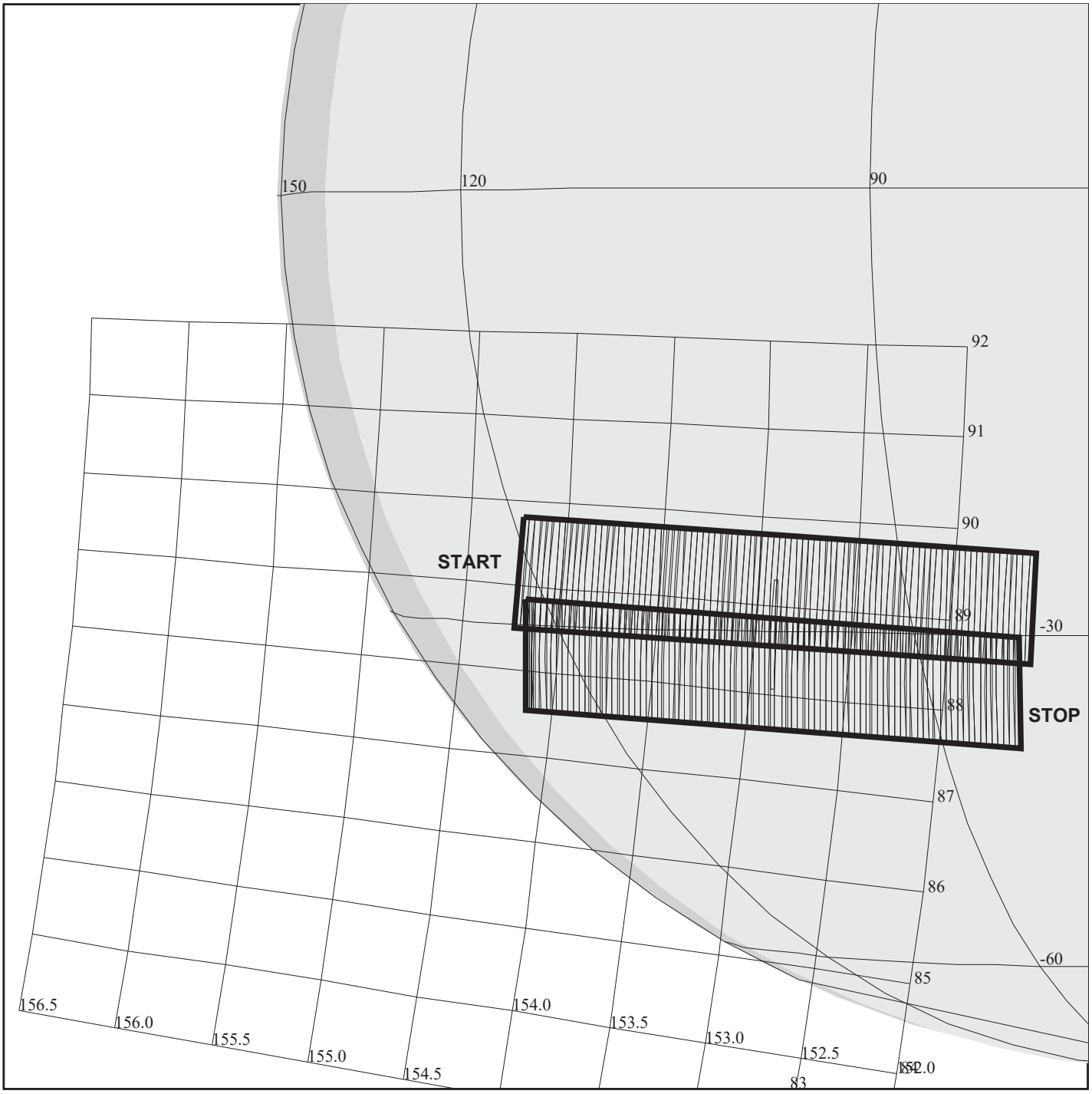
Reload NIMS software to prevent loss of science observations.
These loads are placed strategically to protect high priority science.

Memory load from CDS to NIMS and restart.
Diagnostic checksum, processor halt, memory reload from CDS,
instrument restart, and operational mode set.

Design Detail

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

Galileo Activity Plan Form 01/21/97 14:44:48 rev 6/95



165DS:TT= 0 TMC= 1 C= 35.00 XC= 6.50 BS= 0/6246 TC= 1(-33 91.5)
A= 364 pD= 0 SR=17.450 RA50=283.53 DEC50=-26.16 cone=154.25 clock= 89.16
117DS:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/6246
1:#s= 2 Cs= -44.30 XCs= 0.00 Cr= 47.30 XCr= -8.00 sD= 1212 rD= 60

E6JNFEA02003

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6JNFEA02003

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS:

THINNING:NIM 2

START:JEE 97-051/20:52:52.600 -CDS 730:00:0

BODY PLOT TIME:TARGET-TIME D= 0 S= 1.800

OBSERVATION:E6JNFEA02003

DESCRIP:JUP_FEAT_TRK_20_DEG_PHS_03

Jupiter Feature Track 20 deg phase pt 3 ACTIVITY ID: E6JNFEA02003-
START TIME: 97-051/08:31:54.600

Activity ID: Orbit E6 Target J Inst N OAPEL FEA020 SeqNo 03 -

Title	Jupiter Feature Track 20 deg phase pt 3	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS Working Group AWG

Time System	CDS	Load ID	Calendar Date	02/20/97	Week 8
Start	JEE-CDS	00000732:75:0	97-051/08:31:54.600	JEE-000/12:20:58.000	
End	JEE-CDS	00000715:00:0	97-051/08:49:55.934	JEE-000/12:02:56.666	
Duration		00000017:75:0	000/00:18:01.334	000/00:18:01.334	

Top Label E6JNFEA02003-
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

One of 23 OAPELs constituting the feature tracks for this feature campaign. Both White Oval BC and DE observed. This is the third observation of White Oval DE, the second of White Oval BC obtained on a rotation with phase angle approximately 20 degrees. Jupiter imaged in 25 colors, using NIMS downlink wavelength table JFT25A. This observation acquired with features coordinates 33 degrees south latitude (planetographic) and 91.5 degrees west longitude.

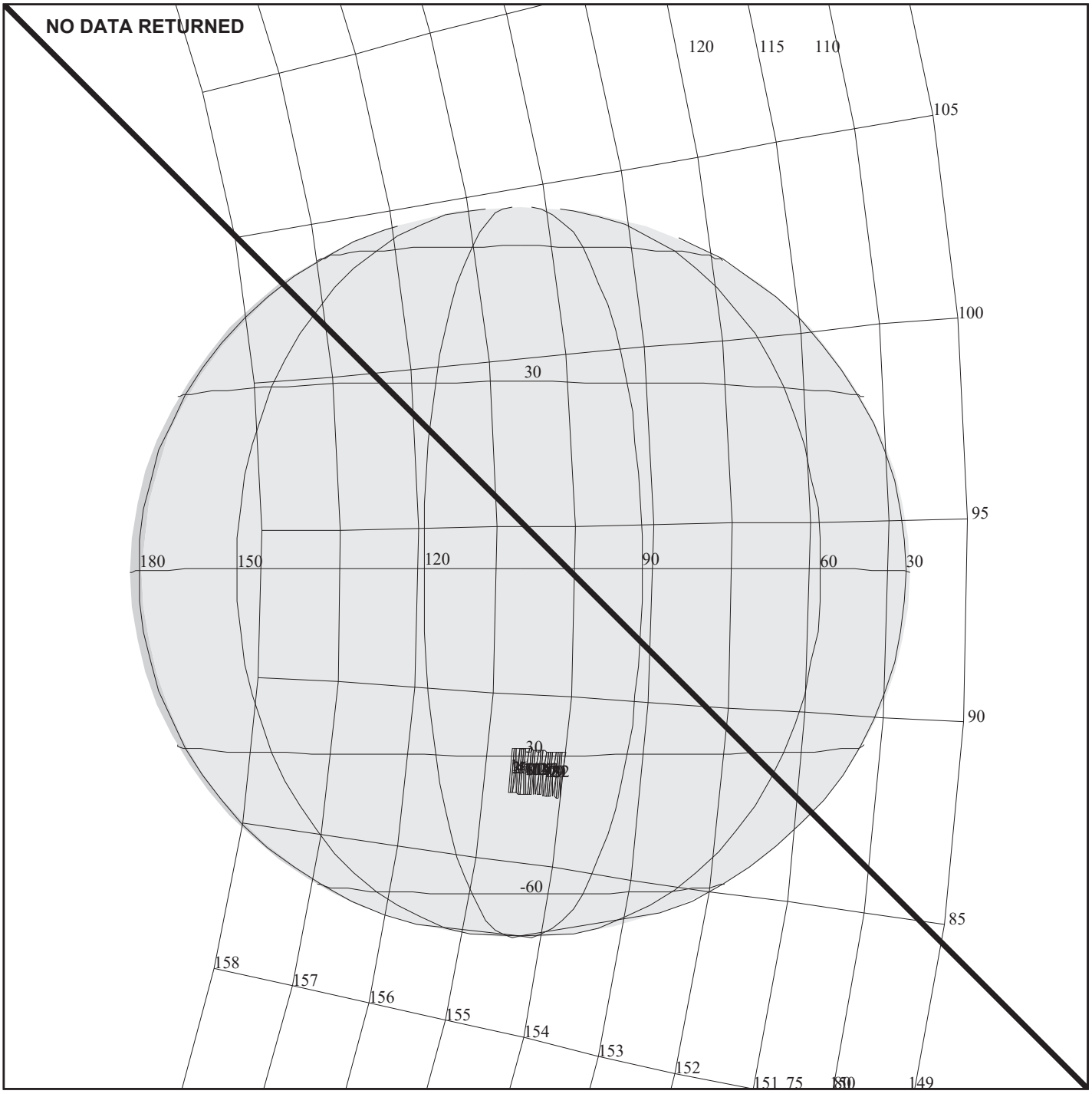
Data Returned

Design Detail

Short map, Nyquist-sampled observation of 2*4 (20*34 mrad) contiguous area.
The White Oval feature target at 33 degrees south latitude (planetographic), 91.5 degrees west longitude is located 5 mrad from the start of the second tier. S/C distance about 0.79 million KM, NIMS IFOV (NIMSEL) = 395 KM;
2*4 mosaic covers 15800*26860 KM with a 20% overlap between tiers.
About 860 seconds of scanning, including 60 secs total for 3 reposition slews.
Data accumulated .96 mbtg in 25 colors, and using 0.02889 tracks.
2 rims reserved for targetting.

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

Galileo Activity Plan Form 01/21/97 14:44:48 rev 6/95



165DT:TT= 0 TMC= 1 C= 6.00 XC= 0.00 BS= 0/8258 TC= 1(-33 104)
A= 364 pD= 0 SR=17.450 RA50=284.16 DEC50=-26.68 cone=154.69 clock= 87.71
117DT:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/8258
1:#s= 1 Cs= -10.90 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 300 rD= 2

E6JNFEA02004

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6JNFEA02004

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS:

THINNING:NIM 2

START:JEE 97-051/20:52:52.600 -CDS 664:00:0

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

OBSERVATION:E6JNFEA02004

DESCRIP:JUP_FEAT_TRK_20_DEG_PHASE_04

Jupiter Feature Track 20 deg phase pt 4 ACTIVITY ID: E6JNFEA02004-
START TIME: 97-051/09:38:27.934

Activity ID: Orbit E6 Target J Inst N OAPEL FEA020 SeqNo 04 -

Title	Jupiter Feature Track 20 deg phase pt 4	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS Working Group AWG

Time System	CDS	Load ID	Calendar Date 02/20/97 Week 8
Start	JEE-CDS	00000667:00:0	97-051/09:38:27.934 JEE-000/11:14:24.666
End	JEE-CDS	00000659:00:0	97-051/09:46:33.267 JEE-000/11:06:19.333
Duration		00000008:00:0	000/00:08:05.333 000/00:08:05.333

Top Label E6JNFEA02004-
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

One of 23 OAPELs constituting the feature tracks for this feature campaign. This is the fourth observations obtained on a rotation with phase angle approximately 20 degrees. Jupiter imaged in 19 colors, using NIMS downlink wavelength table JFT19A. This observation acquired with feature (a region within the SEB) near minimum airmass, assuming feature coordinates 10 degrees south latitude and 102 degrees west longitude (System III).

NOTE: AS OF 12/11/96, OAPEL DELETED TO SAVE DOWNLINK RESOURCES.

No Data Returned

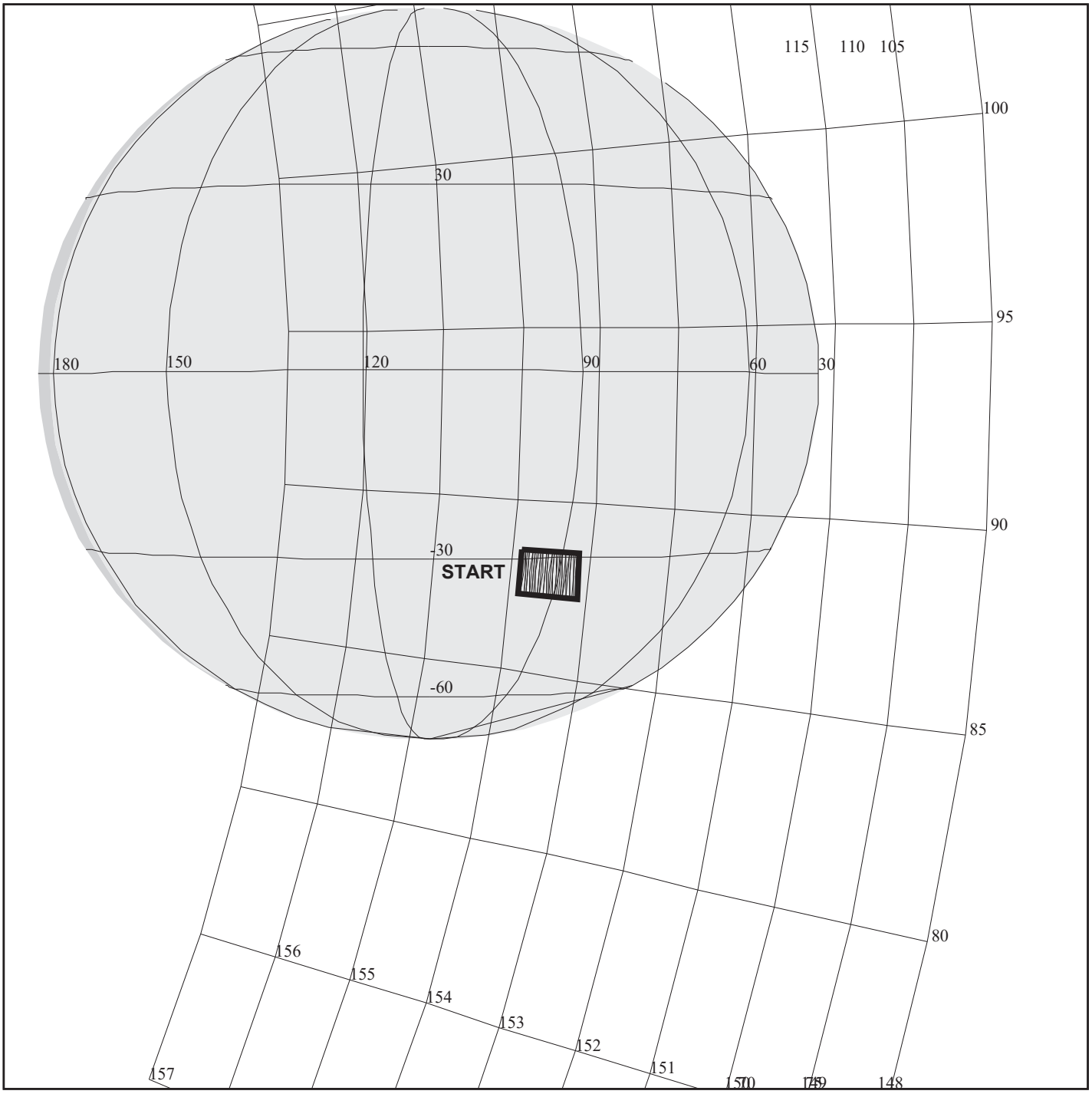
Design Detail

Short map, Nyquist-sampled observation of 1*1 (10*10 mrad) area centered on SEB feature near 102 degrees West longitude, 10 degrees South latitude. S/C distance about 0.75 million KM, NIMS IFOV (NIMSEL) = 375 KM; 1*1 mosaic covers 7500*7500 KM. About 100 seconds of scanning, accumulating 0.08983 mbtg in 19 colors, and using 0.00336 tracks. 2 rims reserved for targetting.

NOTE: AS OF 12/11/96, OAPEL DELETED TO SAVE DOWNLINK RESOURCES.

Short Map (SM), Gain 2, Grating Start 1, LPU, JFT68C, JFT20A

Galileo Activity Plan Form 01/21/97 14:44:48 rev 6/95



165DU:TT= 0 TMC= 1 C= 6.50 XC= 0.00 BS= 0/9714 TC= 1(-33 91.5)
A= 182 pD= 0 SR=17.450 RA50=283.27 DEC50=-26.77 cone=153.90 clock= 87.90
117DU:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/9714
1:#s= 1 Cs= -10.80 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 1092 rD= 2

E6JNFEASUB01

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6JNFEASUB01

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-051/20:52:52.600 -CDS 656:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750**

OBSERVATION:E6JNFEASUB01 **DESCRIP:JUP_CAMP_FEAT_SUB_SPECTRA**

Jupiter Campaign Feature sub-spectra ACTIVITY ID: E6JNFEASUB01-
START TIME: 97-051/09:47:33.934

Activity ID: Orbit E6 Target J Inst N OAPEL FEASUB SeqNo 01 -

Title	Jupiter Campaign Feature sub-spectra	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team NIMS	Working Group SWG

Time System	CDS	Load ID	Calendar Date	02/20/97	Week 8
Start	JEE-CDS	00000658:00:0	97-051/09:47:33.934	JEE-000/11:05:18.666	
End	JEE-CDS	00000649:00:0	97-051/09:56:39.934	JEE-000/10:56:12.666	
Duration		00000009:00:0	000/00:09:06.000	000/00:09:06.000	

Top Label E6JNFEASUB01-
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

High spectral resolution map of campaign feature (White Oval DE at 33 degrees south latitude, 91.5 degrees west longitude), acquired in several CH4 and H2 absorption features. This single partial-spectra map obtained under good lighting conditions (near central meridian at low phase angle). During this phase angle ~20 degrees rotation, Jupiter imaged in 80 colors distributed among five spectral regions, using NIMS downlink wavelength table JSB80A.

Data Returned

Design Detail

Long map, Nyquist-sampled observation of 1*1 (10*10 mrad) area centered on the White Oval DE campaign feature. S/C distance about 0.75 million KM. NIMS IFOV = 375 KM. Map covers 7500*7500 km. About 6 minutes of scanning accumulating 0.36255 MBTG and using 0.01209 tracks.
1 rim reserved for targetting.

Long Map (LM), Gain 2, Grating Start 0, LPU, JSB253A, JSB80A

Galileo Activity Plan Form 01/21/97 14:44:48 rev 6/95

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NIMS E6 Reload

ACTIVITY ID: E6NIMSP2LD10-
START TIME: 97-051/11:39:48.000

Activity ID: Orbit E6 Target N Inst I OAPEL MSP2LD SeqNo 10 -

Title	NIMS E6 Reload			Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	Calendar Date	02/20/97	Week 8
Start	ETE-CDS	00000323:00:0	97-051/11:39:48.000	ETE-000/05:26:35.333	
End	ETE-CDS	00000313:00:0	97-051/11:49:54.667	ETE-000/05:16:28.666	
Duration		00000010:00:0	000/00:10:06.667	000/00:10:06.667	

Top Label	E6NIMSP2LD10-				
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

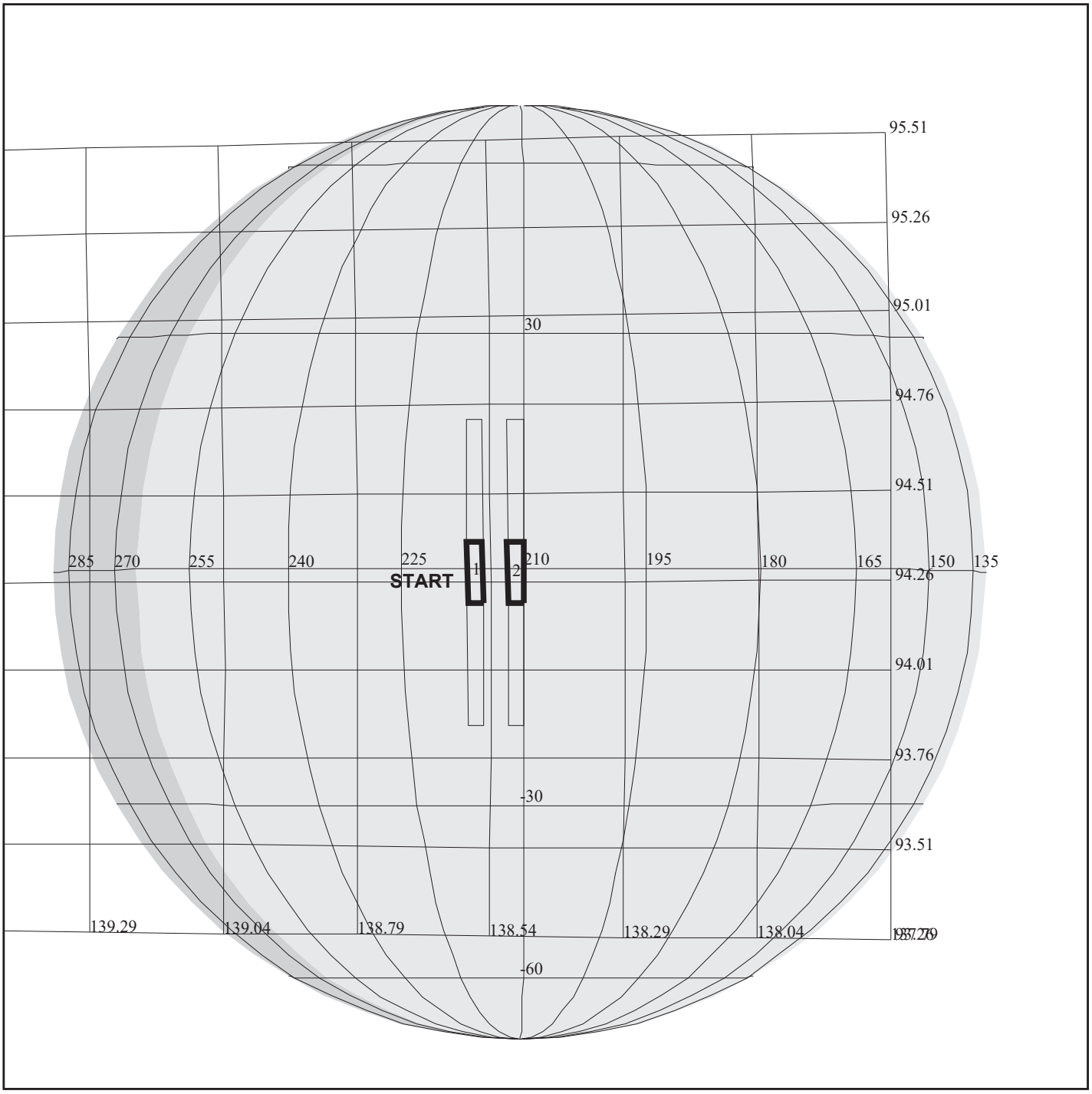
Reload NIMS software to prevent loss of science observations.
These loads are placed strategically to protect high priority science.

Memory load from CDS to NIMS and restart.
Diagnostic checksum, processor halt, memory reload from CDS,
instrument restart, and operational mode set.

Design Detail

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

Galileo Activity Plan Form 01/21/97 14:44:49 rev 6/95



165FK:TT= 0 TMC= 1 C= 1.60 XC= 0.00 BS= 0/3192 TC= 3
A= 546 pD= 0 SR=17.450 RA50=265.96 DEC50=-24.71 cone=138.57 clock= 94.29
117FK:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/3192
1:#s= 1 Cs= -3.60 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 364 rD= 2

E6ENEURORT01

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6ENEURORT01

TARGET BODY : EUROPA

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS: **THINNING:NIM 7**

START:EEE 97-051/17:03:21.333 -CDS 300:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.900**

OBSERVATION:E6ENEURORT01 **DESCRIP:EUROPA_REAL_TIME_OBS**

Europa Real Time Observation — ACTIVITY ID: E6ENEURORT01- / START TIME: 97-051/11:55:58.667

Activity ID: Orbit E6 Target E Inst N OAPEL EURORT SeqNo 01 -

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

Time System	CDS	Load ID	Calendar Date 02/20/97	Week 8
Start	EEE-CDS	00000304:00:0	97-051/11:55:58.667	EEE-000/05:07:22.666
End	EEE-CDS	00000298:05:0	97-051/12:01:59.333	EEE-000/05:01:22.000
Duration		00000005:86:0	000/00:06:00.666	000/00:06:00.666

Top Label E6ENEURORT01-
Bottom Label

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

Observation Objective

This observation is required to improve wavelength selection for the Europa E6 observations that have low albedo.

NIMS mode LM, mirror block, 408 wavelengths.

Data Returned

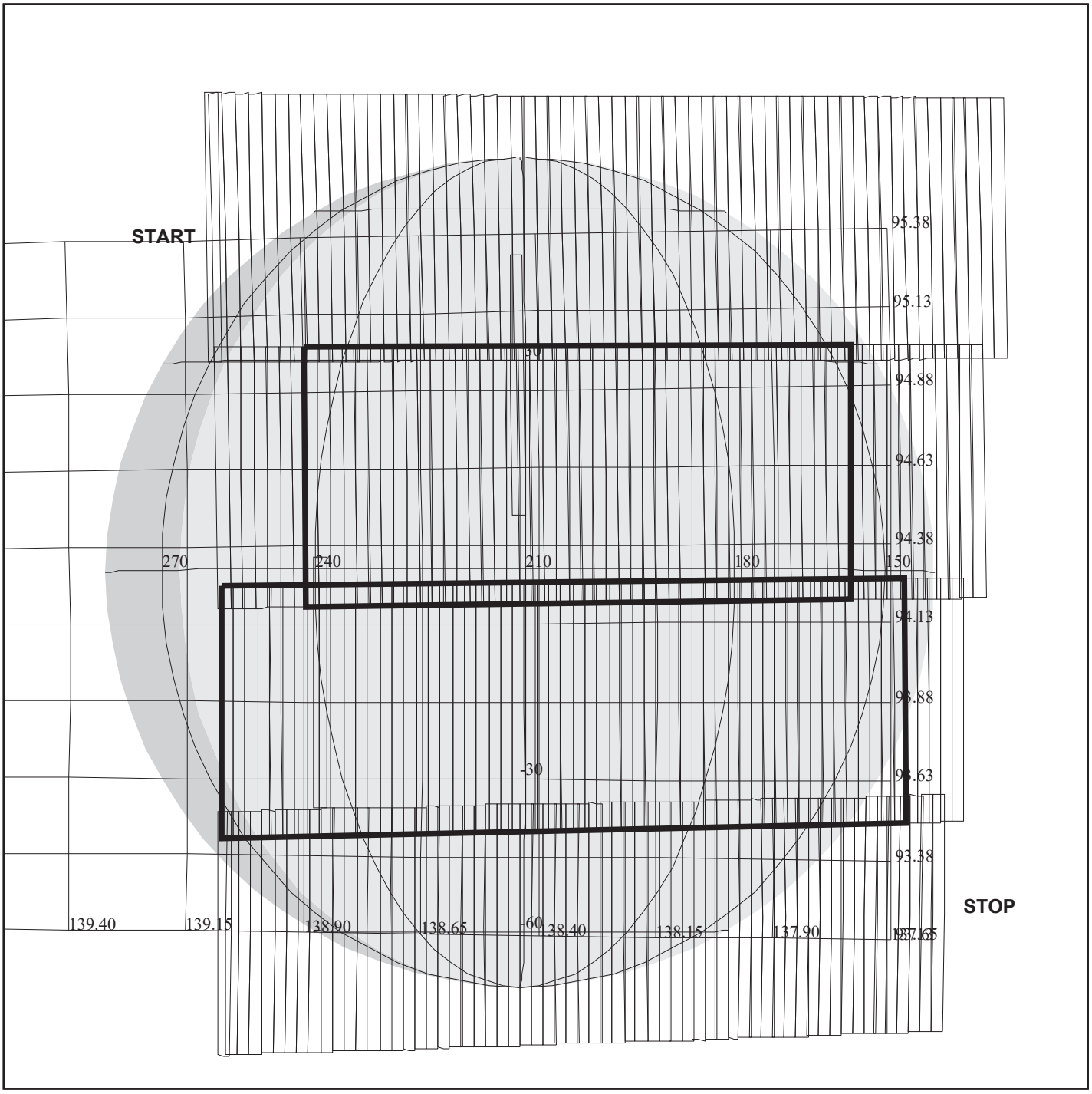
Design Detail

Point at center of EUROPA.

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

Long Map (LM), Gain 2, Grating Start 0, R/T, ELM408

Galileo Activity Plan Form 01/21/97 14:44:49 rev 6/95



165DV:TT= 0 TMC= 1 C= 11.30 XC= 13.00 BS=10/3738 TC= 3
A= 182 pD= 0 SR=17.450 RA50=266.54 DEC50=-23.98 cone=139.09 clock= 95.42
117DV:#SB= 1 OR= 0.060 RR=12.000 BM=F RC= 1 BS=10/3738
1:#s= 4 Cs= -32.25 XCs= 0.00 Cr= 30.40 XCr= -9.00 sD= 1616 rD= 20

E6ENTERINC01

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6ENTERINC01

TARGET BODY : EUROPA

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS:

THINNING:NIM 2

START:EEE 97-051/17:03:21.333 -CDS 297:00:0

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

OBSERVATION:E6ENTERINC01

DESCRIP:EUROPA GLOBAL MOSAIC/160-240 DEG

Europa Terra Incognito

ACTIVITY ID: E6ENTERINC01-
START TIME: 97-051/12:02:02.667

Activity ID: Orbit E6 Target E Inst N OAPEL TERINC SeqNo 01 -

Title	Europa Terra Incognito			Instrument	NIMS
Requestor	NIMS-SWG/A. OCAMPO	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	Calendar Date	02/20/97	Week 8
Start	EEE-CDS	00000298:00:0	97-051/12:02:02.667	EEE-000/05:01:18.666	
End	EEE-CDS	00000261:05:0	97-051/12:39:24.000	EEE-000/04:23:57.333	
Duration		00000036:86:0	000/00:37:21.333	000/00:37:21.333	

Top Label E6ENTERINC01-
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

Part of Global Mosic of EUROPA, longitudes 160 to 240 degrees at a resolution of 50 kilometers.

Data Returned

Design Detail

DISTANCE: 99,000 KM	MODE: LONG MAP	TRACKS:0.0289
SLEW RATE: 110 MR/S	LONG SPAN:160-240 DEG	CONE: 144 DEG
% OVERLAP: 30	LAT SPAN: N/S 90 DEG	WAVELENGHTS: 102
NUM STRIPS: 4	% COVERAGE: 55	RESOLUTION: 50 KM/PIX
NIMS F.O.V./STRIP: 30	SUB S/C LONG: 209 DEG	BOOMS: NOT IN F.O.V.
DMS MODE: 7.68	SUB S/C LAT: -0.84 DEG	ASD: 2.255 DEG
AREA COV IN PIX: 1722	GAIN: 3	INCID ANGLE: 11-88 DEG
EMM ANGLE: 11-90 DEG	PHASE: 35 DEG	TLM:MPW

Swath 1, Gain State 3 Not Returned
Swath 2, Gain State 2 6 of 9 Rims Returned (B)
Swath 3, Gain State 3 8 of 9 Rims Returned (A)
Swath 4, Gain State 3 Not Returned

Full Map (FM), Gains 3,2,3, Grating Start 0, MPW, EFM221, EFM192

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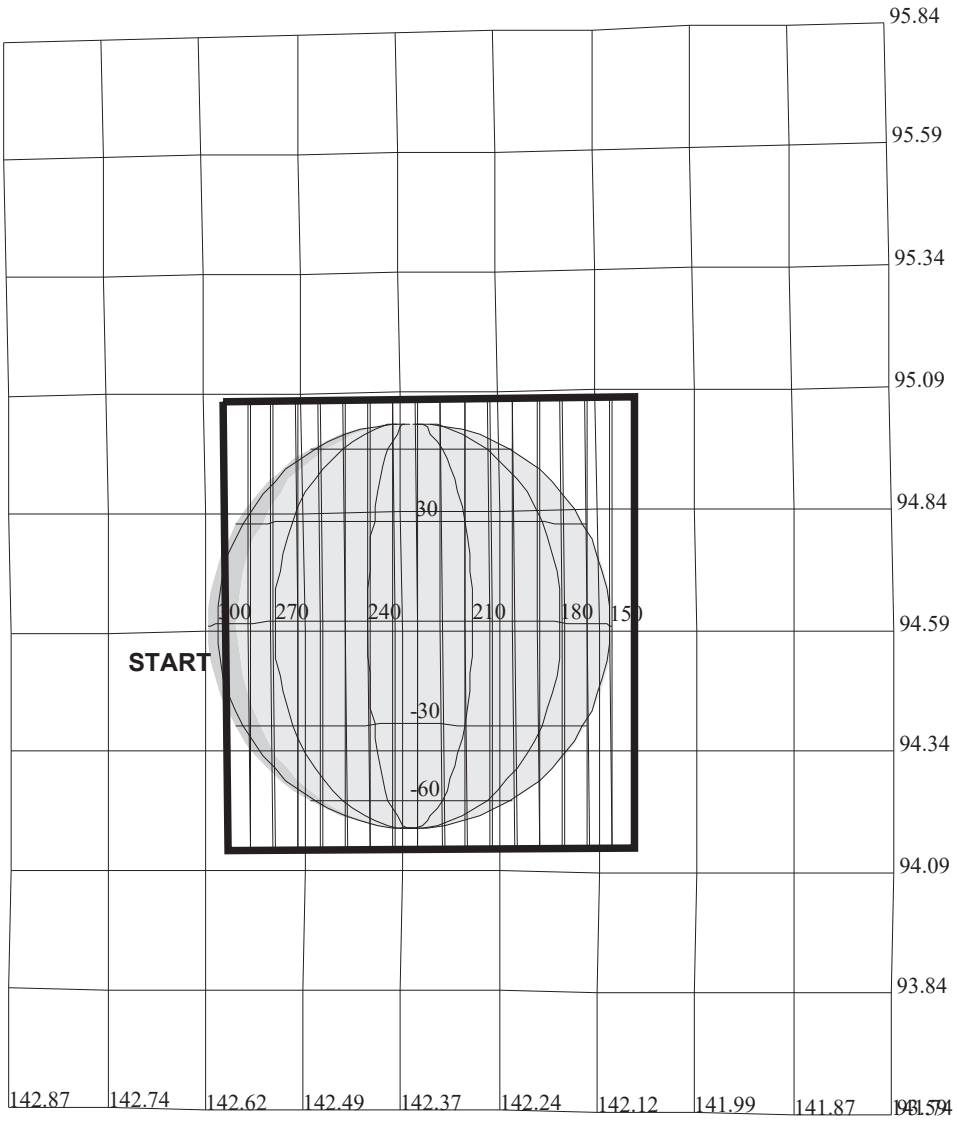

165DX:TT= 0 TMC= 1 C= 4.00 XC= 0.00 BS= 0/0654 TC= 3
A= 182 pD= 0 SR=17.450 RA50=270.38 DEC50=-24.52 cone=142.59 clock= 94.60
117DX:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/0654
1:#s= 1 Cs= -8.55 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 860 rD= 2

E6INHRSPEC01

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6INHRSPEC01

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS:

THINNING:NIM 2

START:IEE 97-051/12:03:03.333 +CDS 38:00:0

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

OBSERVATION:E6INHRSPEC01

DESCRIP:HIGH SPATIAL/SPECTRAL OBS OF IO

High spatial and spectral Obs of IO ACTIVITY ID: E6INHRSPEC01-
START TIME: 97-051/12:39:27.333

Activity ID: Orbit E6 Target I Inst N OAPEL HRSPEC SeqNo 01 -

Title	High spatial and spectral Obs of IO	Instrument	NIMS
Requestor	NIMS-SWG/R. LOPES	Team NIMS	Working Group SWG

Time System	CDS	Load ID	Calendar Date	02/20/97	Week 8
Start	IEE+CDS	00000036:00:0	97-051/12:39:27.333	IEE+000/00:36:24.000	
End	IEE+CDS	00000043:00:0	97-051/12:46:31.999	IEE+000/00:43:28.666	
Duration		00000007:00:0	000/00:07:04.666	000/00:07:04.666	

Top Label	E6INHRSPEC01-				
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

Mapping observation of Io's dayside at high spatial and spectral resolutions. Objective is to search for both known and yet unknown spectral features.

Data Returned

Design Detail

Global mosaic in Long Map (408 wavelengths).

Long Map (LM), Gain 2, Grating Start 0, MPW, ILM245, ILM216

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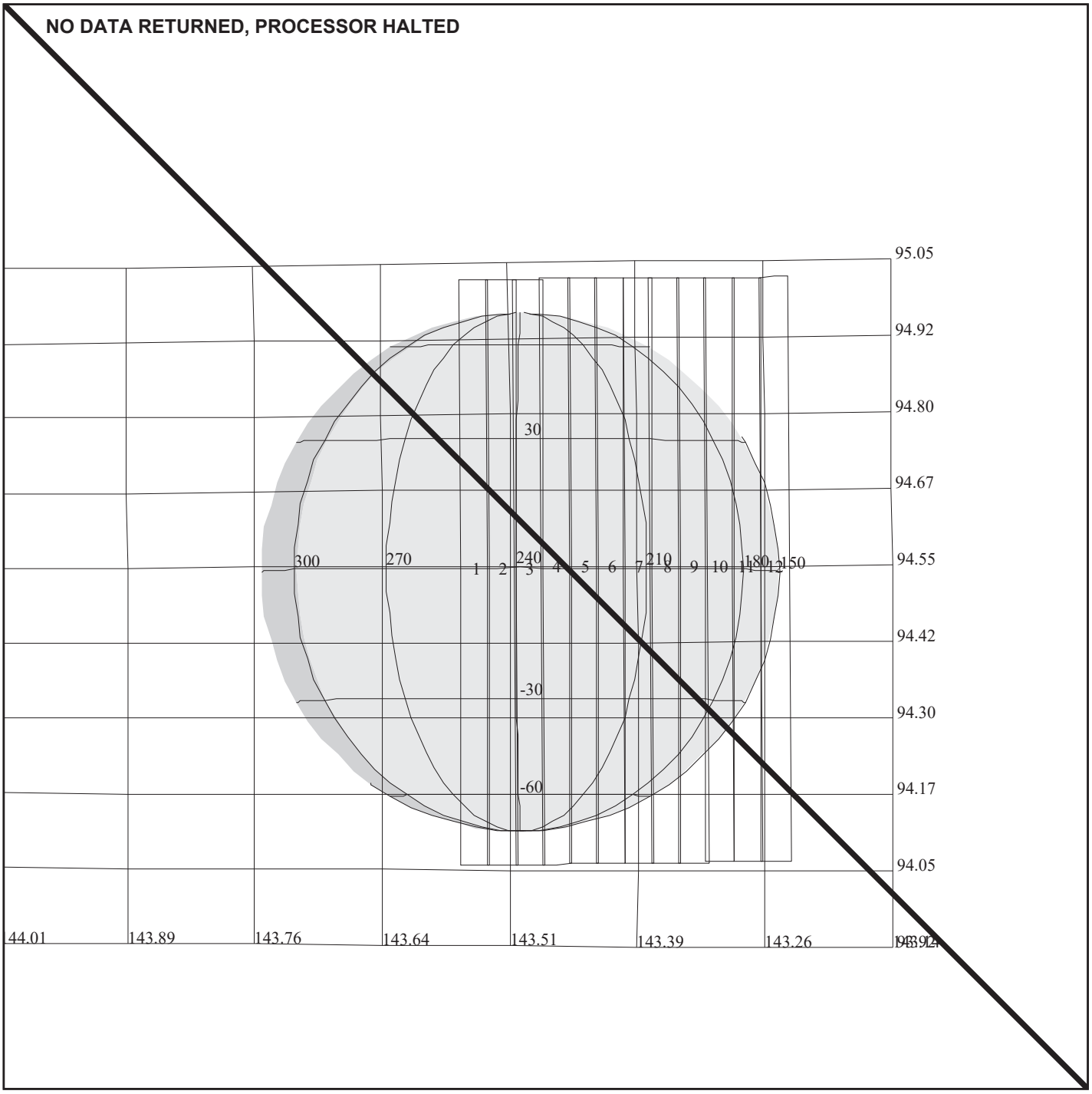

165DY:TT= 0 TMC= 1 C= 0.90 XC= 0.00 BS= 0/6488 TC= 3
A= 182 pD= 0 SR=17.450 RA50=271.44 DEC50=-24.54 cone=143.55 clock= 94.54
117DY:#SB= 1 OR= 0.020 RR=12.000 BM=F RC= 1 BS= 0/6488
1:#s= 1 Cs= -4.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 608 rD= 2

E6INCHEMIS03

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6INCHEMIS03

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS: **THINNING:NIM 2**

START:EEE 97-051/17:03:21.333 -CDS 172:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.500**

OBSERVATION:E6INCHEMIS03 **DESCRIP:MONITORING OF IO DAYSIDE**

Monitoring of IO's Dayside

ACTIVITY ID: E6INCHEMIS03-
START TIME: 97-051/14:07:25.333

Activity ID: Orbit E6 Target I Inst N OAPEL CHEMIS SeqNo 03 -

Title	Monitoring of IO's Dayside			Instrument	NIMS
Requestor	NIMS-SWG/R. LOPES	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	Calendar Date	02/20/97	Week 8
Start	EEE-CDS	00000174:00:0	97-051/14:07:25.333		EEE-000/02:55:56.000
End	EEE-CDS	00000167:00:0	97-051/14:14:30.000		EEE-000/02:48:51.333
Duration		00000007:00:0	000/00:07:04.667		000/00:07:04.667

Top Label	E6INCHEMIS03-				
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 longitude to look for chemical changes (e.g. SO2 distribution) at resolutions better than ~800 km/nimsel (most observations will have reservations between 120 and 400 km/nimsel).

Processor Halted, No Data Returned

Design Detail

Partial or full disk mosaics within C/A + or - 32 hours in all orbits. High priority orbits are G2, C3, E4, E6, and E10 where resolution for lit disk is best.

Long map, 51 wavelengths.
Tracks used per orbit: 0.05 to 0.42.
Bits to ground per orbit: 0.3 to 2.2 mbits.

Long Map (LM), Gain 2, Grating Start 0, LPU, ILM245, ILM216

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NIMS E6 Software Reload

ACTIVITY ID: E6NIMSP2LD09-
START TIME: 97-051/15:58:38.667

Activity ID: Orbit E6 Target N Inst I OAPEL MSP2LD SeqNo 09 -

Title	NIMS E6 Software Reload	Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team NIMS	Working Group SWG

Time System	CDS	Load ID	Calendar Date 02/20/97	Week 8
Start	ETE-CDS	00000067:00:0	97-051/15:58:38.667	ETE-000/01:07:44.666
End	ETE-CDS	00000057:10:0	97-051/16:08:38.667	ETE-000/00:57:44.666
Duration		00000009:81:0	000/00:10:00.000	000/00:10:00.000

Top Label E6NIMSP2LD09-
Bottom Label

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

Observation Objective

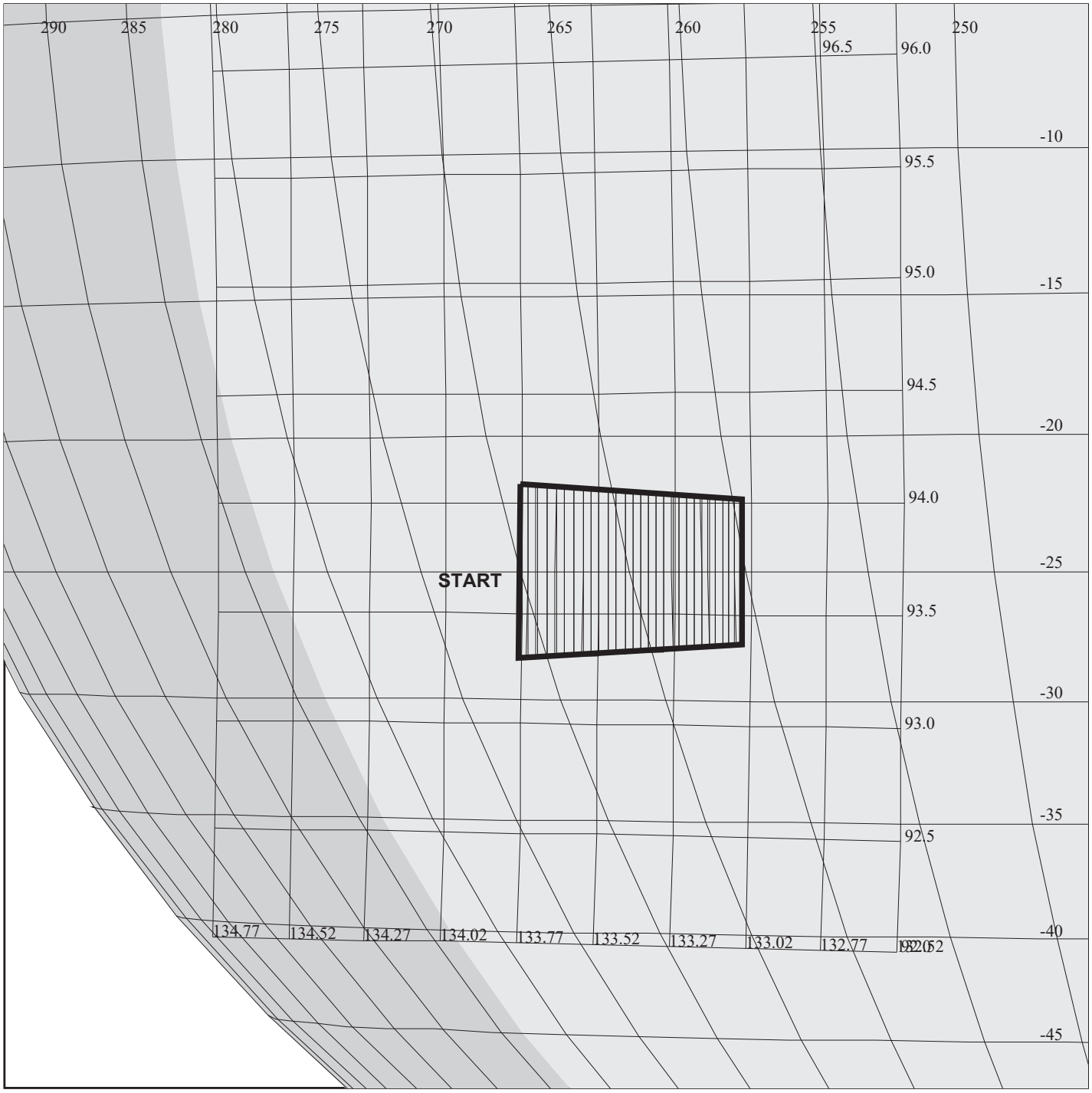
Reload NIMS software to prevent loss of science observations.
These loads are placed strategically to protect high priority science.

Memory load from CDS to NIMS and restart.
Diagnostic checksum, processor halt, memory reload from CDS,
instrument restart, and operational mode set.

Design Detail

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

Galileo Activity Plan Form 01/21/97 14:44:49 rev 6/95



165DZ:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/8874 TC= 1(-25 270)
A= 728 pD= 1456 SR=17.450 RA50=260.66 DEC50=-24.95 cone=133.77 clock= 93.74
117DZ:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/8874
1:#s= 1 Cs= -14.50 XCs= 0.00 Cr= 19.50 XCr= -8.00 sD= 1456 rD= 24

E6ENSUCOMP01

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6ENSUCOMP01

TARGET BODY : EUROPA

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS:

THINNING:NIM 2

START:ETE 97-051/17:06:23.333 -CDS 52:00:0

BODY PLOT TIME:TARGET-TIME D= 1456 S= 3.000

OBSERVATION:E6ENSUCOMP01

DESCRIP:EUROPA SURFACE COMPOSITION

Europa Surface Composition

ACTIVITY ID: E6ENSUCOMP01-
START TIME: 97-051/16:08:45.333

Activity ID: Orbit E6 Target E Inst N OAPEL SUCOMP SeqNo 01 -

Title	Europa Surface Composition	Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team NIMS	Working Group SWG

Time System	CDS	Load ID	Calendar Date	02/20/97	Week 8
Start	ETE-CDS	00000057:00:0	97-051/16:08:45.333	ETE-000/00:57:38.000	
End	ETE-CDS	00000043:00:0	97-051/16:22:54.667	ETE-000/00:43:28.666	
Duration		00000014:00:0	000/00:14:09.334	000/00:14:09.334	

Top Label	E6ENSUCOMP01-				
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

Determine surface composition of a regional area of the lineas in high spatial and spectral resolution

Data Returned

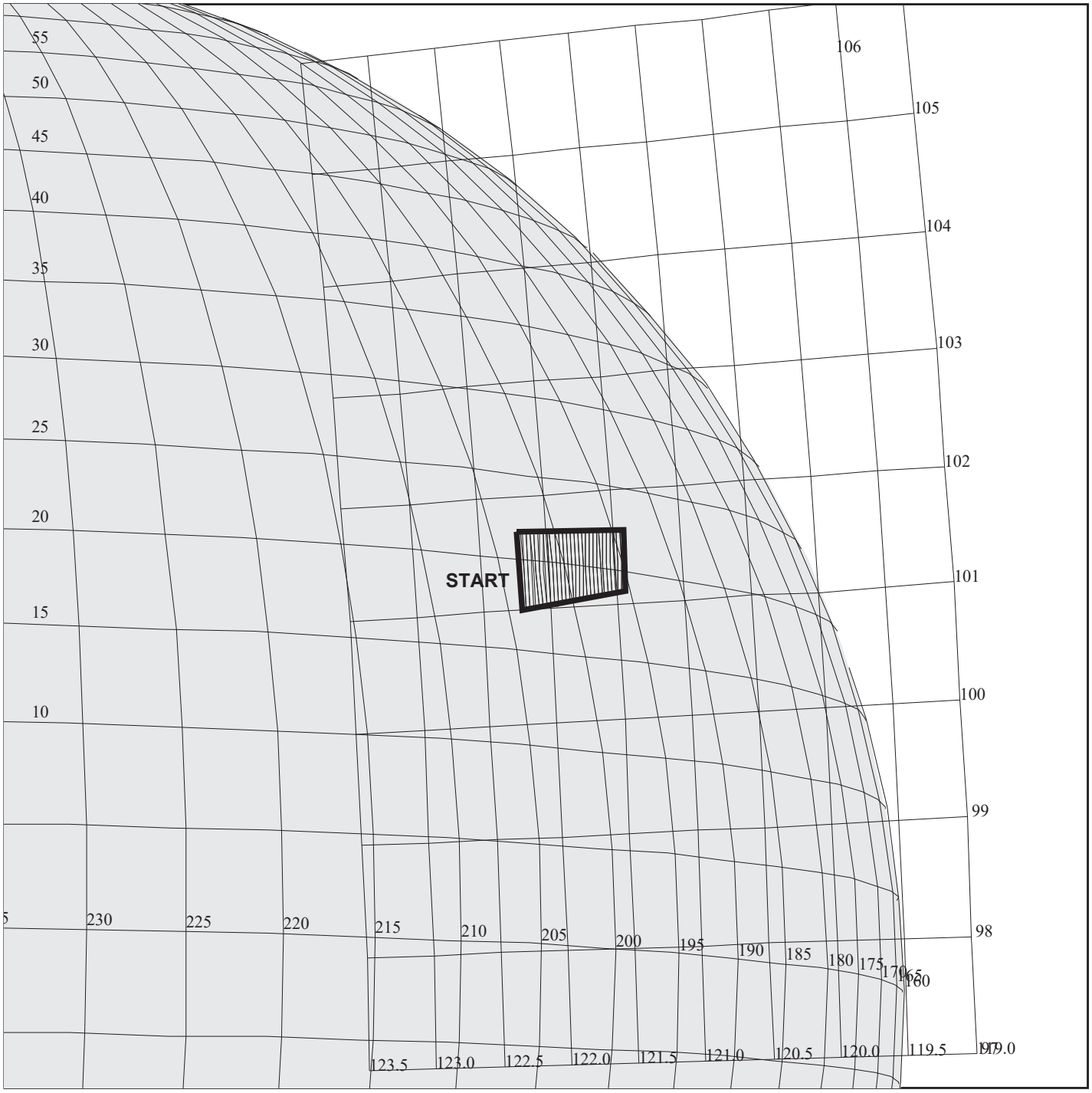
Design Detail

regional mosaic containing 2-3 scans over longitude 130 to 150 and latitudes 25 to 40 degrees north. 20 percent overlap between scans.

Instrument in Long Map mode.

Long Map (LM), Gain 3, Grating Start 0, MPW, ELM442, ELM192

Galileo Activity Plan Form 01/21/97 14:44:49 rev 6/95



165EA:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/2150 TC= 1(19.3 203.5)
A= 728 pD= 1456 SR=17.450 RA50=249.19 DEC50=-17.54 cone=122.22 clock=101.35
117EA:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/2150
1:#s= 1 Cs= -14.50 XCs= 0.00 Cr= 19.50 XCr= -8.00 sD= 1456 rD= 24

E6ENSUCOMP02

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6ENSUCOMP02

TARGET BODY : EUROPA

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS:

THINNING:NIM 2

START:ETE 97-051/17:06:23.333 -CDS 34:00:0

BODY PLOT TIME:TARGET-TIME D= 1456 S= 2.000

OBSERVATION:E6ENSUCOMP02

DESCRIP:EUROPA SURFACE COMPOSITION

Europa Surface Composition — ACTIVITY ID: E6ENSUCOMP02- — START TIME: 97-051/16:26:57.333

Activity ID: Orbit E6 Target E Inst N OAPEL SUCOMP SeqNo 02 -

Title	Europa Surface Composition			Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	Calendar Date	02/20/97	Week 8
Start	ETE-CDS	00000039:00:0	97-051/16:26:57.333	ETE-000/00:39:26.000	
End	ETE-CDS	00000026:01:0	97-051/16:40:05.333	ETE-000/00:26:18.000	
Duration		00000012:90:0	000/00:13:08.000	000/00:13:08.000	

Top Label	E6ENSUCOMP02-				
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 obtain surface compositional data over specified regions of Europa's surface.

Data Returned

Design Detail

Continuous slew mosaic over 200 - 215 degrees longitude
and 20 - 40 degrees south latitude.
20 percent overlap between scans.

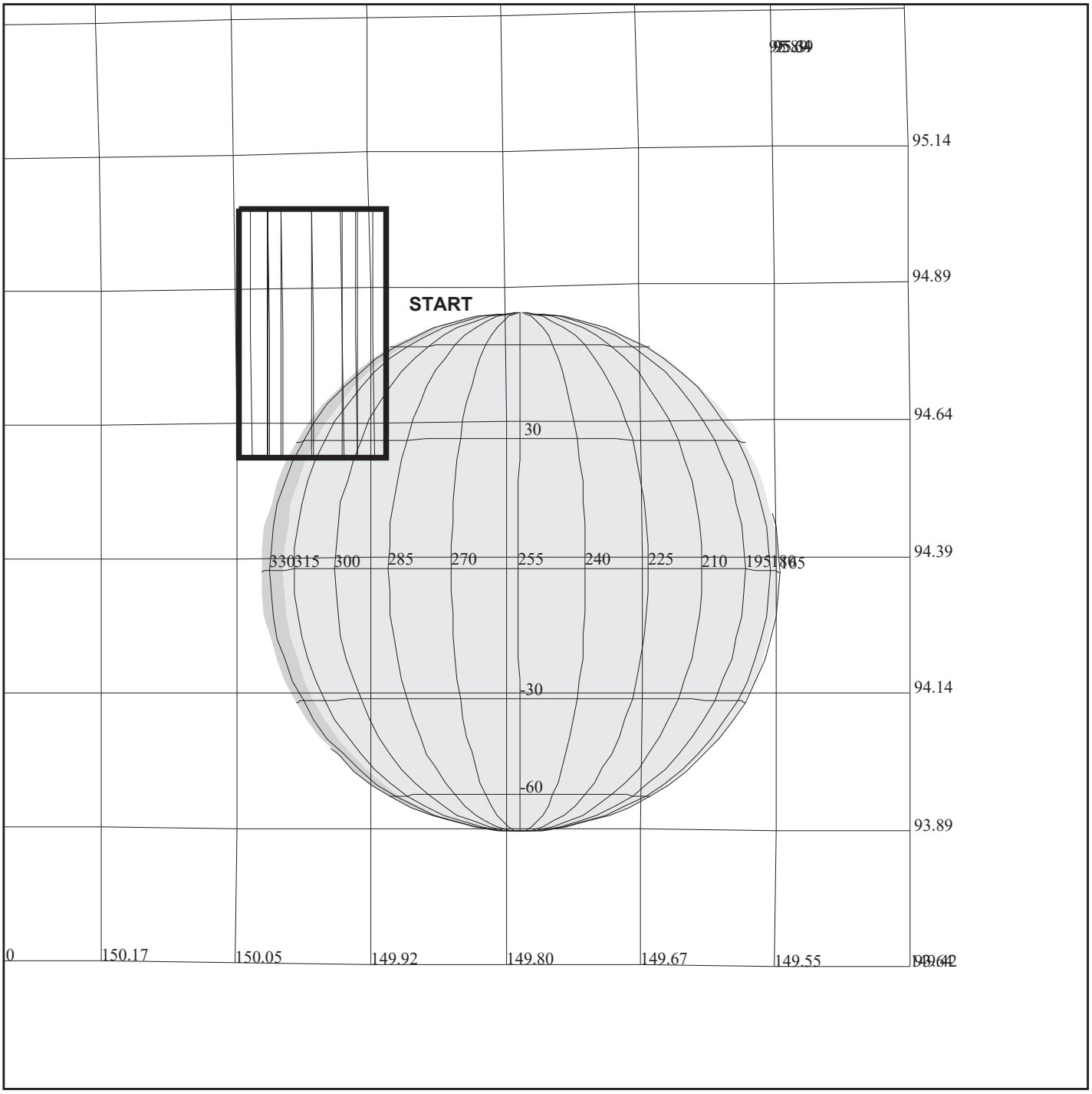
Instrument in long map mode.

Same Swath played back with two complementary wavelength edit tables.

```
  A - 192 wavelengths
+ B -  96 wavelengths
--------------------
+ C - 288 wavelengths (merged product)
```

Long Map (LM), Gain 3, Grating Start 0, MPW, ELM442, ELM192 (A)
Long Map (LM), Gain 3, Grating Start 0, MPW, ELM442, ELM96 (B)
Long Map (LM), Gain 3, Grating Start 0, MPW, ELM442, ELM288 (C)

Galileo Activity Plan Form 01/21/97 14:44:49 rev 6/95



165FO:TT= 0 TMC= 1 C= -1.00 XC= 0.00 BS= 0/4152 TC= 1(10 310)
A= 364 pD= 546 SR=17.450 RA50=278.43 DEC50=-24.28 cone=149.92 clock= 94.45
117FO:#SB= 1 OR= 0.750 RR=12.000 BM=F RC= 1 BS= 0/4152
1:#s= 1 Cs= 2.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 16 rD= 2

E6INRTIMON01

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6INRTIMON01

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS: **THINNING:NIM 2**

START:ETE 97-051/17:06:23.333 -CDS 23:00:0 **BODY PLOT TIME:TARGET-TIME D= 546 S= 0.500**

OBSERVATION:E6INRTIMON01 **DESCRIP:NIMS_IO_REAL_TIME_OBS**

NIMS Io Real-Time Observation ACTIVITY ID: E6INRTIMON01-
START TIME: 97-051/16:40:06.000

Activity ID: Orbit E6 Target I Inst N OAPEL RTIMON SeqNo 01 -

Title	NIMS Io Real-Time Observation			Instrument	NIMS
Requestor	NIMS-SWG/R.	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	Calendar Date	02/20/97	Week 8
Start	ETE-CDS 00000026:00:0	97-051/16:40:06.000		ETE-000/00:26:17.333	
End	ETE-CDS 00000021:07:0	97-051/16:45:04.667		ETE-000/00:21:18.666	
Duration	00000004:84:0	000/00:04:58.667		000/00:04:58.667	

Top Label	E6INRTIMON01				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	0	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	ALL	DMS	No

Observation Objective

10 wavelength map (Fixed Map) over part of Io.

Data Returned

Design Detail

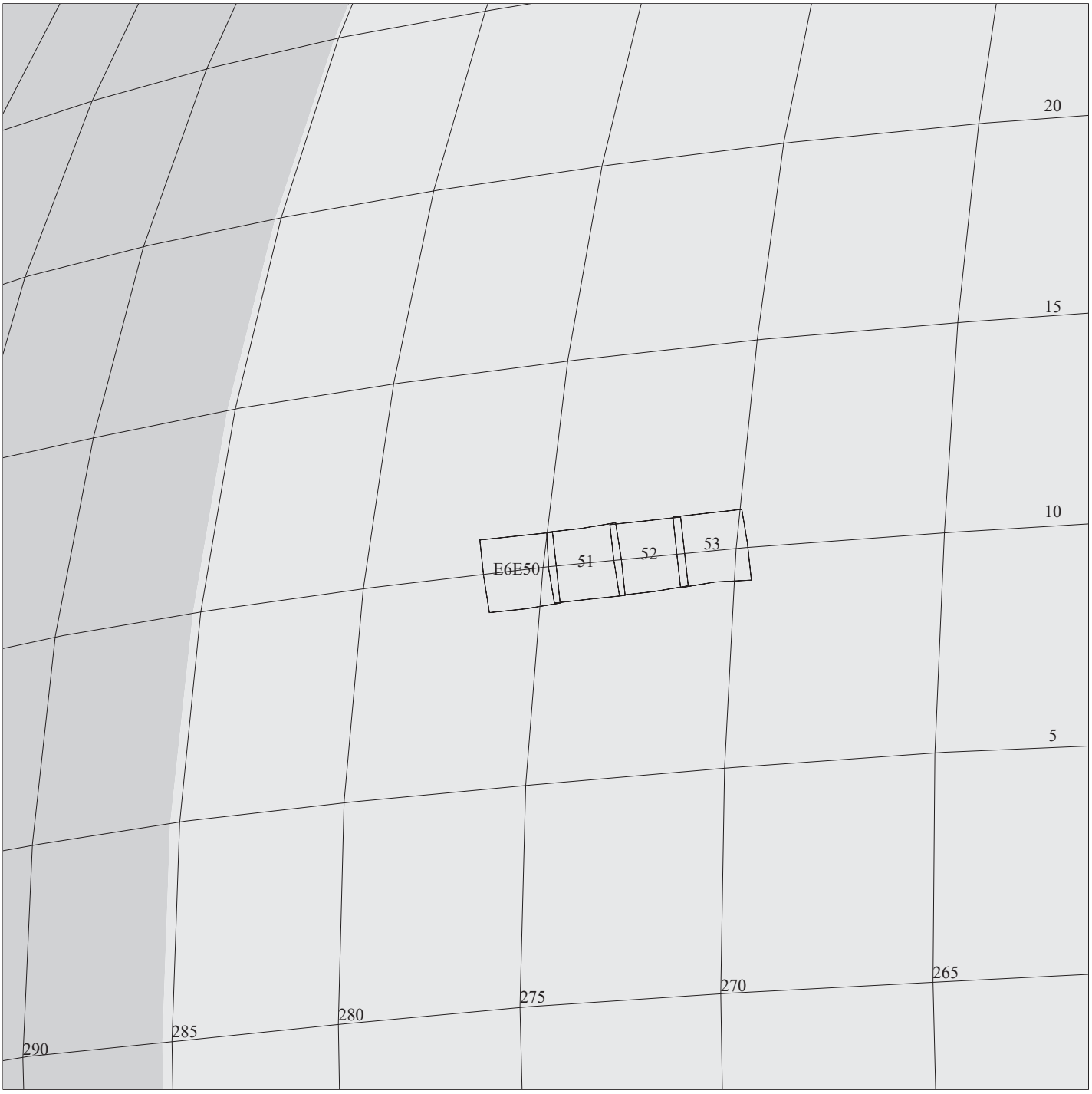
8 wavelength map over a portion of Io.

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

Pointer design missed center of Io.

Fixed Map (XM), Gain 2, Grating Start 21, R/T, IXM008

Galileo Activity Plan Form 01/21/97 14:44:49 rev 6/95



165IR:TT= 0 TMC= 1 C= 10.97 XC= 0.00 BS= 0/4880 TC= 1(10 273.0)
A= 364 pD= 104 SR=17.450 RA50=253.82 DEC50=-14.70 cone=125.97 clock=105.83
118IR:#SB= 1 Cs= -7.30 XCs= 0.00 TPP= 26 SR= 3.000 RR= 6.000 BM=F RC= 1 BS= 3/4880
1:#s= 4 #p= 1 Cr= 0.00 XCr= 0.00

E6ENBRTPLN01

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6ESBRTPLN01

TARGET BODY : EUROPA

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS:

THINNING:

START:ETE 97-051/17:06:23.333 -CDS 19:00:0

BODY PLOT TIME:TARGET-TIME D= 104 S= 4.000

OBSERVATION:E6ESBRTPLN01

DESCRIP:High-res_context_for_brt_plain

NIMS Ride-Along Observation with SSI ACTIVITY ID: E6ENBRTPLN01+
START TIME: 97-051/16:45:09.333

Activity ID: Orbit E6 Target E Inst N OAPEL BRTPLN SeqNo 01 +

Title	NIMS Ride-Along Observation with SSI	Instrument	NIMS
Requestor	NIMS-SWG/A. OCAMPO	Team NIMS	Working Group SWG

Time System	CDS	Load ID	Calendar Date 02/20/97 Week 8
Start	ETE-CDS 00000021:00:0	97-051/16:45:09.333	ETE-000/00:21:14.000
End	ETE-CDS 00000018:00:0	97-051/16:48:11.333	ETE-000/00:18:12.000
Duration	00000003:00:0	000/00:03:02.000	000/00:03:02.000

Top Label E6ENBRTPLN01+
Bottom Label

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

Observation Objective

This is a coordinated high resolution ride-along observation of the Bright Plains with SSI.

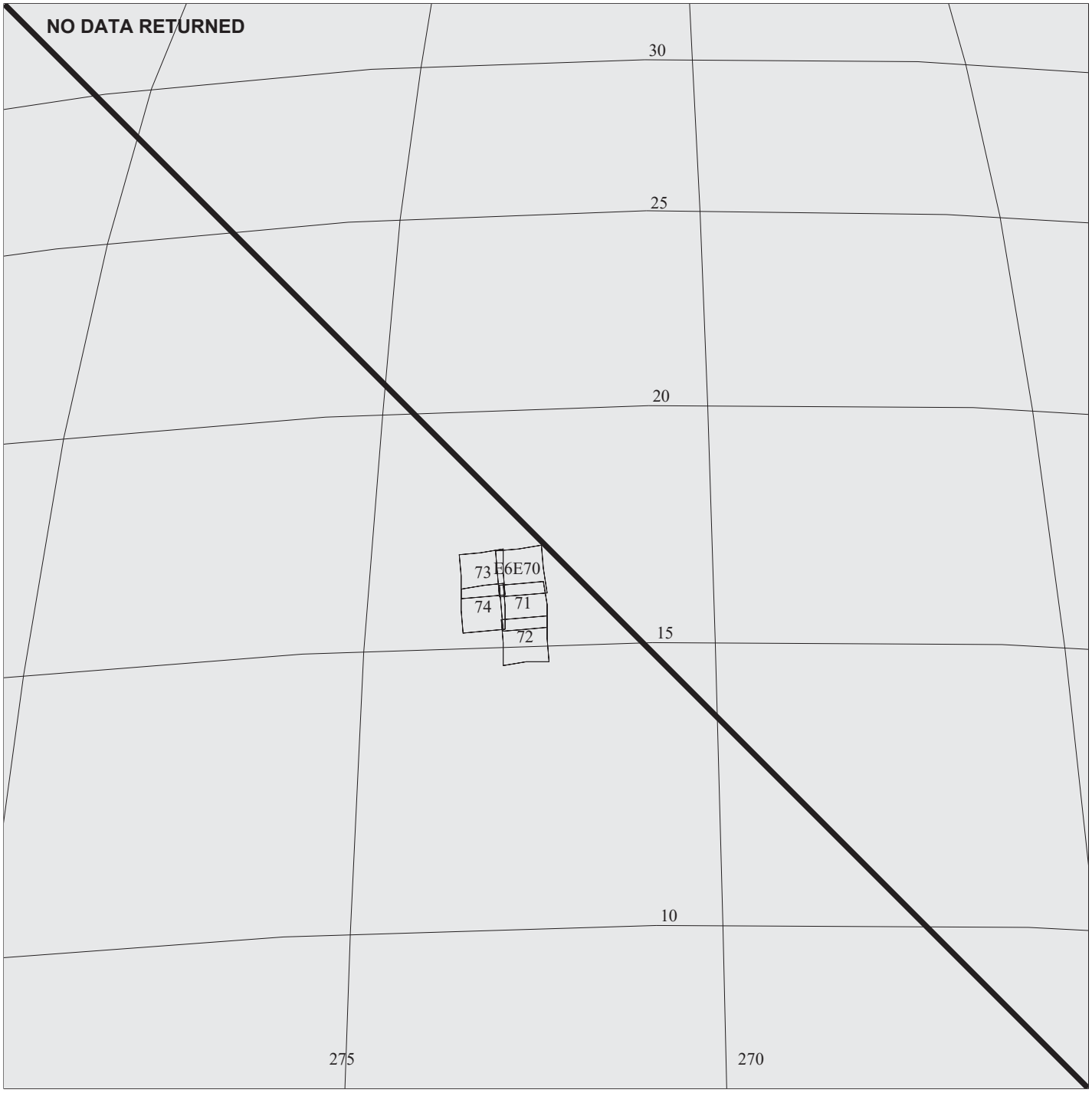
Data Returned

Design Detail

Ride-along behind a SSI 4x1 IM8 mosaic.

Long Map (LM), Gain 2, Grating Start 0, IM8, ELM442, ELM384

Galileo Activity Plan Form 01/21/97 14:44:49 rev 6/95



165IT:TT= 0 TMC= 1 C= -3.00 XC= 3.80 BS= 0/6882 TC= 1(16.0 273.0)
A= 182 pD= 130 SR=17.450 RA50=233.58 DEC50= 9.71 cone= 99.21 clock=124.28
118IT:#SB= 1 Cs= 0.00 XCs= -6.10 TPP= 26 SR= 3.000 RR= 6.000 BM=F RC= 1 BS= 3/6882
1:#s= 3 #p= 2 Cr= 7.30 XCr= 12.40

E6ENBRTPLN02

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6ESBRTPLN02

TARGET BODY : EUROPA

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS:

THINNING:

START:ETE 97-051/17:06:23.333 -CDS 8:00:0

BODY PLOT TIME:TARGET-TIME D= 130 S= 5.000

OBSERVATION:E6ESBRTPLN02

DESCRIP:Highest_resolution_bright_plains

NIMS Ride-Along Observation with SSI ACTIVITY ID: E6ENBRTPLN02+
START TIME: 97-051/16:57:17.333

Activity ID: Orbit E6 Target E Inst N OAPEL BRTPLN SeqNo 02 +

Title	NIMS Ride-Along Observation with SSI	Instrument	NIMS
Requestor	NIMS-SWG/A. OCAMPO	Team NIMS	Working Group SWG

Time System	CDS	Load ID	Calendar Date 02/20/97 Week 8
Start	ETE-CDS 00000009:00:0	97-051/16:57:17.333	ETE-000/00:09:06.000
End	ETE-CDS 00000006:00:0	97-051/17:00:19.333	ETE-000/00:06:04.000
Duration	00000003:00:0	000/00:03:02.000	000/00:03:02.000

Top Label E6ENBRTPLN02+
Bottom Label

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

Observation Objective

This is the second coordinated high resolution ride-along observation of the Bright Plains with SSI.

No Data Returned

Design Detail

Ride-along behind a SSI 2x2 IM8 mosaic.

Long Map (LM), Gain 2, Grating Start 0, IM8, ELM442, ELM384

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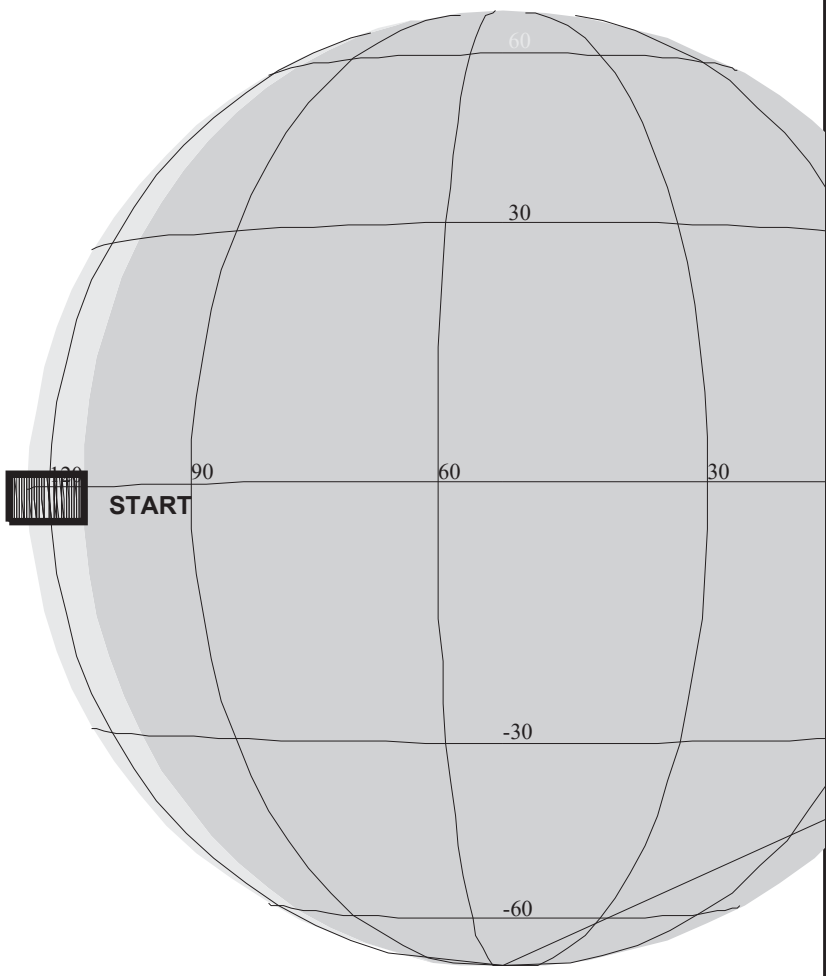

165FM:TT= 0 TMC= 1 C= -90.00 XC= 0.00 BS= 0/6528 TC= 3
A= 728 pD= 0 SR=17.450 RA50= 94.24 DEC50= 25.64 cone= 33.97 clock=272.42
117FM:#SB= 1 OR= 0.750 RR=12.000 BM=F RC= 17 BS= 0/6528
1:#s= 1 Cs= -14.50 XCs= 0.00 Cr= 16.60 XCr= 0.00 sD= 66 rD= 16

E6ENSEAICE01

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6ENSEAICE01

TARGET BODY : EUROPA

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS:

THINNING:NIM 2

START:ETE 97-051/17:06:23.333 +CDS 45:00:0

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.700

OBSERVATION:E6ENSEAICE01

DESCRIP:NIMS_EUROPA_SEA_ICE

Europa Hexangonal Ice

ACTIVITY ID: E6ENSEAICE01-
START TIME: 97-051/17:45:49.333

Activity ID: Orbit E6 Target E Inst N OAPEL SEAICE SeqNo 01 -

Title	Europa Hexangonal Ice			Instrument	NIMS
Requestor	NIMS-SWG/A. Ocampo	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	Calendar Date	02/20/97	Week 8
Start	ETE+CDS	00000039:00:0	97-051/17:45:49.333	ETE+000/00:39:26.000	
End	ETE+CDS	00000064:00:0	97-051/18:11:05.999	ETE+000/01:04:42.666	
Duration		00000025:00:0	000/00:25:16.666	000/00:25:16.666	

Top Label	E6ENSEAICE01-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	0	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

This observation is aimed to distinguish hexagonal ice or younger ice ice or older ice. The observation will focus on the crescent limb of Europa at phase angles from 150 degrees to 160 degrees, which will give scattering angles of 22 degrees (older ice) and 46 degrees (younger ice) respectively. This observation is geometry critical.

Data Returned

Design Detail

Phase Angle = 154 degrees
CN = 31 degrees
CK = 272 degrees
Lat = -2 degrees
W. Longitude = 120 degrees
Record Mode = LPU

Mode = XM
Gain State = 3
Resolution = 6.5 Km

Scan back-and-forth across Europa's thin crescent.

Return first 3 of 17 identical swaths.

Fixed Map (XM), Gain 3, Grating Start 0, LPU, EXM10B, EXM10B

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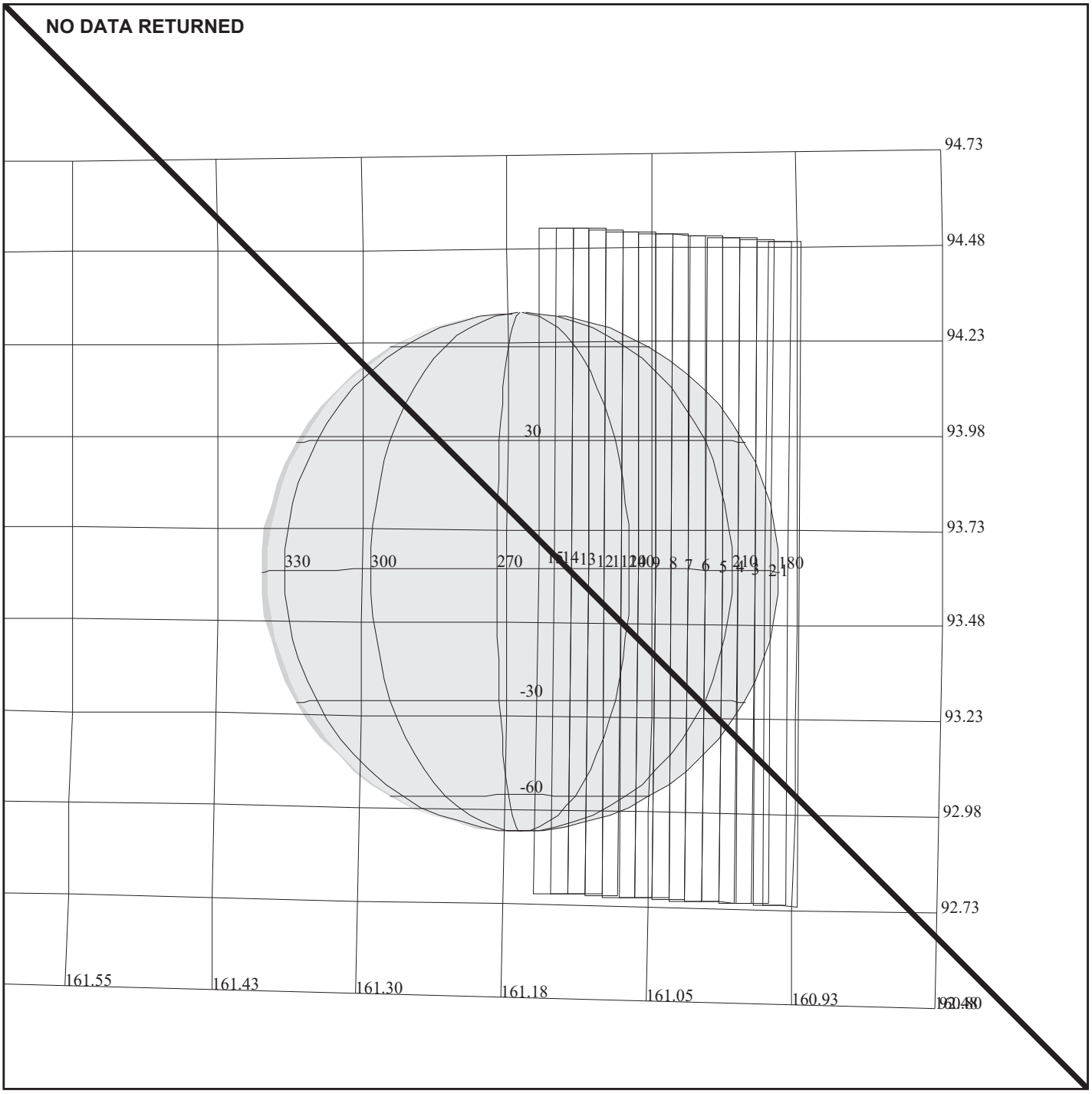

165EC:TT= 0 TMC= 1 C= -4.00 XC= 0.00 BS=10/1634 TC= 3
A= 728 pD= 0 SR=17.450 RA50=290.43 DEC50=-23.28 cone=160.94 clock= 93.62
117EC:#SB= 1 OR= 0.040 RR=12.000 BM=F RC= 1 BS=10/1634
1:#s= 1 Cs= 10.20 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 772 rD= 2

E6INCHEMIS05

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6INCHEMIS05

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS: **THINNING:NIM 2**

START:IEE 97-051/12:03:03.333 +CDS 428:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.500**

OBSERVATION:E6INCHEMIS05 **DESCRIP:MONITORING OF IO DAYSIDE**

Monitoring of IO's Dayside

ACTIVITY ID: E6INCHEMIS05-
START TIME: 97-051/19:11:45.999

Activity ID: Orbit E6 Target I Inst N OAPEL CHEMIS SeqNo 05 -

Title	Monitoring of IO's Dayside			Instrument	NIMS
Requestor	NIMS-SWG/R. LOPES	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	Calendar Date	02/20/97	Week 8
Start	IEE+CDS	00000424:00:0	97-051/19:11:45.999	IEE+000/07:08:42.666	
End	IEE+CDS	00000433:00:0	97-051/19:20:51.999	IEE+000/07:17:48.666	
Duration		00000009:00:0	000/00:09:06.000	000/00:09:06.000	

Top Label	E6INCHEMIS05-				
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 ~800 km/nimsel (most observations will have resolutions between 120 and 400 km/nimsel).

No Data Returned

Design Detail

Partial or full disk mosaics within C/A + or - 32 hours in all orbits. High priority orbits are G2, C3, E4, E6 and E10 where resolution for lit disk is best.

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

Long Map (LM), Gain 2, Grating Start 0, LPU, ILM245, ILM96

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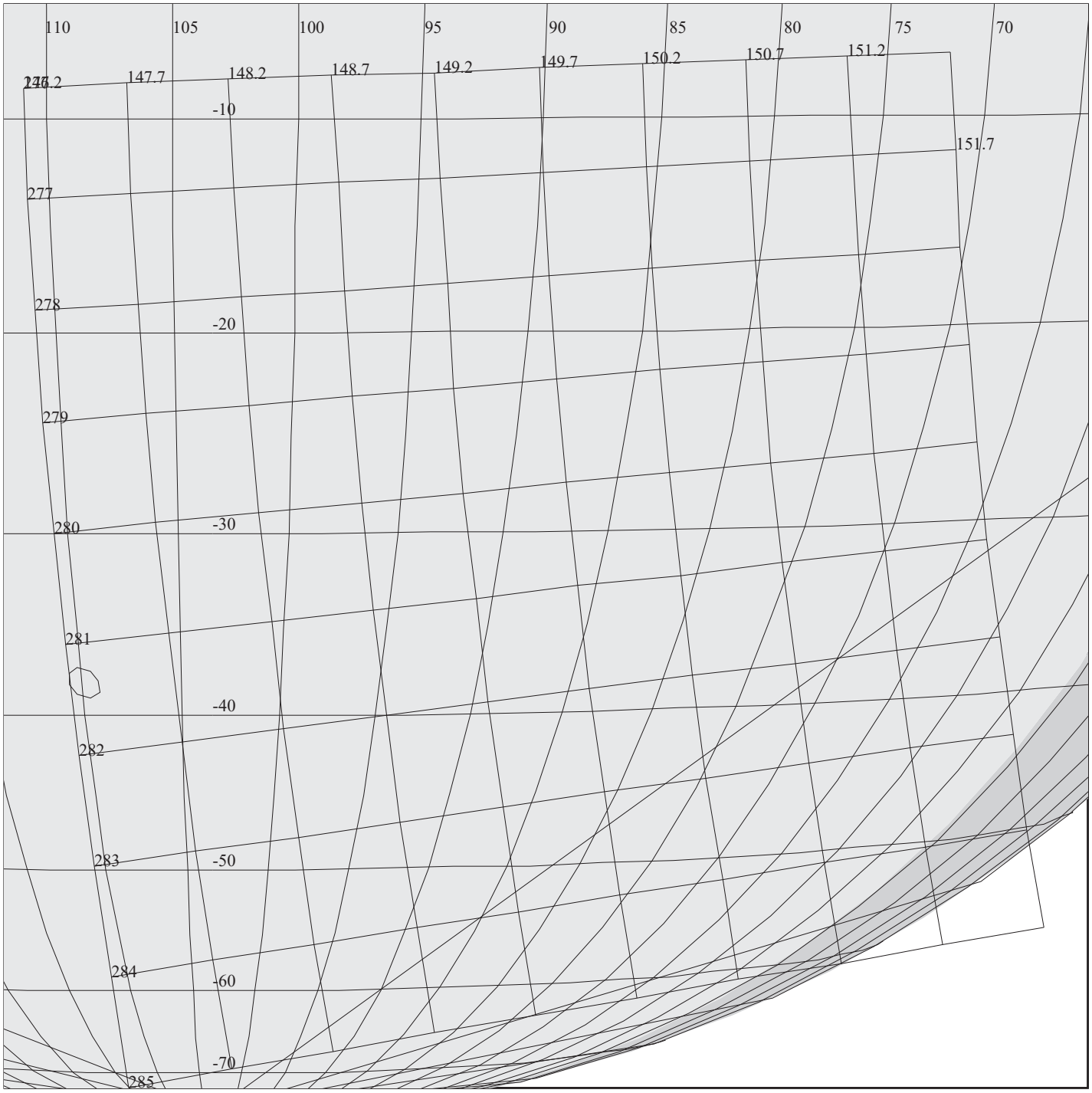

165GC:TT= 0 TMC= 1 C= 17.00 XC= -2.90 BS= 0/1472 TC= 1(-35 98)
A= 728 pD= 0 SR=17.450 RA50=341.01 DEC50=-11.26 cone=149.45 clock=280.80
117GC:#SB= 1 OR= 0.170 RR=12.000 BM=F RC= 1 BS= 0/1472
1:#s= 10 Cs= -39.70 XCs= -3.70 Cr= 36.00 XCr= 4.35 sD= 708 rD= 22

E6NNHEALTH03

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6JPFT1EM101

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS: **THINNING: :PPR 1**

START:JEE 97-051/20:52:52.600 +CDS 13:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 2.500**

OBSERVATION:E6JPFT1EM101 **DESCRIP:E6_LOW_VIEW_WHITE_OVAL**

E6 Health 3

ACTIVITY ID: E6NNHEALTH03-
START TIME: 97-051/21:39:23.266

Activity ID: Orbit E6 Target N Inst N OAPEL HEALTH SeqNo 03 -

Title	E6 Health 3			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID	Calendar Date	02/20/97	Week 8
Start	JEE+CDS	00000046:00:0	97-051/21:39:23.266	JEE+000/00:46:30.666	
End	JEE+CDS	00000050:00:0	97-051/21:43:25.933	JEE+000/00:50:33.333	
Duration		00000004:00:0	000/00:04:02.667	000/00:04:02.667	

Top Label E6NNHEALTH03-
Bottom Label

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

Observation Objective

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

Data Returned

Design Detail

No scan platform commanding. Scan platform is at the end of the slew of the previous observation: E6JPFT1EM101

Long Map (LM), Gain 2, Grating Start 0, R/T, RT003

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NIMS Software Load

ACTIVITY ID: E6NIMSP2LD03-
START TIME: 97-051/21:48:29.266

Activity ID: Orbit E6 Target N Inst I OAPEL MSP2LD SeqNo 03 -

Title	NIMS Software Load			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID	Calendar Date	02/20/97	Week 8
Start	JEE+CDS	00000055:00:0	97-051/21:48:29.266	JEE+000/00:55:36.666	
End	JEE+CDS	00000065:00:0	97-051/21:58:35.933	JEE+000/01:05:43.333	
Duration		00000010:00:0	000/00:10:06.667	000/00:10:06.667	

Top Label E6NIMSP2LD03-
Bottom Label

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

Observation Objective

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

Memory load from CDS to NIMS and restart.
Diagnostic checksum, processor halt, memory reload from CDS,
instrument restart, and operational mode set.

Design Detail

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

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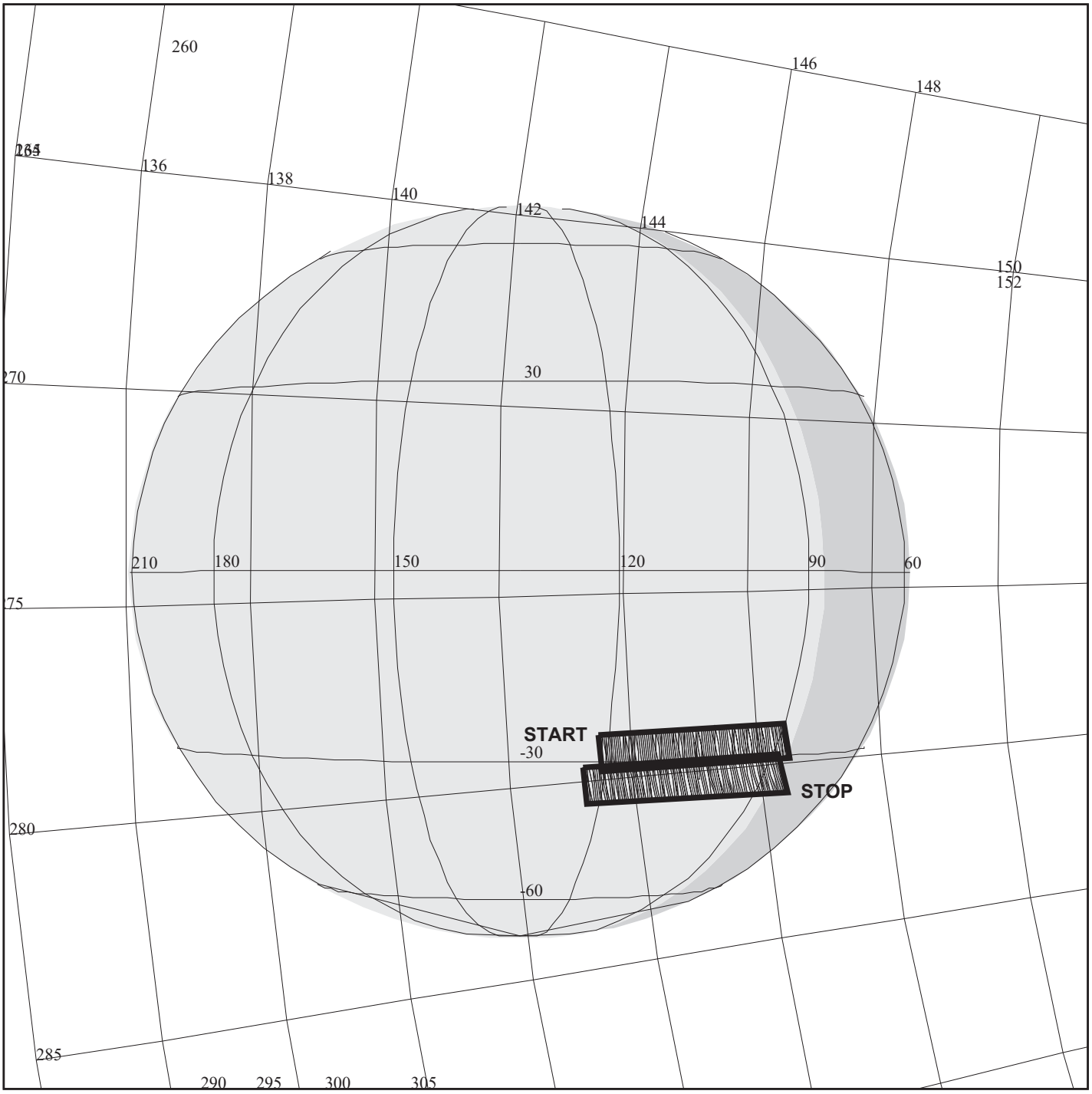


165ED:TT= 0 TMC= 1 C= -43.00 XC= -9.30 BS= 0/2028 TC= 1(-33 91.5)
A= 728 pD= 0 SR=17.450 RA50=346.42 DEC50= -8.54 cone=143.52 clock=279.31
117ED:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/2028
1:#s= 2 Cs= 44.00 XCs= 0.00 Cr= -55.00 XCr= 8.00 sD= 1212 rD= 60

E6JNFEA03801

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6JNFEA03801

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS:

THINNING:NIM 2

START:EEE 97-051/17:03:21.333 +CDS 298:00:0

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

OBSERVATION:E6JNFEA03801

DESCRIP:JUP_FEAT_TRK_38_DEG_PHS_01

Jupiter Feature Track 38 deg phase pt 1 ACTIVITY ID: E6JNFEA03801-
START TIME: 97-051/21:59:36.666

Activity ID: Orbit E6 Target J Inst N OAPEL FEA038 SeqNo 01 -

Title	Jupiter Feature Track 38 deg phase pt 1	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS Working Group AWG

Time System	CDS	Load ID	Calendar Date	02/20/97	Week 8
Start	EEE+CDS	00000293:00:0	97-051/21:59:36.666	EEE+000/04:56:15.333	
End	EEE+CDS	00000312:30:0	97-051/22:19:09.333	EEE+000/05:15:48.000	
Duration		00000019:30:0	000/00:19:32.667	000/00:19:32.667	

Top Label	E6JNFEA03801-				
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

One of 23 OAPELs constituting the feature tracks for this feature campaign. This is the first and only observation obtained on a rotation with phase angle approximately 38 degrees. Jupiter imaged in 4 colors, using NIMS downlink wavelength table JFT04A. This observation acquired with White Oval DE feature near the evening terminator assuming campaign feature coordinates 33 degrees south latitude and 91.5 degrees west longitude.
White Oval BC will also be observed.

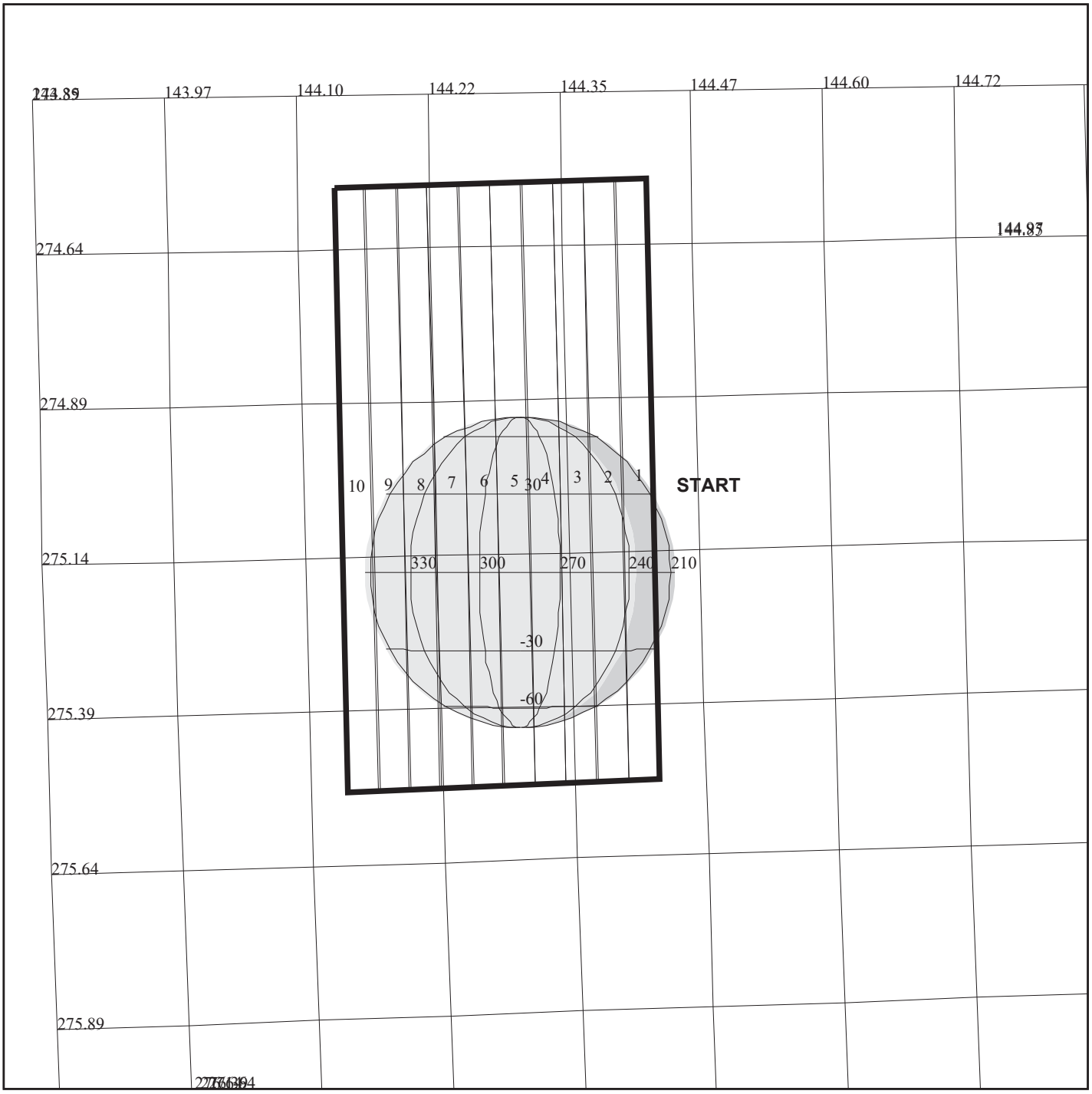
Data Returned

Design Detail

Short map, Nyquist-sampled observation of 2*4 (20*34 mrad) contiguous area. The White Oval DE feature is located in the middle of the second tier. S/C distance about 0.60 million KM, NIMS IFOV (NIMSEL) = 300 KM; 2*4 mosaic covers 12000*20400 KM with a 20% overlap between tiers. About 860 seconds of scanning, including 60 secs total for 3 reposition slews. Data accumulated .15 mbtg in 4 colors, and using 0.02889 tracks. 4 rims reserved for targetting.

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

Galileo Activity Plan Form 01/21/97 14:44:50 rev 6/95



165EE:TT= 0 TMC= 1 C= 2.10 XC= -1.50 BS= 0/6456 TC= 3
A= 728 pD= 0 SR=17.450 RA50=344.63 DEC50= -6.53 cone=144.42 clock=275.02
117EE:#SB= 1 OR= 0.050 RR=12.000 BM=F RC= 1 BS= 0/6456
1:#s= 1 Cs= -9.70 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 492 rD= 2

E6INCHEMIS06

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6INCHEMIS06

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS: **THINNING:NIM 2**

START:IEE 97-051/12:03:03.333 +CDS 949:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.300**

OBSERVATION:E6INCHEMIS06 **DESCRIP:MONITORING OF IO DAYSIDE**

Monitoring of IO's Dayside

ACTIVITY ID: E6INCHEMIS06-
START TIME: 97-052/03:57:32.666

Activity ID: Orbit E6 Target I Inst N OAPEL CHEMIS SeqNo 06 -

Title	Monitoring of IO's Dayside			Instrument	NIMS
Requestor	NIMS-SWG/R. LOPES	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	Calendar Date	02/21/97	Week 8
Start	IEE+CDS	00000944:00:0	97-052/03:57:32.666	IEE+000/15:54:29.333	
End	IEE+CDS	00000951:78:0	97-052/04:05:29.333	IEE+000/16:02:26.000	
Duration		00000007:78:0	000/00:07:56.667	000/00:07:56.667	

Top Label	E6INCHEMIS06-				
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 ~800 km/nimsel (most observations will have resolutions between 120 and 400 km/nimsel).

Data Returned

Design Detail

Partial or full disk mosaics within C/A + or - 32 hours in all orbits. High priority orbits are G2, C3, E4, E6 and E10 where resolution for lit disk is best.

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

Long Map (LM), Gain 2, Grating Start 0, LPU, ILM245, ILM216

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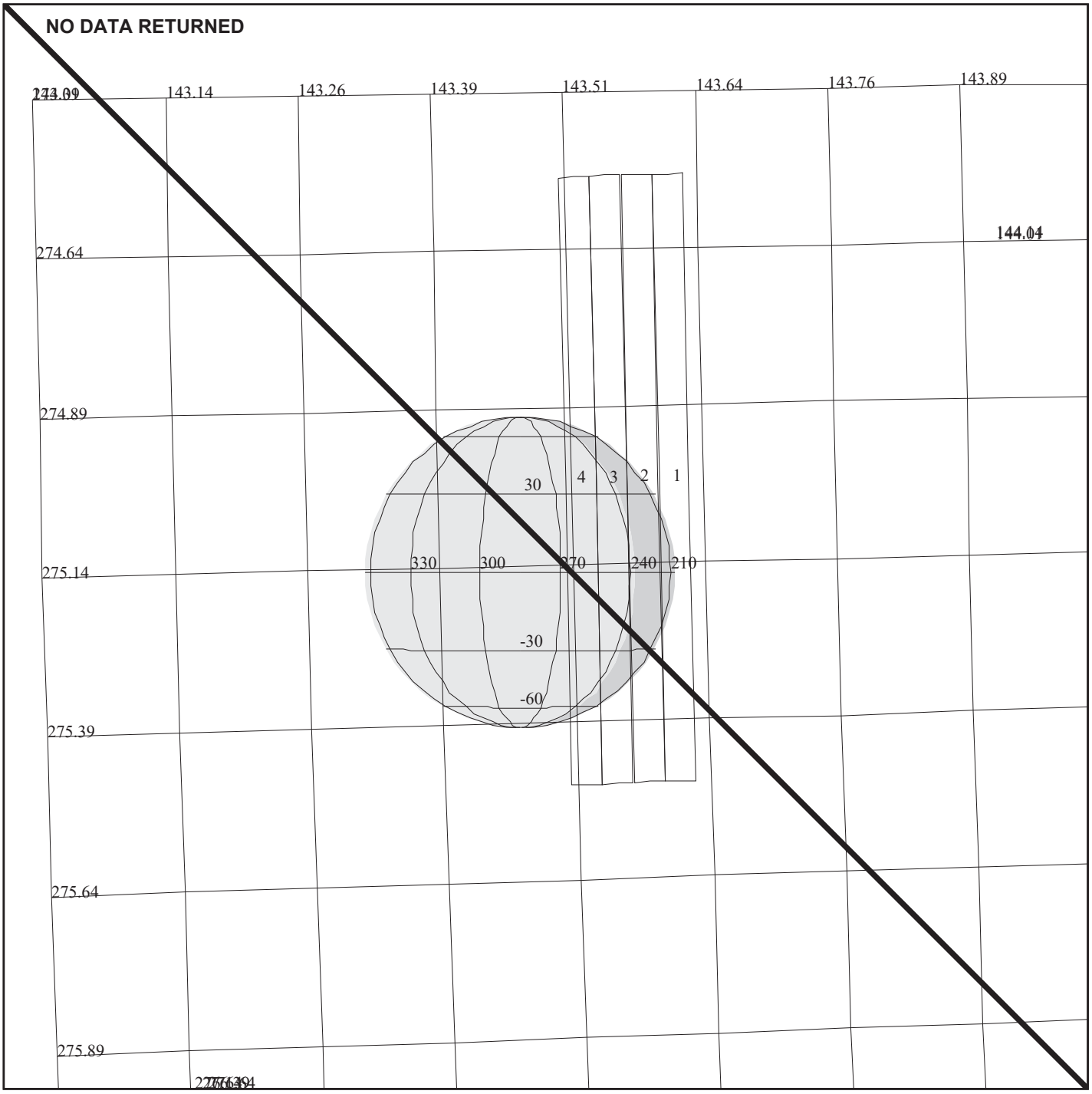

165EF:TT= 0 TMC= 1 C= 2.70 XC= -1.50 BS= 0/7912 TC= 3
A= 728 pD= 0 SR=17.450 RA50=345.37 DEC50= -6.20 cone=143.62 clock=275.00
117EF:#SB= 1 OR= 0.050 RR=12.000 BM=F RC= 1 BS= 0/7912
1:#s= 1 Cs= -4.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 208 rD= 2

E6INTHRMAL01

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6INTHRMAL01

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS:

THINNING:NIM 2

START:IEE 97-051/12:03:03.333 +CDS 957:00:0

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

OBSERVATION:E6INTHRMAL01

DESCRIP:MONITORING OF IO NIGHTSIDE

Monitoring of IO's Nightside

ACTIVITY ID: E6INTHRMAL01-
START TIME: 97-052/04:05:30.666

Activity ID: Orbit E6 Target I Inst N OAPEL THRMAL SeqNo 01 -

Title	Monitoring of IO's Nightside			Instrument	NIMS
Requestor	NIMS-SWG/R. LOPES	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	Calendar Date	02/21/97	Week 8
Start	IEE+CDS	00000951:80:0	97-052/04:05:30.666	IEE+000/16:02:27.333	
End	IEE+CDS	00000958:40:0	97-052/04:12:08.666	IEE+000/16:09:05.333	
Duration		00000006:51:0	000/00:06:38.000	000/00:06:38.000	

Top Label	E6INTHRMAL01-				
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

Thermal monitoring of Io's nightside covering as wide a range of longitudes as possible with resolutions better than ~800 km/nimsel. Objective is to search for and map hot spots, thermal anomalies and outbursts on the surface. Observations will also include the limb to search for auroral effects.

No Data Returned

Design Detail

Partial or full disk mosaics within C/A + or - 32 hours in all orbits. High priority orbits are G1, C3, and C10 because these have the highest longitudinal coverage and orbits G7 and G8 because these have the best nighttime resolution for LOKI.

Instrument mode: Long Map,
Number of Wavelengths: 51,
Tracks used per orbit: 0.01 to 0.1,
Bits To Ground used per orbit: 0.01 to 0.5 Mbits.

Long Map (LM), Gain 4, Grating Start 0, LPU, ILMDK245, ILMDK10B

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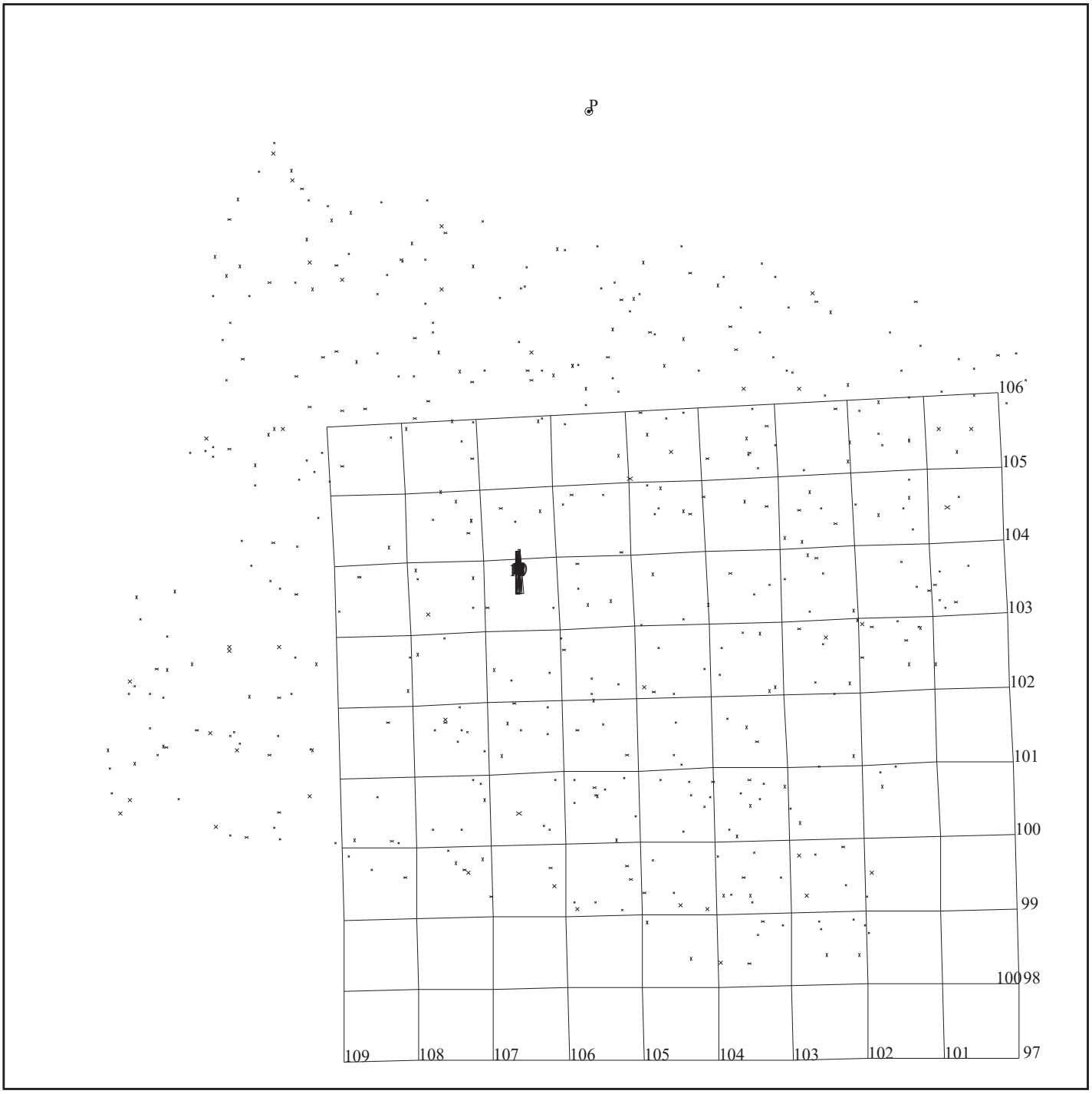


165EG:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/1006 TC=15(-11.5 234.0)
A= 728 pD= 0 SR=17.450 RA50=234.00 DEC50=-11.50 cone=106.50 clock=103.82

E6HNDARK__03

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6HNDARK__03

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS: **THINNING:NIM 2**

START:IEE 97-051/12:03:03.333 +CDS 974:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.800**

OBSERVATION:E6HNDARK__03 **DESCRIP:DARK OBSERVATION**

Dark Observation

ACTIVITY ID: E6HNDARK__03-
START TIME: 97-052/04:22:49.333

Activity ID: Orbit E6 Target H Inst N OAPEL DARK SeqNo 03 -

Title	Dark Observation			Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	Calendar Date	02/21/97	Week 8
Start	IEE+CDS	00000969:00:0	97-052/04:22:49.333	IEE+000/16:19:46.000	
End	IEE+CDS	00000976:00:0	97-052/04:29:53.999	IEE+000/16:26:50.666	
Duration		00000007:00:0	000/00:07:04.666	000/00:07:04.666	

Top Label	E6HNDARK__03-				
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

Obtain 1 rim of dark sky data per day for each day of NIMS observations within the E6 orbit for purposes of calibration.

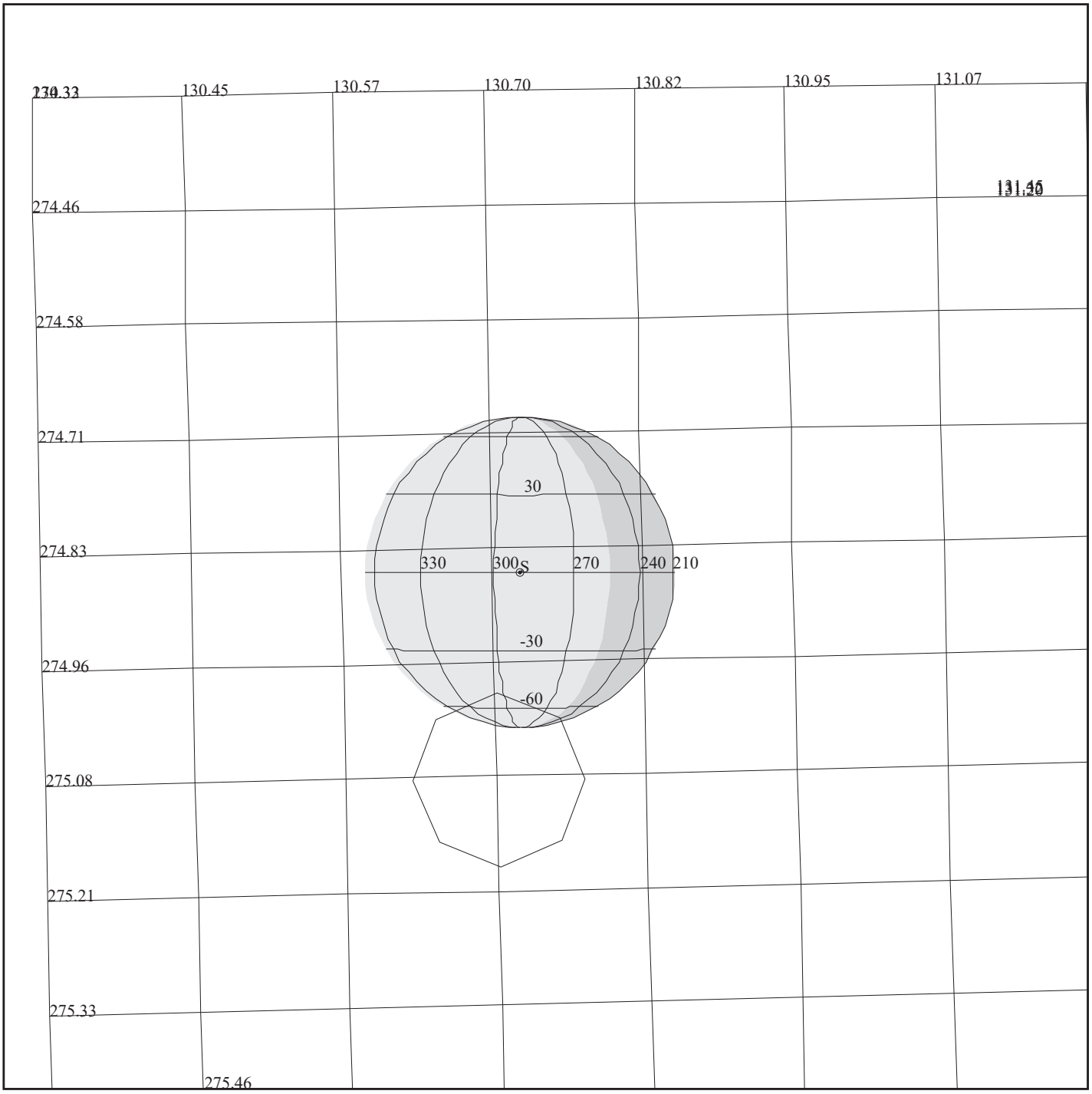
Data Returned

Design Detail

Sit and stare design, target to dark-sky and remain there for 1 rim. Observation to be done in short-map mode.

Long Map (LM), Gain 4, Grating Start 0, LPU, DRK34, DRK32

Galileo Activity Plan Form 01/21/97 14:44:50 rev 6/95



165GR:TT= 0 TMC= 1 C= -0.80 XC= -3.00 BS= 0/0844 TC= 3
A= 728 pD= 0 SR=17.450 RA50=357.10 DEC50= -0.68 cone=130.68 clock=274.63
117GR:#SB= 1 OR= 0.600 RR=12.000 BM=F RC= 1 BS= 0/0844
1:#s= 1 Cs= 0.00 XCs= 6.00 Cr= 0.00 XCr= 0.00 sD= 66 rD= 2

E6NNHEALTH04

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6IPSTP05503

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS: **THINNING: :PPR 1**

START:IEE 97-051/12:03:03.333 +CDS 1083:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.300**

OBSERVATION:E6IPSTP05503 **DESCRIP:IO POLARIMETRY-45DEG PHASE**

E6 Health 4

ACTIVITY ID: E6NNHEALTH04-
START TIME: 97-052/06:44:22.600

Activity ID: Orbit E6 Target N Inst N OAPEL HEALTH SeqNo 04 -

Title	E6 Health 4			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID	Calendar Date	02/21/97	Week 8
Start	JEE+CDS	00000585:00:0	97-052/06:44:22.600	JEE+000/09:51:30.000	
End	JEE+CDS	00000591:00:0	97-052/06:50:26.600	JEE+000/09:57:34.000	
Duration		00000006:00:0	000/00:06:04.000	000/00:06:04.000	

Top Label	E6NNHEALTH04-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	0	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

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

Data Returned

Design Detail

No scan platform commanding. Scan platform is at the end of the slew of the previous observation: E6IPSTP05503

Long Map (LM), Gain 2, Grating Start 0, R/T, RT003

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NIMS Software Load

ACTIVITY ID: E6NIMSP2LD04-
START TIME: 97-052/06:50:26.600

Activity ID: Orbit E6 Target N Inst I OAPEL MSP2LD SeqNo 04 -

Title	NIMS Software Load			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID	Calendar Date	02/21/97	Week 8
Start	JEE+CDS	00000591:00:0	97-052/06:50:26.600	JEE+000/09:57:34.000	
End	JEE+CDS	00000601:00:0	97-052/07:00:33.266	JEE+000/10:07:40.666	
Duration		00000010:00:0	000/00:10:06.666	000/00:10:06.666	

Top Label	E6NIMSP2LD04-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	100	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

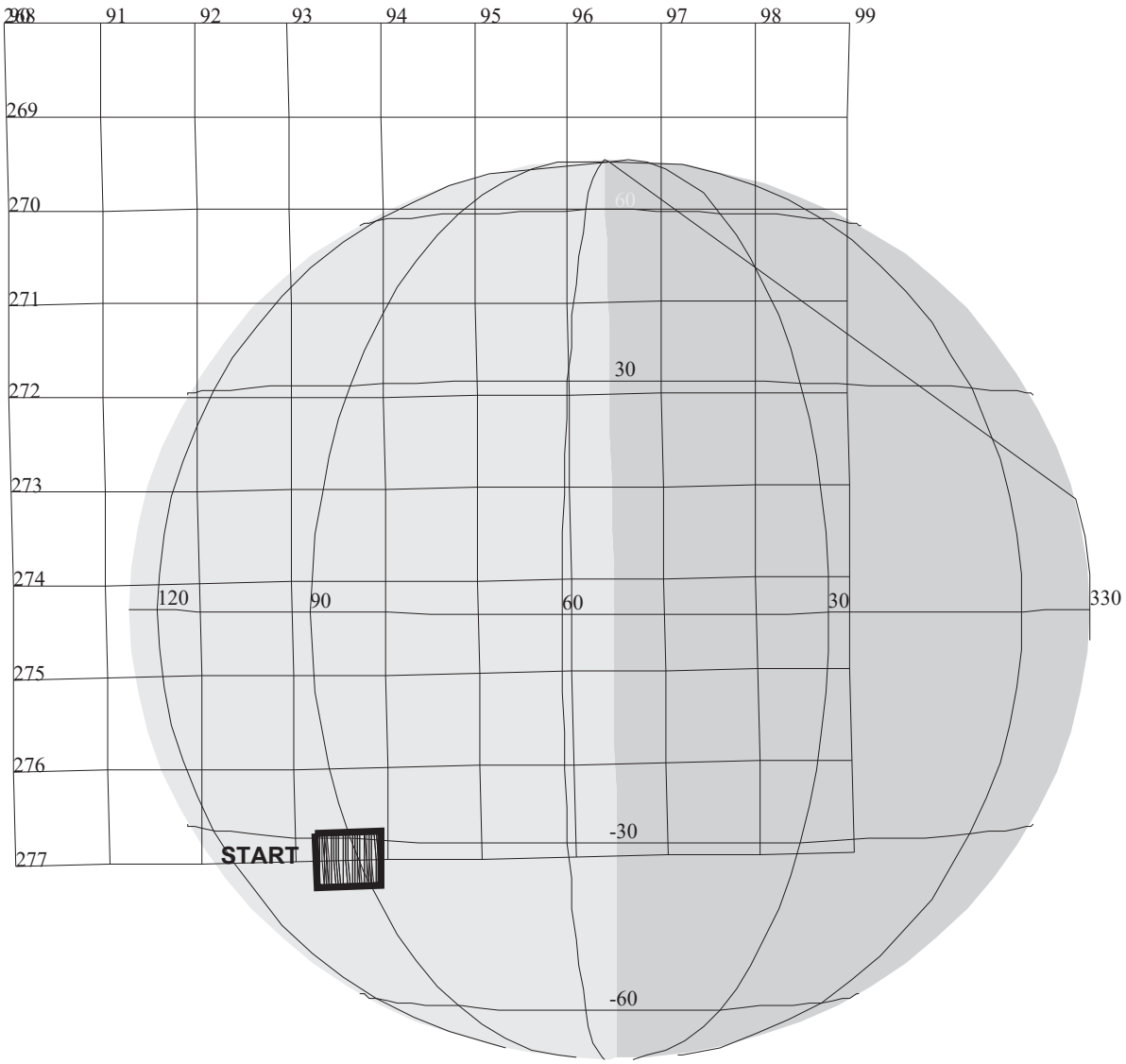
Reload NIMS software to prevent loss of science observations.
These loads are placed strategically to protect high priority science.

Memory load from CDS to NIMS and restart.
Diagnostic checksum, processor halt, memory reload from CDS,
instrument restart, and operational mode set.

Design Detail

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

Galileo Activity Plan Form 01/21/97 14:44:51 rev 6/95



165EH:TT= 0 TMC= 1 C= -6.00 XC= 0.00 BS= 0/9580 TC= 1(-33 91.5)
A= 728 pD= 0 SR=17.450 RA50= 32.71 DEC50= 11.83 cone= 93.23 clock=276.99
117EH:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/9580
1:#s= 1 Cs= 10.90 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 300 rD= 2

E6JNFEA09501

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6JNFEA09501

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-051/20:52:52.600 +CDS 607:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750**

OBSERVATION:E6JNFEA09501 **DESCRIP:JUP_FEAT_TRK_95_DEG_PHASE_01**

Jupiter Feature Track 95 deg phase pt 1 ACTIVITY ID: E6JNFEA09501-
START TIME: 97-052/07:01:33.933

Activity ID: Orbit E6 Target J Inst N OAPEL FEA095 SeqNo 01 -

Title	Jupiter Feature Track 95 deg phase pt 1	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS Working Group AWG

Time System	CDS	Load ID	Calendar Date	02/21/97	Week 8
Start	JEE+CDS	00000602:00:0	97-052/07:01:33.933	JEE+000/10:08:41.333	
End	JEE+CDS	00000609:00:0	97-052/07:08:38.600	JEE+000/10:15:46.000	
Duration		00000007:00:0	000/00:07:04.667	000/00:07:04.667	

Top Label	E6JNFEA09501-				
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

One of 23 OAPELs constituting the feature tracks for this feature campaign. This is the first observations obtained on a rotation with phase angle approximately 95 degrees. Jupiter imaged in 4 colors, using NIMS downlink wavelength table JFT04A. This observation acquired with White Oval DE feature near minimum airmass, assuming feature coordinates 33 degrees south latitude (planetographic) and 91.5 degrees west longitude (System III

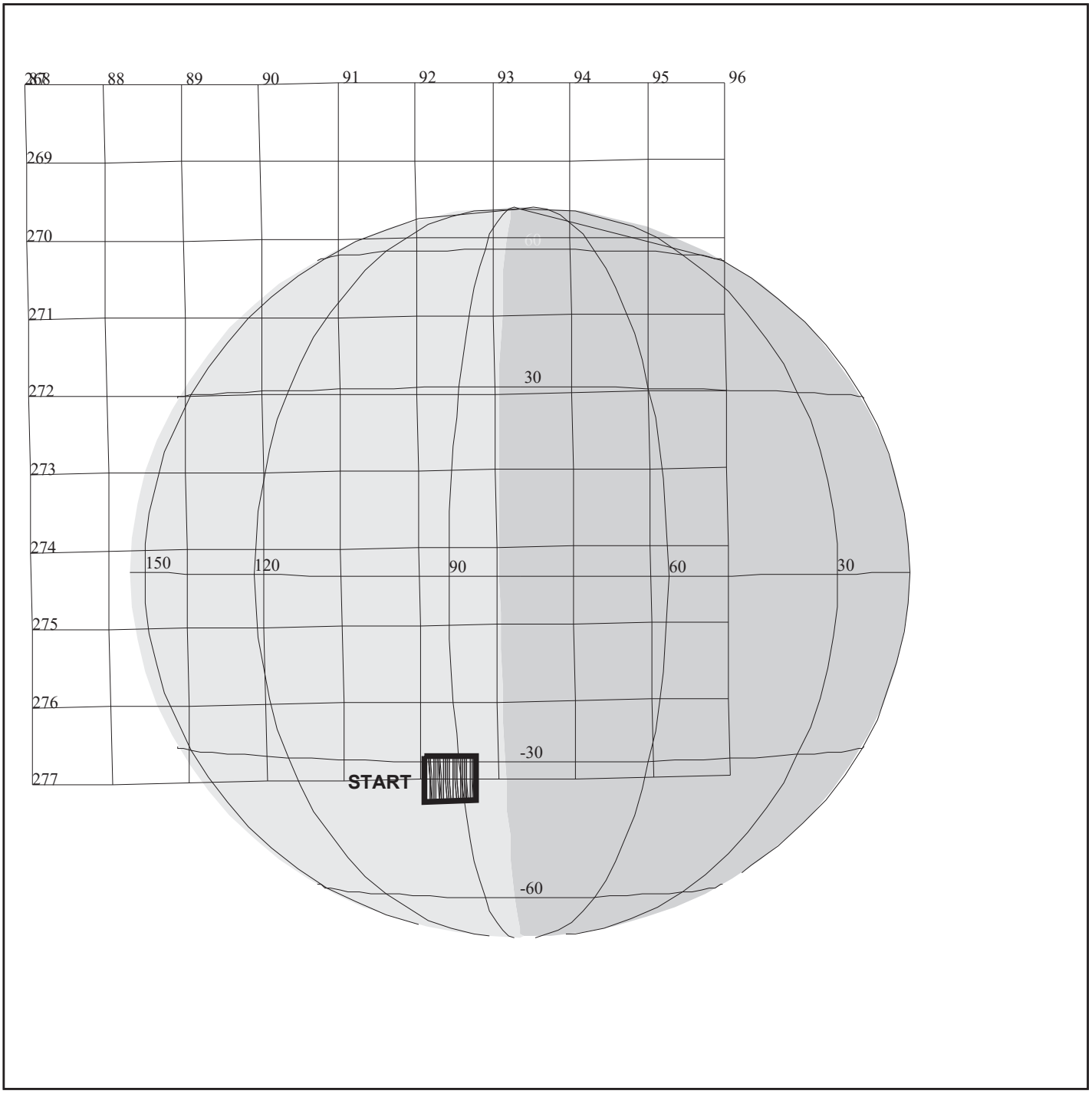
Data Returned

Design Detail

Short map, Nyquist-sampled observation of 1*1 (10*10 mrad) area centered on White Oval DE feature near 91.5 degrees West longitude, 33 degrees South latitude (planetographic). S/C distance about 0.74 million KM, NIMS IFOV (NIMSEL) = 370 KM; 1*1 mosaic covers 7400*7400 KM. About 100 seconds of scanning, accumulating 0.02554 mbtg in 4 colors, and using 0.00336 tracks. 4 rims reserved for targetting.

Short Map (SM), Gain 2, Grating Start 1, LPU, JFT68A, JFT04A

Galileo Activity Plan Form 01/21/97 14:44:51 rev 6/95



165El:TT= 0 TMC= 1 C= -6.00 XC= 0.00 BS= 0/8134 TC= 1(-33 91.5)
A= 728 pD= 0 SR=17.450 RA50= 33.85 DEC50= 12.23 cone= 92.04 clock=276.99
117El:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/8134
1:#s= 1 Cs= 10.90 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 300 rD= 2

E6JNFEA09502

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6JNFEA09502

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-051/20:52:52.600 +CDS 654:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750**

OBSERVATION:E6JNFEA09502 **DESCRIP:JUP_FEAT_TRK_95_DEG_PHASE_02**

Jupiter Feature Track 95 deg phase pt 2 ACTIVITY ID: E6JNFEA09502-
START TIME: 97-052/07:49:05.266

Activity ID: Orbit E6 Target J Inst N OAPEL FEA095 SeqNo 02 -

Title	Jupiter Feature Track 95 deg phase pt 2	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS Working Group AWG

Time System	CDS	Load ID	Calendar Date	02/21/97	Week 8
Start	JEE+CDS	00000649:00:0	97-052/07:49:05.266	JEE+000/10:56:12.666	
End	JEE+CDS	00000656:00:0	97-052/07:56:09.933	JEE+000/11:03:17.333	
Duration		00000007:00:0	000/00:07:04.667	000/00:07:04.667	

Top Label	E6JNFEA09502-				
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

One of 23 OAPELs constituting the feature tracks for this feature campaign. This is the second observation obtained on a rotation with phase angle approximately 95 degrees. Jupiter imaged in 4 colors, using NIMS downlink wavelength table JFT04A. This observation acquired with White Oval DE feature 20 degrees from the evening terminator, assuming feature coordinates 33 degrees south latitude (planetographic) and 91.5 degrees west longitude (System III).

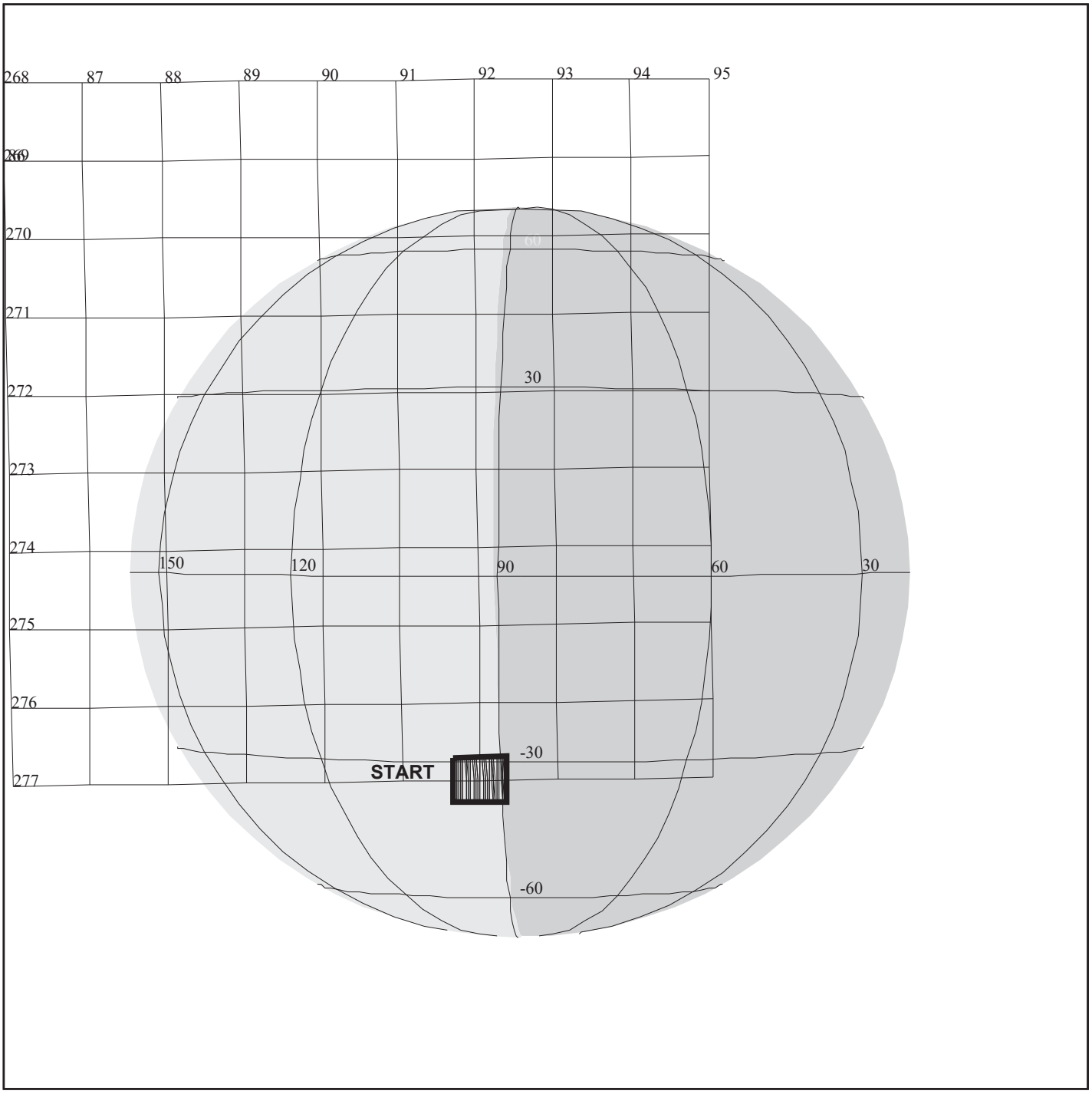
Data Returned

Design Detail

Short map, Nyquist-sampled observation of 1*1 (10*10 mrad) area centered on White Oval DE feature near 91.5 degrees West longitude, 33 degrees South latitude (planetographic). S/C distance about 0.75 million KM, NIMS IFOV (NIMSEL) = 375 KM; 1*1 mosaic covers 7500*7500 KM.
About 100 seconds of scanning, accumulating 0.02554 mbtg in 4 colors, and using 0.00336 tracks. 4 rims reserved for targetting.

Short Map (SM), Gain 2, Grating Start 1, LPU, JFT68A, JFT20A

Galileo Activity Plan Form 01/21/97 14:44:51 rev 6/95



165EJ:TT= 0 TMC= 1 C= -8.50 XC= 0.00 BS= 0/0318 TC= 1(-33 91.5)
A= 728 pD= 0 SR=17.450 RA50= 34.21 DEC50= 12.37 cone= 91.66 clock=276.98
117EJ:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/0318
1:#s= 1 Cs= 10.90 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 300 rD= 2

E6JNFEA09503

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6JNFEA09503

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-051/20:52:52.600 +CDS 666:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750**

OBSERVATION:E6JNFEA09503 **DESCRIP:JUP_FEAT_TRK_95_DEG_PHASE_03**

Jupiter Feature Track 95 deg phase pt 3 ACTIVITY ID: E6JNFEA09503-
START TIME: 97-052/08:01:13.266

Activity ID: Orbit E6 Target J Inst N OAPEL FEA095 SeqNo 03 -

Title	Jupiter Feature Track 95 deg phase pt 3	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS Working Group AWG

Time System	CDS	Load ID	Calendar Date	02/21/97	Week 8
Start	JEE+CDS	00000661:00:0	97-052/08:01:13.266	JEE+000/11:08:20.666	
End	JEE+CDS	00000668:00:0	97-052/08:08:17.933	JEE+000/11:15:25.333	
Duration		00000007:00:0	000/00:07:04.667	000/00:07:04.667	

Top Label	E6JNFEA09503-				
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

One of 23 OAPELs constituting the feature tracks for this feature campaign. This is the third observation obtained on a rotation with phase angle approximately 95 degrees. Jupiter imaged in 4 colors, using NIMS downlink wavelength table JFT04A. This observation acquired with White Oval DE feature near the evening terminator, assuming feature coordinates 33 degrees south latitude (planetographic) and 91.5 degrees west longitude (System III).

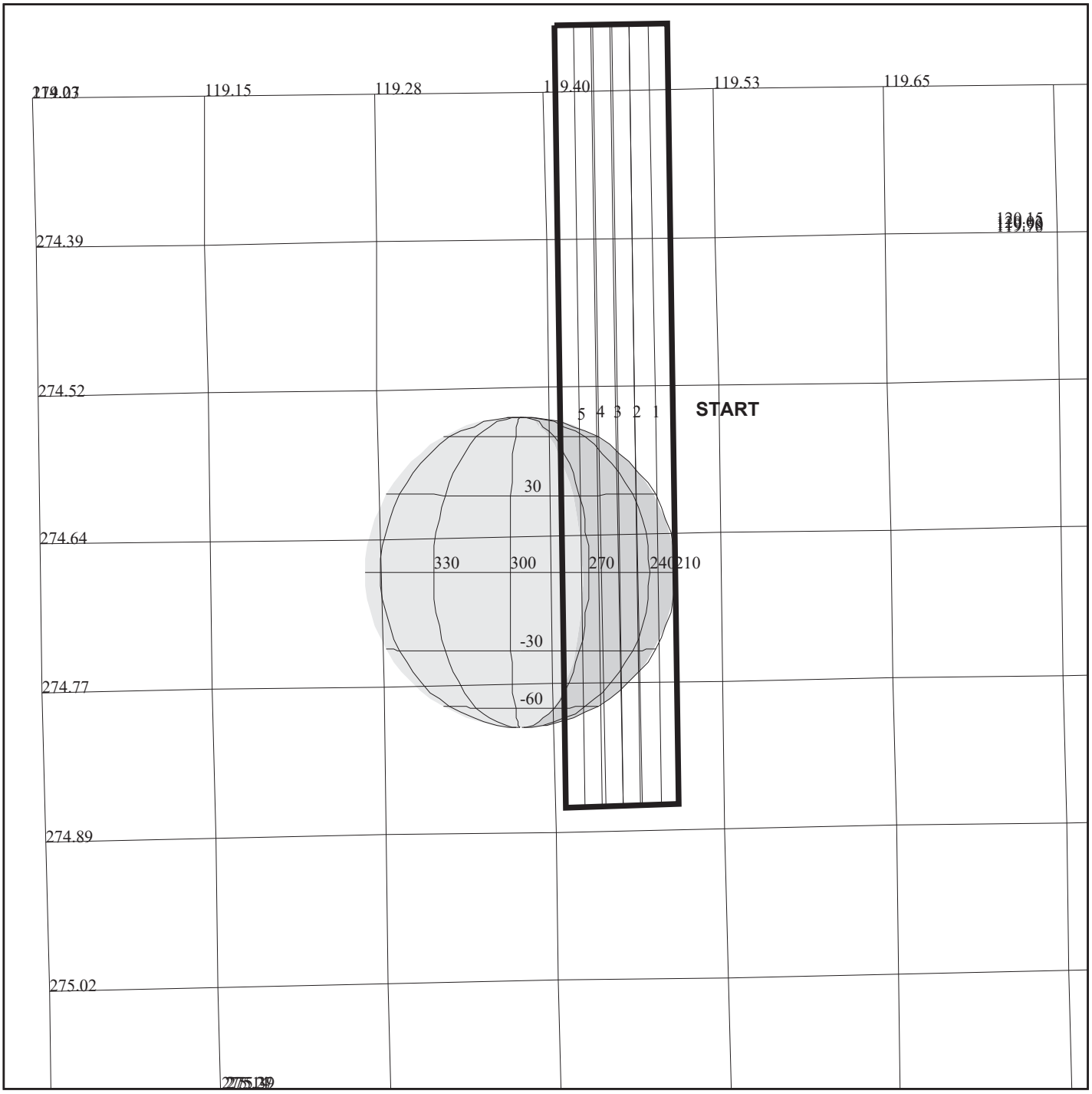
Data Returned

Design Detail

Short map, Nyquist-sampled observation of 1*1 (10*10 mrad) area centered on White Oval DE feature near 91.5 degrees West longitude, 33 degrees South latitude. S/C distance about 0.75 million KM, NIMS IFOV (NIMSEL) = 375 KM; 1*1 mosaic covers 7500*7500 KM. About 100 seconds of scanning, accumulating 0.02554 mbtg in 4 colors, and using 0.00336 tracks. 4 rims reserved for targetting.

Short Map (SM), Gain 2, Grating Start 1, LPU, JFT68A, JFT04A

Galileo Activity Plan Form 01/21/97 14:44:51 rev 6/95



165EK:TT= 0 TMC= 1 C= 1.80 XC= -2.00 BS= 0/2684 TC= 3
A= 728 pD= 0 SR=17.450 RA50= 7.27 DEC50= 4.01 cone=119.49 clock=274.54
117EK:#SB= 1 OR= 0.040 RR=12.000 BM=F RC= 1 BS= 0/2684
1:#s= 1 Cs= -3.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 228 rD= 2

E6INVOLCAN01

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6INVOLCAN01

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS: **THINNING:NIM 2**

START:IEE 97-051/12:03:03.333 +CDS 1203:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.300**

OBSERVATION:E6INVOLCAN01 **DESCRIP:MONITORING OF SELECTED VOLCANIC**

Monitoring of Selected Volcanic Regions ACTIVITY ID: E6INVOLCAN01-
START TIME: 97-052/08:14:21.999

Activity ID: Orbit E6 Target I Inst N OAPEL VOLCAN SeqNo 01 -

Title	Monitoring of Selected Volcanic Regions	Instrument	NIMS
Requestor	NIMS-SWG/R. LOPES	Team	NIMS Working Group SWG

Time System	CDS	Load ID	Calendar Date	02/21/97	Week 8
Start	IEE+CDS	00001198:00:0	97-052/08:14:21.999	IEE+000/20:11:18.666	
End	IEE+CDS	00001204:50:0	97-052/08:20:59.333	IEE+000/20:17:56.000	
Duration		00000006:50:0	000/00:06:37.334	000/00:06:37.334	

Top Label	E6INVOLCAN01-				
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 monitor time variations in activity of selected regions
(Loki, Pelee, Kanehekili) using selected wavelengths.

Data Returned

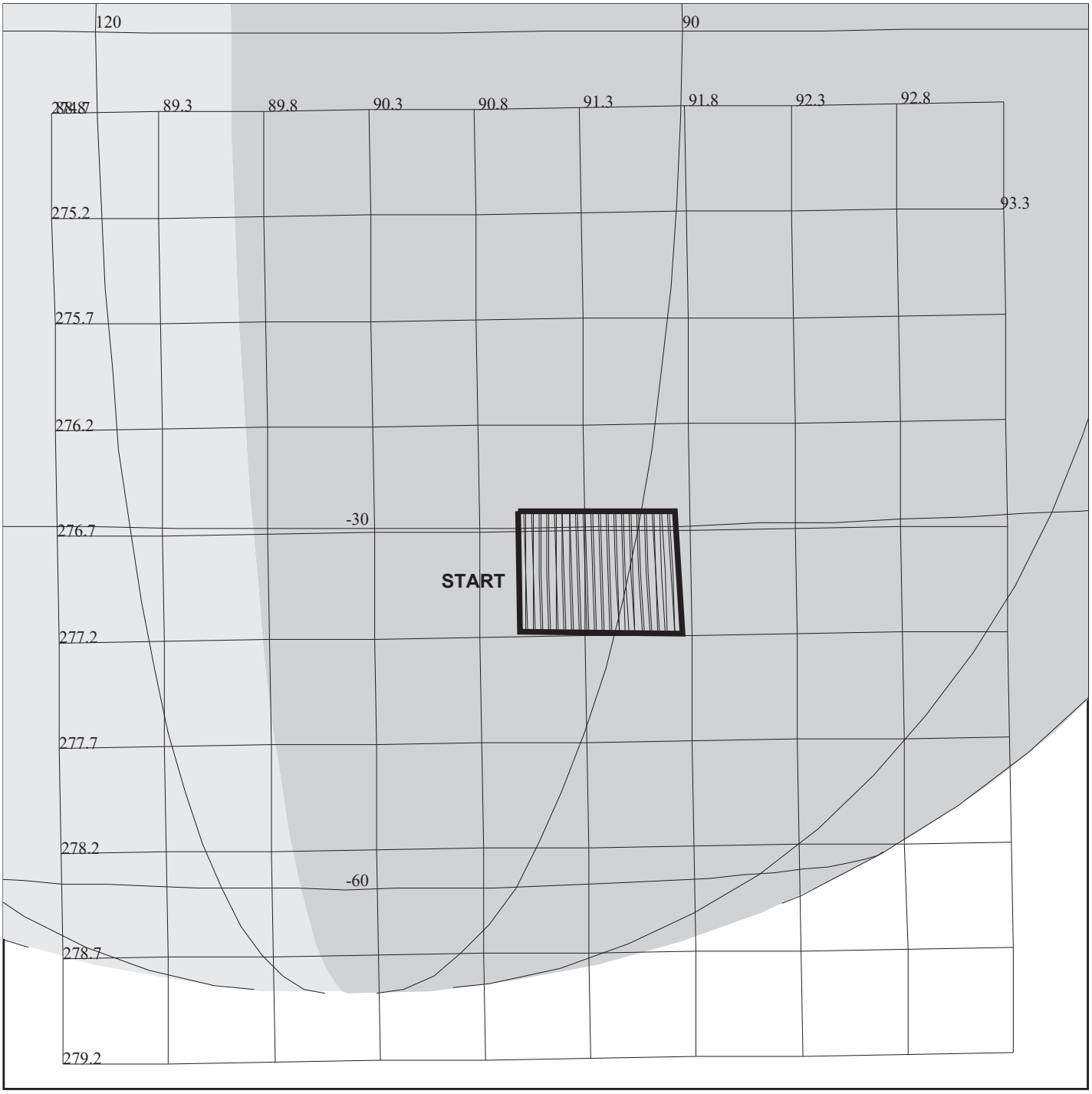
Design Detail

Long Map, 8 wavelengths, 30 secs duration (or less).
Orbit 7 is high priority for Loki region,
will be seen at the best nightside resolution (278 km).
~ 5 observations per orbit.
Tracks: 0.005 per observation.

Locations of features: Kanehekili (-10 d. lat. +40 d. long.)
Pelee (-20 d. lat. -255 d. long.)
Loki (+12 d. lat. 310 d. long.)

Long Map (LM), Gain 4, Grating Start 0, LPU, ILMDK245, ILMDK67

Galileo Activity Plan Form 01/21/97 14:44:51 rev 6/95



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A= 728 pD= 0 SR=17.450 RA50= 34.80 DEC50= 12.63 cone= 91.04 clock=276.93
117EL:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/7052
1:#s= 2 Cs= 10.80 XCs= 0.00 Cr= -11.40 XCr= 0.00 sD= 1092 rD= 364

E6JNFEA53M01

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6JNFEA53M01

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-051/20:52:52.600 +CDS 703:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 2.000**

OBSERVATION:E6JNFEA53M01 **DESCRIP:JUP_FEAT_TRK_5_MICRON_MAP_1**

Jupiter Campaign Feature 5 and 3 um Map ACTIVITY ID: E6JNFEA53M01-
START TIME: 97-052/08:38:37.933

Activity ID: Orbit E6 Target J Inst N OAPEL FEA53M SeqNo 01 -

Title	Jupiter Campaign Feature 5 and 3 um Map	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS Working Group AWG

Time System	CDS	Load ID	Calendar Date	02/21/97	Week 8
Start	JEE+CDS	00000698:00:0	97-052/08:38:37.933	JEE+000/11:45:45.333	
End	JEE+CDS	00000719:00:0	97-052/08:59:51.933	JEE+000/12:06:59.333	
Duration		00000021:00:0	000/00:21:14.000	000/00:21:14.000	

Top Label E6JNFEA53M01-
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

High spectral resolution 5-micron and 3-micron night-time maps of trace species within the White Oval DE campaign feature. The first scan is a 5-micron map, of complete spectral and spatial sampling over the 4.28 to 5.22 micron interval. The campaign feature, centered at 91.5 degrees west longitude (System III), 33 degrees south latitude, is observed near the central meridian during the phase angle ~ 95 degrees rotation. The feature is scanned in the 80 wavelengths specified by NIMS wavelength table J5M80B.

NOTE: BOTH 3 AND 5 MICRON SPECTRA ARE NOW OBTAINED IN THE FIRST SCAN USING NIMS WAVELENGTH TABLE J35160. SECOND SCAN NOT PLAYED BACK. THIS DECISION MADE AS OF 12/11/96.

Data Returned

Design Detail

Two long map, Nyquist-sampled observations of 1*1 (10*10 mrad) area centered on the campaign feature. S/C distance about 0.76 million KM, map covers 7600*7600 KM. Each scan encompasses about 6 minutes of scanning, accumulating 0.36255 MBTG and using 0.01209 tracks. 4 minutes reserved for targetting. 2 minutes reserved for reposition slew. Total Oapel resources used: 0.72510 MBTG and 0.02418 tracks. Wavelength table changed from J5M80B to J3M80B during the reposition slew between scans. SCIREC #1 stops at end of first scan. SCIREC #2 starts at beginning of subsequent scan.

NOTE: 12/11/96. WAVELENGTH TABLE J35160 NOW USED, RECORDING BOTH 3 AND 5 MICRON DATA. 364 SECONDS OF DATA PLAYBACK, COMPRISING 1.08 MBTG USING COMPRESSION FACTOR OF 1.30.

Long Map (LM), Gain 4, Grating Start 0, LPU, J35160, J35160

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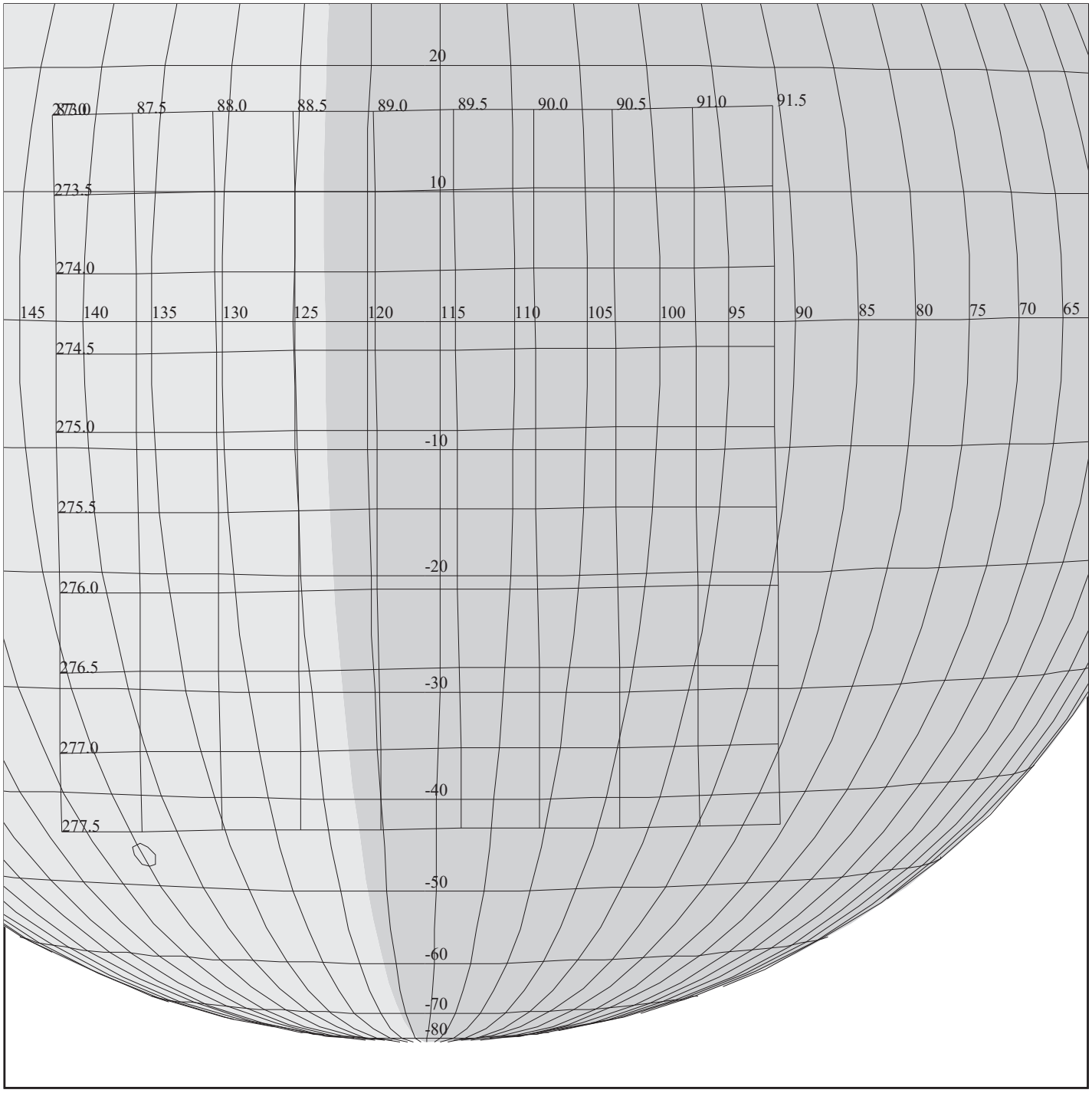

165GG:TT= 0 TMC= 1 C= 22.50 XC= -19.00 BS= 0/9964 TC= 1(-35 125)
A= 182 pD= 0 SR=17.450 RA50= 35.61 DEC50= 13.95 cone= 89.85 clock=275.94
117GG:#SB= 1 OR= 0.630 RR=12.000 BM=F RC= 1 BS= 0/9964
1:#s= 31 Cs= -44.50 XCs= 0.00 Cr= 44.00 XCr= 1.00 sD= 220 rD= 24

E6NNHEALTH05

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6JPFT2EM101

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS: **THINNING: :PPR 1**

START:JEE 97-051/20:52:52.600 +CDS 719:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 1.500**

OBSERVATION:E6JPFT2EM101 **DESCRIP:LOW_VIEW_WHITE_OVAL_WEST**

E6 Health 5

ACTIVITY ID: E6NNHEALTH05-
START TIME: 97-052/09:36:15.999

Activity ID: Orbit E6 Target N Inst N OAPEL HEALTH SeqNo 05 -

Title	E6 Health 5		Instrument NIMS
Requestor	NIMS-AWG/K. BAINES	Team NIMS	Working Group AWG

Time System	CDS	Load ID	Calendar Date 02/21/97	Week 8
Start	IEE+CDS	00001279:00:0	97-052/09:36:15.999	IEE+000/21:33:12.666
End	IEE+CDS	00001284:88:0	97-052/09:42:17.999	IEE+000/21:39:14.666
Duration		00000005:88:0	000/00:06:02.000	000/00:06:02.000

Top Label	E6NNHEALTH05-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	0	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

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

Data Returned

Design Detail

No scan platform commanding. Scan platform is at the end of the slew of the previous observation: E6JPFT2EM101

Long Map (LM), Gain 2, Grating Start 0, R/T, RT003

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NIMS Software Load

ACTIVITY ID: E6NIMSP2LD05-
START TIME: 97-052/09:42:19.999

Activity ID: Orbit E6 Target N Inst I OAPEL MSP2LD SeqNo 05 -

Title	NIMS Software Load			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID	Calendar Date	02/21/97	Week 8
Start	IEE+CDS	00001285:00:0	97-052/09:42:19.999	IEE+000/21:39:16.666	
End	IEE+CDS	00001295:00:0	97-052/09:52:26.666	IEE+000/21:49:23.333	
Duration		00000010:00:0	000/00:10:06.667	000/00:10:06.667	

Top Label E6NIMSP2LD05-
Bottom Label

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

Observation Objective

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

Memory load from CDS to NIMS and restart.
Diagnostic checksum, processor halt, memory reload from CDS,
instrument restart, and operational mode set.

Design Detail

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

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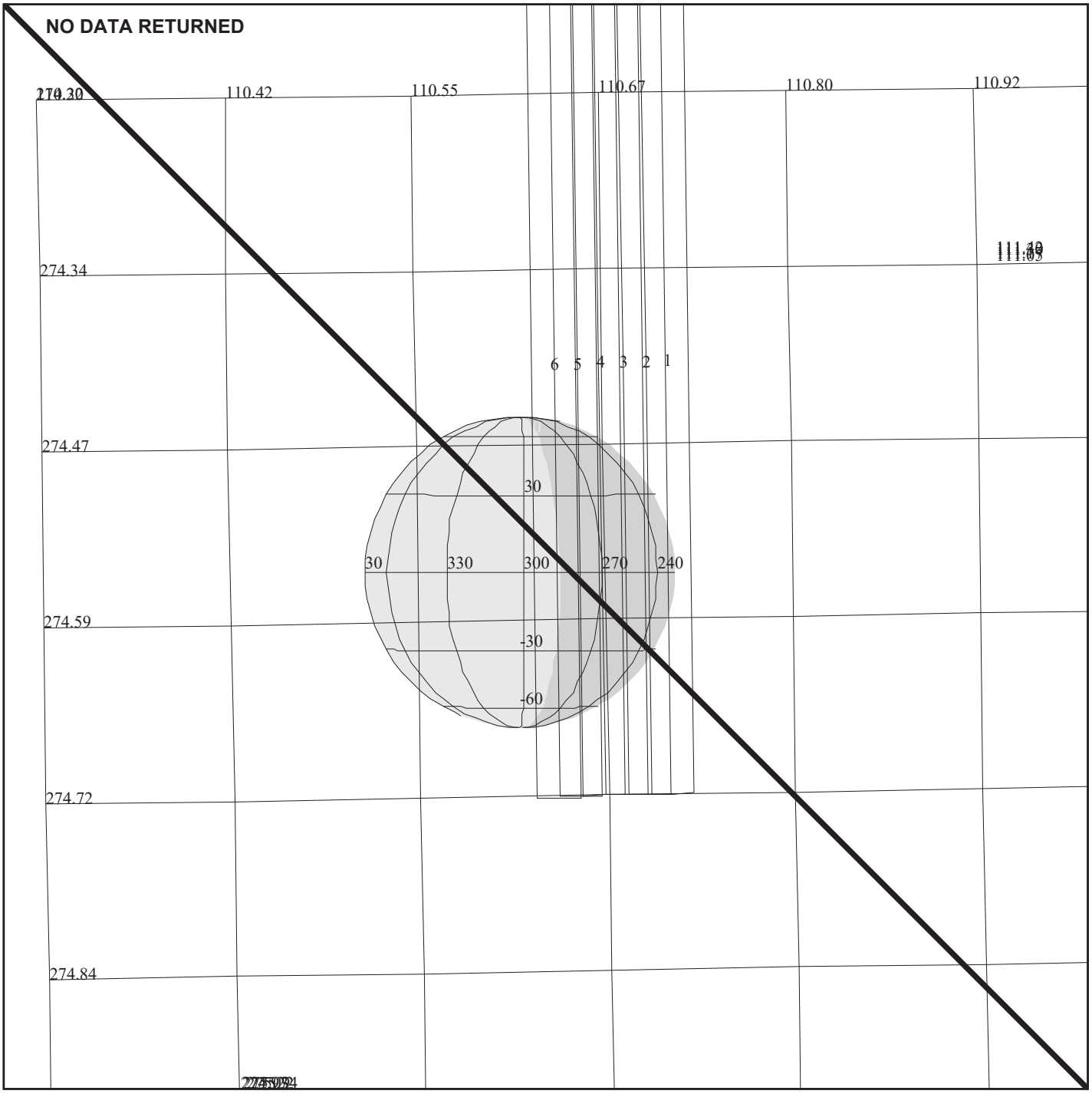

165EM:TT= 0 TMC= 1 C= 1.80 XC= -2.40 BS= 0/0702 TC= 3
A= 546 pD= 0 SR=17.450 RA50= 15.28 DEC50= 7.68 cone=110.72 clock=274.41
117EM:#SB= 1 OR= 0.040 RR=12.000 BM=F RC= 1 BS= 0/0702
1:#s= 1 Cs= -3.80 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 290 rD= 2

E6INVOLCAN02

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6INVOLCAN02

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS: **THINNING:NIM 2**

START:IEE 97-051/12:03:03.333 +CDS 1302:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.300**

OBSERVATION:E6INVOLCAN02 **DESCRIP:MONITORING OF SELECTED VOLCANIC**

Monitoring of Selected Volcanic Regions ACTIVITY ID: E6INVOLCAN02-
START TIME: 97-052/09:53:27.333

Activity ID: Orbit E6 Target I Inst N OAPEL VOLCAN SeqNo 02 -

Title	Monitoring of Selected Volcanic Regions	Instrument	NIMS
Requestor	NIMS-SWG/R. LOPES	Team	NIMS Working Group SWG

Time System	CDS	Load ID	Calendar Date 02/21/97 Week 8
Start	IEE+CDS 00001296:00:0	97-052/09:53:27.333	IEE+000/21:50:24.000
End	IEE+CDS 00001303:70:0	97-052/10:01:18.666	IEE+000/21:58:15.333
Duration	00000007:70:0	000/00:07:51.333	000/00:07:51.333

Top Label E6INVOLCAN02-
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 monitor time variations in activity of selected regions
(Loki, Pelee, Kanehekili) using selected wavelengths.

No Data Returned

Design Detail

Long Map, 8 wavelengths, 30 secs duration (or less).
Orbit 7 is high priority for Loki region,
will be seen at the best nightside resolution (278 km).
~ 5 observations per orbit.
Tracks: 0.005 per observation.

Locations of features:
- Kanehekili (-10 d. lat. +40 d. long.)
- Pelee (-20 d. lat. -255 d. long.)
- Loki (+12 d. lat. 310 d. long.)

Long Map (LM), Gain 4, Grating Start 0, LPU, ILMDK245, ILMDK10B

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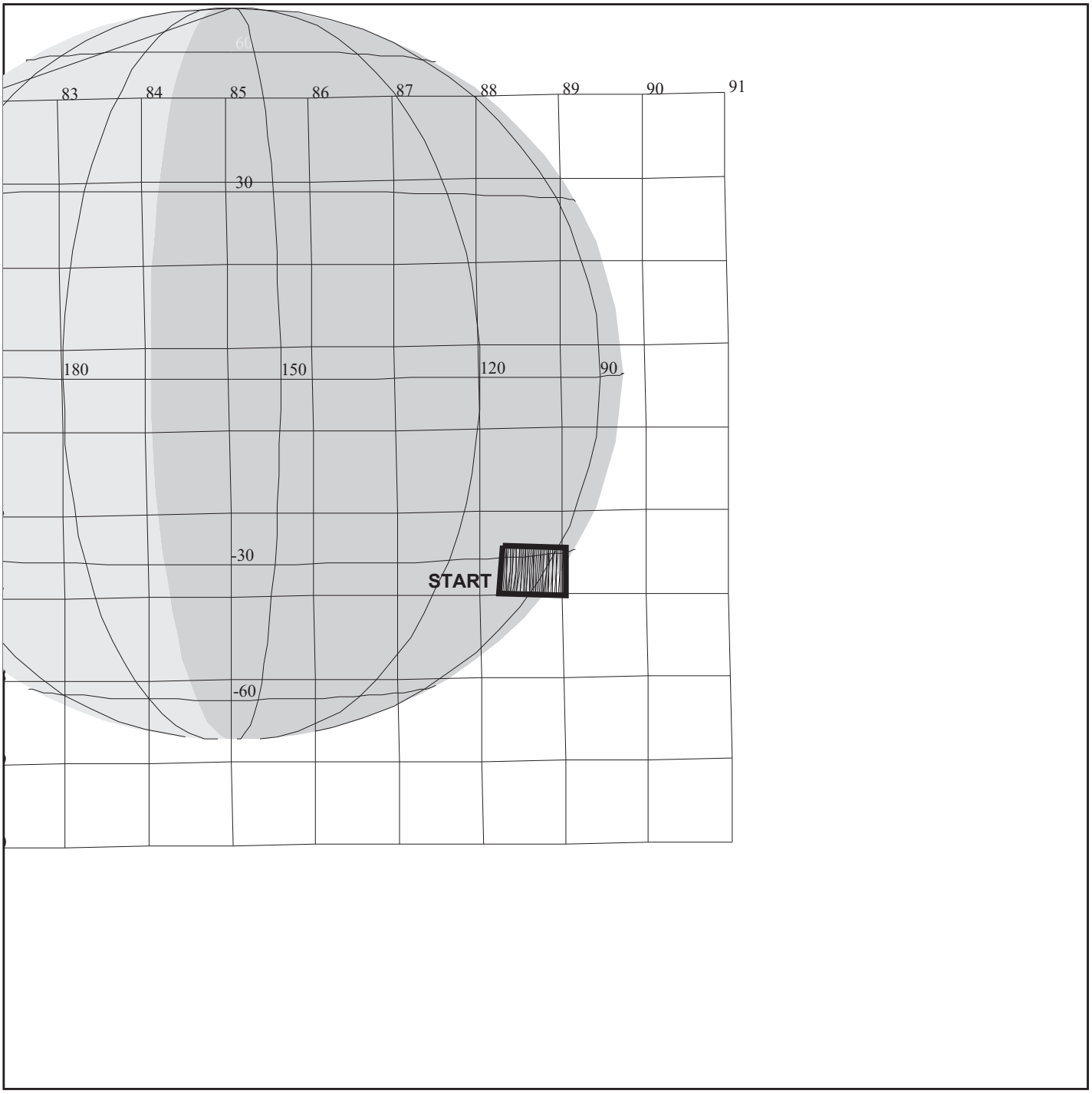

165EN:TT= 0 TMC= 1 C= -9.80 XC= 0.00 BS= 0/1976 TC= 1(-33 91.5)
A= 728 pD= 0 SR=17.450 RA50= 37.20 DEC50= 13.66 cone= 88.48 clock=276.73
117EN:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/1976
1:#s= 1 Cs= 10.80 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 1092 rD= 2

E6JNFEA5UM01

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6JNFEA5UM01

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-051/20:52:52.600 +CDS 785:00:0 **BODY PLOT TIME:97-052/10:13:41 D= 0 S= 0.750**

OBSERVATION:E6JNFEA5UM01 **DESCRIP:JUP_FEAT_TRK_5_MICRON_MAP_2**

Jupiter Feature Track 5 Micron Map 2 ACTIVITY ID: E6JNFEA5UM01-
START TIME: 97-052/10:01:32.600

Activity ID: Orbit E6 Target J Inst N OAPEL FEA5UM SeqNo 01 -

Title	Jupiter Feature Track 5 Micron Map 2	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team NIMS	Working Group AWG

Time System	CDS	Load ID	Calendar Date	02/21/97	Week 8
Start	JEE+CDS	00000780:00:0	97-052/10:01:32.600	JEE+000/13:08:40.000	
End	JEE+CDS	00000791:30:0	97-052/10:12:59.933	JEE+000/13:20:07.333	
Duration		00000011:30:0	000/00:11:27.333	000/00:11:27.333	

Top Label E6JNFEA5UM01-
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

High spectral resolution 5-micron night-time map of trace species within the White Oval DE campaign feature. This is the second 5-um map obtained during the 95 degree phase angle rotation, the other having been obtained during OAPEL E6JNFEA53M01-. The campaign feature, centered at 91.5 degrees west longitude (System III), 33 degrees south latitude (planetographic), observ near 60 degrees emission angle during the phase angle ~ 95 degrees rotation. The feature is scanned in the 80 wavelengths specified by NIMS wavelength table J5M80B: 4.28 - 5.22 microns.

Data Returned

Design Detail

Long map, Nyquist-sampled observation of 1*1 (10*10 mrad) area centered on the campaign feature. S/C distance 0.84 million KM, map covers 8400*8400 KM. About 6 minutes of scanning, accumulating 0.36255 MBTG and using 0.01209 tracks. 4 minutes reserved for targetting.

NOTE: 1/13/97: AREA REDUCED BY HALF TO ACCOMODATE REDUCED BTG BUDGET.
NOW IS A 1/2X 1
AREA OBSERVED IN 182 SECONDS OF SCANNING.
TOTAL MBTG IS NOW 2.27 MBTG,
ASSUMING A MORE REALISTIC 1.30 COMPRESSION FACTOR.

Long Map (LM), Gain 4, Grating Start 0, LPU, J5M235B, J5M80B

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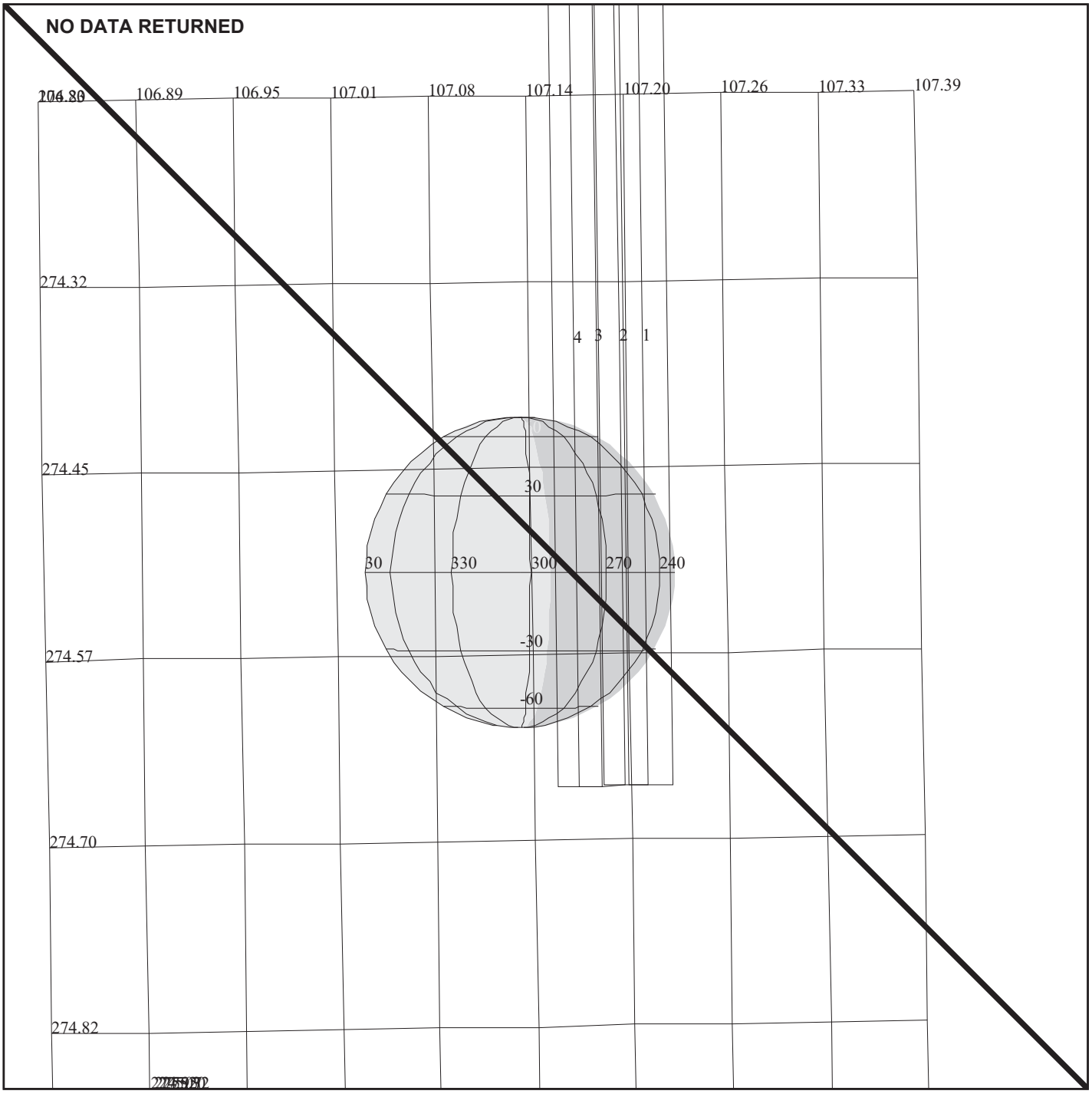

165EO:TT= 0 TMC= 1 C= 1.50 XC= -2.60 BS= 0/8164 TC= 3
A= 546 pD= 0 SR=17.450 RA50= 18.51 DEC50= 9.11 cone=107.22 clock=274.36
117EO:#SB= 1 OR= 0.040 RR=12.000 BM=F RC= 1 BS= 0/8164
1:#s= 1 Cs= -2.22 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 170 rD= 2

E6INVOLCAN03

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6INVOLCAN03

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS: **THINNING:NIM 2**

START:IEE 97-051/12:03:03.333 +CDS 1343:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.300**

OBSERVATION:E6INVOLCAN03 **DESCRIP:MONITORING OF SELECTED VOLCANIC**

Monitoring of Selected Volcanic Regions ACTIVITY ID: E6INVOLCAN03-
START TIME: 97-052/10:36:55.999

Activity ID: Orbit E6 Target I Inst N OAPEL VOLCAN SeqNo 03 -

Title	Monitoring of Selected Volcanic Regions	Instrument	NIMS
Requestor	NIMS-SWG/R. LOPES	Team	NIMS Working Group SWG

Time System	CDS	Load ID	Calendar Date	02/21/97	Week 8
Start	IEE+CDS	00001339:00:0	97-052/10:36:55.999	IEE+000/22:33:52.666	
End	IEE+CDS	00001344:12:0	97-052/10:42:07.333	IEE+000/22:39:04.000	
Duration		00000005:12:0	000/00:05:11.334	000/00:05:11.334	

Top Label	E6INVOLCAN03-				
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 monitor time variations in activity of selected regions
(Loki, Pelee, Kanehekili) using selected wavelengths.

No Data Returned

Design Detail

Long Map, 8 wavelengths, 30 secs duration (or less).
Orbit 7 is high priority for Loki region,
will be seen at the best nightside resolution (278 km).
~ 5 observations per orbit.
Tracks: 0.005 per observation.

Locations of features:
- Kanehekili (-10 d. lat. +40 d. long.)
- Pelee (-20 d. lat. -255 d. long.)
- Loki (+12 d. lat. 310 d. long.)

Long Map (LM), Gain 4, Grating Start 0, LPU, ILMDK245, ILMDK10B

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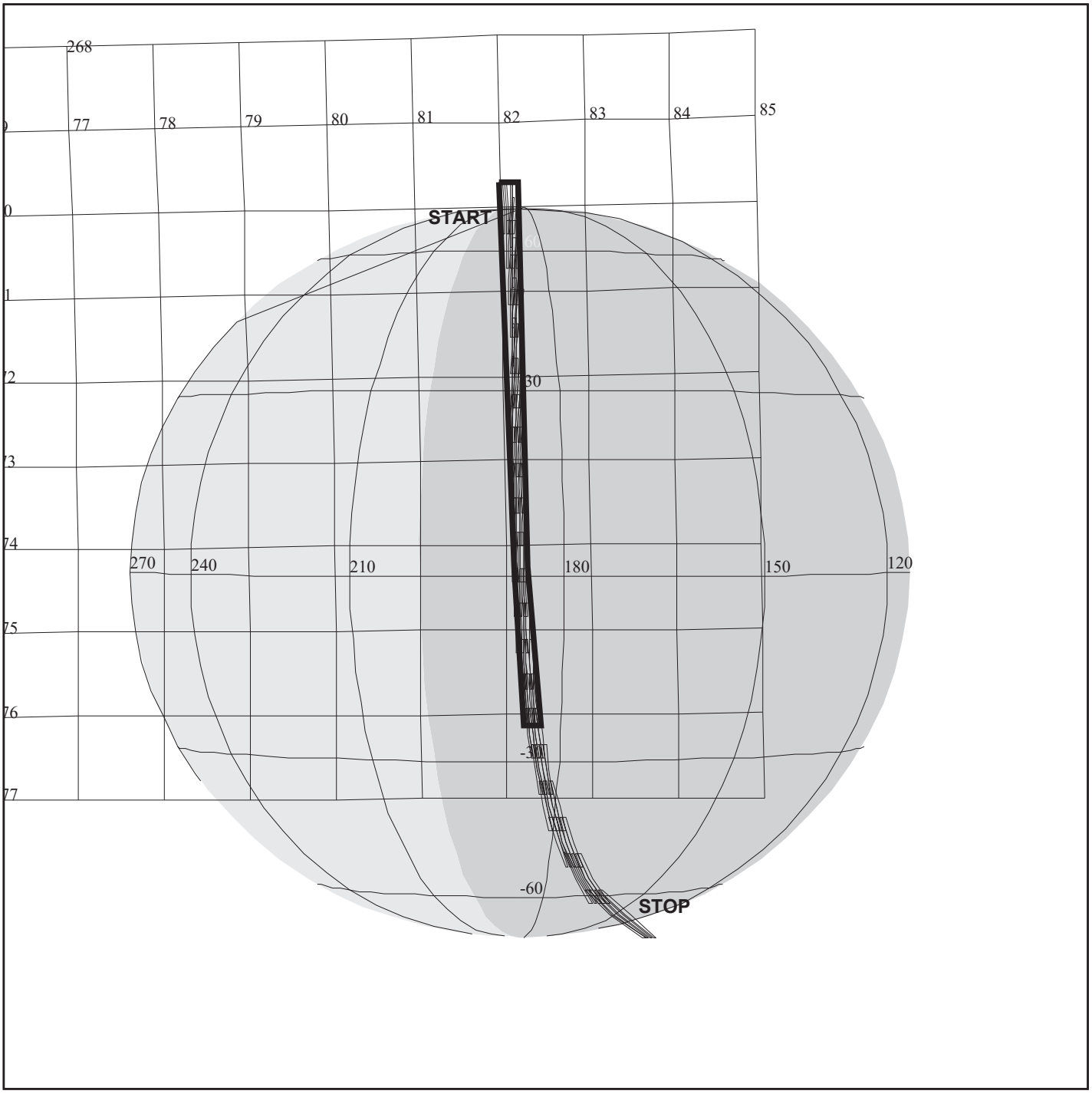


165EP:TT= 0 TMC= 1 C= -4.00 XC= 0.00 BS= 0/2896 TC= 1(80 185)
A= 728 pD= 0 SR=17.450 RA50= 41.48 DEC50= 22.01 cone= 82.02 clock=270.04
117EP:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/2896
1:#s= 21 Cs= 2.00 XCs= 0.00 Cr= -2.00 XCr= 7.10 sD= 208 rD= 50

E6JNTHRMNS01

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6JNTHRMNS01

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-051/20:52:52.600 +CDS 845:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750**

OBSERVATION:E6JNTHRMNS01 **DESCRIP:JUP_THERMAL_NORTH_SOUTH_STRIPES**

Jupiter Thermal North South Stripe ACTIVITY ID: E6JNTHRMNS01-
START TIME: 97-052/11:02:12.600

Activity ID: Orbit E6 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	02/21/97	Week 8
Start	JEE+CDS	00000840:00:0	97-052/11:02:12.600	JEE+000/14:09:20.000	
End	JEE+CDS	00000876:00:0	97-052/11:38:36.600	JEE+000/14:45:44.000	
Duration		00000036:00:0	000/00:36:24.000	000/00:36:24.000	

Top Label E6JNTHRMNS01-
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

Jupiter North/South, pole to pole night-time stripe for pole to pole assessment of lower-troposphere properties such as phosphine abundance variation and 5-um variability of ammonia cloud opacity. Night time observation of central meridian at 95 degree phase angle opportunity near 12 Rj, using NIMS wavelength table J5M80A spanning 4.279 - 5.220 microns.

NOTE: 1/13/97 - REDUCED BTG BUDGET LIMITS PLAYBACK TO 3/4 OF THE ORIGINAL LATITUDE COVERAGE. NORTH POLE TO APPROXIMATELY 30 DEGREES SOUTH LATITUDE NOW RETURNED.

Data Returned

Design Detail

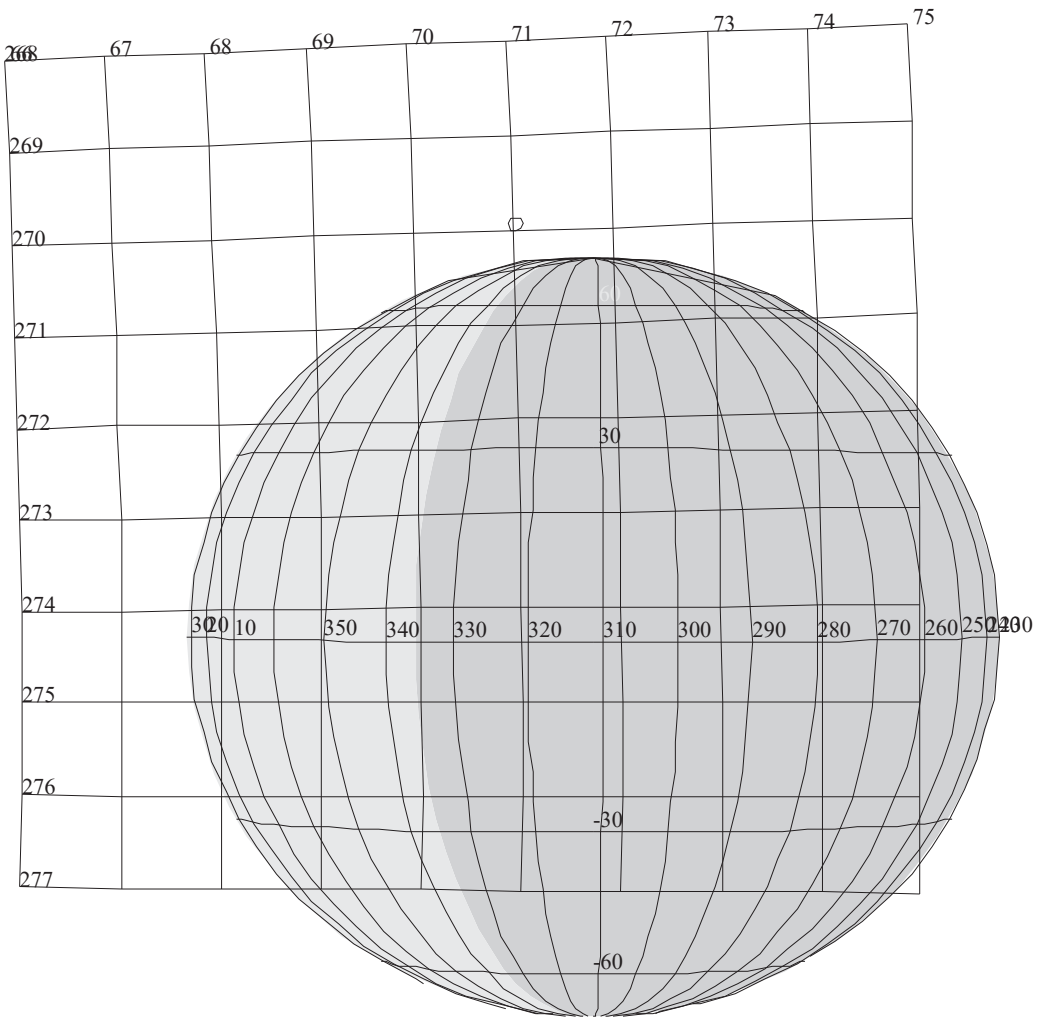
Long map, Nyquist sampled observation of central meridian from pole to pole. About 21 tiers, each tier acquiring 8 spectra, spanning 2.0 mradians in the east-west direction covering 1.5 degrees of Jovian longitude. Each tier lasts 86.7 seconds including 17.333 sec for repositiong to the next tier. Total observations time is 20*86.6667+8*8.6667 = 1802.667 sec = 00:30:02.667 resulting in recording 0.06056 tracks to return 1.815 Mbtg.
4 rims reserved for targetting.

NOTE: 1/13/97 - ABOUT 1340 SECONDS OF THE DATA RETURNED RESULTING IN 1.98 MBTG, ASSUMING A MORE REALISTIC COMPRESSION FACTOR OF 1.30.

Northern 15 of 21 Swaths returned.

Long Map (LM), Gain 4, Grating Start 0, LPU, J5253A, J5M80A

Galileo Activity Plan Form 01/21/97 14:44:52 rev 6/95



165GY:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/3300 TC= 2(70.05 278.48)
A= 728 pD= 0 SR=17.450 RA50= 56.05 DEC50= 17.31 cone= 70.05 clock=278.48
117GY:#SB= 3 OR= 0.090 RR=12.000 BM=F RC= 1 BS= 0/3300
1:#s= 1 Cs= -22.00 XCs= -50.00 Cr= 0.00 XCr= 0.00 sD= 1638 rD= 2
2:#s= 1 Cs= 2.00 XCs= -45.00 Cr= 0.00 XCr= -0.50 sD= 1456 rD= 32
3:#s= 1 Cs= 15.50 XCs= -43.00 Cr= 0.00 XCr= -0.50 sD= 1384 rD= 32

E6NNHEALTH06

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6JPNSSTRP03

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS:

THINNING: :PPR 1

START:JEE 97-051/20:52:52.600 +CDS 1067:00:0

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

OBSERVATION:E6JPNSSTRP03

DESCRIP:Jupiter North-South strip/114phs

E6 Health 6

ACTIVITY ID: E6NNHEALTH06-
START TIME: 97-052/15:59:28.600

Activity ID: Orbit E6 Target N Inst N OAPEL HEALTH SeqNo 06 -

Title	E6 Health 6			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID	Calendar Date	02/21/97	Week 8
Start	GEE-CDS	00000026:00:0	97-052/15:59:28.600	GEE-000/00:26:17.333	
End	GEE-CDS	00000021:00:0	97-052/16:04:31.933	GEE-000/00:21:14.000	
Duration		00000005:00:0	000/00:05:03.333	000/00:05:03.333	

Top Label	E6NNHEALTH06-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	0	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

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

Data Returned

Design Detail

No scan platform commanding. Scan platform is at the end of the slew of the previous observation: E6JPNSSTRP03

Long Map (LM), Gain 2, Grating Start 0, R/T, RT003

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NIMS Software Load

ACTIVITY ID: E6NIMSP2LD06-
START TIME: 97-052/16:05:32.600

Activity ID: Orbit E6 Target N Inst I OAPEL MSP2LD SeqNo 06 -

Title	NIMS Software Load			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID	Calendar Date	02/21/97	Week 8
Start	GEE-CDS	00000020:00:0	97-052/16:05:32.600	GEE-000/00:20:13.333	
End	GEE-CDS	00000011:00:0	97-052/16:14:38.600	GEE-000/00:11:07.333	
Duration		00000009:00:0	000/00:09:06.000	000/00:09:06.000	

Top Label	E6NIMSP2LD06-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	100	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

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

Memory load from CDS to NIMS and restart.
Diagnostic checksum, processor halt, memory reload from CDS,
instrument restart, and operational mode set.

Design Detail

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

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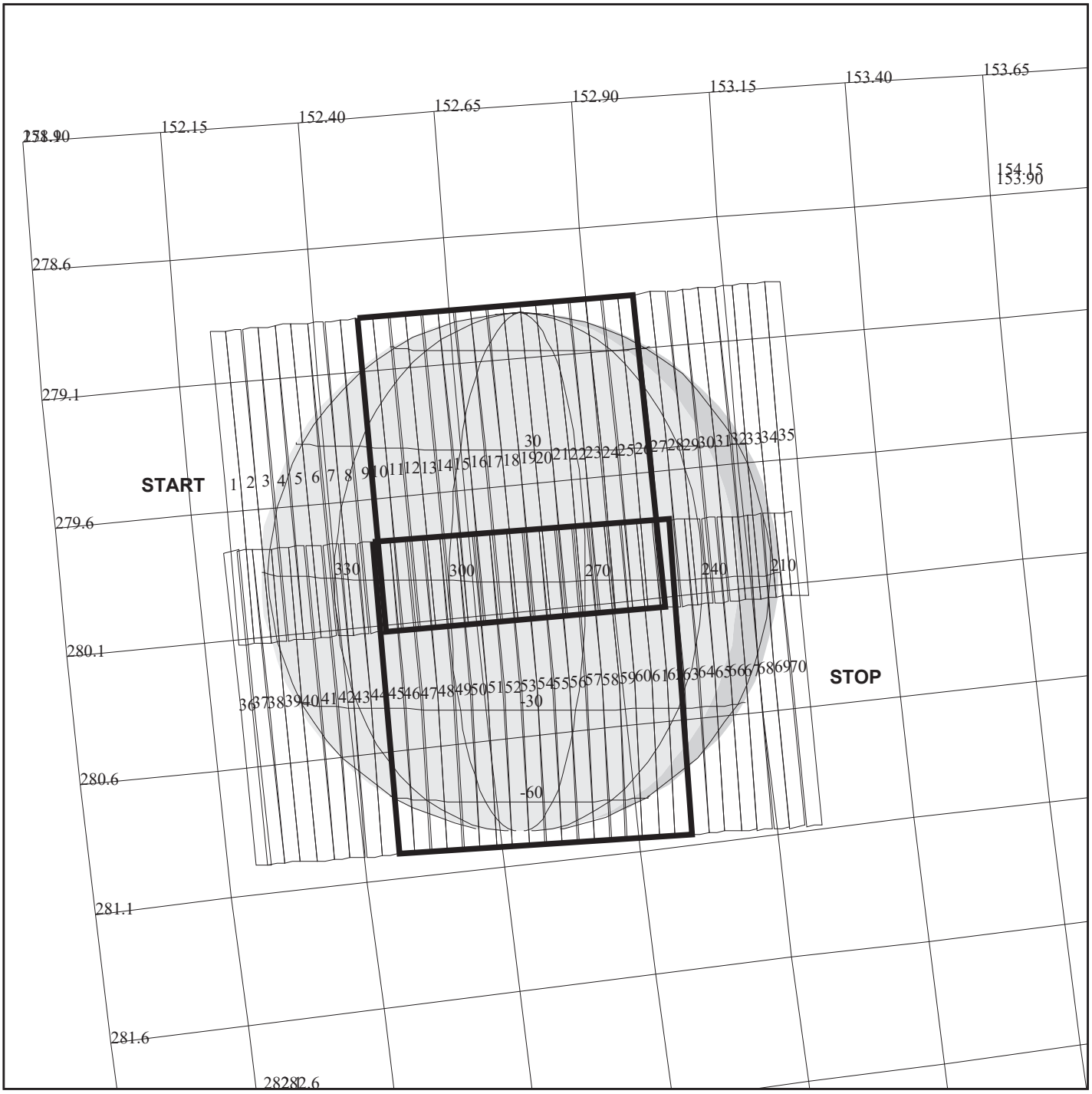

165FZ:TT= 0 TMC= 1 C= -9.00 XC= -3.50 BS= 0/9134 TC= 3
A= 728 pD= 3656 SR=17.450 RA50=338.11 DEC50=-11.51 cone=152.22 clock=279.47
117FZ:#SB= 1 OR= 0.030 RR=17.000 BM=F RC= 1 BS= 0/9134
1:#s= 2 Cs= 18.00 XCs= 0.00 Cr= -18.00 XCr= 7.00 sD= 1806 rD= 38

E6GNGLOBAL01

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6GNGLOBAL01

TARGET BODY : GANYMEDE

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS:

THINNING:NIM 2

START:GEE 97-052/16:25:45.933 -CDS 06:00:0

BODY PLOT TIME:TARGET-TIME D= 3656 S= 0.500

OBSERVATION:E6GNGLOBAL01

DESCRIP:GANYMEDE GLOBAL MAP

NIMS Ganymede Global Map

ACTIVITY ID: E6GNGLOBAL01-
START TIME: 97-052/16:15:32.600

Activity ID: Orbit E6 Target G Inst N OAPEL GLOBAL SeqNo 01 -

Title	NIMS Ganymede Global Map	Instrument	NIMS
Requestor	NIMS-SWG/J. Hui	Team NIMS	Working Group SWG

Time System CDS Load ID Calendar Date 02/21/97 Week 8

Start	GEE-CDS	00000010:10:0 97-052/16:15:32.600	GEE-000/00:10:13.333
End	GEE+CDS	00000017:75:0 97-052/16:43:47.266	GEE+000/00:18:01.333
Duration		00000027:85:0 000/00:28:14.666	000/00:28:14.666

Top Label E6GNGLOBAL01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	0	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

The objective is to obtain moderate spatial resolution map of the whole satellite disk. This observation will investigate the surface mineralogy and determine the global distribution of compositional units on a global context. The global map can be used to compare Ganymede's similarity to or difference from the other sattelite.

Data Returned

Design Detail

2 strips to cover lit surface
CSMOS slew at 0.03 mrad/sec

Mode = LM
Gain State = 3
Chopper Reference
Record Mode = LPU
Wavelengths returned = 204
Longitude = 210 to 360 degrees
Resolution approximately 160 KM

Central Longitudes Returned Only.

Long Map (LM), Gain 3, Grating Start 0, LPU, GLM245D, GLM192

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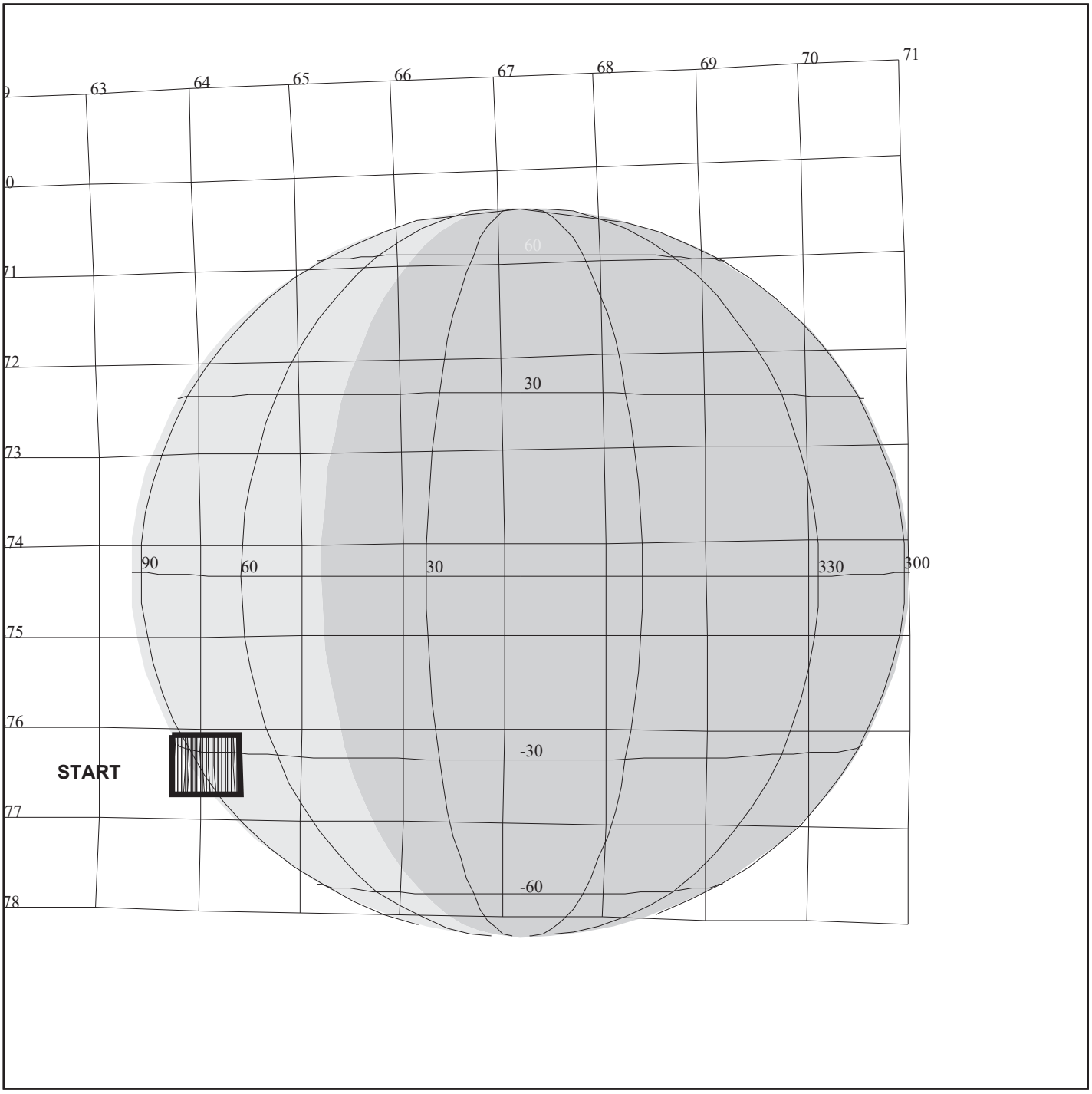

165EQ:TT= 0 TMC= 1 C= -4.00 XC= 0.00 BS= 0/4230 TC= 1(-33 91.5)
A= 728 pD= 0 SR=17.450 RA50= 62.12 DEC50= 20.58 cone= 63.72 clock=276.40
117EQ:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/4230
1:#s= 1 Cs= 10.90 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 300 rD= 2

E6JNFEA12401

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6JNFEA12401

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-051/20:52:52.600 +CDS 1182:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750**

OBSERVATION:E6JNFEA12401 **DESCRIP:JUP_FEAT_TRK_124_DEG_PHASE_01**

Jupiter Feature Track 124 deg phase pt 1 ACTIVITY ID: E6JNFEA12401-
START TIME: 97-052/16:43:51.266

Activity ID: Orbit E6 Target J Inst N OAPEL FEA124 SeqNo 01 -

Title	Jupiter Feature Track 124 deg phase pt 1	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS Working Group AWG

Time System	CDS	Load ID	Calendar Date	02/21/97	Week 8
Start	JEE+CDS	00001177:81:0	97-052/16:43:51.266	JEE+000/19:50:58.666	
End	JEE+CDS	00001184:00:0	97-052/16:50:01.933	JEE+000/19:57:09.333	
Duration		00000006:10:0	000/00:06:10.667	000/00:06:10.667	

Top Label	E6JNFEA12401-				
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

One of 23 OAPELs constituting the feature tracks for this feature campaign. This is the first observation obtained on a rotation with phase angle approximately 124 degrees. Jupiter imaged in 4 colors, using NIMS downlink wavelength table JFT04A. This observation acquired with White Oval DE feature near the bright limb, assuming feature coordinates 33 degrees south latitude (planetographic) and 91.5 degrees west longitude (System III).

Data Returned

Design Detail

Short map, Nyquist-sampled observation of 1*1 (10*10 mrad) area centered on White Oval DE feature near 91.5 degrees West longitude, 33 degrees South latitude (planetographic). S/C distance about 1.06 million KM, NIMS IFOV (NIMSEL) = 530 KM; 1*1 mosaic covers 10600*10600 KM. About 100 seconds of scanning, accumulating 0.02554 mbtg in 4 colors, and using 0.00336 tracks. 4 rims reserved for targetting.

Short Map (SM), Gain 2, Grating Start 1, LPU, JFT68A, JFT04A

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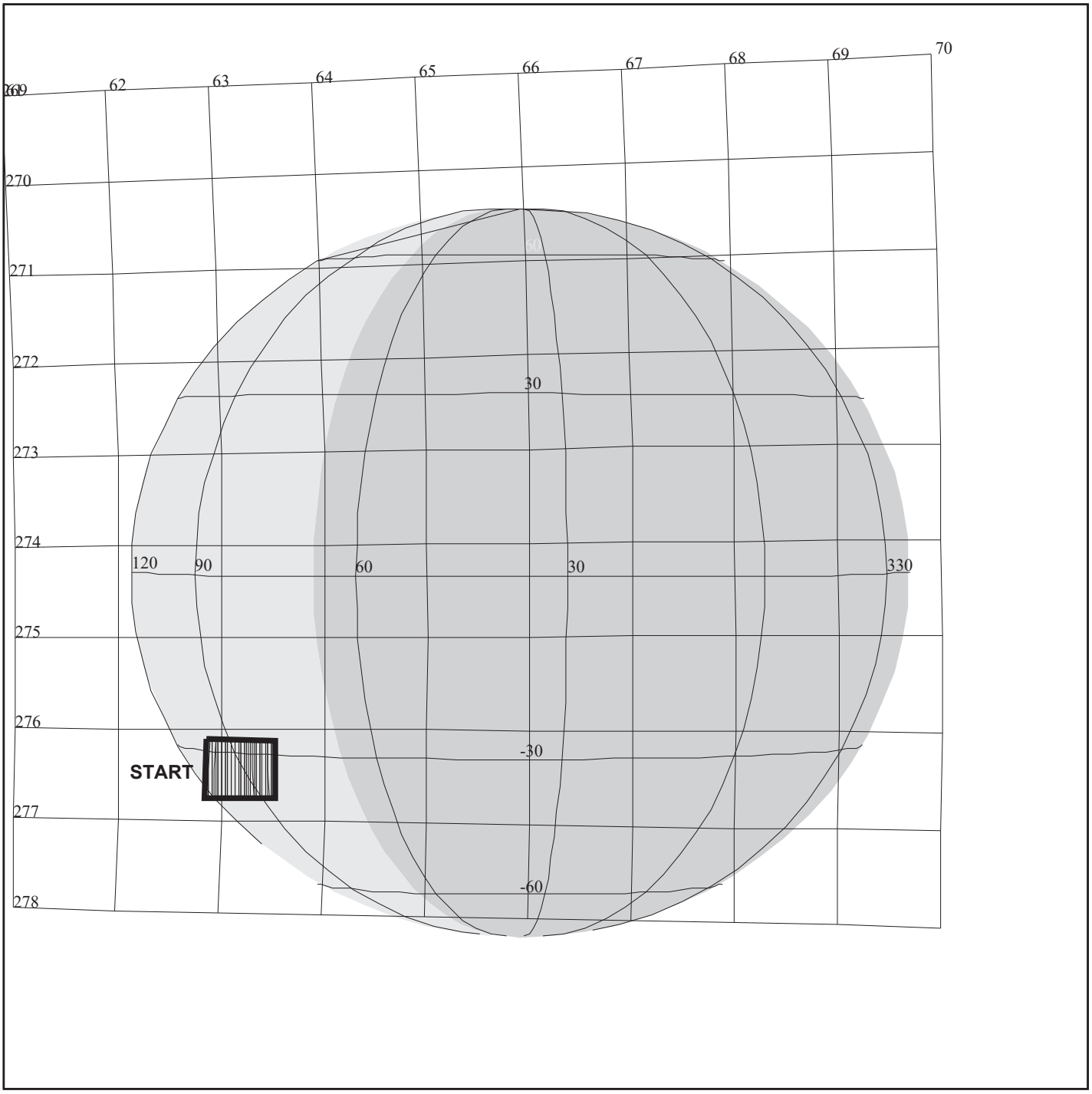

165ER:TT= 0 TMC= 1 C= -5.50 XC= 0.00 BS= 0/0418 TC= 1(-33 91.5)
A= 728 pD= 0 SR=17.450 RA50= 63.03 DEC50= 20.72 cone= 62.86 clock=276.44
117ER:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/0418
1:#s= 1 Cs= 10.90 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 300 rD= 2

E6JNFEA12402

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6JNFEA12402

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-051/20:52:52.600 +CDS 1216:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750**

OBSERVATION:E6JNFEA12402 **DESCRIP:JUP_FEAT_TRK_124_DEG_PHASE_02**

Jupiter Feature Track 124 deg phase pt 2 ACTIVITY ID: E6JNFEA12402-
START TIME: 97-052/17:17:19.933

Activity ID: Orbit E6 Target J Inst N OAPEL FEA124 SeqNo 02 -

Title	Jupiter Feature Track 124 deg phase pt 2	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS Working Group AWG

Time System	CDS	Load ID	Calendar Date	02/21/97	Week 8
Start	JEE+CDS	00001211:00:0	97-052/17:17:19.933	JEE+000/20:24:27.333	
End	JEE+CDS	00001218:00:0	97-052/17:24:24.600	JEE+000/20:31:32.000	
Duration		00000007:00:0	000/00:07:04.667	000/00:07:04.667	

Top Label	E6JNFEA12402-				
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

One of 23 OAPELs constituting the feature tracks for this feature campaign. This is the second observation obtained on a rotation with phase angle approximately 124 degrees. Jupiter imaged in 4 colors, using NIMS downlink wavelength table JFT04A. This observation acquired with White Oval DE feature about midway between bright limb and terminator, assuming feature coordinates 33 degrees south latitude (planetographic) and 91.5 degrees west longitude (System III).

Data Returned

Design Detail

Short map, Nyquist-sampled observation of 1*1 (10*10 mrad) area centered on White Oval DE feature near 91.5 degrees West longitude, 33 degrees South latitude (planetographic). S/C distance about 1.05 million KM, NIMS IFOV (NIMSEL) = 525 KM; 1*1 mosaic covers 10500*10500 KM. About 100 seconds of scanning, accumulating 0.02554 mbtg in 4 colors, and using 0.00336 tracks. 4 rims reserved for targetting.

Short Map (SM), Gain 2, Grating Start 1, LPU, JFT68A, JFT20A

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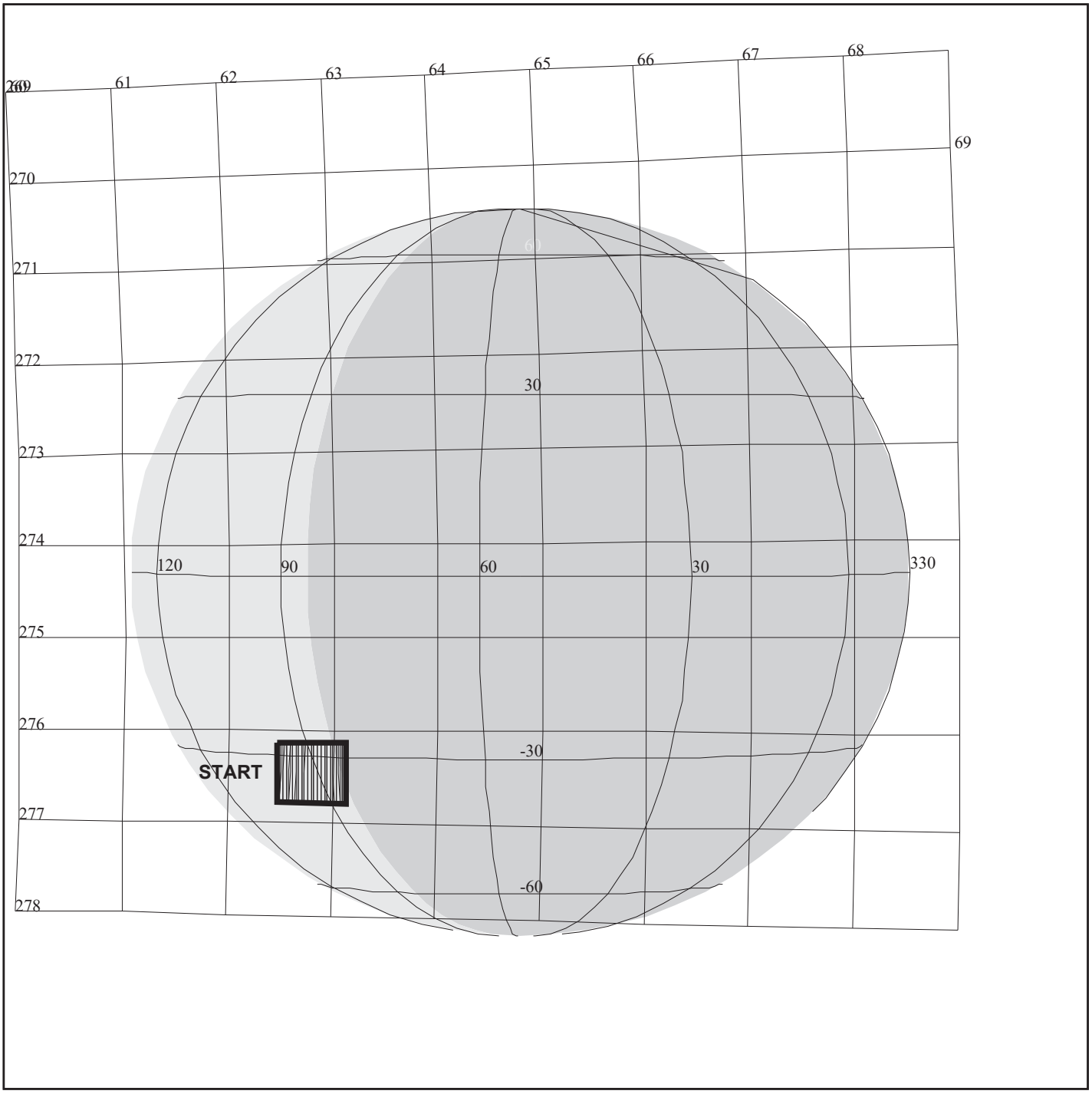

165ES:TT= 0 TMC= 1 C= -5.50 XC= 0.00 BS= 0/6060 TC= 1(-33 91.5)
A= 728 pD= 0 SR=17.450 RA50= 63.44 DEC50= 20.78 cone= 62.47 clock=276.46
117ES:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/6060
1:#s= 1 Cs= 10.90 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 300 rD= 2

E6JNFEA12403

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6JNFEA12403

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-051/20:52:52.600 +CDS 1247:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750**

OBSERVATION:E6JNFEA12403 **DESCRIP:JUP_FEAT_TRK_124_DEG_PHASE_03**

Jupiter Feature Track 124 deg phase pt 3 ACTIVITY ID: E6JNFEA12403-
START TIME: 97-052/17:48:40.600

Activity ID: Orbit E6 Target J Inst N OAPEL FEA124 SeqNo 03 -

Title	Jupiter Feature Track 124 deg phase pt 3	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS Working Group AWG

Time System	CDS	Load ID	Calendar Date	02/21/97	Week 8
Start	JEE+CDS	00001242:00:0	97-052/17:48:40.600	JEE+000/20:55:48.000	
End	JEE+CDS	00001249:00:0	97-052/17:55:45.266	JEE+000/21:02:52.666	
Duration		00000007:00:0	000/00:07:04.666	000/00:07:04.666	

Top Label E6JNFEA12403-
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

One of 23 OAPELs constituting the feature tracks for this feature campaign. This is the third observation obtained on a rotation with phase angle approximately 124 degrees. Jupiter imaged in 4 colors, using NIMS downlink wavelength table JFT04A. This observation acquired with White Oval DE feature near the evening terminator, assuming feature coordinates 33 degrees south latitude (planetographic) and 91.5 degrees west longitude (system III

Data Returned

Design Detail

Short map, Nyquist-sampled observation of 1*1 (10*10 mrad) area centered on White Oval DE feature near 91.5 degrees West longitude, 33 degrees South latitude (planetographic). S/C distance about 1.05 million KM, NIMS IFOV (NIMSEL) = 525 KM; 1*1 mosaic covers 10500*10500 KM. About 100 seconds of scanning, accumulating 0.02554 mbtg in 4 colors, and using 0.00336 tracks. 4 rims reserved for targetting.

Short Map (SM), Gain 2, Grating Start 1, LPU, JFT68A, JFT04A

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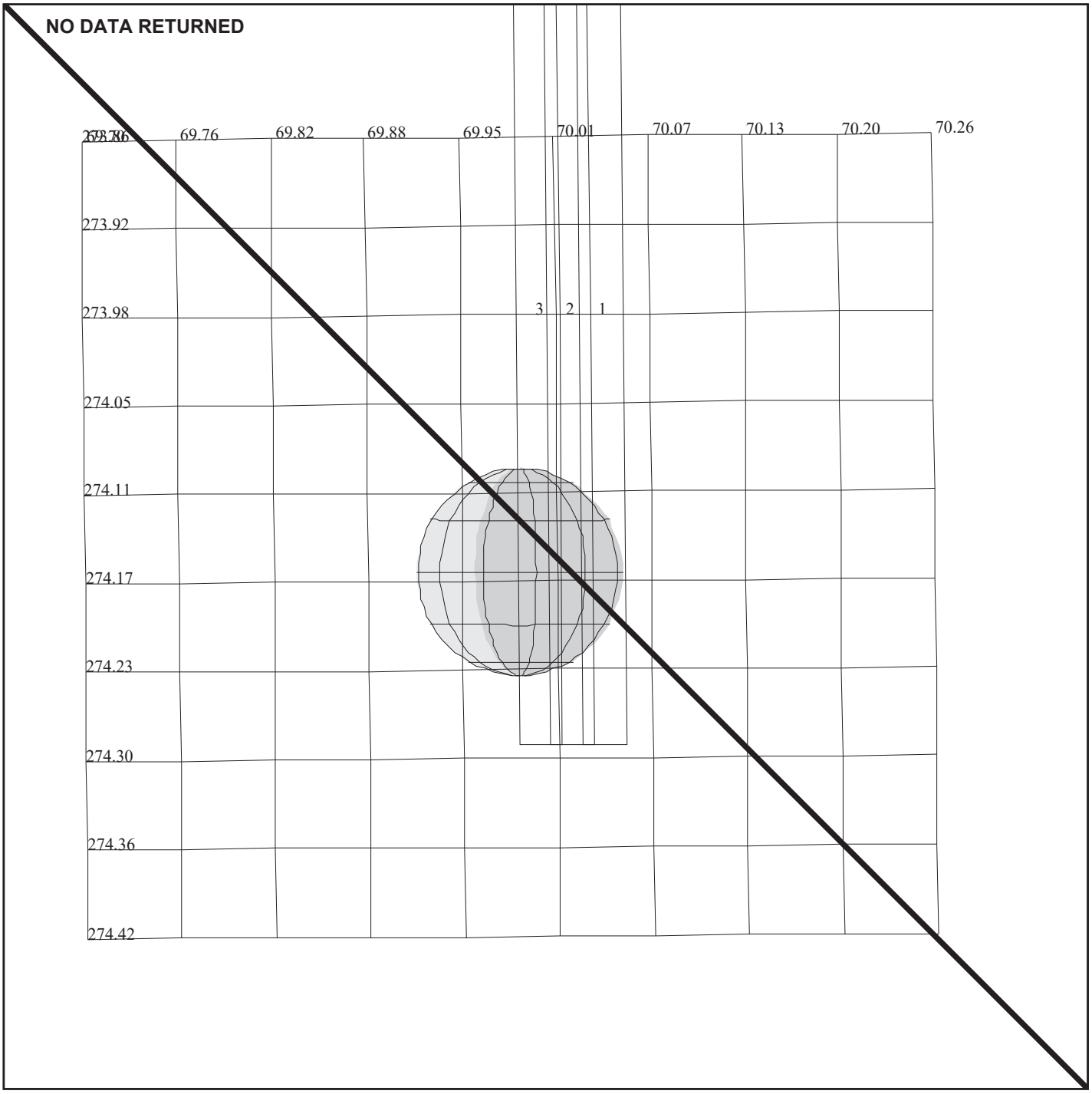

165ET:TT= 0 TMC= 1 C= 1.05 XC= -3.00 BS= 0/0438 TC= 3
A= 364 pD= 0 SR=17.450 RA50= 55.00 DEC50= 21.42 cone= 70.04 clock=273.98
117ET:#SB= 1 OR= 0.040 RR=12.000 BM=F RC= 1 BS= 0/0438
1:#s= 1 Cs= -1.55 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 120 rD= 2

E6INVOLCAN04

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6INVOLCAN04

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS: **THINNING:NIM 2**

START:IEE 97-051/12:03:03.333 +CDS 1850:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.200**

OBSERVATION:E6INVOLCAN04 **DESCRIP:MONITORING OF SELECTED VOLCANIC**

Monitoring of Selected Volcanic Regions ACTIVITY ID: E6INVOLCAN04-
START TIME: 97-052/19:10:34.666

Activity ID: Orbit E6 Target I Inst N OAPEL VOLCAN SeqNo 04 -

Title	Monitoring of Selected Volcanic Regions	Instrument	NIMS
Requestor	NIMS-SWG/R. LOPES	Team	NIMS Working Group SWG

Time System	CDS	Load ID	Calendar Date	02/21/97	Week 8
Start	IEE+CDS	00001847:00:0	97-052/19:10:34.666	IEE+001/07:07:31.333	
End	IEE+CDS	00001851:00:0	97-052/19:14:37.333	IEE+001/07:11:34.000	
Duration		00000004:00:0	000/00:04:02.667	000/00:04:02.667	

Top Label E6INVOLCAN04-
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 monitor time variations in activity of selected regions
(Loki, Pelee, Kanehekili) using selected wavelengths.

No Data Returned

Design Detail

Long Map, 8 wavelengths, 30 secs duration (or less).
Orbit 7 is high priority for Loki region,
will be seen at the best nightside resolution (278 km).
~ 5 observations per orbit.
Tracks: 0.005 per observation.

Locations of features:
- Kanehekili (-10 d. lat. +40 d. long.)
- Pelee (-20 d. lat. -255 d. long.)
- Loki (+12 d. lat. 310 d. long.)

Long Map (LM), Gain 4, Grating Start 0, LPU, ILMDK245, ILMDK10B

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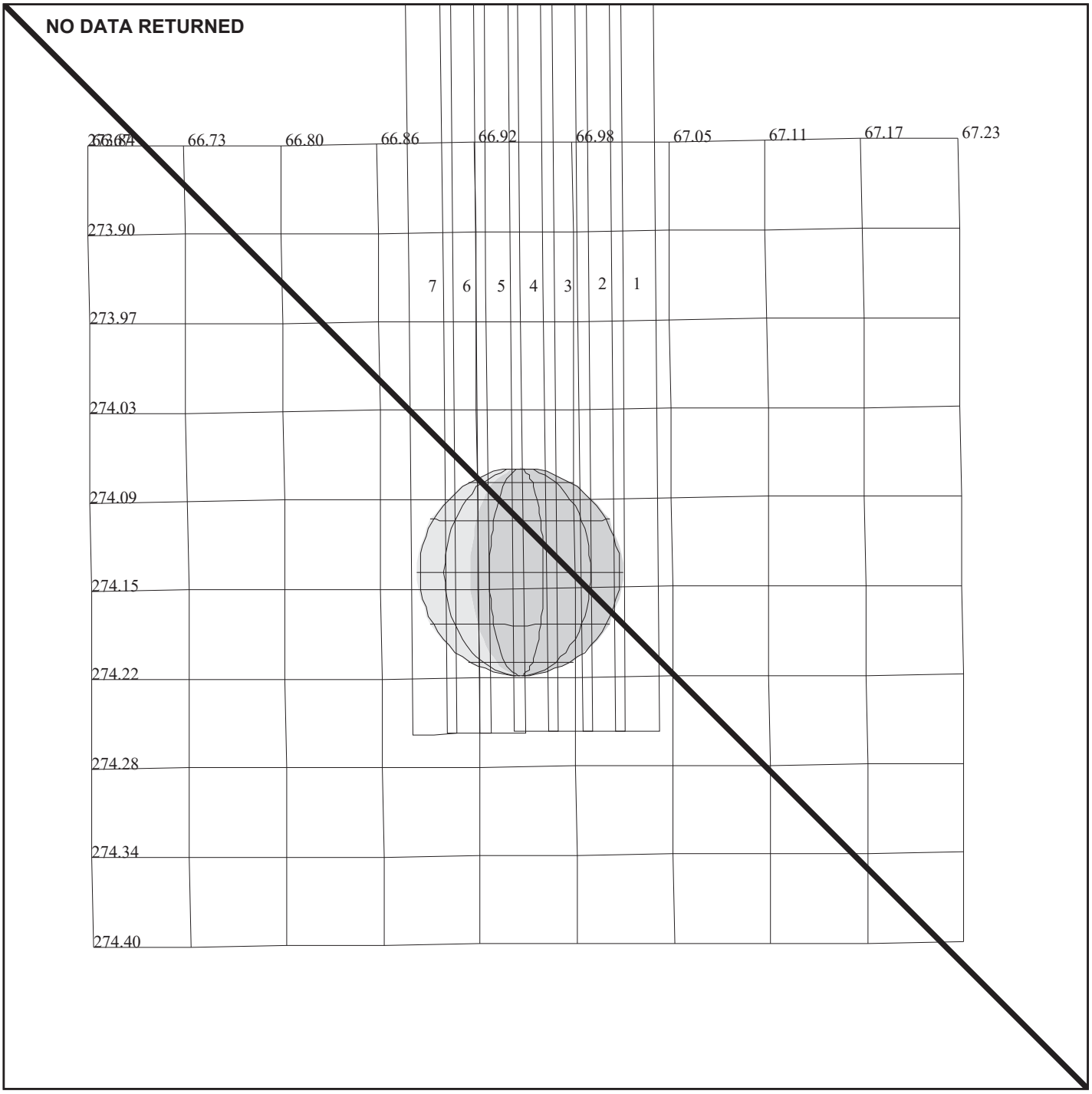

165EU:TT= 0 TMC= 1 C= 1.40 XC= -3.20 BS= 0/9174 TC= 3
A= 546 pD= 0 SR=17.450 RA50= 58.16 DEC50= 22.10 cone= 67.03 clock=273.94
117EU:#SB= 1 OR= 0.040 RR=12.000 BM=F RC= 1 BS= 0/9174
1:#s= 1 Cs= -4.80 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 364 rD= 2

E6INTHRMAL02

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6INTHRMAL02

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS: **THINNING:NIM 2**

START:IEE 97-051/12:03:03.333 +CDS 1898:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.200**

OBSERVATION:E6INTHRMAL02 **DESCRIP:MONITORING OF IO NIGHTSIDE**

Monitoring of IO's Nightside

ACTIVITY ID: E6INTHRMAL02-
START TIME: 97-052/19:58:05.999

Activity ID: Orbit E6 Target I Inst N OAPEL THRMAL SeqNo 02 -

Title	Monitoring of IO's Nightside			Instrument	NIMS
Requestor	NIMS-SWG/R. LOPES	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	Calendar Date	02/21/97	Week 8
Start	IEE+CDS	00001894:00:0	97-052/19:58:05.999	IEE+001/07:55:02.666	
End	IEE+CDS	00001900:00:0	97-052/20:04:09.999	IEE+001/08:01:06.666	
Duration		00000006:00:0	000/00:06:04.000	000/00:06:04.000	

Top Label	E6INTHRMAL02-				
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

Thermal monitoring of Io's nightside covering as wide a range of longitudes as possible with resolutions better than ~800 km/nimsel. Objective is to search for and map hot spots, thermal anomalies and outbursts on the surface. Observations will also include the limb to search for auroral effects.

No Data Returned

Design Detail

Partial or full disk mosaics within C/A + or - 32 hours in all orbits. High priority orbits are G1, C3, and C10 because these have the highest longitudinal coverage and orbits G7 and G8 because these have the best nighttime resolution for LOKI.

Instrument mode: Long Map,
Number of Wavelengths: 51,
Tracks used per orbit: 0.01 to 0.1,
Bits To Ground used per orbit: 0.01 to 0.5 Mbits.

Long Map (LM), Gain 4, Grating Start 0, LPU, ILMDK245, ILMDK10B

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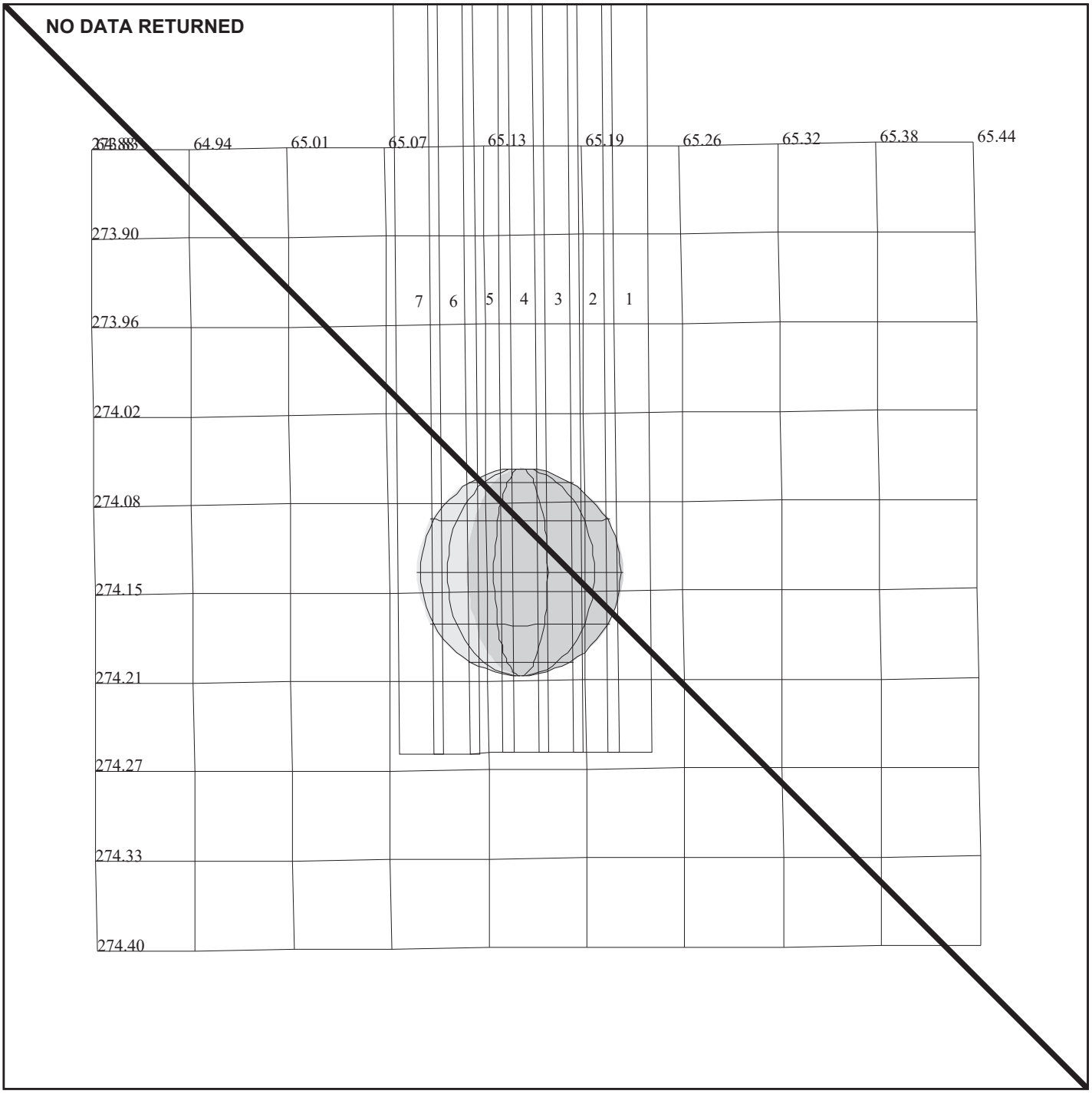

165EV:TT= 0 TMC= 1 C= 1.30 XC= -3.00 BS= 0/4452 TC= 3
A= 364 pD= 0 SR=17.450 RA50= 60.07 DEC50= 22.47 cone= 65.23 clock=273.94
117EV:#SB= 1 OR= 0.040 RR=12.000 BM=F RC= 1 BS= 0/4452
1:#s= 1 Cs= -4.75 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 364 rD= 2

E6INVOLCAN05

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6INVOLCAN05

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS: **THINNING:NIM 2**

START:IEE 97-051/12:03:03.333 +CDS 1927:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.200**

OBSERVATION:E6INVOLCAN05 **DESCRIP:MONITORING OF SELECTED VOLCANIC**

Monitoring of Selected Volcanic Regions ACTIVITY ID: E6INVOLCAN05-
START TIME: 97-052/20:28:25.999

Activity ID: Orbit E6 Target I Inst N OAPEL VOLCAN SeqNo 05 -

Title	Monitoring of Selected Volcanic Regions	Instrument	NIMS
Requestor	NIMS-SWG/R. LOPES	Team	NIMS Working Group SWG

Time System	CDS	Load ID	Calendar Date 02/21/97 Week 8
Start	IEE+CDS 00001924:00:0	97-052/20:28:25.999	IEE+001/08:25:22.666
End	IEE+CDS 00001929:14:0	97-052/20:33:38.666	IEE+001/08:30:35.333
Duration	00000005:14:0	000/00:05:12.667	000/00:05:12.667

Top Label E6INVOLCAN05-
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 monitor time variations in activity of selected regions
(Loki, Pelee, Kanehekili) using selected wavelengths.

No Data Returned

Design Detail

Long Map, 8 wavelengths, 30 secs duration (or less).
Orbit 7 is high priority for Loki region,
will be seen at the best nightside resolution (278 km).
~ 5 observations per orbit.
Tracks: 0.005 per observation.

Locations of features:
- Kanehekili (-10 d. lat. +40 d. long.)
- Pelee (-20 d. lat. -255 d. long.)
- Loki (+12 d. lat. 310 d. long.)

Long Map (LM), Gain 4, Grating Start 0, LPU, ILMDK245, ILMDK10B

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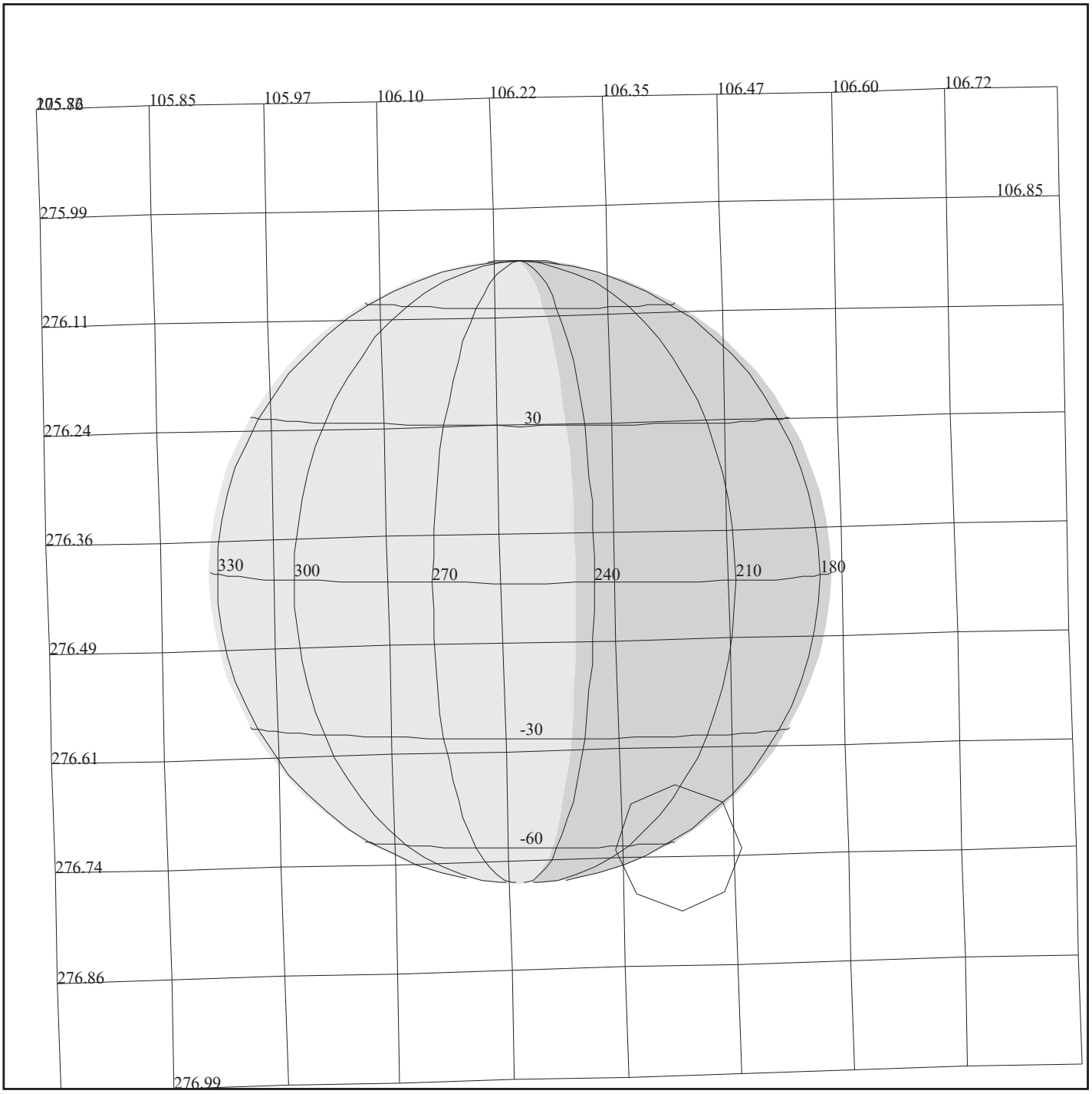

165HA:TT= 0 TMC= 1 C= -6.00 XC= -5.65 BS= 0/3754 TC= 3
A= 728 pD= 7280 SR=17.450 RA50= 17.67 DEC50= 6.88 cone=108.85 clock=276.18
117HA:#SB= 1 OR= 0.140 RR=12.000 BM=F RC= 1 BS= 0/3754
1:#s= 9 Cs= 7.65 XCs= 0.00 Cr= -8.90 XCr= 1.35 sD= 158 rD= 18

E6NNHEALTH07

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6GPGLOBAL01

TARGET BODY : GANYMEDE

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS: **THINNING: :PPR 1**

START:GEE 97-052/16:25:45.933 +CDS 404:00:0 **BODY PLOT TIME:END-TIME D= 7280 S= 0.600**

OBSERVATION:E6GPGLOBAL01 **DESCRIP:GANYMEDE LOW RES DAY/DARK MAP**

E6 Health 7

ACTIVITY ID: E6NNHEALTH07-
START TIME: 97-053/02:42:32.600

Activity ID: Orbit E6 Target N Inst N OAPEL HEALTH SeqNo 07 -

Title	E6 Health 7	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team NIMS	Working Group AWG

Time System	CDS	Load ID	Calendar Date	02/22/97	Week 8
Start	JEE+CDS	00001770:00:0	97-053/02:42:32.600	JEE+001/05:49:40.000	
End	JEE+CDS	00001776:00:0	97-053/02:48:36.600	JEE+001/05:55:44.000	
Duration		00000006:00:0	000/00:06:04.000	000/00:06:04.000	

Top Label	E6NNHEALTH07-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	0	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

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

Design Detail

No scan platform commanding. Scan platform is at the end of the slew of the previous observation: E6GPGLOBAL01

Long Map (LM), Gain 2, Grating Start 0, R/T, RT003

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NIMS Software Load

ACTIVITY ID: E6NIMSP2LD07-
START TIME: 97-053/02:48:36.600

Activity ID: Orbit E6 Target N Inst I OAPEL MSP2LD SeqNo 07 -

Title	NIMS Software Load			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID	Calendar Date	02/22/97	Week 8
Start	JEE+CDS	00001776:00:0	97-053/02:48:36.600	JEE+001/05:55:44.000	
End	JEE+CDS	00001786:00:0	97-053/02:58:43.266	JEE+001/06:05:50.666	
Duration		00000010:00:0	000/00:10:06.666	000/00:10:06.666	

Top Label	E6NIMSP2LD07-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	100	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

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

Memory load from CDS to NIMS and restart.
Diagnostic checksum, processor halt, memory reload from CDS,
instrument restart, and operational mode set.

Design Detail

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

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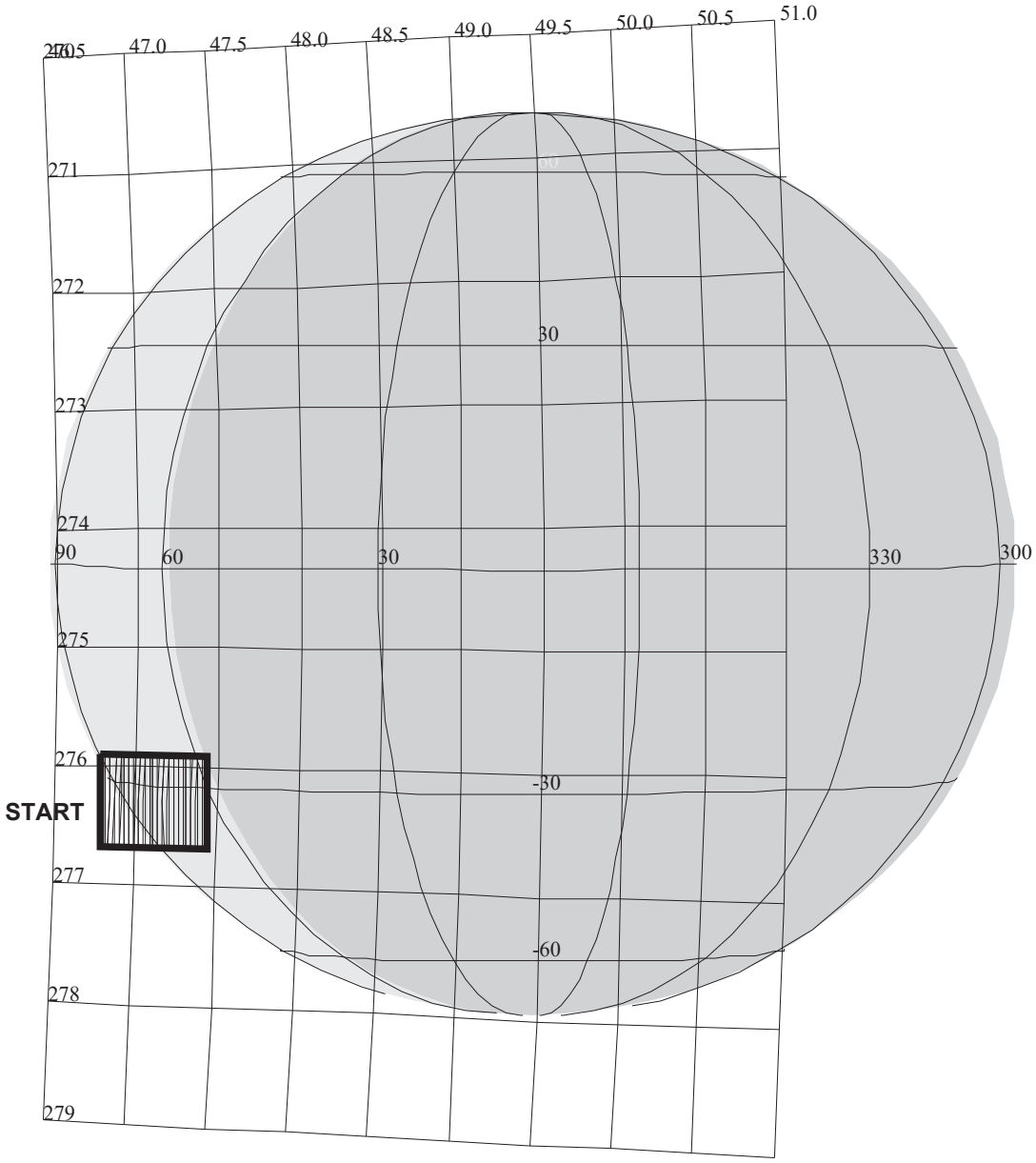

165EW:TT= 0 TMC= 1 C= -2.50 XC= 0.00 BS= 0/5249 TC= 1(-33 91.5)
A= 728 pD= 0 SR=17.450 RA50= 80.17 DEC50= 23.07 cone= 46.79 clock=276.29
117EW:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/5249
1:#s= 1 Cs= 10.90 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 300 rD= 2

E6JNFEA14001

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6JNFEA14001

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-051/20:52:52.600 +CDS 1792:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750**

OBSERVATION:E6JNFEA14001 **DESCRIP:JUP_FEAT_TRK_140_DEG_PHASE_01**

Jupiter Feature Track 140 deg phase pt 1 ACTIVITY ID: E6JNFEA14001-
START TIME: 97-053/02:59:43.933

Activity ID: Orbit E6 Target J Inst N OAPEL FEA140 SeqNo 01 -

Title	Jupiter Feature Track 140 deg phase pt 1	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS Working Group AWG

Time System	CDS	Load ID	Calendar Date	02/22/97	Week 8
Start	JEE+CDS	00001787:00:0	97-053/02:59:43.933	JEE+001/06:06:51.333	
End	JEE+CDS	00001794:00:0	97-053/03:06:48.600	JEE+001/06:13:56.000	
Duration		00000007:00:0	000/00:07:04.667	000/00:07:04.667	

Top Label	E6JNFEA14001-				
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

One of 23 OAPELs constituting the feature tracks for this feature campaign. This is the first observation obtained on a rotation with phase angle approximately 140 degrees. Jupiter imaged in 19 colors, using NIMS downlink wavelength table JFT19D. This observation acquired with White Oval DE feature near the bright limb, assuming feature coordinates 33 degrees south latitude (planetographic) and 91.5 degrees west longitude (System III).

Data Returned

Design Detail

Short map, Nyquist-sampled observation of 1*1 (10*10 mrad) area centered on White Oval DE feature near 91.5 degrees West longitude, 33 degrees South latitude (planetogrpahic). S/C distance about 1.37 million KM, NIMS IFOV (NIMSEL) = 685 KM; 1*1 mosaic covers 13700*13700 KM. About 100 seconds of scanning, accumulating 0.0921 mbtg in 19 colors, and using 0.00336 tracks. 4 rims reserved for targetting.

Short Map (SM), Gain 2, Grating Start 0, LPU, JFT68B, JFT19D

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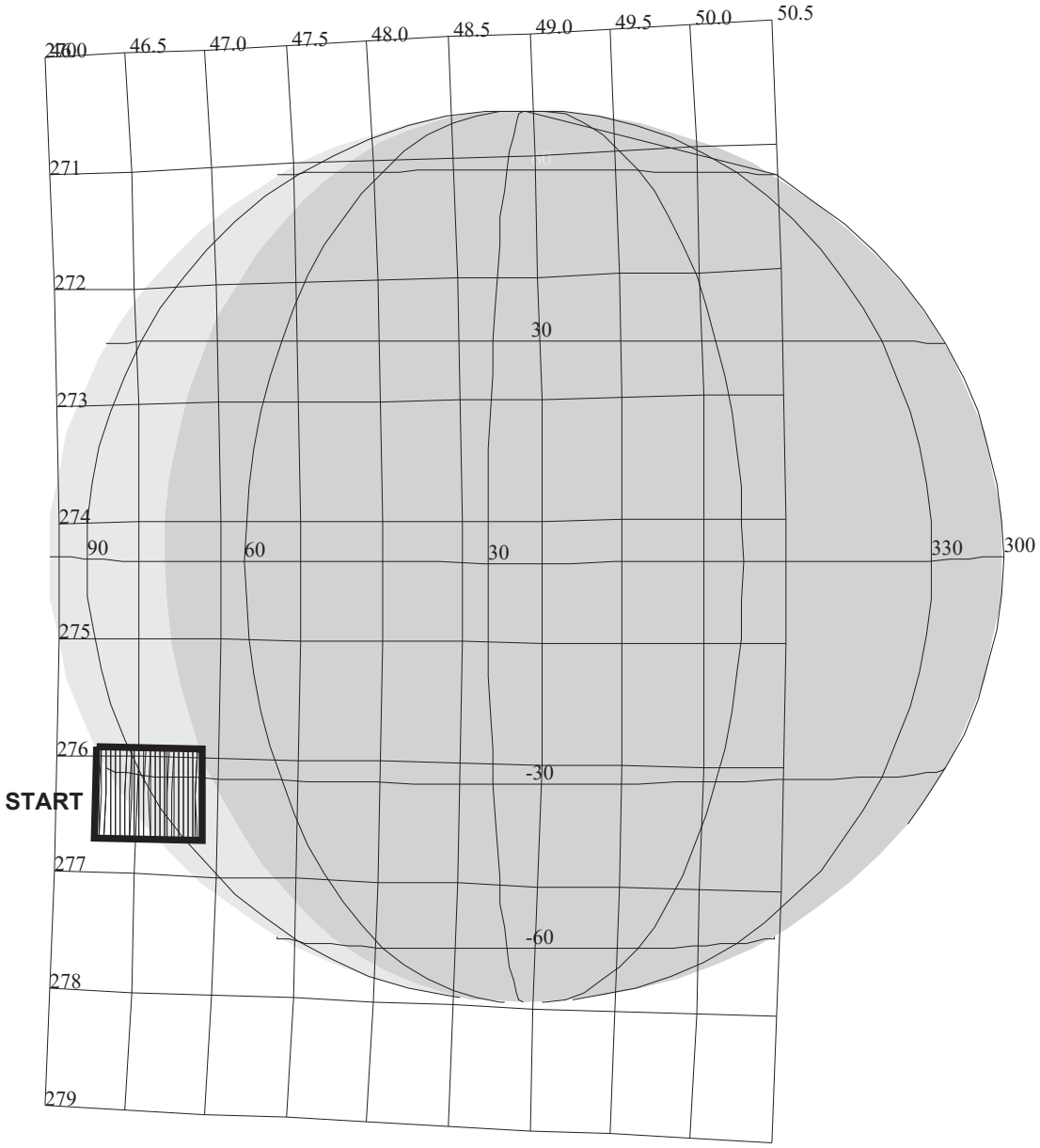

165EX:TT= 0 TMC= 1 C= -5.50 XC= 0.00 BS= 0/9435 TC= 1(-33 91.5)
A= 728 pD= 0 SR=17.450 RA50= 80.72 DEC50= 23.09 cone= 46.29 clock=276.31
117EX:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/9435
1:#s= 1 Cs= 10.90 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 300 rD= 2

E6JNFEA14002

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6JNFEA14002

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-051/20:52:52.600 +CDS 1815:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750**

OBSERVATION:E6JNFEA14002 **DESCRIP:JUP_FEAT_TRK_140_DEG_PHASE_02**

Jupiter Feature Track 140 deg phase pt 2 ACTIVITY ID: E6JNFEA14002-
START TIME: 97-053/03:22:59.266

Activity ID: Orbit E6 Target J Inst N OAPEL FEA140 SeqNo 02 -

Title	Jupiter Feature Track 140 deg phase pt 2	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS Working Group AWG

Time System	CDS	Load ID	Calendar Date	02/22/97	Week 8
Start	JEE+CDS	00001810:00:0	97-053/03:22:59.266	JEE+001/06:30:06.666	
End	JEE+CDS	00001817:00:0	97-053/03:30:03.933	JEE+001/06:37:11.333	
Duration		00000007:00:0	000/00:07:04.667	000/00:07:04.667	

Top Label	E6JNFEA14002-				
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

One of 23 OAPELs constituting the feature tracks for this feature campaign. This is the second observation obtained on a rotation with phase angle approximately 140 degrees. Jupiter imaged in 19 colors, using NIMS downlink wavelength table JFT19D. This observation acquired with White Ovals BC and DE feature near the bright limb airmass, assuming White Oval DE feature coordinates 33 degrees south latitude (planetographic) and 91.5 degrees west longitude (system III).

Data Returned

Design Detail

Short map, Nyquist-sampled observation of 1*1 (10*10 mrad) area centered on White Oval DE feature near 91.5 degrees West longitude, 33 degrees South latitude (planetographic). S/C distance about 1.37 million KM, NIMS IFOV (NIMSEL) = 685 KM; 1*1 mosaic covers 13700*13700 KM. About 100 seconds of scanning, accumulating 0.0921 mbtg in 19 colors, and using 0.00336 tracks. 4 rims reserved for targetting.

Short Map (SM), Gain 2, Grating Start 0, LPU, JFT68B, JFT19D

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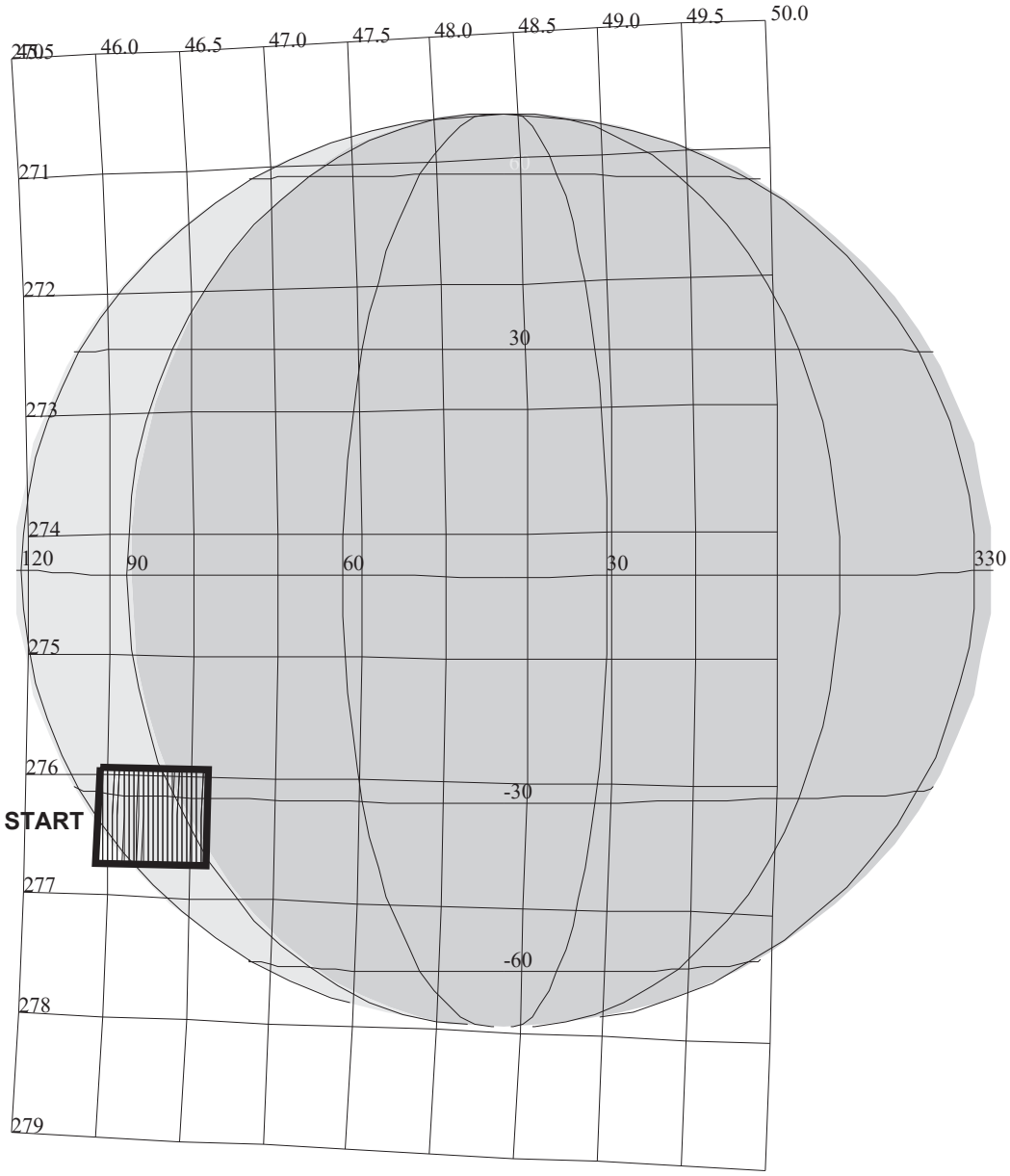

165EY:TT= 0 TMC= 1 C= -8.00 XC= 0.00 BS= 0/4349 TC= 1(-33 91.5)
A= 728 pD= 0 SR=17.450 RA50= 81.11 DEC50= 23.10 cone= 45.93 clock=276.33
117EY:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/4349
1:#s= 1 Cs= 10.90 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 300 rD= 2

E6JNFEA14003

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6JNFEA14003

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-051/20:52:52.600 +CDS 1842:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750**

OBSERVATION:E6JNFEA14003 **DESCRIP:JUP_FEAT_TRK_140_DEG_PHASE_03**

Jupiter Feature Track 140 deg phase pt 3 ACTIVITY ID: E6JNFEA14003-
START TIME: 97-053/03:50:17.266

Activity ID: Orbit E6 Target J Inst N OAPEL FEA140 SeqNo 03 -

Title	Jupiter Feature Track 140 deg phase pt 3	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS Working Group AWG

Time System	CDS	Load ID	Calendar Date	02/22/97	Week 8
Start	JEE+CDS	00001837:00:0	97-053/03:50:17.266	JEE+001/06:57:24.666	
End	JEE+CDS	00001844:00:0	97-053/03:57:21.933	JEE+001/07:04:29.333	
Duration		00000007:00:0	000/00:07:04.667	000/00:07:04.667	

Top Label E6JNFEA14003-
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

One of 23 OAPELs constituting the feature tracks for this feature campaign. This is the third observation obtained on a rotation with phase angle approximately 140 degrees. Jupiter imaged in 19 colors, using NIMS downlink wavelength table JFT19D. This observation acquired with White Oval DE near the terminator and White Oval BC near minimum airmass, assuming feature coordinates 33 degrees south latitude (planetographic) and 91.5 degrees west longitude (System III).

Data Returned

Design Detail

Short map, Nyquist-sampled observation of 1*1 (10*10 mrad) area centered on White Oval DE feature near 91.5 degrees West longitude, 33 degrees South latitude (planetographic). S/C distance about 1.37 million KM, NIMS IFOV (NIMSEL) = 685 KM; 1*1 mosaic covers 13700*13700 KM. About 100 seconds of scanning, accumulating 0.0921 mbtg in 19 colors, and using 0.00336 tracks. 4 rims reserved for targetting.

Short Map (SM), Gain 2, Grating Start 0, LPU, JFT68B, JFT19D

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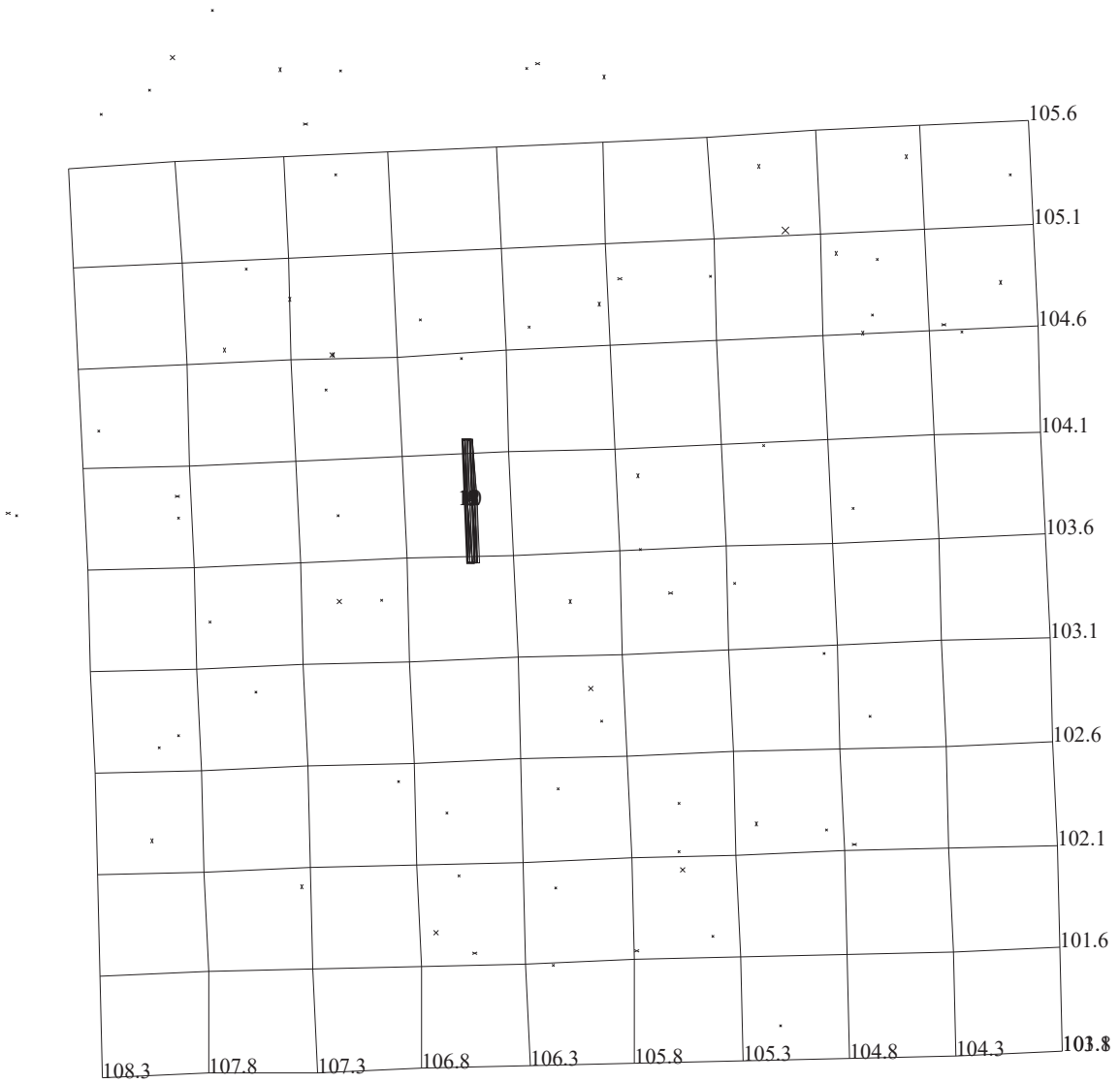

165FA:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/1719 TC=15(-11.5 234.0)
A= 728 pD= 0 SR=17.450 RA50=234.00 DEC50=-11.50 cone=106.50 clock=103.82

E6HNDARK__04

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6HNDARK__04

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS: **THINNING:NIM 2**

START:EEE 97-051/17:03:21.333 +CDS 2604:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.800**

OBSERVATION:E6HNDARK__04 **DESCRIP:DARK OBSERVATION**

Dark Observation

ACTIVITY ID: E6HNDARK__04-
START TIME: 97-053/12:51:13.999

Activity ID: Orbit E6 Target H Inst N OAPEL DARK SeqNo 04 -

Title	Dark Observation			Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	Calendar Date	02/22/97	Week 8
Start	EEE+CDS	00002599:00:0	97-053/12:51:13.999	EEE+001/19:47:52.666	
End	EEE+CDS	00002605:15:0	97-053/12:57:27.999	EEE+001/19:54:06.666	
Duration		00000006:15:0	000/00:06:14.000	000/00:06:14.000	

Top Label	E6HNDARK__04-				
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

Obtain 1 rim of dark sky data per day for each day of NIMS observations within the E6 orbit for purposes of calibration.

Data Returned

Design Detail

Sit and stare design, target to dark-sky and remain there for 1 rim. Observation to be done in short-map mode.

Long Map (LM), Gain 2, Grating Start 0, LPU, DRK34, DRK32

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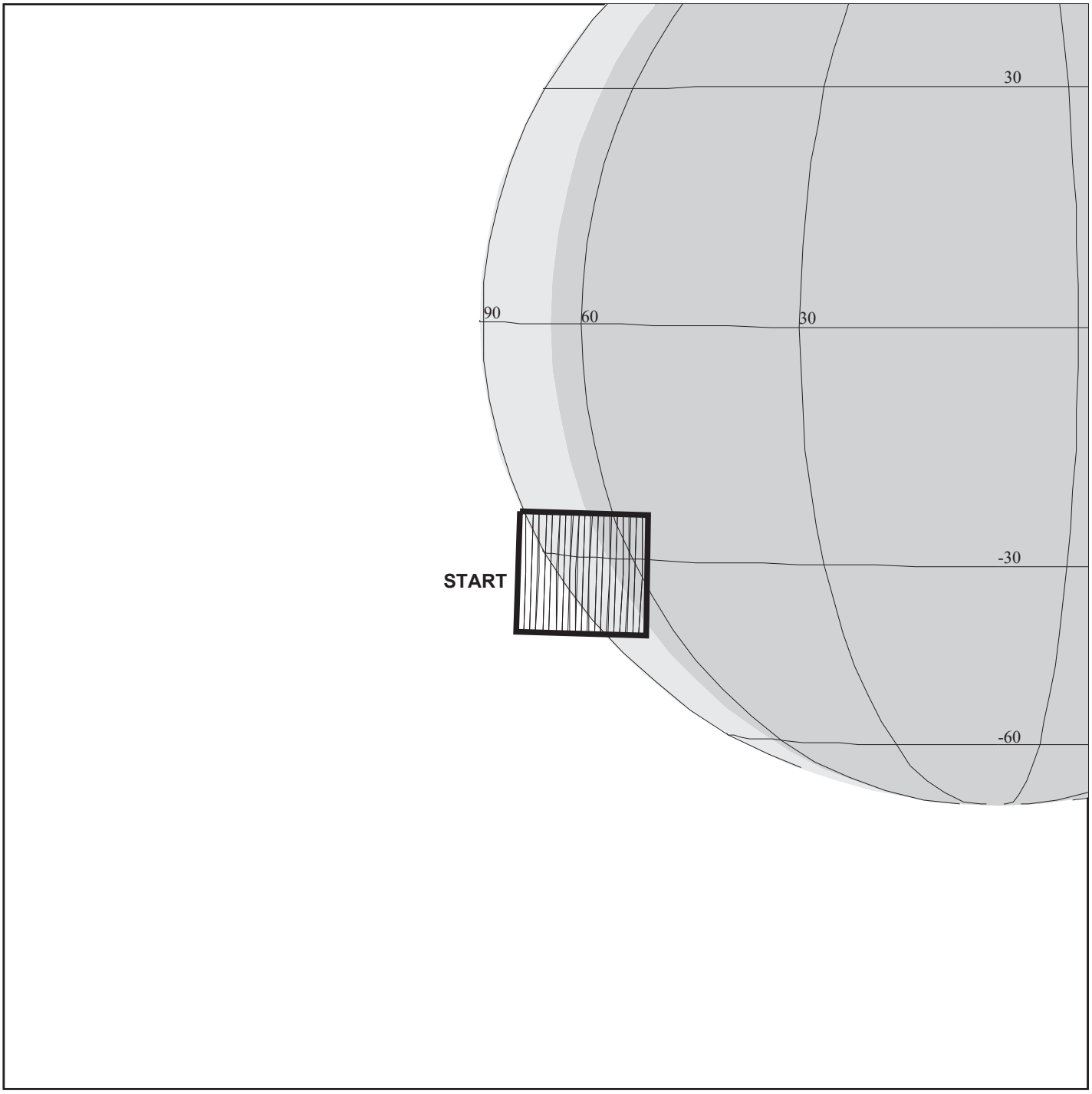

165FB:TT= 0 TMC= 1 C= -3.00 XC= 0.00 BS= 0/4631 TC= 1(-33 91.5)
A= 728 pD= 0 SR=17.450 RA50= 91.82 DEC50= 23.49 cone= 36.09 clock=276.31
117FB:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/4631
1:#s= 1 Cs= 10.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 282 rD= 2

E6JNFEA15001

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6JNFEA15001

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-051/20:52:52.600 +CDS 2393:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 1.000**

OBSERVATION:E6JNFEA15001 **DESCRIP:JUP FEATURE TRACK 150 DEG PHASE**

Jupiter Feature Track 150 deg phase pt 1 ACTIVITY ID: E6JNFEA15001-
START TIME: 97-053/13:07:24.600

Activity ID: Orbit E6 Target J Inst N OAPEL FEA150 SeqNo 01 -

Title	Jupiter Feature Track 150 deg phase pt 1	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS Working Group AWG

Time System	CDS	Load ID	Calendar Date	02/22/97	Week 8
Start	JEE+CDS	00002388:00:0	97-053/13:07:24.600	JEE+001/16:14:32.000	
End	JEE+CDS	00002395:00:0	97-053/13:14:29.266	JEE+001/16:21:36.666	
Duration		00000007:00:0	000/00:07:04.666	000/00:07:04.666	

Top Label E6JNFEA15001-
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

One of 23 OAPELs constituting the feature tracks for this feature campaign. This is the first observation obtained on a rotation with phase angle approximately 150 degrees. Jupiter imaged in 4 colors, using NIMS downlink wavelength table JFT04A. This observation acquired with White Oval DE feature near the bright limb, assuming feature coordinates 33 degrees south latitude (planetographic) and 91.5 degrees west longitude (System III).

Data Returned

Design Detail

Short map, Nyquist-sampled observation of 1*1 (10*10 mrad) area centered on White Oval DE feature near 91.5 degrees West longitude (planetographic), 33 degrees South latitude. S/C distance about 1.67 million KM, NIMS IFOV (NIMSEL) = 835 KM; 1*1 mosaic covers 16700*16700 KM. About 100 seconds of scanning, accumulating 0.02554 mbtg in 4 colors, and using 0.00336 tracks. 4 rims reserved for targetting.

Short Map (SM), Gain 2, Grating Start 0, LPU, JFT68A, JFT20A

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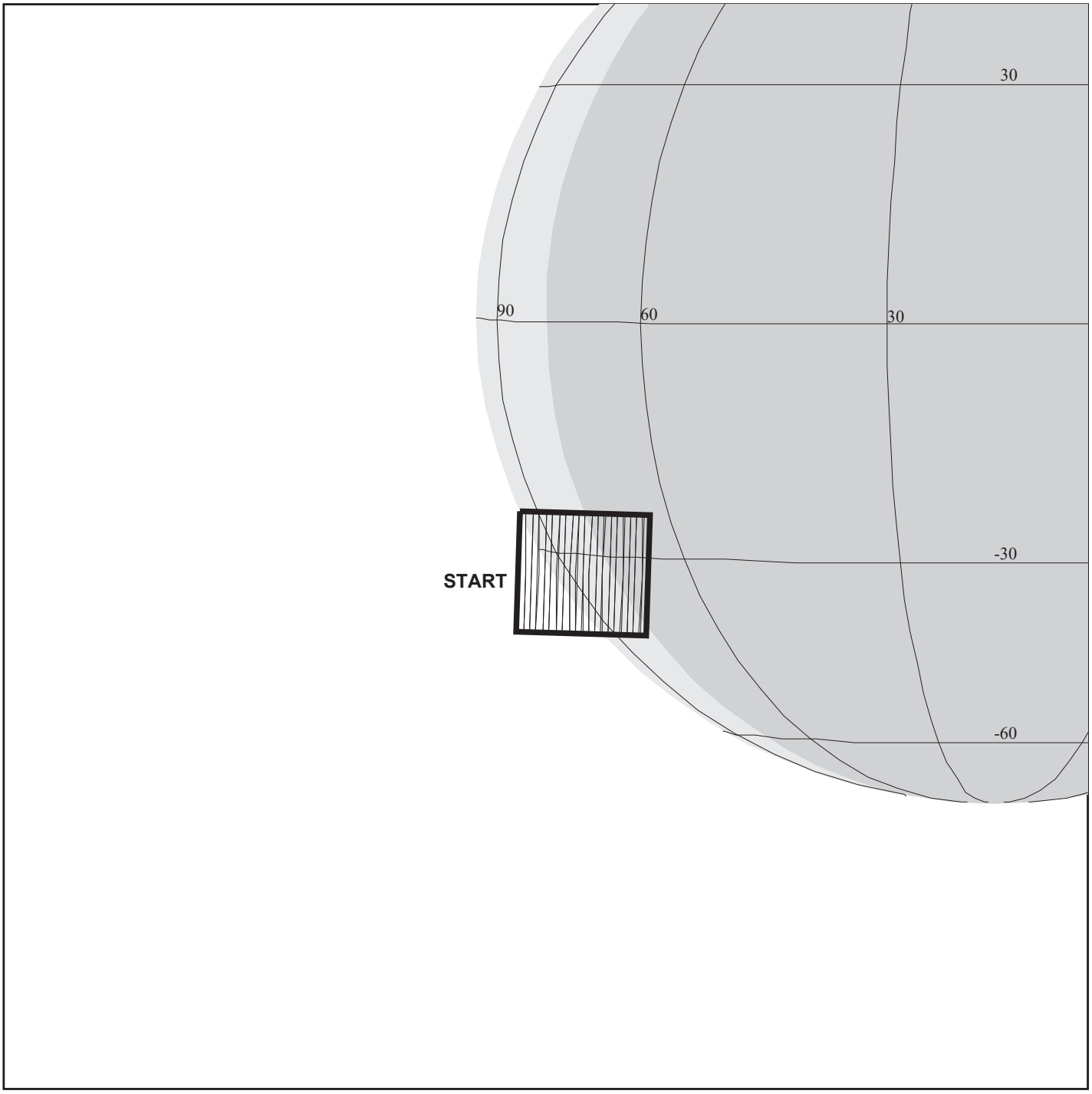

165FC:TT= 0 TMC= 1 C= -3.80 XC= 0.00 BS= 0/7725 TC= 1(-33 91.5)
A= 728 pD= 0 SR=17.450 RA50= 92.07 DEC50= 23.48 cone= 35.86 clock=276.33
117FC:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/7725
1:#s= 1 Cs= 10.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 282 rD= 2

E6JNFEA15002

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6JNFEA15002

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-051/20:52:52.600 +CDS 2410:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 1.000**

OBSERVATION:E6JNFEA15002 **DESCRIP:JUP FEATURE TRACK 150 DEG PHASE**

Jupiter Feature Track 150 deg phase pt 2 ACTIVITY ID: E6JNFEA15002-
START TIME: 97-053/13:24:35.933

Activity ID: Orbit E6 Target J Inst N OAPEL FEA150 SeqNo 02 -

Title	Jupiter Feature Track 150 deg phase pt 2	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS Working Group AWG

Time System	CDS	Load ID	Calendar Date	02/22/97	Week 8
Start	JEE+CDS	00002405:00:0	97-053/13:24:35.933	JEE+001/16:31:43.333	
End	JEE+CDS	00002412:00:0	97-053/13:31:40.600	JEE+001/16:38:48.000	
Duration		00000007:00:0	000/00:07:04.667	000/00:07:04.667	

Top Label	E6JNFEA15002-				
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

One of 23 OAPELs constituting the feature tracks for this feature campaign. This is the second observation obtained on a rotation with phase angle approximately 150 degrees. Jupiter imaged in 4 colors, using NIMS downlink wavelength table JFT04A. This observation acquired with White Oval DE feature near minimum airmass and White Oval BC on the bright limb, assuming feature coordinates 33 degrees south latitude (planetographic) and 91.5 degrees west longitude (System III).

Data Returned

Design Detail

Short map, Nyquist-sampled observation of 1*1 (10*10 mrad) area centered on White Ovals BC and DE near 91.5 degrees West longitude, 33 degrees South latitude (planetographic). S/C distance about 1.67 million KM, NIMS IFOV (NIMSEL) = 835 KM; 1*1 mosaic covers 16700*16700 KM. About 100 seconds of scanning, accumulating 0.02554 mbtg in 4 colors, and using 0.00336 tracks. 4 rims reserved for targetting.

Short Map (SM), Gain 2, Grating Start 0, LPU, JFT68A, JFT20A

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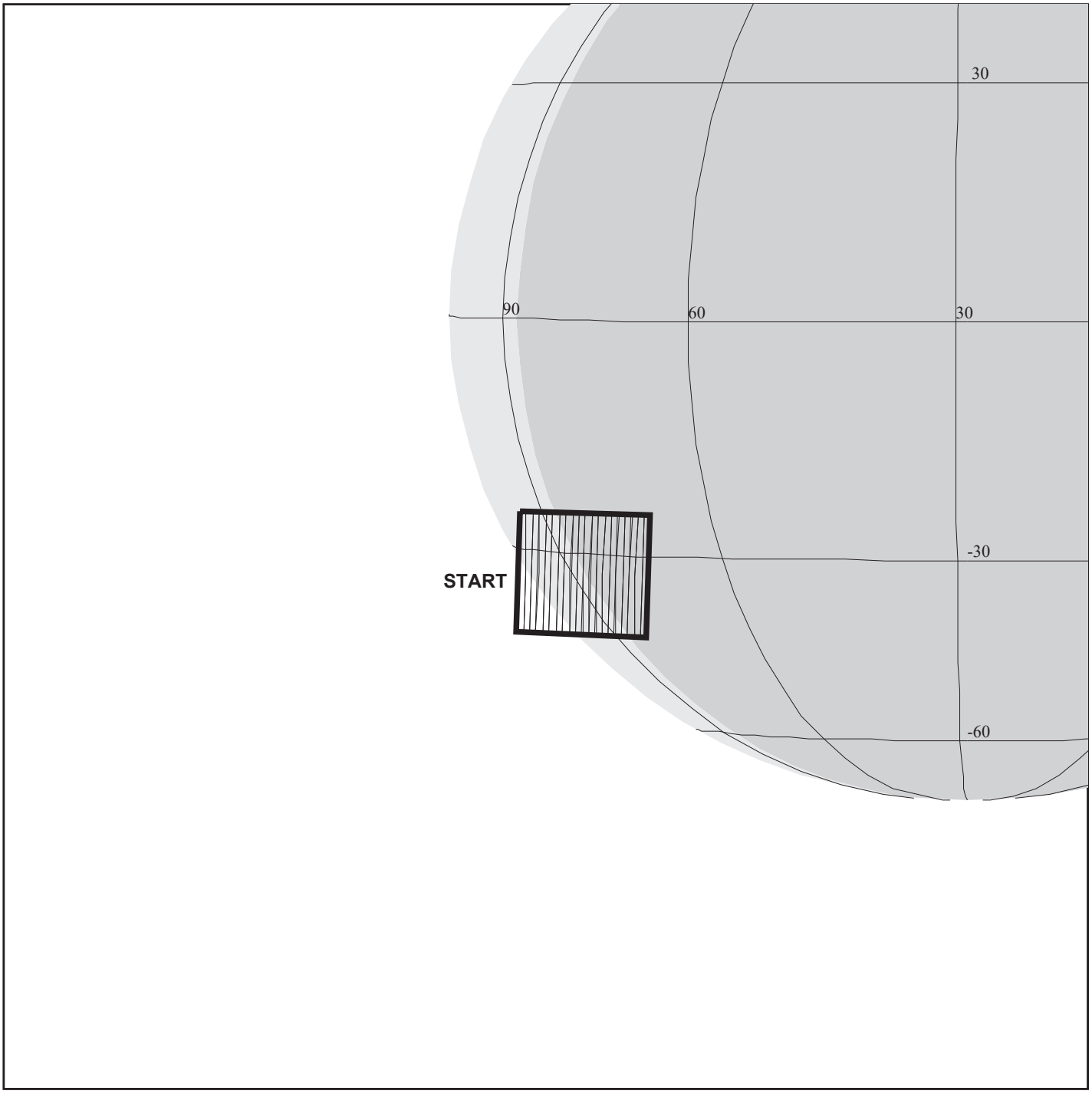

165FD:TT= 0 TMC= 1 C= -3.80 XC= 0.00 BS= 0/0819 TC= 1(-33 91.5)
A= 728 pD= 0 SR=17.450 RA50= 92.20 DEC50= 23.47 cone= 35.74 clock=276.34
117FD:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/0819
1:#s= 1 Cs= 10.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 282 rD= 2

E6JNFEA15003

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6JNFEA15003

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-051/20:52:52.600 +CDS 2427:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 1.000**

OBSERVATION:E6JNFEA15003 **DESCRIP:JUP FEATURE TRACK 150 DEG PHASE**

Jupiter Feature Track 150 deg phase pt 3 ACTIVITY ID: E6JNFEA15003-
START TIME: 97-053/13:41:47.266

Activity ID: Orbit E6 Target J Inst N OAPEL FEA150 SeqNo 03 -

Title	Jupiter Feature Track 150 deg phase pt 3	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS Working Group AWG

Time System	CDS	Load ID	Calendar Date	02/22/97	Week 8
Start	JEE+CDS	00002422:00:0	97-053/13:41:47.266	JEE+001/16:48:54.666	
End	JEE+CDS	00002429:00:0	97-053/13:48:51.933	JEE+001/16:55:59.333	
Duration		00000007:00:0	000/00:07:04.667	000/00:07:04.667	

Top Label	E6JNFEA15003-				
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

One of 23 OAPELs constituting the feature tracks for this feature campaign. This is the third observation obtained on a rotation with phase angle approximately 150 degrees. Jupiter imaged in 4 colors, using NIMS downlink wavelength table JFT04A. This observation acquired with White Oval DE feature near the terminator, assuming feature coordinates 33 degrees south latitude and 91.5 degrees west longitude (System III).

Data Returned

Design Detail

Short map, Nyquist-sampled observation of 1*1 (10*10 mrad) area centered on White Oval feature DE near 91.5 degrees West longitude, 33 degrees South latitude (planetographic). S/C distance about 1.67 million KM, NIMS IFOV (NIMSEL) = 835 KM; 1*1 mosaic covers 16700*16700 KM. About 100 seconds of scanning, accumulating 0.02554 mbtg in 4 colors, and using 0.00336 tracks. 4 rims reserved for targetting.

Short Map (SM), Gain 2, Grating Start 0, LPU, JFT68A, JFT20A

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NIMS Real-Time PCT Calibration ACTIVITY ID: E6NNPCTCAL01-
START TIME: 97-053/18:05:41.333

Activity ID: Orbit E6 Target N Inst N OAPEL PCTCAL SeqNo 01 -

Title	NIMS Real-Time PCT Calibration	Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team NIMS	Working Group SWG

Time System	CDS	Load ID	Calendar Date 02/22/97 Week 8
Start	EEE+CDS	00002910:00:0	97-053/18:05:41.333 EEE+002/01:02:20.000
End	EEE+CDS	00003088:00:0	97-053/21:05:39.999 EEE+002/04:02:18.666
Duration		00000178:00:0	000/02:59:58.666 000/03:00:01..33

Top Label E6NNPCTCAL01
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	300	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	ALL	DMS	Yes

Observation Objective

This observation is a NIMS photometric calibration using the PCT target. The data will be used to calibrate the NIMS visible detectors. The calibration data will be recorded. This calibration takes place near the emd of the E6 Encounter phase. At this time the sun angle is about 8 degrees, not an ideal sun angle for a PCT calibration.
A NIMS Optical Calibration is also performed.

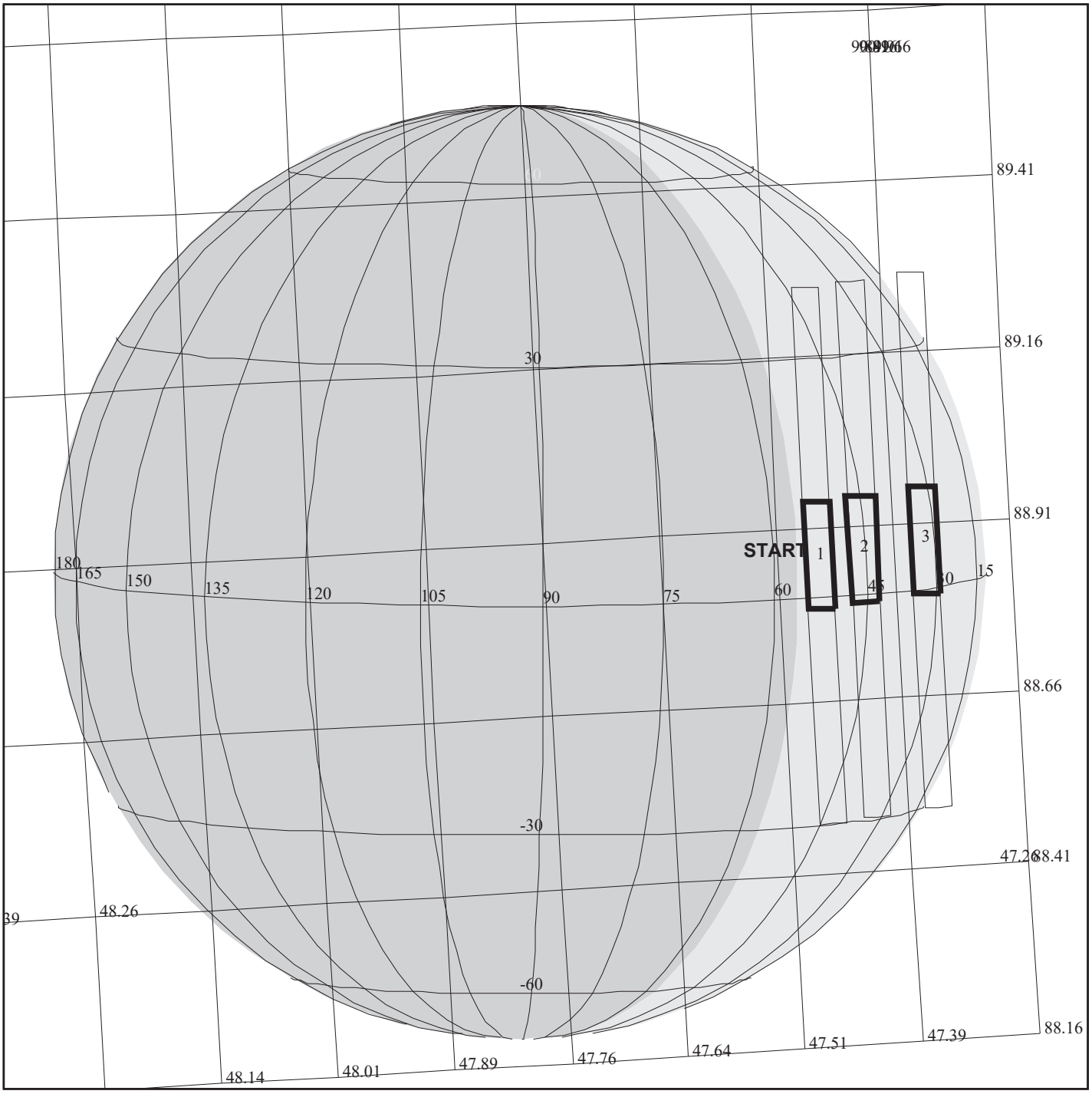
Data Returned

Design Detail

The dark cone,clock angles must be checked using Pointer.
1) Turn off PCT heaters 6 hours before calibration.
2) Assume AACS transition to AllSpin, cone at 153 degrees.
3) Set NIMS to Long Map Mode, Gain State 4, ETB = PCT252,
The OPCAL diode will be turned on before step 6.
4) Slew to Dark (cone=110.00, clock= 90.00), Record 3 Rims in LPU
5) Slew to PCT (cone= 54.88, clock=244.07), Record 3 Rims in LPU
6) Slew to Dark (cone=110.00, clock= 90.00), Record 3 Rims in LPU
7) Slew to Safe (cone=153.00, clock= 0.00)

Only the PCT data were returned, not the Dark or OPCAL.

Long Map (LM), Gain 1, Grating Start 0, LPU, PCT252, PCT228



165FL:TT= 0 TMC= 1 C= -5.50 XC= 0.00 BS= 0/9453 TC= 3
A= 546 pD= 0 SR=17.450 RA50=173.53 DEC50= -2.35 cone= 47.47 clock= 88.87
117FL:#SB= 1 OR= 0.040 RR=12.000 BM=F RC= 1 BS= 0/9453
1:#s= 1 Cs= -7.10 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 546 rD= 2

E6CNCALLRT01

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6CNCALLRT01

TARGET BODY : CALLISTO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS:

THINNING:NIM 7

START:CEE 97-053/22:54:51.866 -CDS 55:00:0

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

OBSERVATION:E6CNCALLRT01

DESCRIP:CALLISTO_REAL_TIME_OBS

Callisto Real-Time Observation

ACTIVITY ID: E6CNCALLRT01-
START TIME: 97-053/21:55:12.533

Activity ID: Orbit E6 Target C Inst N OAPEL CALLRT SeqNo 01 -

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

Time System	CDS	Load ID	Calendar Date	02/22/97	Week 8
Start	CEE-CDS 00000059:00:0	97-053/21:55:12.533		CEE-000/00:59:39.333	
End	CEE-CDS 00000052:00:0	97-053/22:02:17.200		CEE-000/00:52:34.666	
Duration	00000007:00:0	000/00:07:04.667		000/00:07:04.667	

Top Label	E6CNCALLRT01-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	0	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

Data Returned

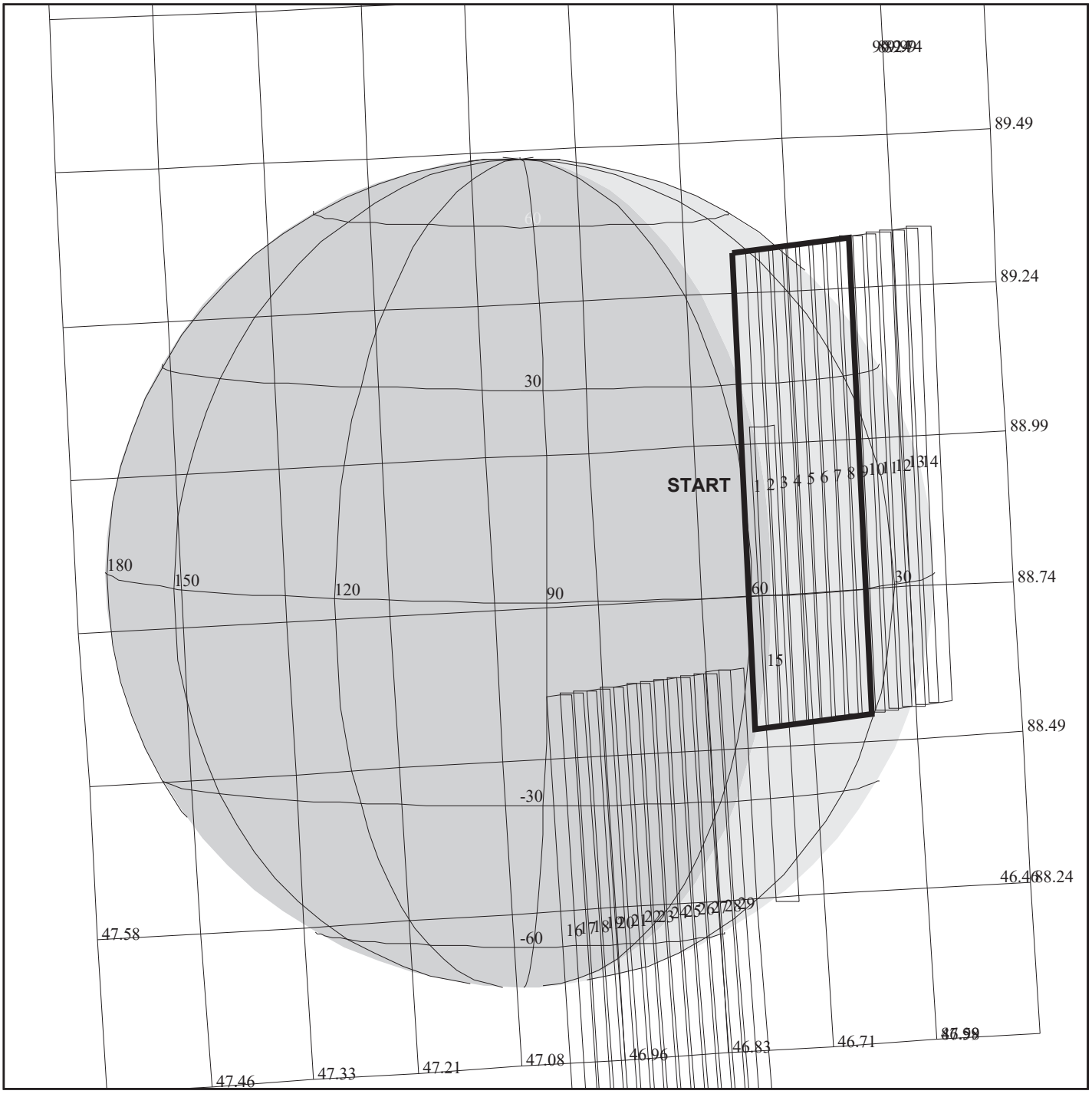
Design Detail

4 408 Real-Time spectra near Callisto’s limb on crescent Callisto.

Mirror Blocked (1B,1B) (11011,11011)
3 Rims Returned

Long Map (LM), Gain 4, Grating Start 0, R/T, CLM408

Galileo Activity Plan Form 01/21/97 14:44:54 rev 6/95



165FE:TT= 0 TMC= 1 C= -0.50 XC= 4.50 BS= 0/1091 TC= 3
A= 728 pD= 0 SR=17.450 RA50=173.23 DEC50= -1.95 cone= 47.02 clock= 89.15
117FE:#SB= 1 OR= 0.040 RR=12.000 BM=F RC= 1 BS= 0/1091
1:#s= 2 Cs= -9.60 XCs= 0.00 Cr= 8.00 XCr= -9.50 sD= 728 rD= 30

E6CNGLOBAL01

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6CNGLOBAL01

TARGET BODY : CALLISTO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS:

THINNING:NIM 2

START:CEE 97-053/22:54:51.866 -CDS 46:00:0

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

OBSERVATION:E6CNGLOBAL01

DESCRIP:CALLISTO GLOBAL OBSERVATION

Callisto Global Observation

ACTIVITY ID: E6CNGLOBAL01-
START TIME: 97-053/22:03:17.866

Activity ID: Orbit E6 Target C Inst N OAPEL GLOBAL SeqNo 01 -

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

Time System	CDS	Load ID	Calendar Date	02/22/97	Week 8

Start	CEE-CDS 00000051:00:0	97-053/22:03:17.866	CEE-000/00:51:34.000
End	CEE-CDS 00000037:00:0	97-053/22:17:27.200	CEE-000/00:37:24.666
Duration	00000014:00:0	000/00:14:09.334	000/00:14:09.334

Top Label	E6CNGLOBAL01-				
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

Obtain the best combined spatial and spectral resolution of Callisto's surface. Investigate mineralogy and determine the distribution of compositional units. This data set will be used for collaborative and comparative studies with the current IUE Callisto data set. It will also aid in determining which set of NIMS wavelengths will be returned in future orbits.

Data Returned

Design Detail

Continous slew mosaic, full disk at Callisto closest approach. Cover all lit longitudes and latitudes. The observation will contain 2 swaths with 20% overlap between scans. The instrument mode is LM, gain state is 4, spectral resolution is 204 wavelengths of return. The spatial resolution is 140 km/nimsel and the phase angle is 130.45 degrees.

Only first 2 Rims of data returned.

Long Map (LM), Gain 4, Grating Start 0, MPW, CLM442, CLM270

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NIMS Chopper Off

ACTIVITY ID: E6NCHOPOFF01-
START TIME: 97-053/22:26:33.200

Activity ID: Orbit E6 Target N Inst C OAPEL HOPOFF SeqNo 01 -

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

Time System	CDS	Load ID	Calendar Date	02/22/97	Week 8
Start	CEE-CDS 00000028:00:0	97-053/22:26:33.200		CEE-000/00:28:18.666	
End	CEE-CDS 00000018:00:0	97-053/22:36:39.866		CEE-000/00:18:12.000	
Duration	00000010:00:0	000/00:10:06.666		000/00:10:06.666	

Top Label	E6NCHOPOFF01-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	50	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

Turn off the NIMS Chopper to extend the Chopper's lifetime.

Design Detail

Use NIMSINIT with the following commands:

```
37IST,1,0,0,OFF,0,0,0;   Chopper 63 Hz
37IST,1,1,0,OFF,0,0,0;   Chopper Off
```

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NIMS RT RCT Calibration

ACTIVITY ID: E6NNRCTRLT01-
START TIME: 97-055/15:52:52.400

Activity ID: Orbit E6 Target N Inst N OAPEL RCTRLT SeqNo 01 -

Title	NIMS RT RCT Calibration			Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	Calendar Date	02/24/97	Week 8
Start	RTA-CDS	00000022:00:0	97-055/15:52:52.400	RTA-000/00:22:14.666	
End	RTA+CDS	00000765:00:0	97-056/05:08:37.066	RTA+000/12:53:30.000	
Duration		00000787:00:0	000/13:15:44.666	000/13:15:44.666	

Top Label	E6NNRCTRLT01-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	200	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

This observation is a NIMS radiometric calibration using the RCT target.
the data will be used to calibrate the NIMS thermal detectors.
The calibration data will be returned using Real-time Telemetry.
This calibration will take place after the +3 day OTM

Data Returned

Design Detail

This is a Library Sequence.

The Dark cone angle must be selected using Pointer.
1) Turn on RCT Heaters for 12 hours.
2) Set Engineering Variable Map to return NIMS Temps more frequently.
3) Set NIMS to Long Map Mode, Gain state 1, Chopper Reference,
Mirror Blocking (11011,11011), ETB=RCT252.
4) Pause playback before using scan platform.
5) Slew to Dark (cone = 119.7), return 1 grating cycle (12 mf) in R/T
6) Slew to RCT (cone = 0.0), return 2 grating cycles (12 mf) in R/T
7) Slew to Dark (cone = 119.7), return 1 grating cycle (12 mf) in R/T
8) Slew to Safe (cone = 153.0)
9) Set NIMS to Safe Mode and turn off Chopper.
10) Resume Playback after using scan platform.

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

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NIMS RT RCT Calibration

ACTIVITY ID: E6NNRCTRLT02-
START TIME: 97-074/01:38:07.467

Activity ID: Orbit E6 Target N Inst N OAPEL RCTRLT SeqNo 02 -

Title	NIMS RT RCT Calibration			Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	03/15/97 Week 11
Start	RTB-CDS	00000022:00:0	97-074/01:38:07.467		RTB-000/00:22:14.666
End	RTB+CDS	00000765:00:0	97-074/14:53:52.133		RTB+000/12:53:30.000
Duration		00000787:00:0	000/13:15:44.666		000/13:15:44.666

Top Label E6NNRCTRLT02-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	300	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.
This calibration will take place after the +3 day OTM

Data Returned

Design Detail

This is a Library Sequence.

The Dark cone angle must be selected using Pointer.
1) Turn on RCT Heaters for 12 hours.
2) Set Engineering Variable Map to return NIMS Temps more frequently.
3) Set NIMS to Long Map Mode, Gain state 1, Chopper Reference,
Mirror Blocking (11011,11011), ETB=RCT252.
4) Pause playback before using scan platform.
5) Slew to Dark (cone = 119.7), return 1 grating cycle (12 mf) in R/T
6) Slew to RCT (cone = 0.0), return 2 grating cycles (12 mf) in R/T
7) Slew to Dark (cone = 119.7), return 1 grating cycle (12 mf) in R/T
8) Slew to Safe (cone = 153.0)
9) Set NIMS to Safe Mode and turn off Chopper.
10) Resume Playback after using scan platform.

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

Galileo Activity Plan Form 01/21/97 14:44:55 rev 6/95 f

E6 NIMS DET3 CHK

ACTIVITY ID: E6NNDET3CHK1-
START TIME: 97-078/16:48:00.000

Activity ID: Orbit E6 Target N Inst N OAPEL DET3CHK SeqNo 01 -

Title	E6 NIMS DET 3 CHK	Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team NIMS Working Group	SWG

Time System	CDS	Load ID	Calendar Date	03/27/97	Week 13

Start	97-078/16:48:00.000
End	97-078/16:59:00.000
Duration	000/00:11:00.000

Top Label	E6NNDET3CHK1				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	0	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

To verify that Detector 3 is really dead.

Design Detail

Long Map
Gain State 2
Mirror Block 1B,1B (11011,11011) (select mirror positions 8-11)
ETB selects Detectors 2, 3 and 4 only.
NIMS is selected in Real Time for 2 Rims.
Three Long Map grating cycles returned.

Long Map (LM), Gain 2, Grating Start 0, R/T, DET234

Galileo Activity Plan Form 01/21/97 14:44:55 rev 6/95

E6 NIMS OPCAL

ACTIVITY ID: E6NNOPCAL_01-
START TIME: 97-086/00:07:01.999

Activity ID: Orbit E6 Target N Inst N OAPEL OPCAL_ SeqNo 01 -

Title	E6 NIMS OPCAL			Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	03/27/97 Week 13
Start	EEE+CDS 00048841:00:0	97-086/00:07:01.999		EEE+034/07:03:40.666	
End	EEE+CDS 00048860:00:0	97-086/00:26:14.666		EEE+034/07:22:53.333	
Duration	00000019:00:0	000/00:19:12.667		000/00:19:12.667	

Top Label E6NNOPCAL_01
Bottom Label

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

Observation Objective

To perform an Optical Calibration of the NIMS instrument at the end of the E6 orbit just before the start of the G7 Encounter.

Data Returned

Design Detail

Long Map
Gain State 4
Mirror Block 1B,1B (11011,11011) (select mirror positions 8-11)
ETB selects Detectors 1 and 2 only.
NIMS is selected in Real Time for 3 Rims.
Three Long Map grating cycles returned.
OPCAL lamp is turned at Rims 1 and 3.
Rims 2 is Dark.

Long Map (LM), Gain 4, Grating Start 0, R/T, OPCAL120

Galileo Activity Plan Form 01/21/97 14:44:55 rev 6/95

Chapter 6 - Edit Tables

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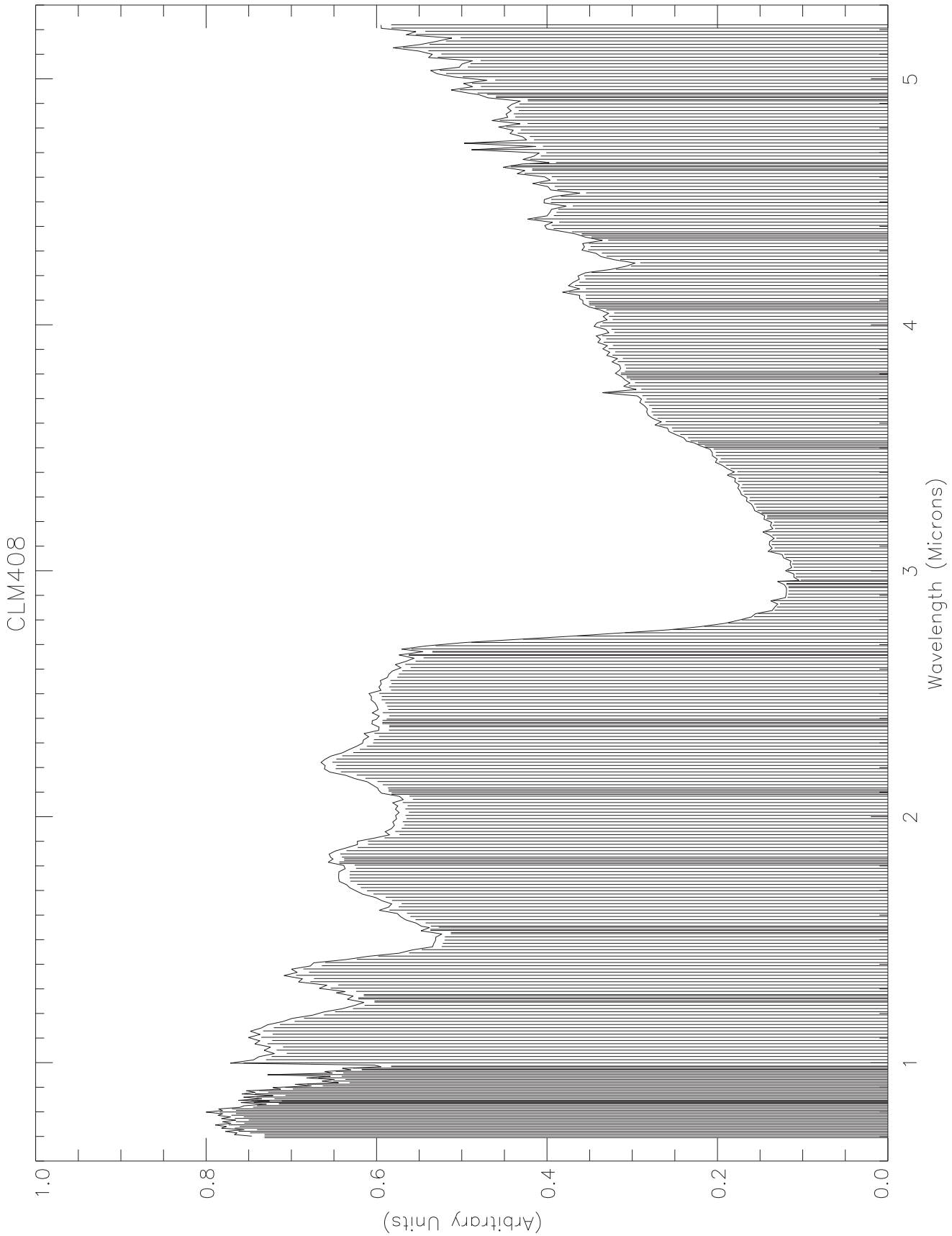
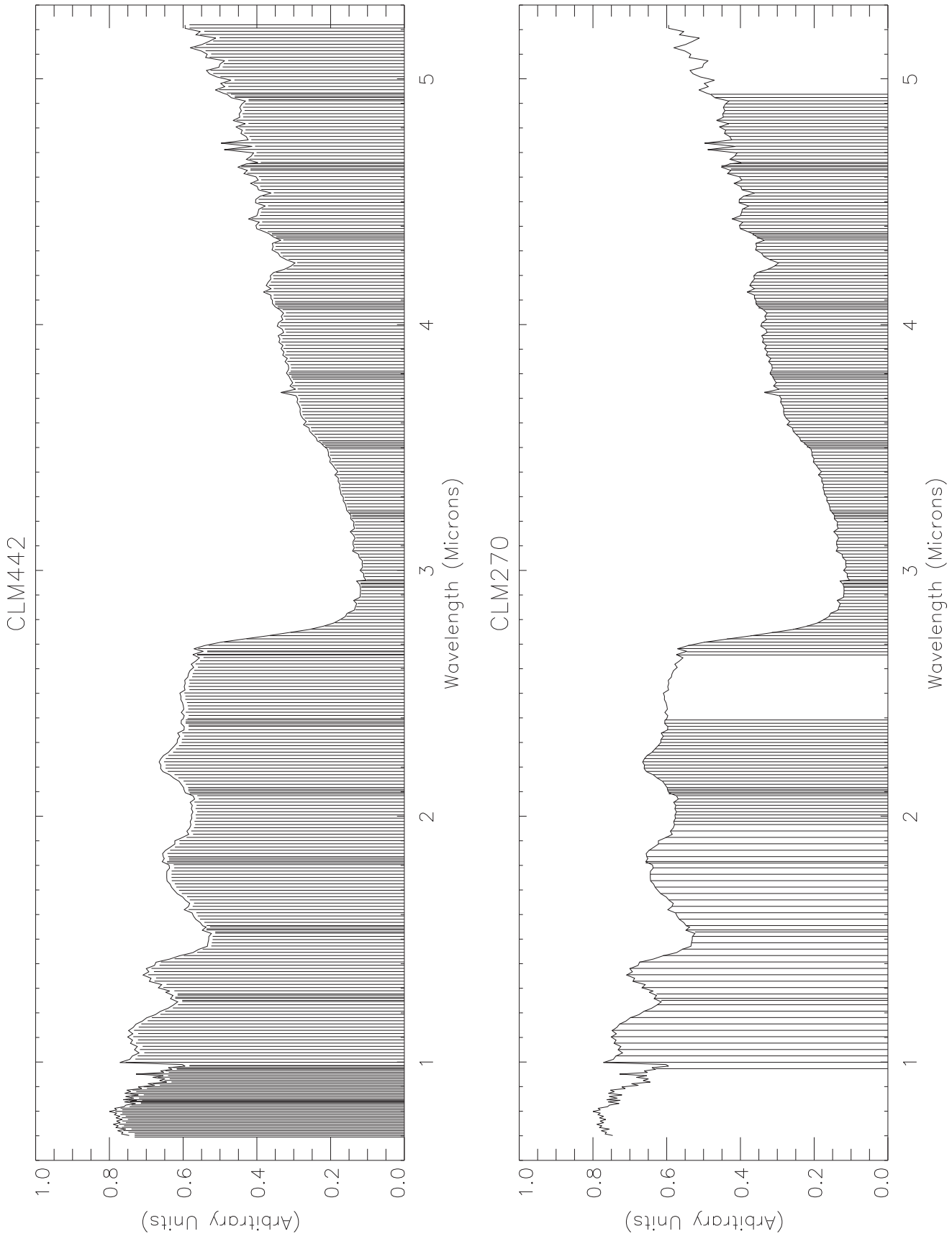
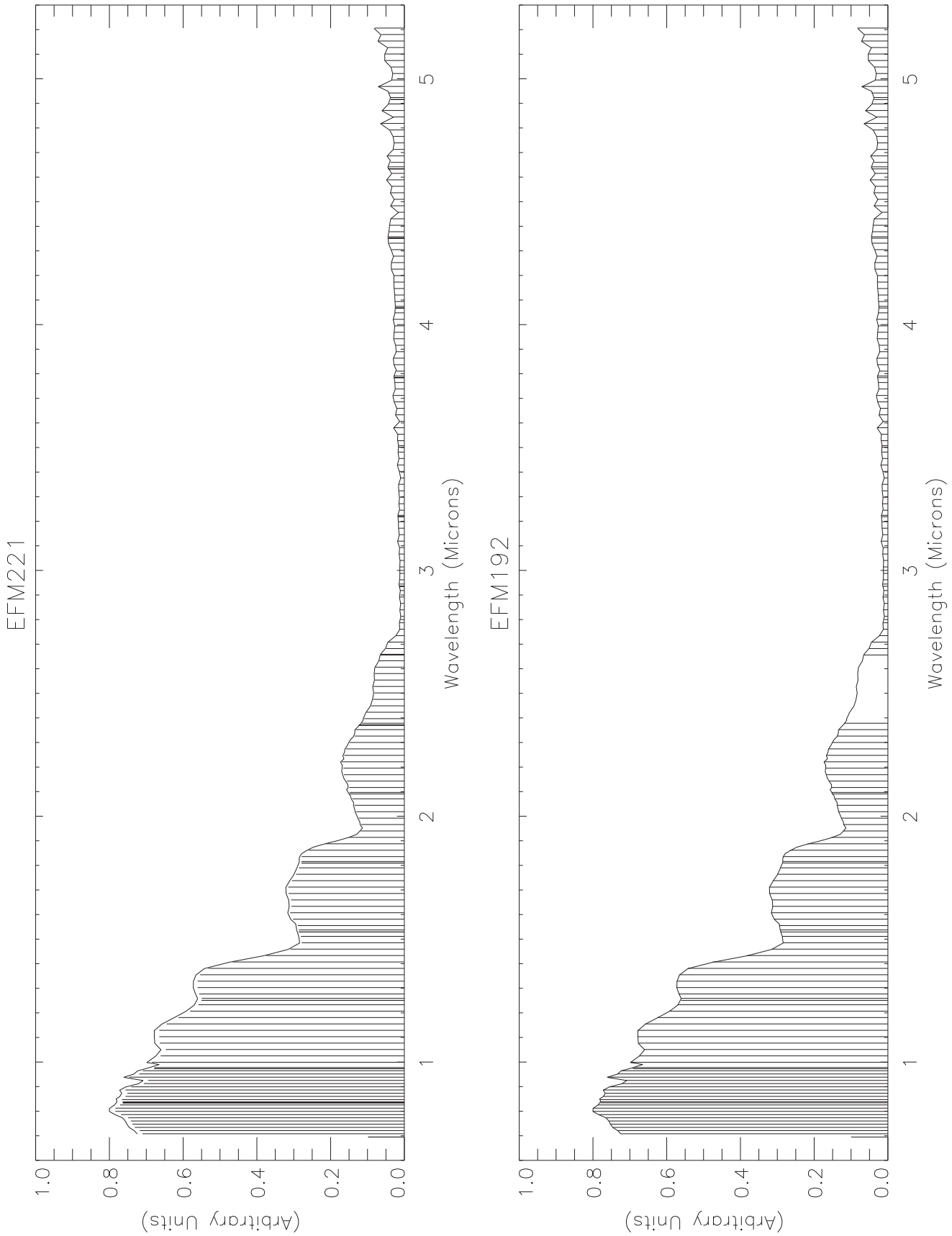
Introduction to Chapter 6

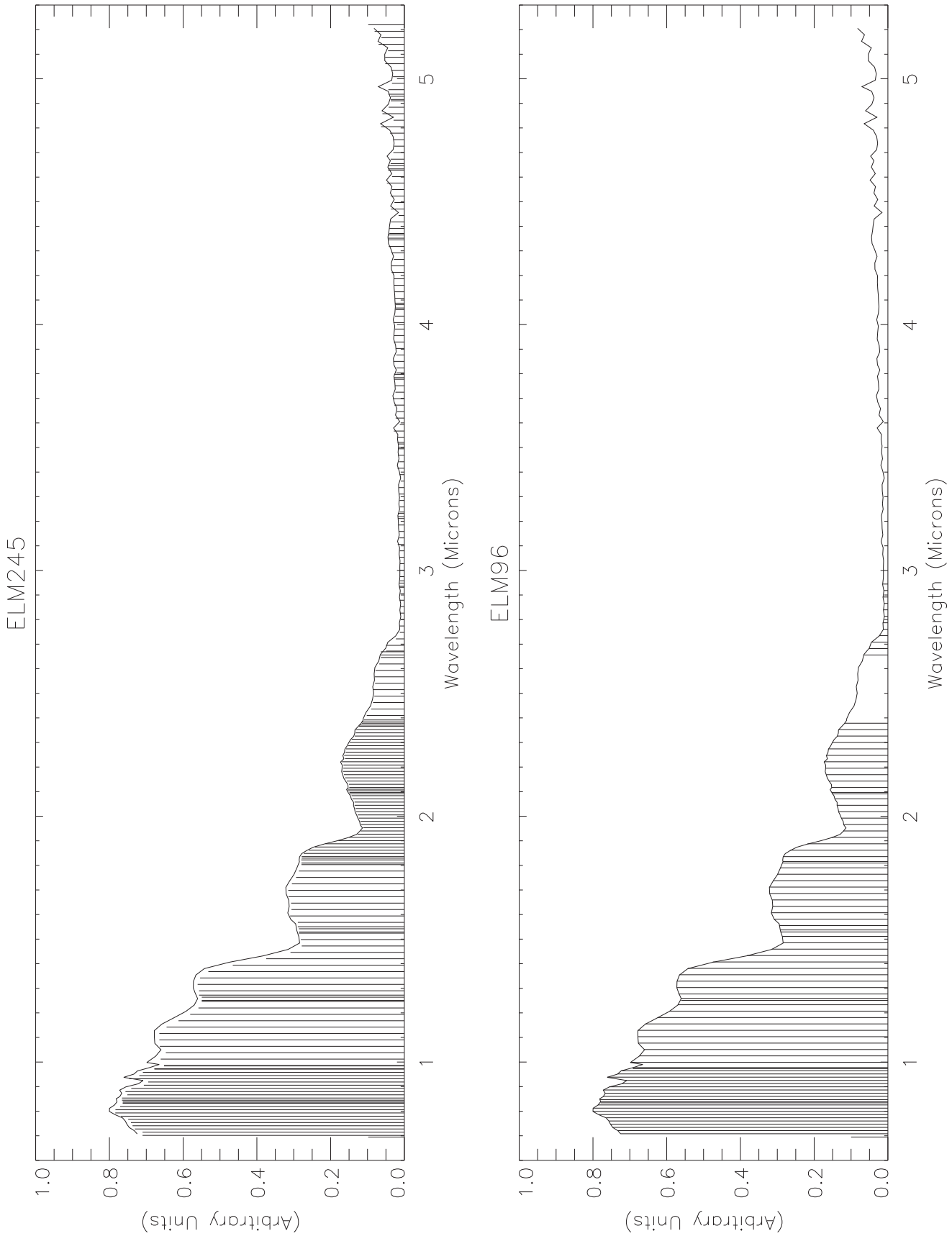
NIMS Edit Table Plots

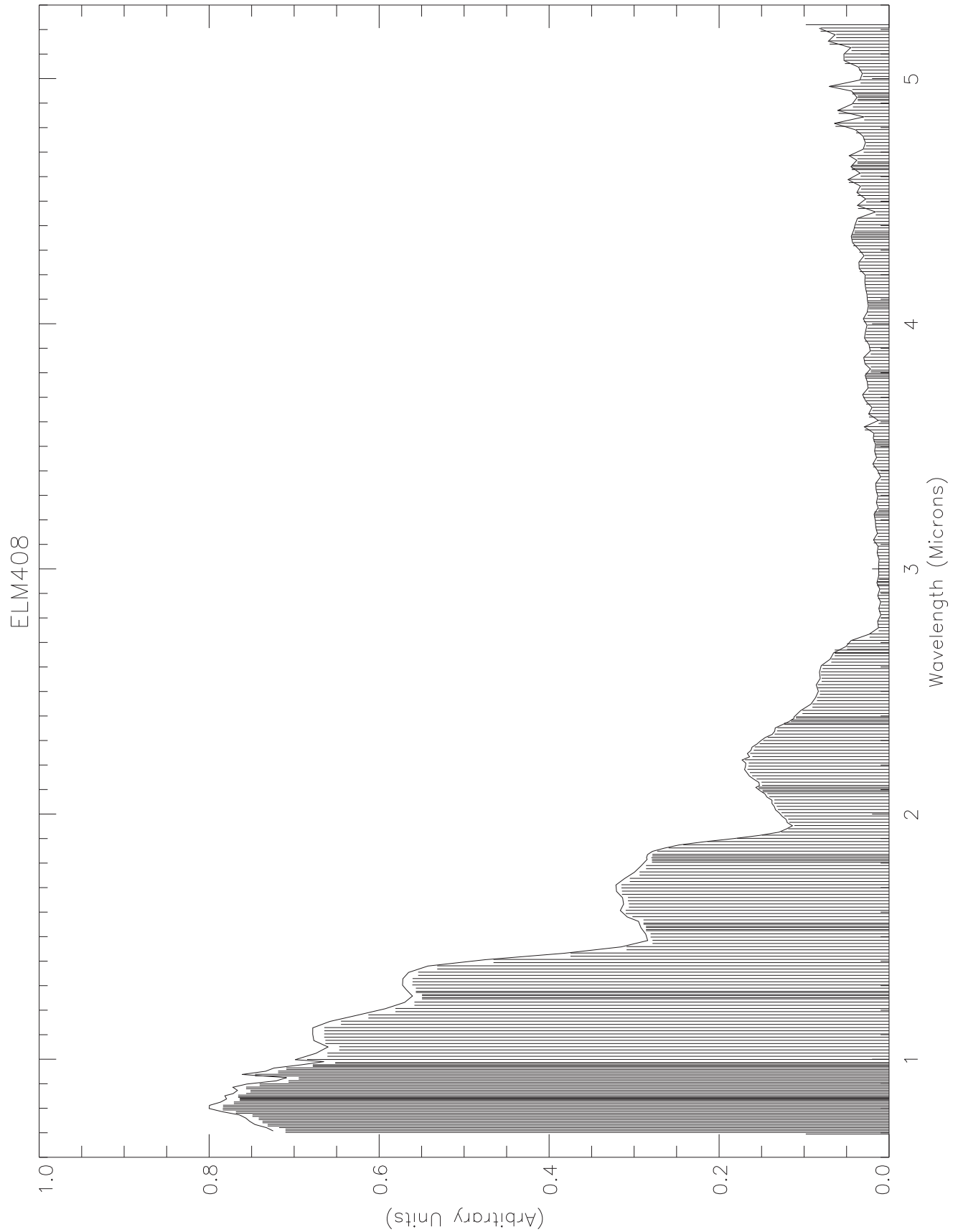
This chapter contains plots of the NIMS Edit Tables used in E6. The representative spectra used in these plots are observational reference spectra for the target body as obtained from telescopic observations from the Earth. Each reference spectrum is a composite of multiple published sources. Vertical lines below the reference curves mark the wavelengths selected for return. Where no spectral information is available, the selected wavelengths are shown as lines with amplitude equal to .05 on the vertical axis.

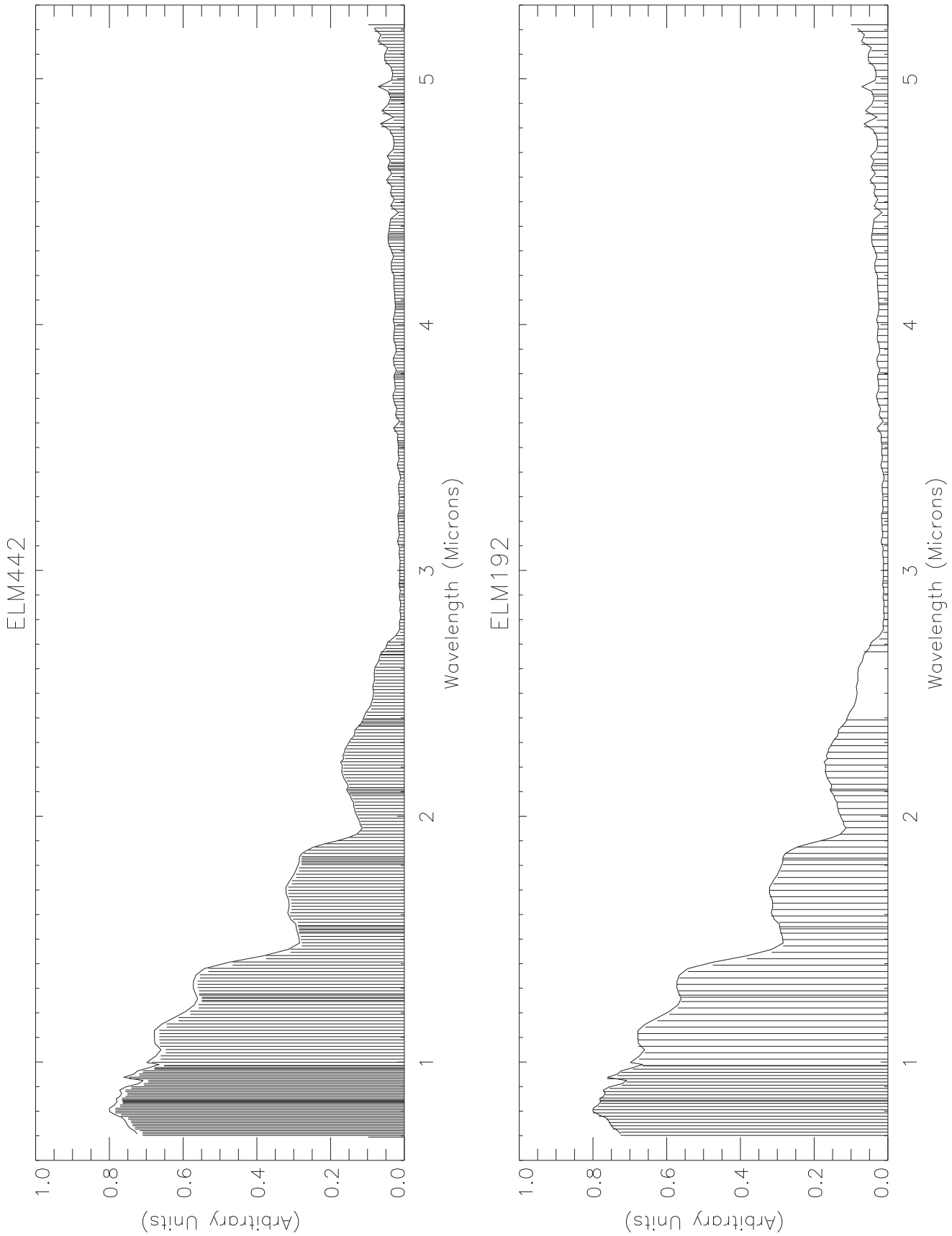

CLM408
(Arbitrary Units)
1.0
0.8
0.6
0.4
0.2
0.0
1
2
3
4
5
Wavelength (Microns)

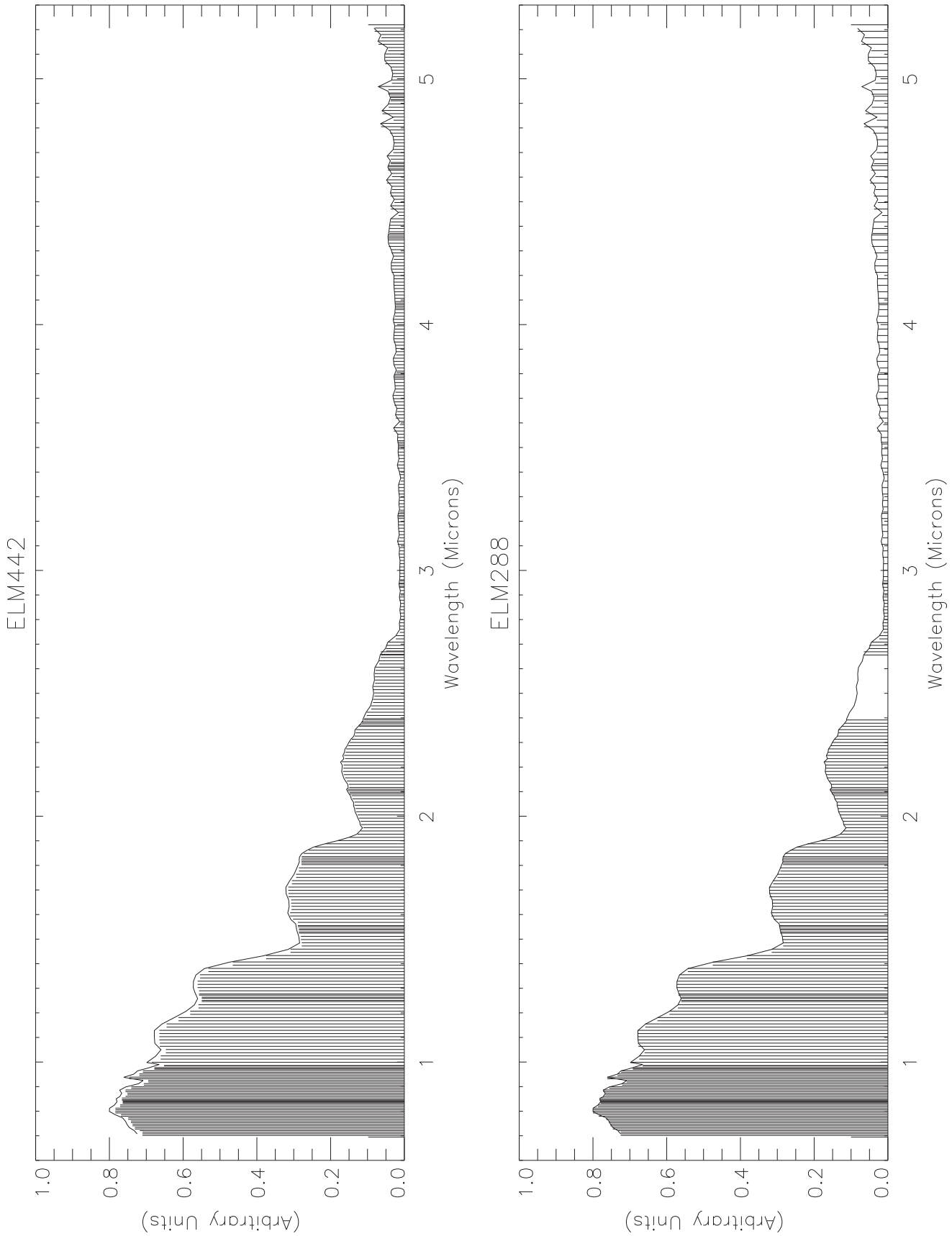

CLM442
CLM270
(Arbitrary Units)
Wavelength (Microns)
0.0
0.2
0.4
0.6
0.8
1.0
1
2
3
4
5

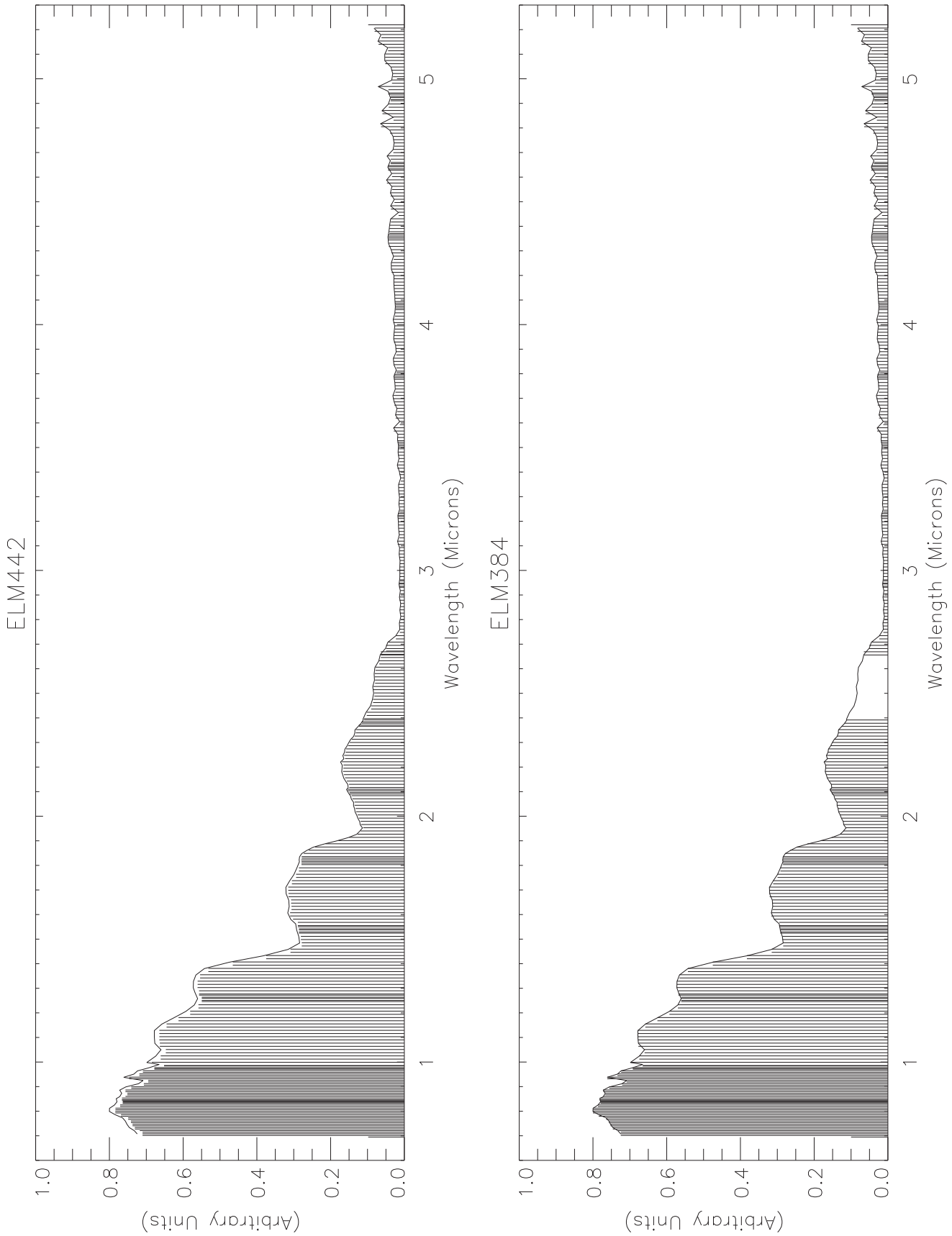

EFM221
EFM192
(Arbitrary Units)
Wavelength (Microns)
0.0
0.2
0.4
0.6
0.8
1.0
1
2
3
4
5

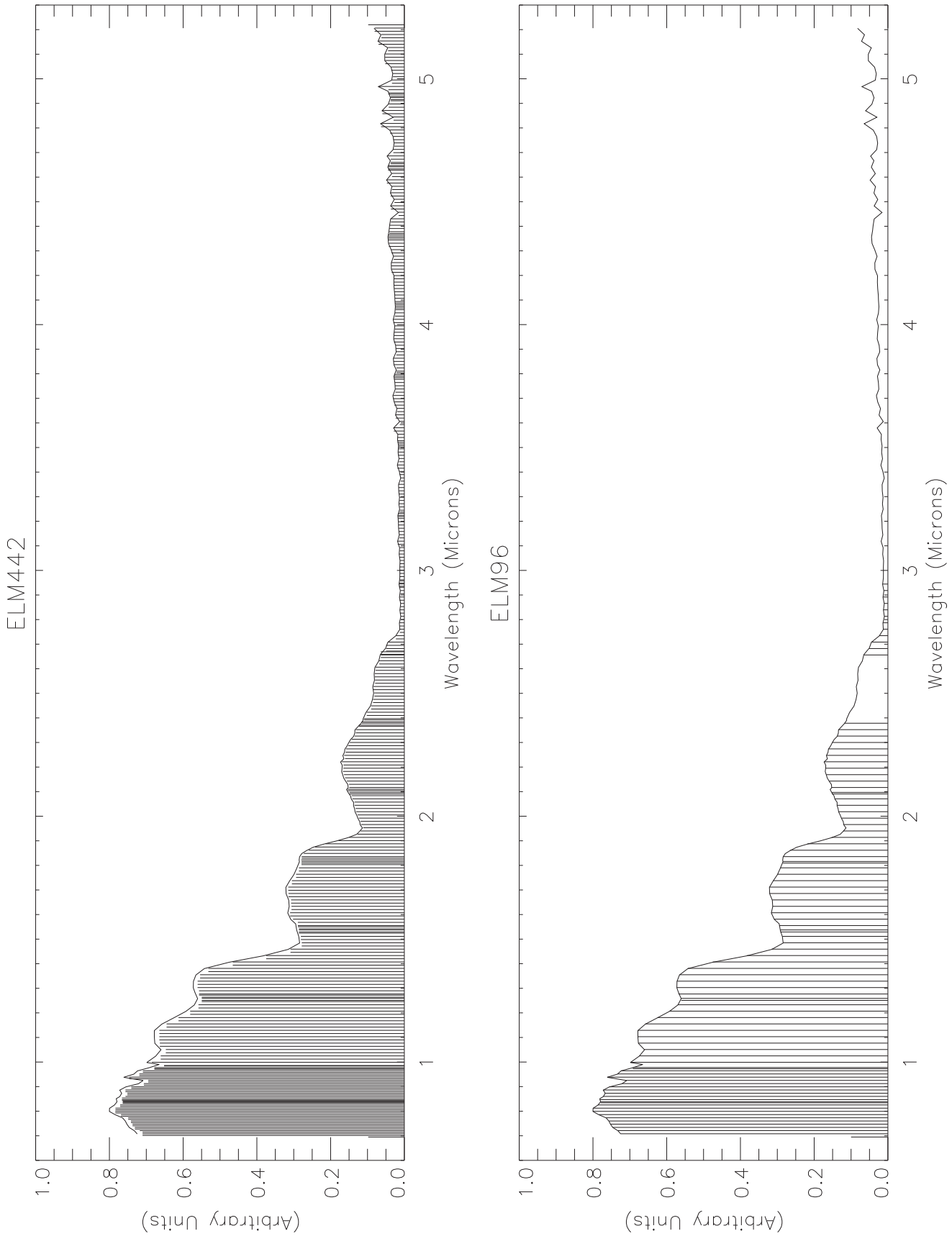

ELM245
ELM96
(Arbitrary Units)
Wavelength (Microns)
0.0
0.2
0.4
0.6
0.8
1.0
1
2
3
4
5

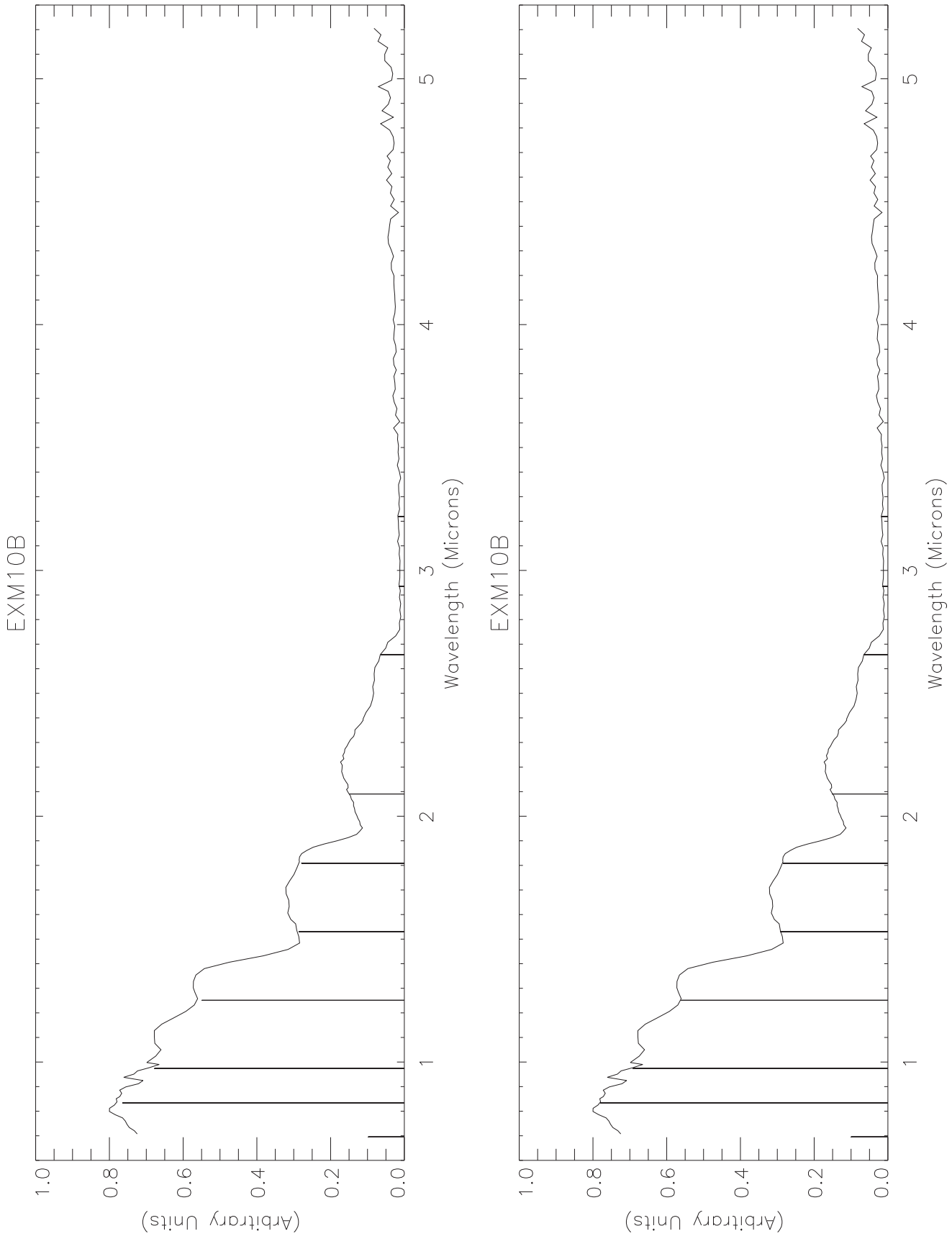

ELM408
(Arbitrary Units)
1.0
0.8
0.6
0.4
0.2
0.0
1
2
3
4
5
Wavelength (Microns)


ELM442
ELM192
(Arbitrary Units)
Wavelength (Microns)
0.0
0.2
0.4
0.6
0.8
1.0
1
2
3
4
5


ELM442
(Arbitrary Units)
1.0
0.8
0.6
0.4
0.2
0.0
1
2
3
4
5
Wavelength (Microns)
ELM288
(Arbitrary Units)
1.0
0.8
0.6
0.4
0.2
0.0
1
2
3
4
5
Wavelength (Microns)


ELM442
ELM384
(Arbitrary Units)
Wavelength (Microns)
0.0
0.2
0.4
0.6
0.8
1.0
1
2
3
4
5


ELM442
ELM96
(Arbitrary Units)
Wavelength (Microns)
0.0
0.2
0.4
0.6
0.8
1.0
1
2
3
4
5


EXM10B
(Arbitrary Units)
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0.8
0.6
0.4
0.2
0.0
1
2
3
4
5
Wavelength (Microns)
EXM10B
(Arbitrary Units)
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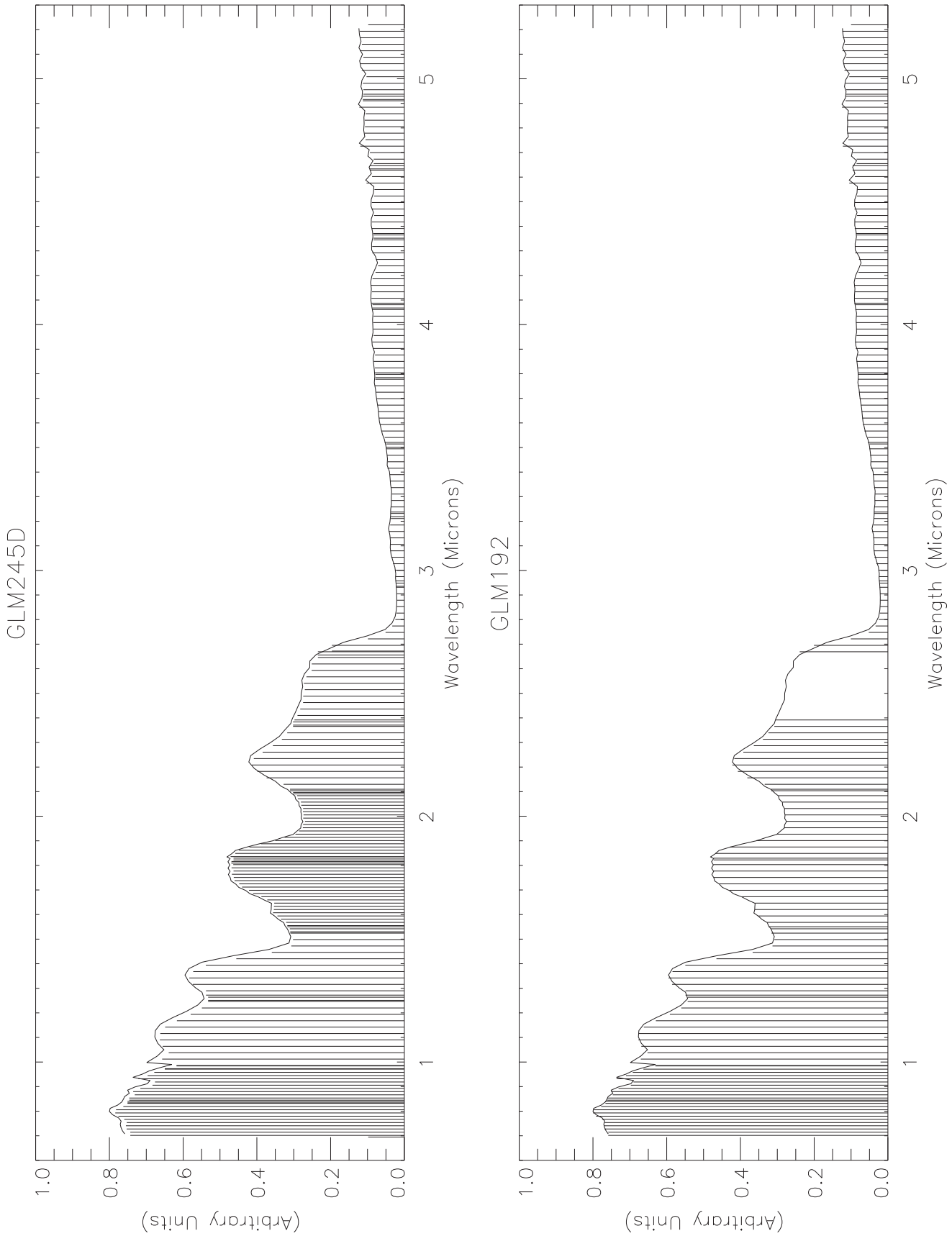
0.8
0.6
0.4
0.2
0.0
1
2
3
4
5
Wavelength (Microns)


GLM245D
GLM192
(Arbitrary Units)
Wavelength (Microns)
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0.4
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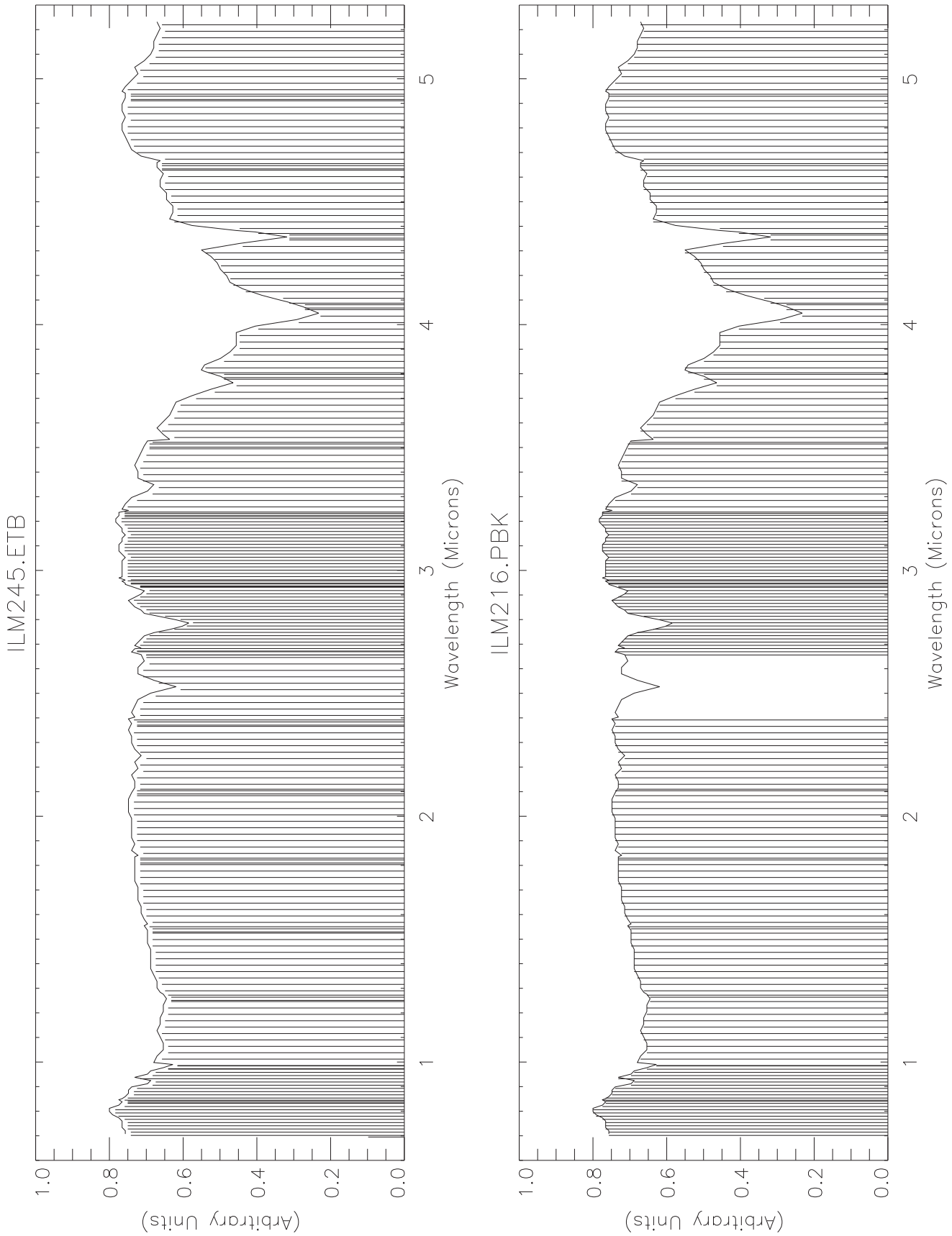
2
3
4
5


ILM245.ETB
(Arbitrary Units)
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2
3
4
5
Wavelength (Microns)
ILM216.PBK
(Arbitrary Units)
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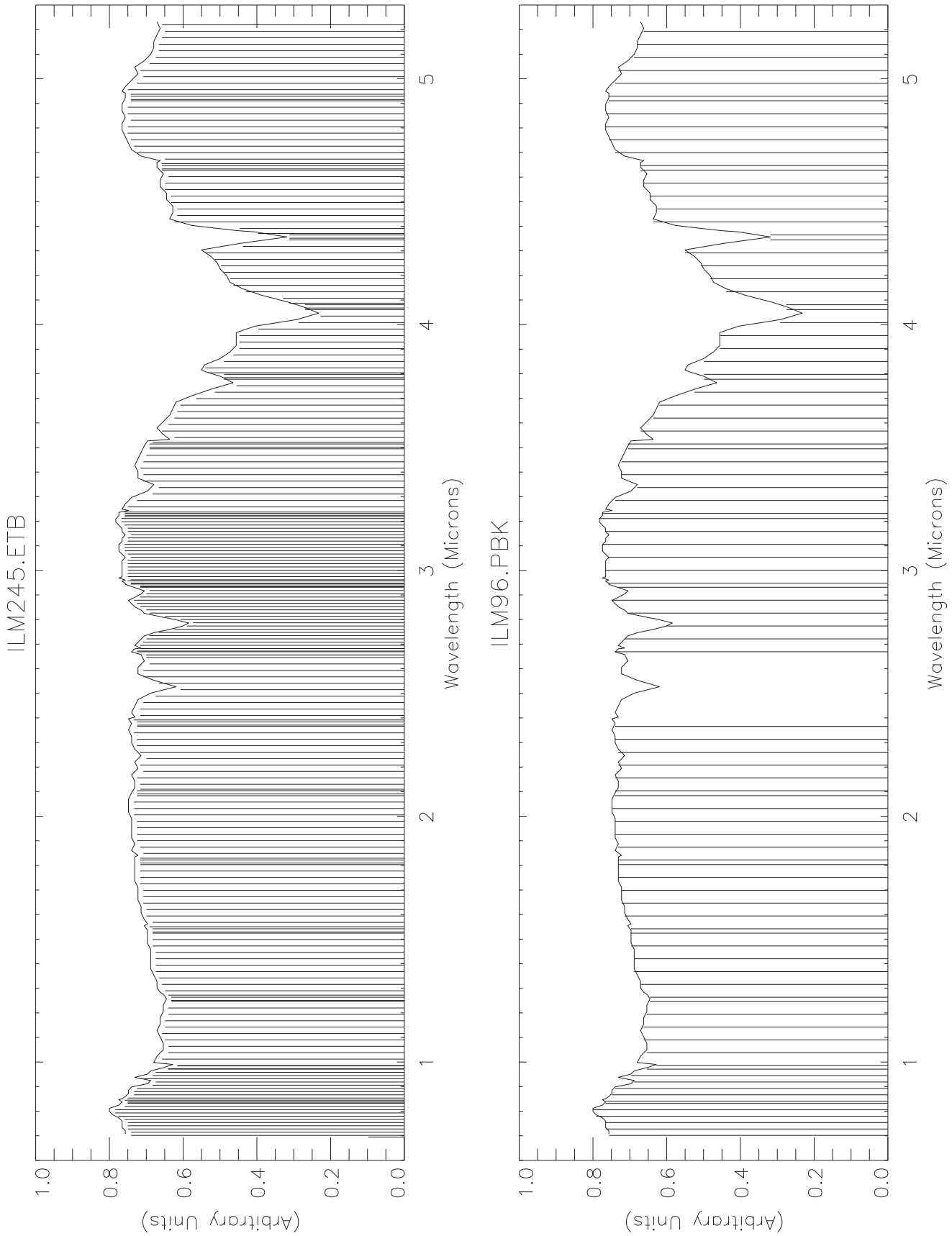
1
2
3
4
5
Wavelength (Microns)


ILM245.ETB
ILM96.PBK
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Wavelength (Microns)
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0.6
0.8
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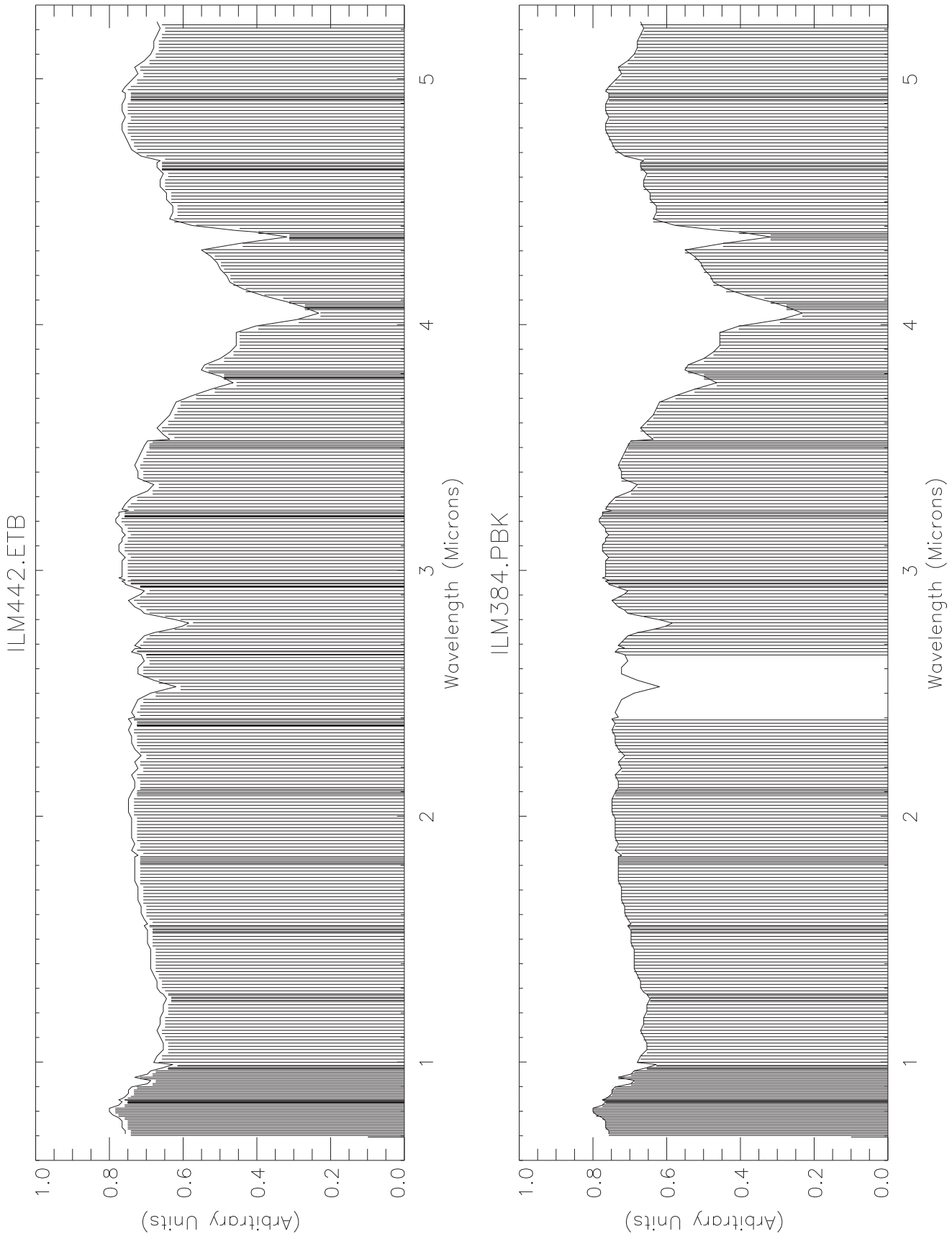
1
2
3
4
5


ILM442.ETB
ILM384.PBK
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Wavelength (Microns)
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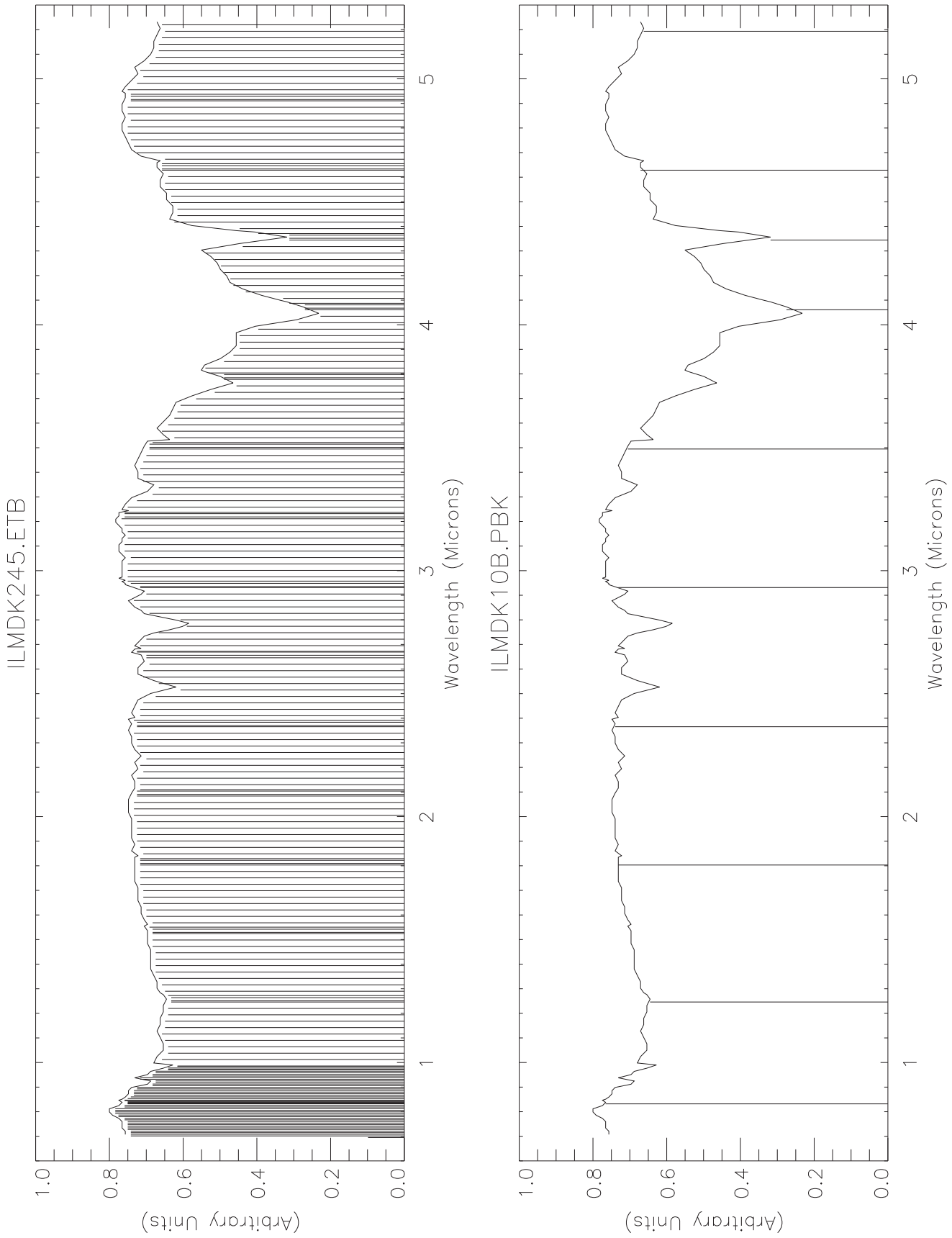
1
2
3
4
5


ILMDK245.ETB
ILMDK10B.PBK
(Arbitrary Units)
Wavelength (Microns)
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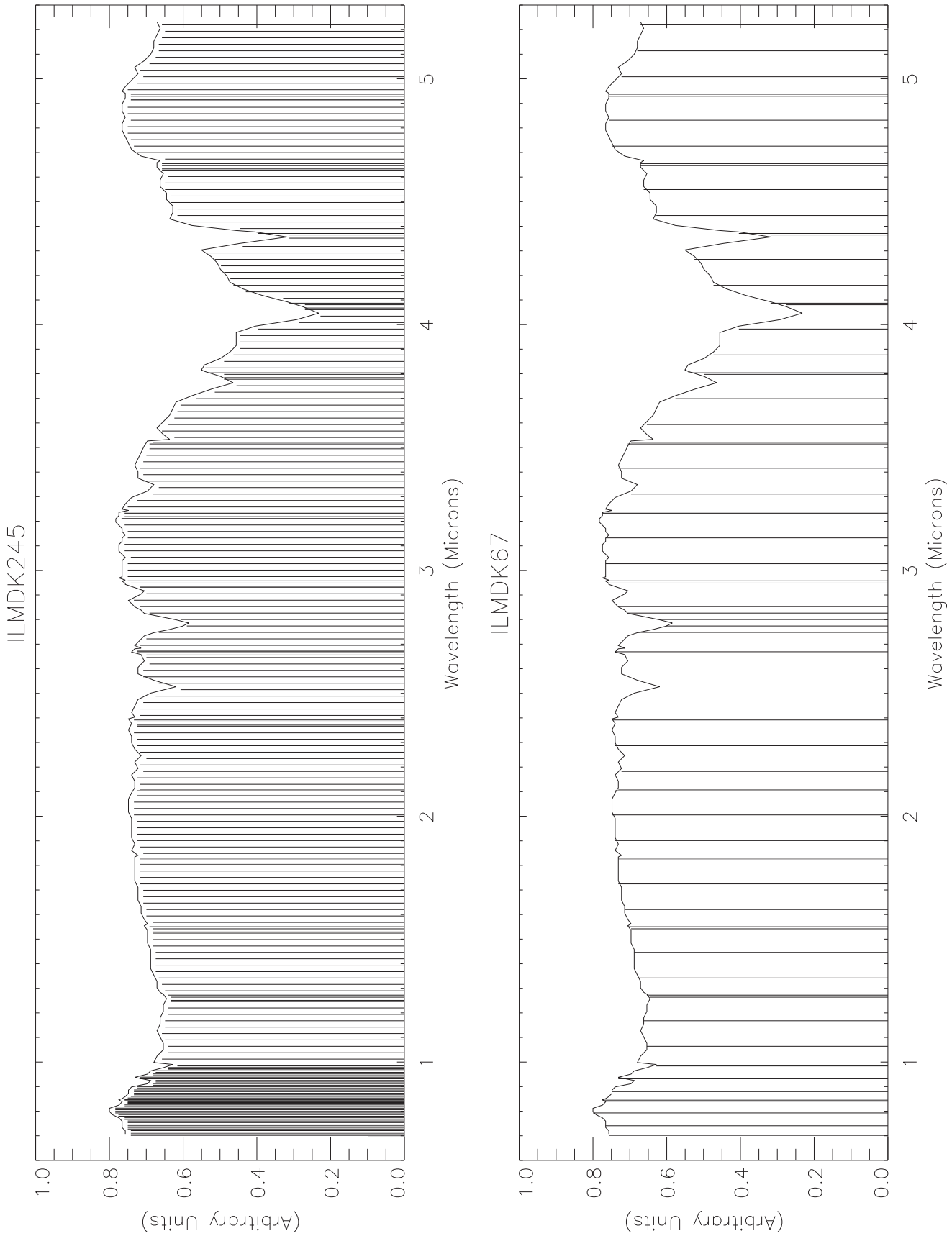
0.8
1.0
1
2
3
4
5


ILMDK245
(Arbitrary Units)
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0.6
0.4
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1
2
3
4
5
Wavelength (Microns)
ILMDK67
(Arbitrary Units)
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0.6
0.4
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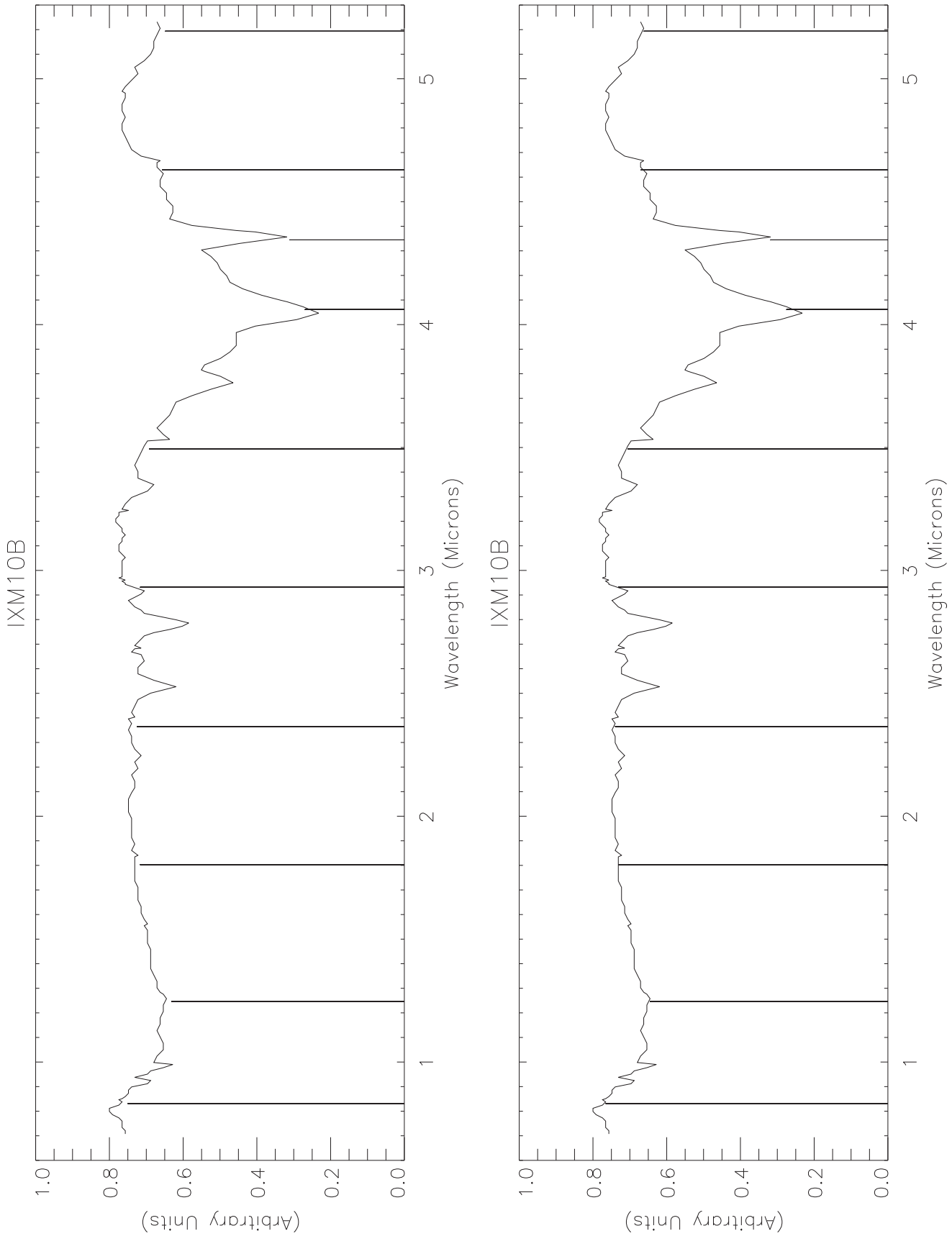
1
2
3
4
5
Wavelength (Microns)


IXM10B
(Arbitrary Units)
1.0
0.8
0.6
0.4
0.2
0.0
1
2
3
4
5
Wavelength (Microns)
IXM10B
(Arbitrary Units)
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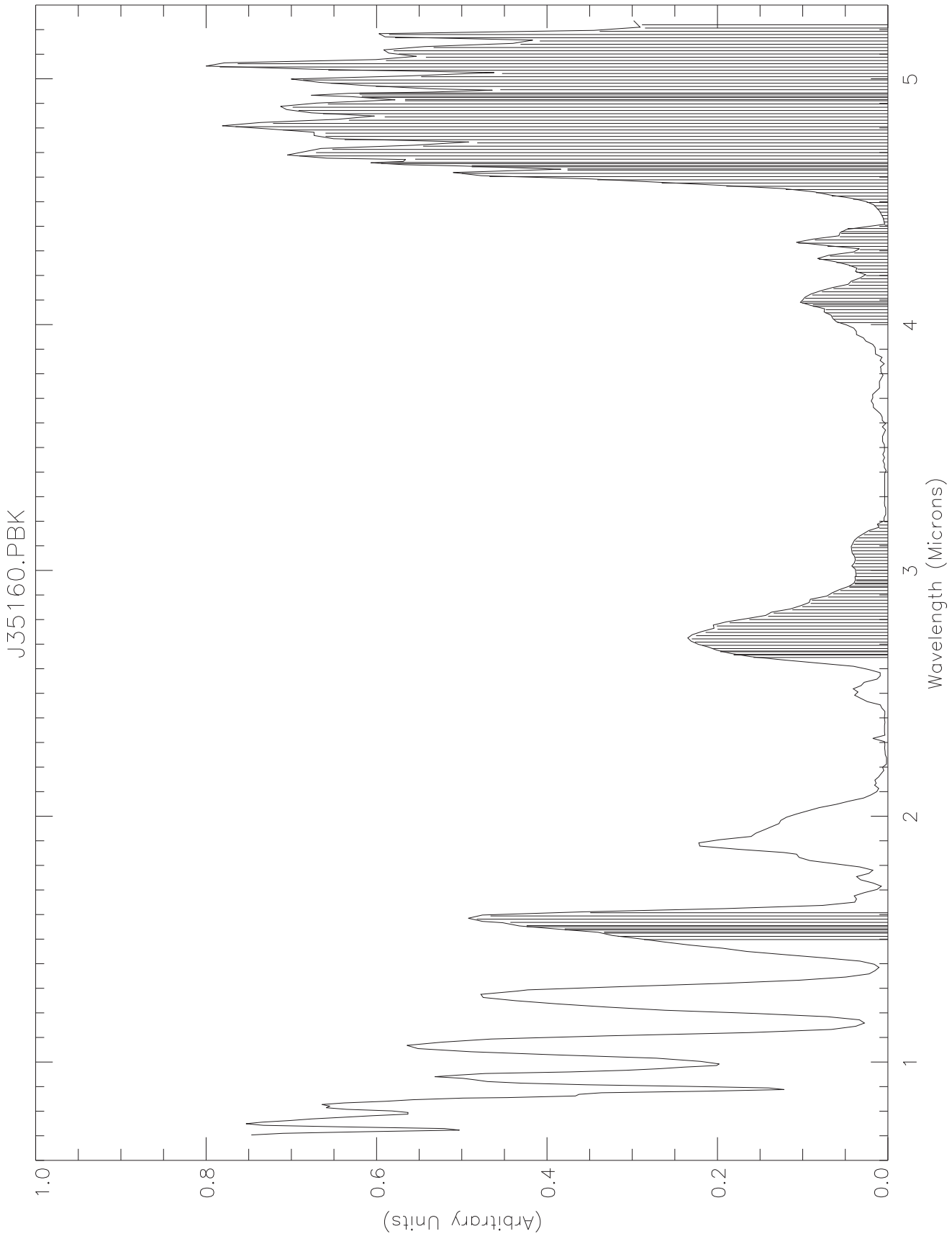
0.8
0.6
0.4
0.2
0.0
1
2
3
4
5
Wavelength (Microns)


J35160.PBK
(Arbitrary Units)
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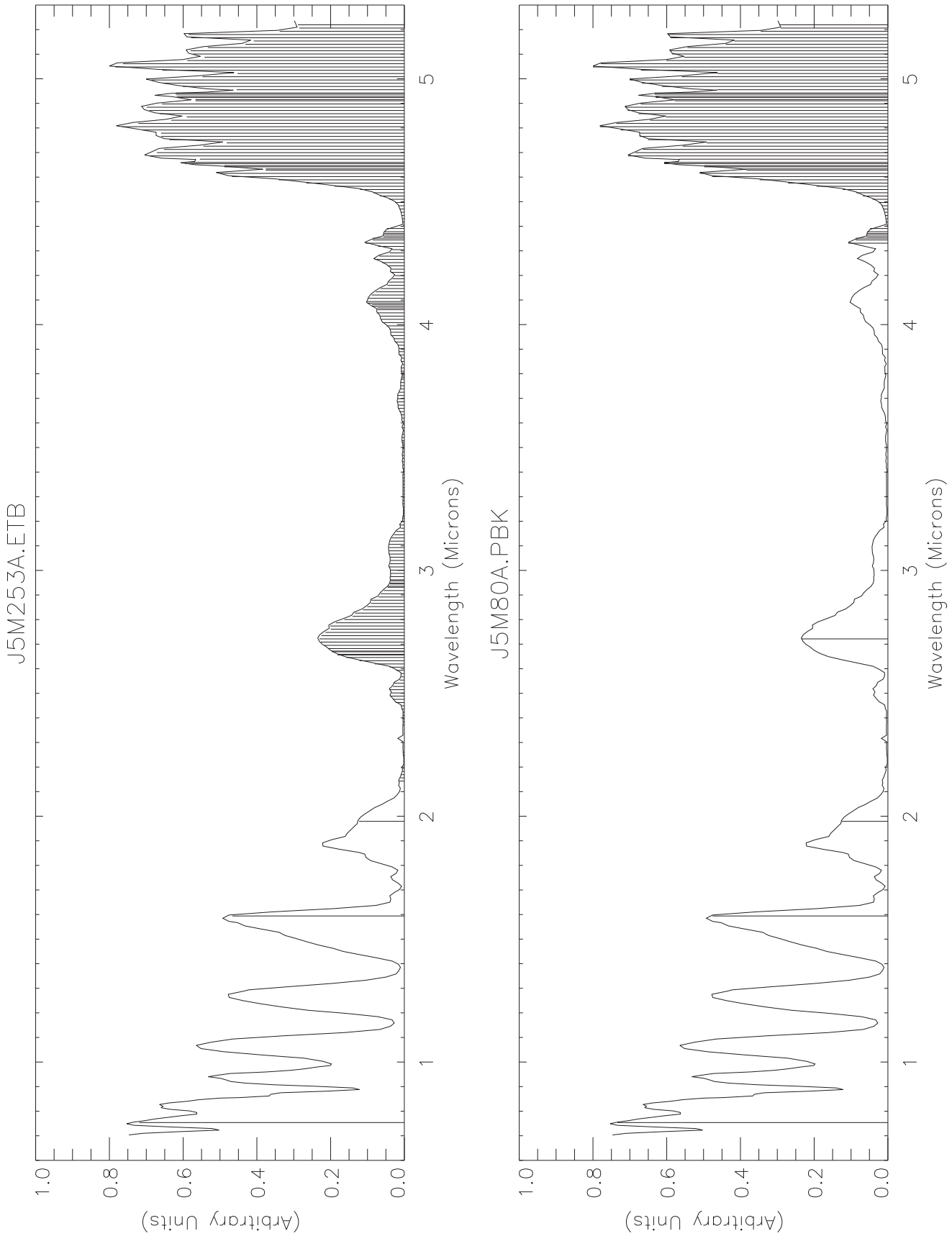
0.8
0.6
0.4
0.2
0.0
1
2
3
4
5
Wavelength (Microns)


J5M253A.ETB
J5M80A.PBK
(Arbitrary Units)
Wavelength (Microns)
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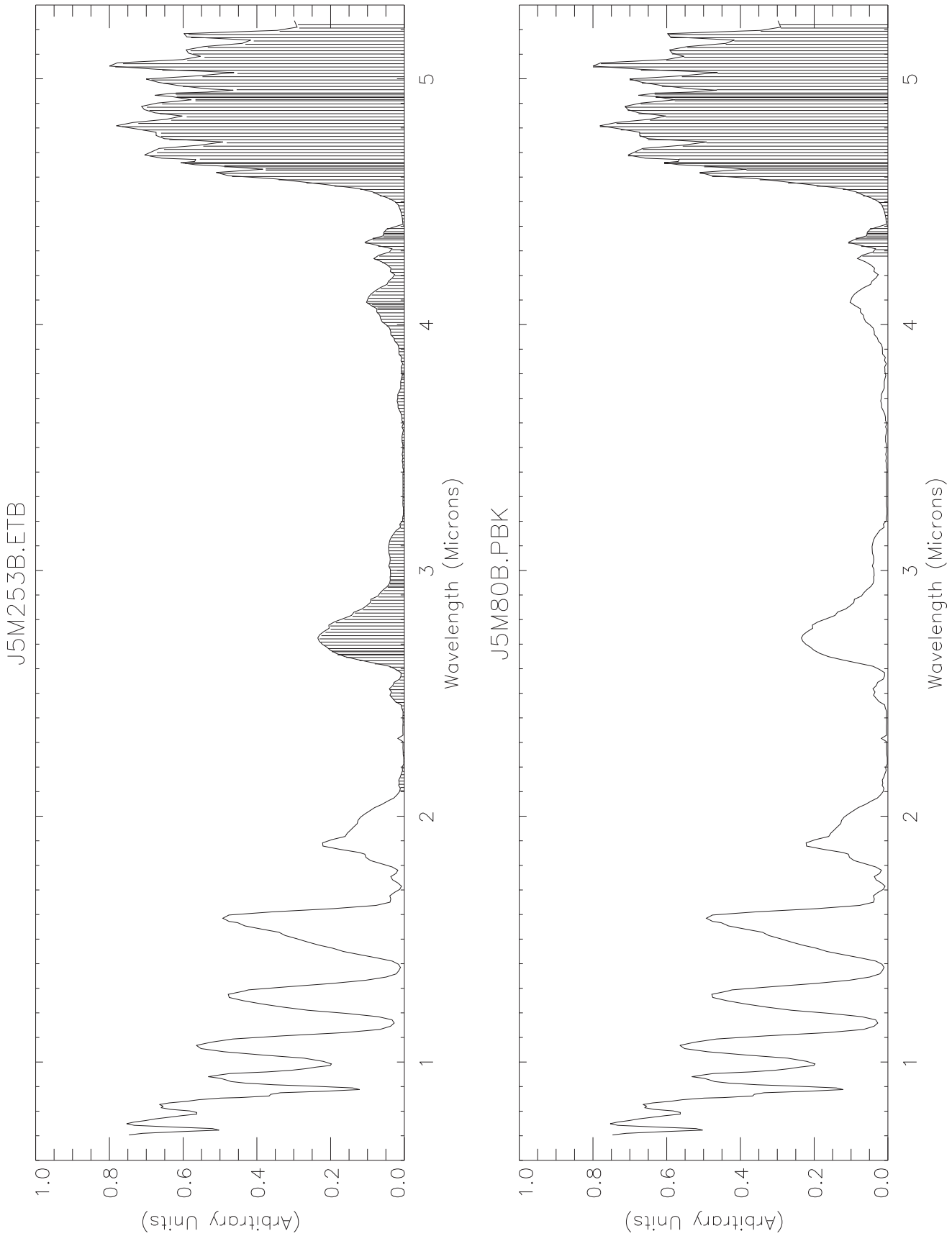
0.4
0.6
0.8
1.0
1
2
3
4
5


J5M253B.ETB
J5M80B.PBK
(Arbitrary Units)
Wavelength (Microns)
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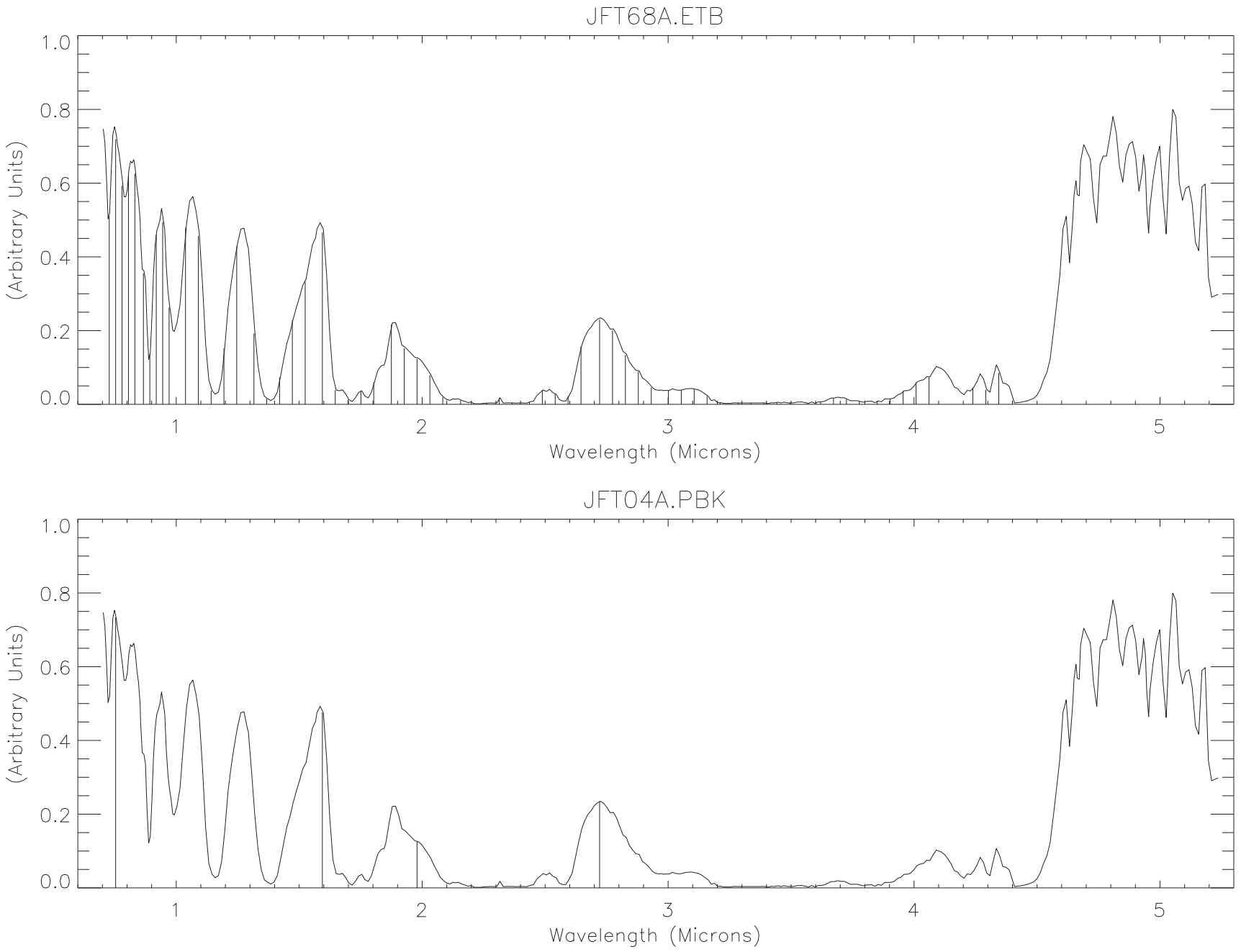
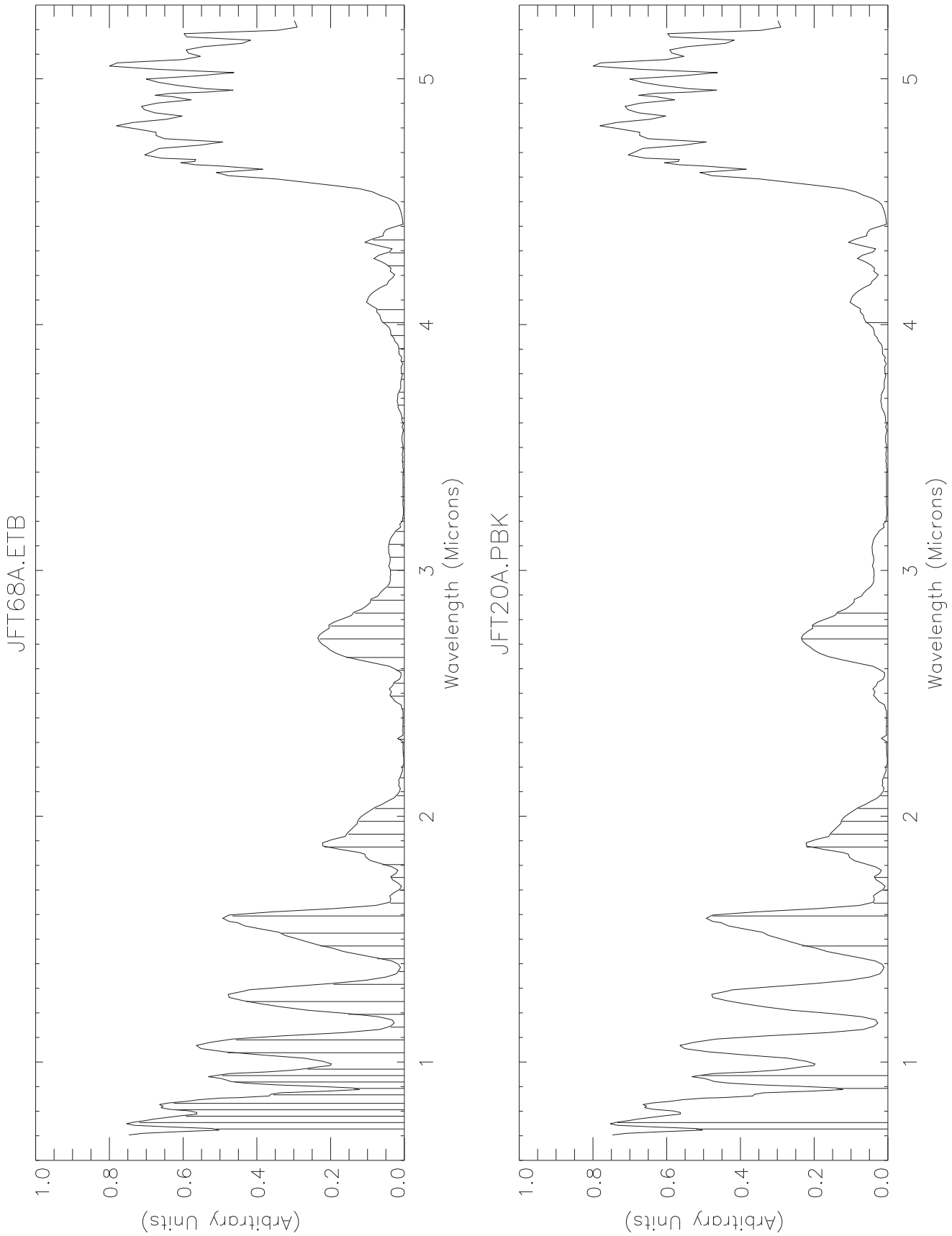
0.4
0.6
0.8
1.0
1
2
3
4
5


JFT68A.ETB
1.0
0.8
0.6
0.4
0.2
0.0
(Arbitrary Units)
1
2
3
4
5
Wavelength (Microns)
JFT04A.PBK
1.0
0.8
0.6
0.4
0.2
0.0
(Arbitrary Units)
1
2
3
4
5
Wavelength (Microns)


JFT68A.ETB
JFT20A.PBK
(Arbitrary Units)
Wavelength (Microns)
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0.4
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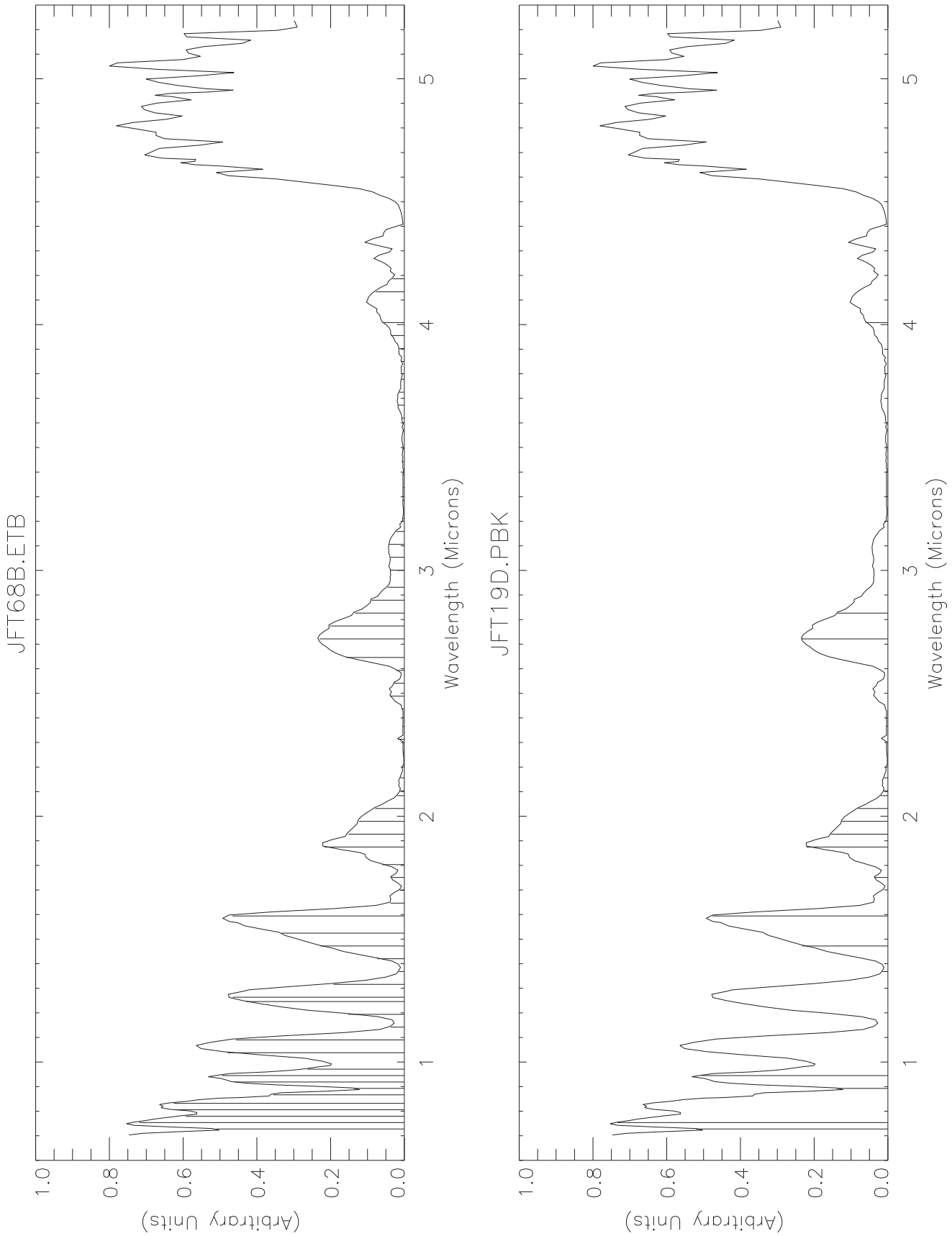
0.8
1.0
1
2
3
4
5


JFT68B.ETB
JFT19D.PBK
(Arbitrary Units)
Wavelength (Microns)
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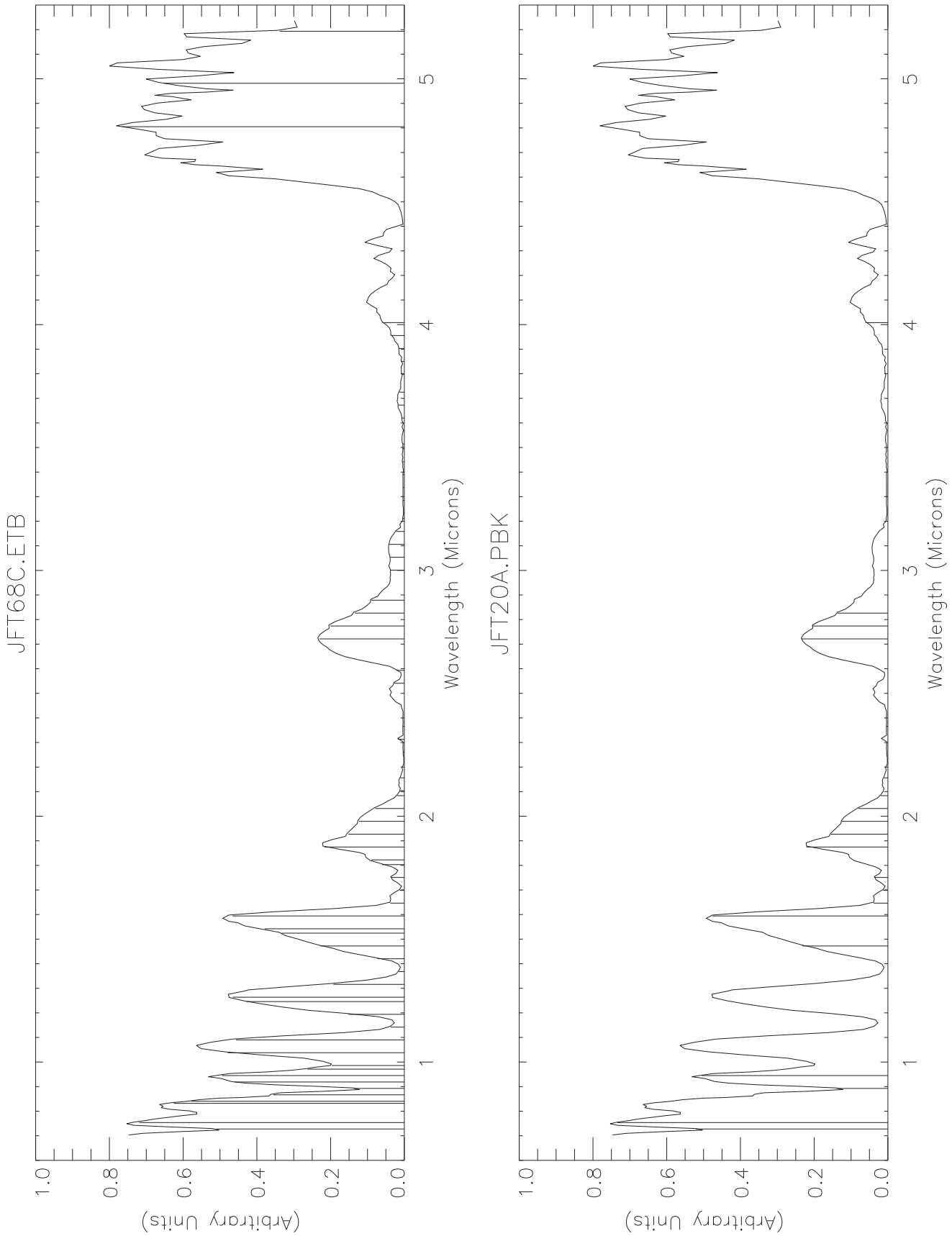
0.4
0.6
0.8
1.0
1
2
3
4
5


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)
JFT20A.PBK
(Arbitrary Units)
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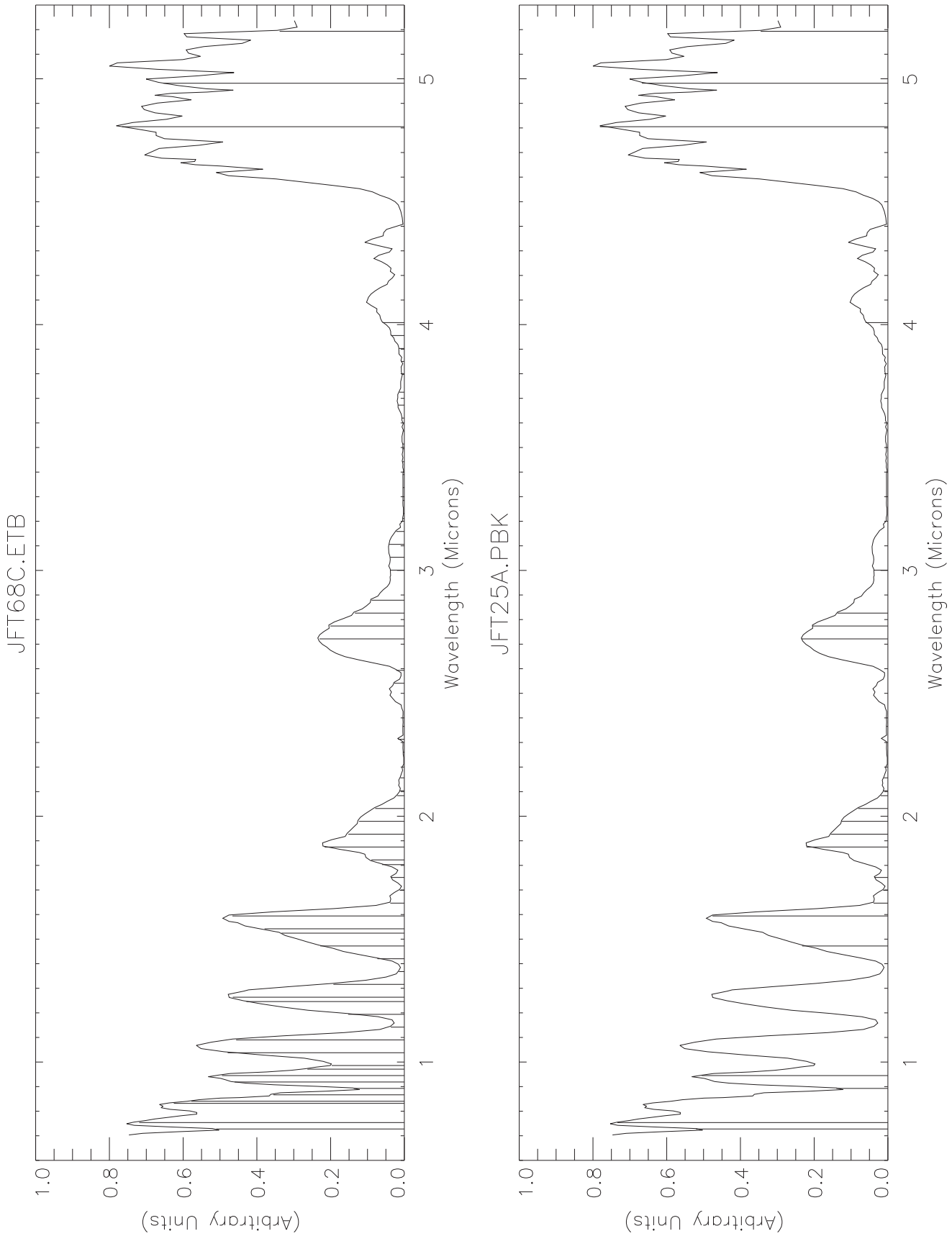
0.8
0.6
0.4
0.2
0.0
1
2
3
4
5
Wavelength (Microns)


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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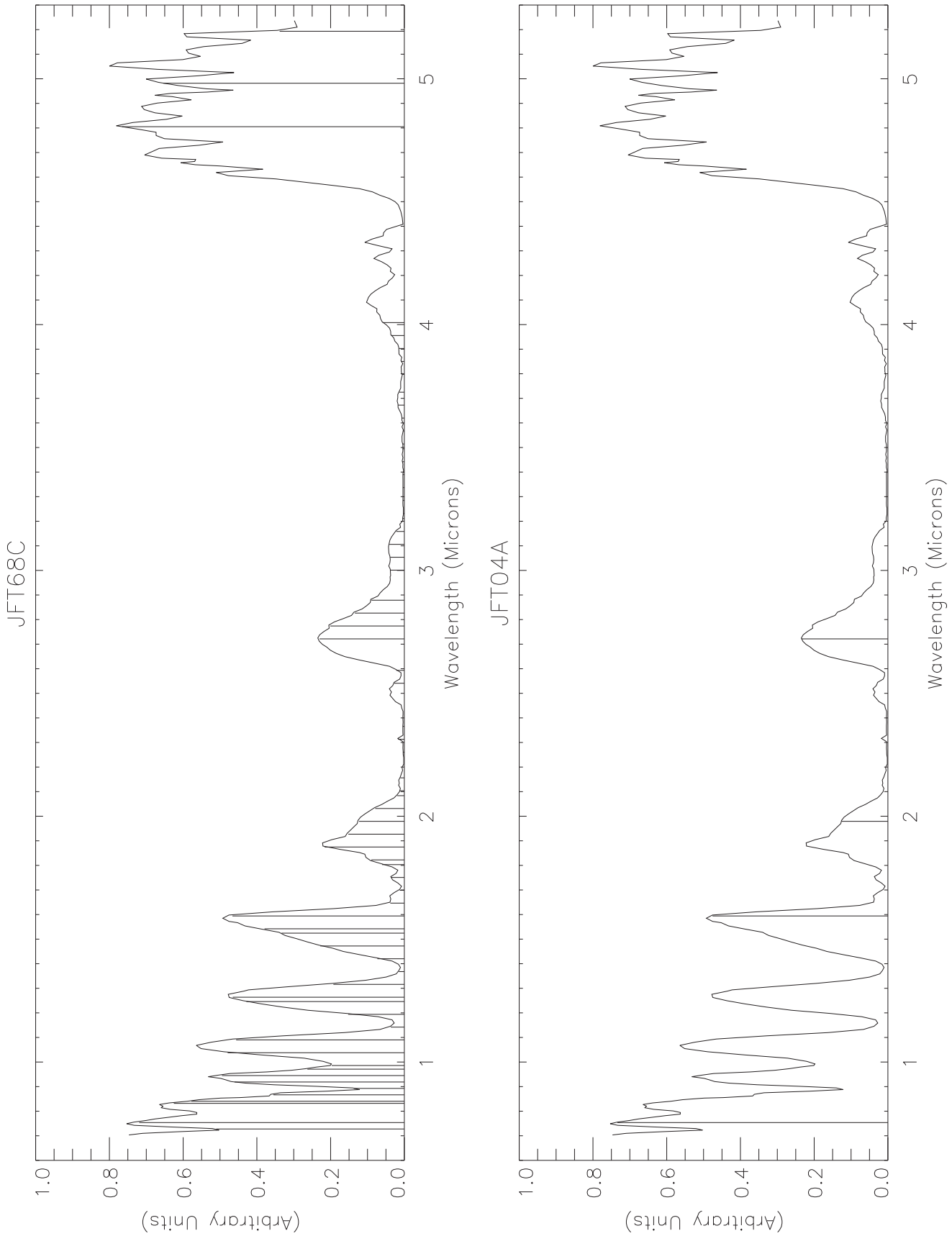
0.8
0.6
0.4
0.2
0.0
1
2
3
4
5
Wavelength (Microns)


JFT68C
JFT04A
(Arbitrary Units)
Wavelength (Microns)
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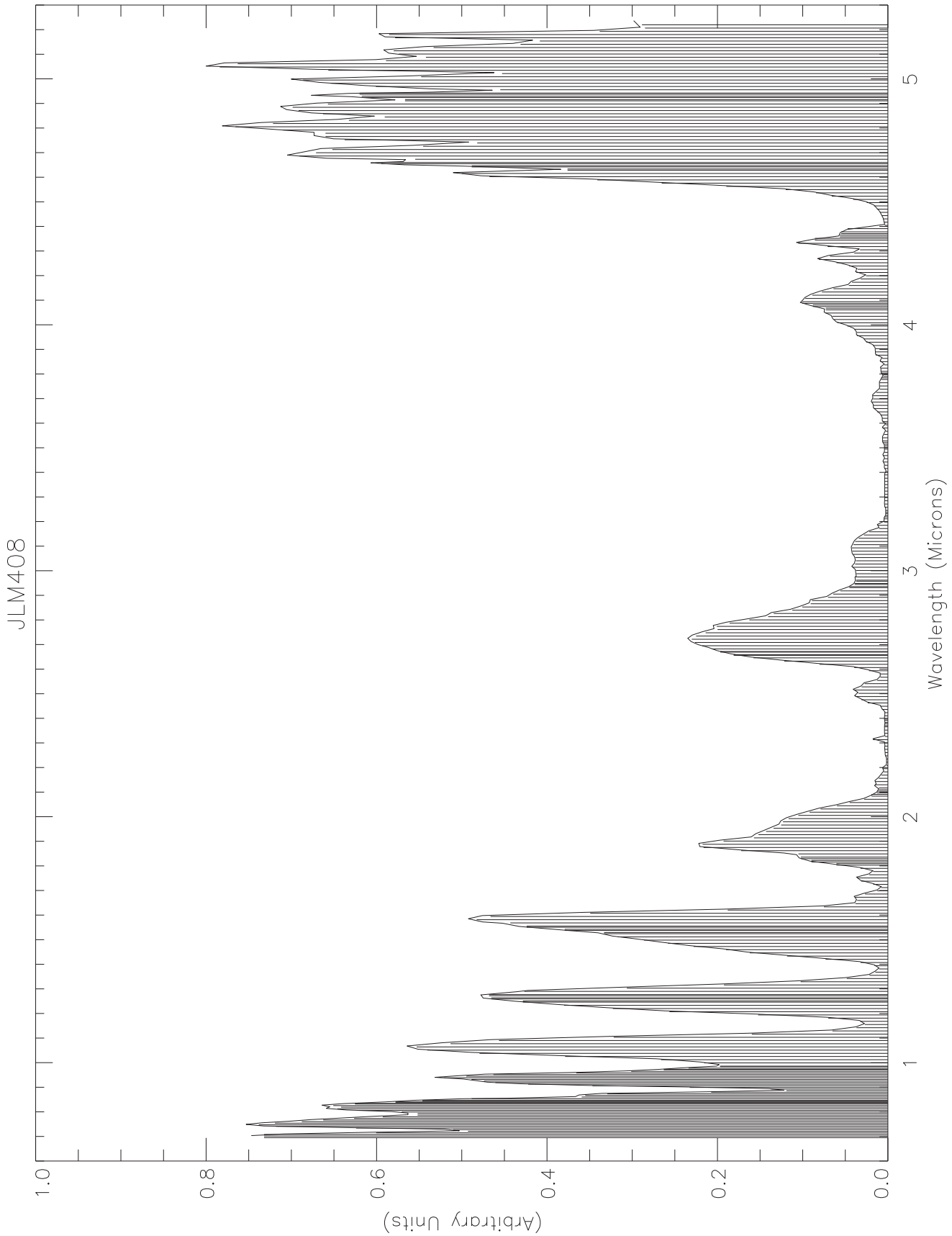
0.2
0.4
0.6
0.8
1.0
1
2
3
4
5


JLM408
(Arbitrary Units)
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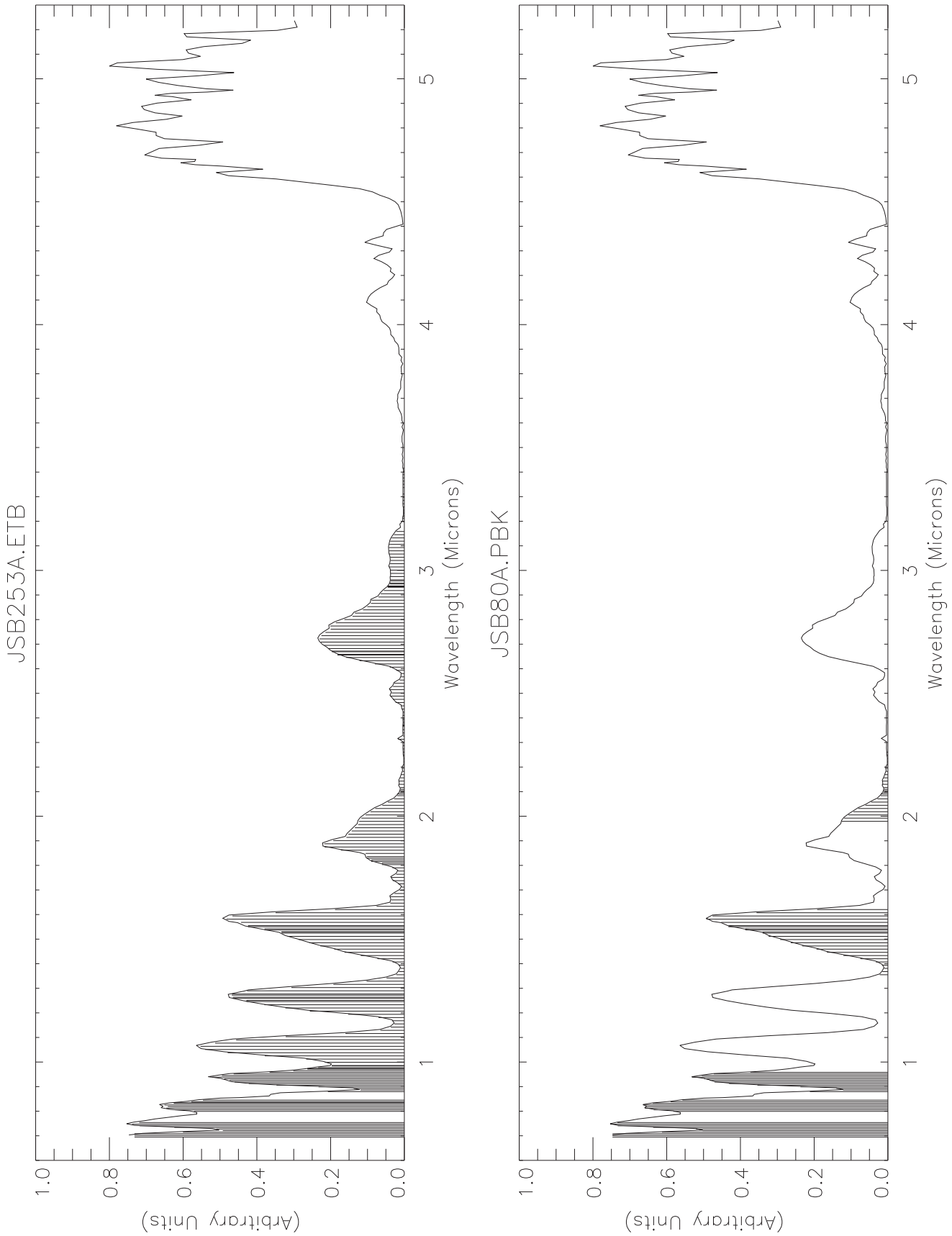
0.4
0.2
0.0
1
2
3
4
5
Wavelength (Microns)


JSB253A.ETB
JSB80A.PBK
(Arbitrary Units)
Wavelength (Microns)
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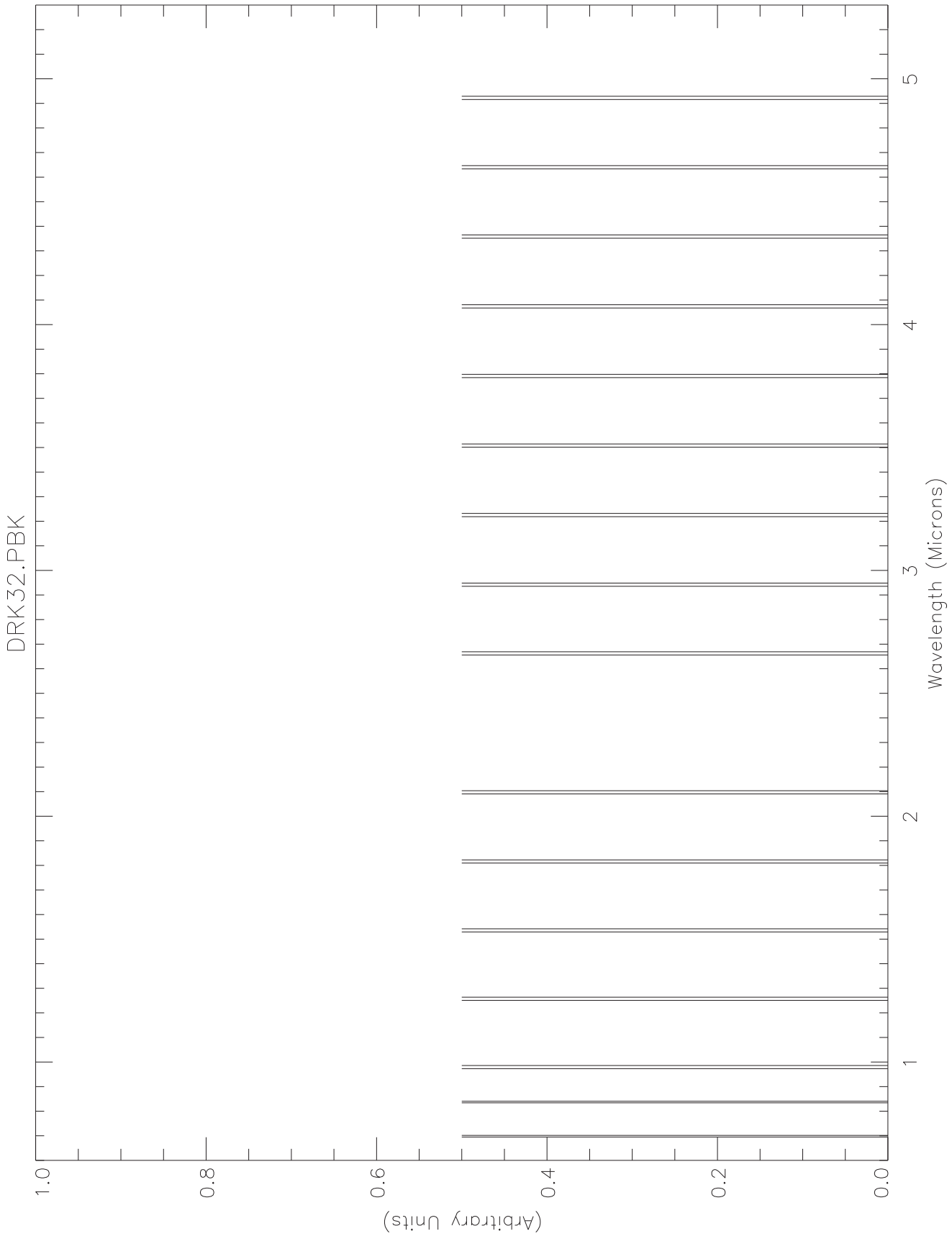
0.4
0.6
0.8
1.0
1
2
3
4
5


DRK32.PBK
(Arbitrary Units)
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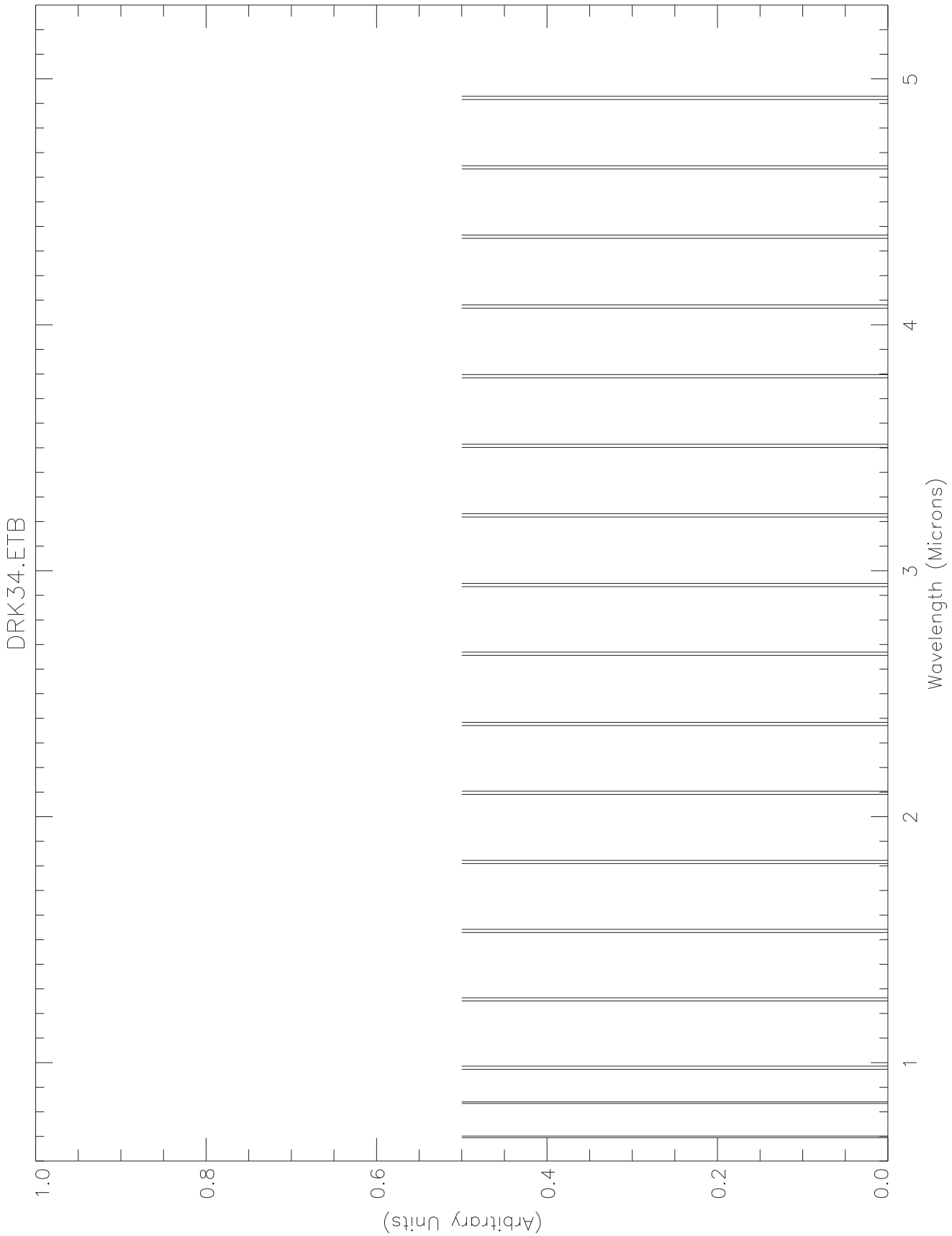
0.4
0.2
0.0
1
2
3
4
5
Wavelength (Microns)


DRK34.ETB
(Arbitrary Units)
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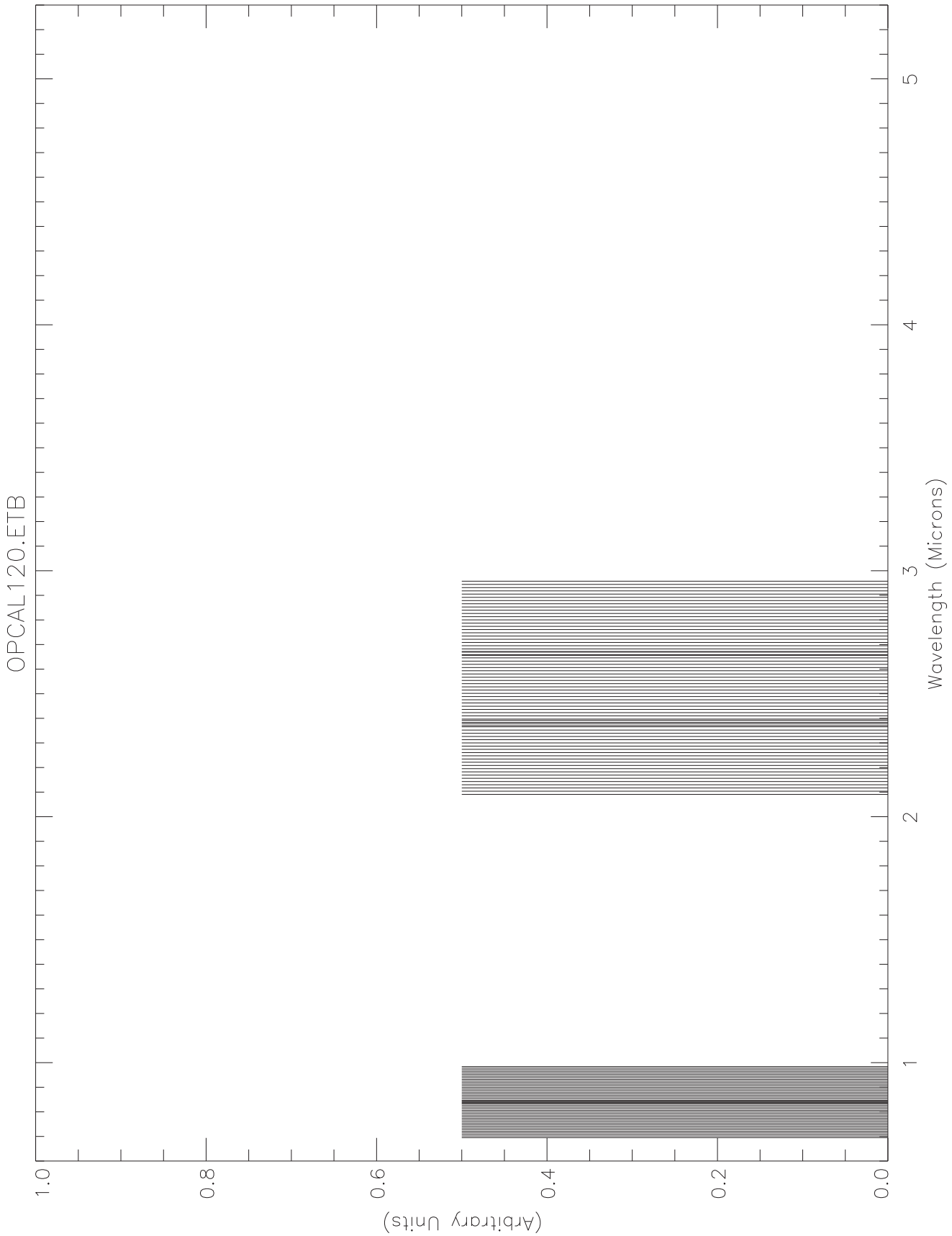
1
2
3
4
5
Wavelength (Microns)


OPCAL120.ETB
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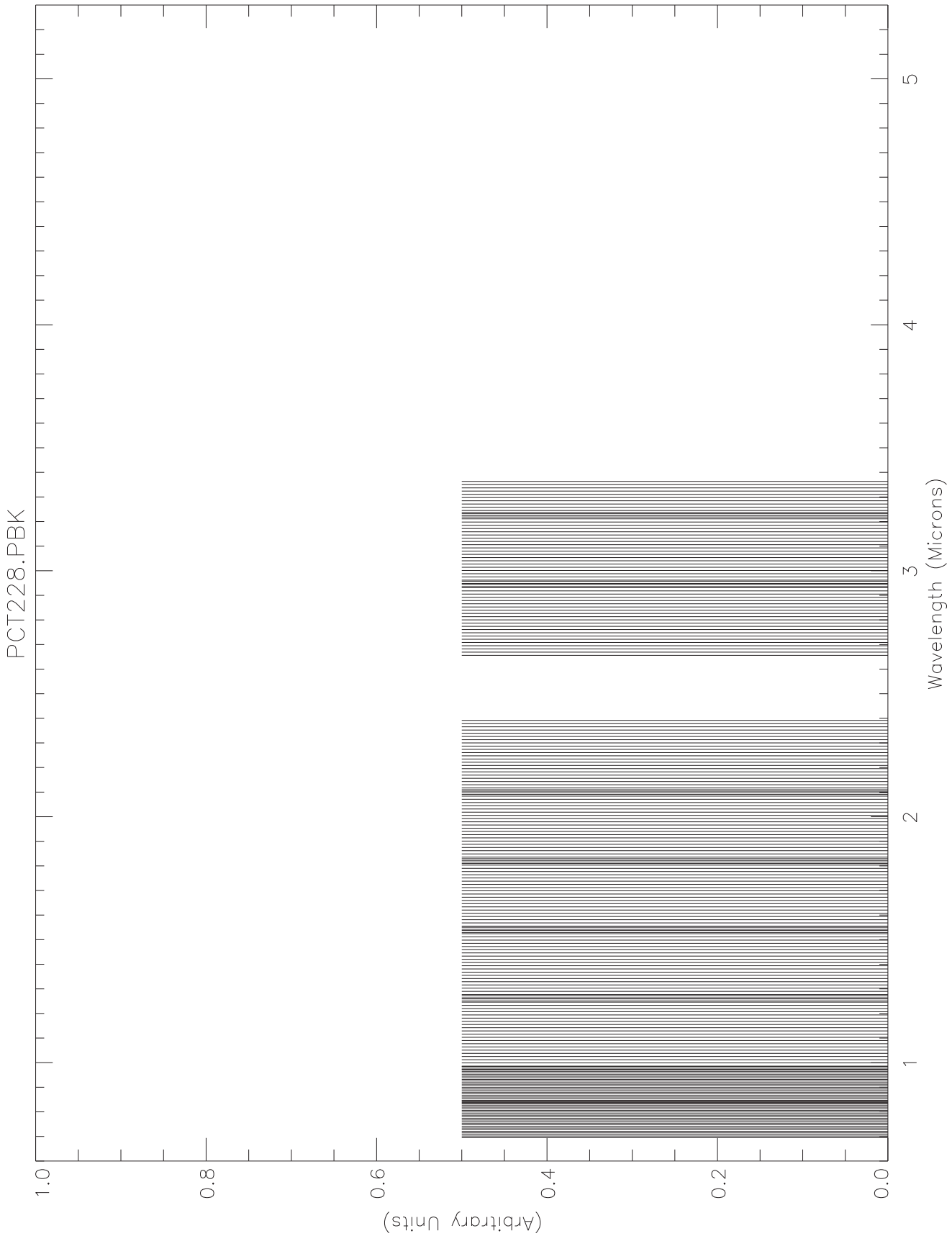
0.0
1
2
3
4
5
Wavelength (Microns)


PCT228.PBK
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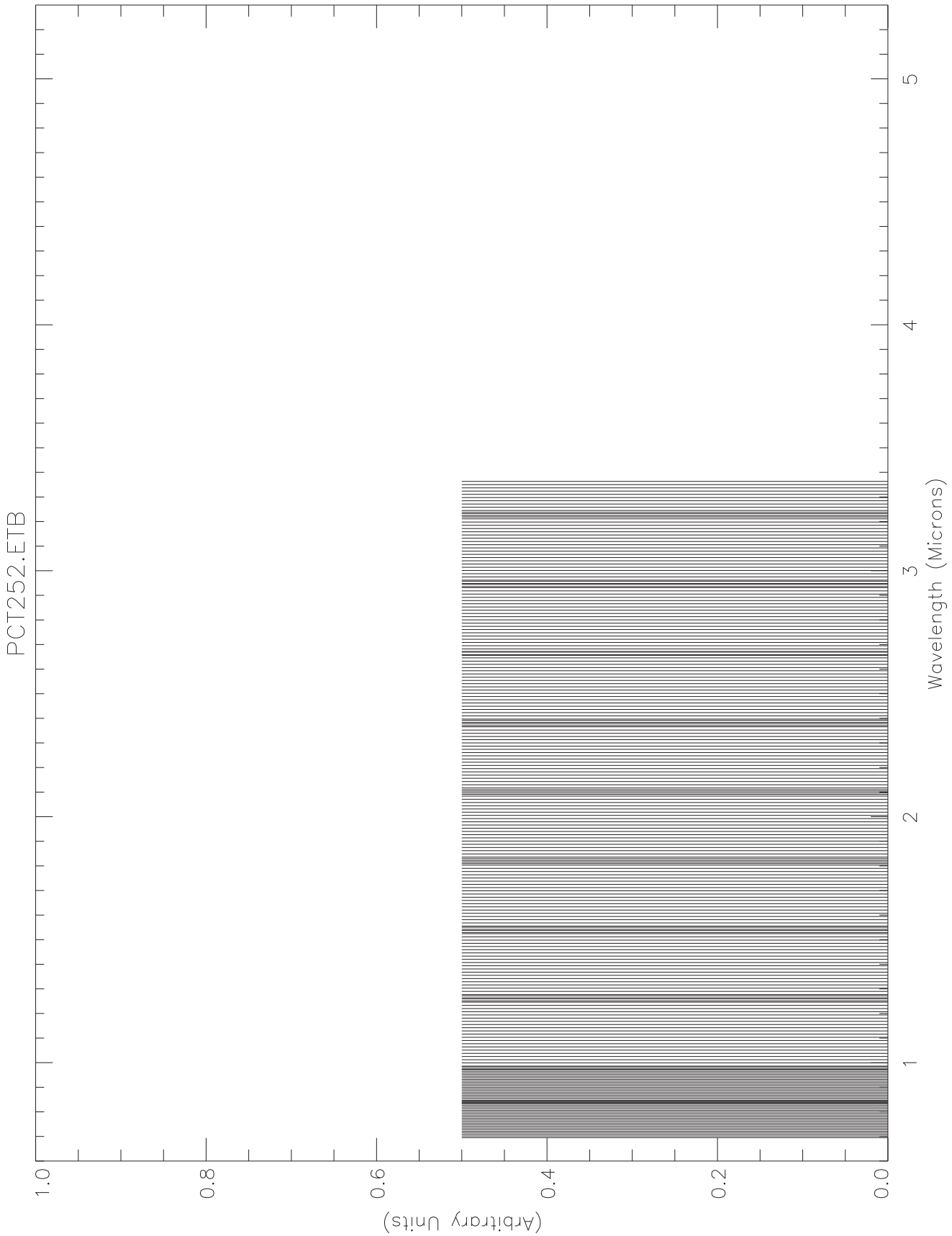
0.0
1
2
3
4
5
Wavelength (Microns)


PCT252.ETB
(Arbitrary Units)
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0.4
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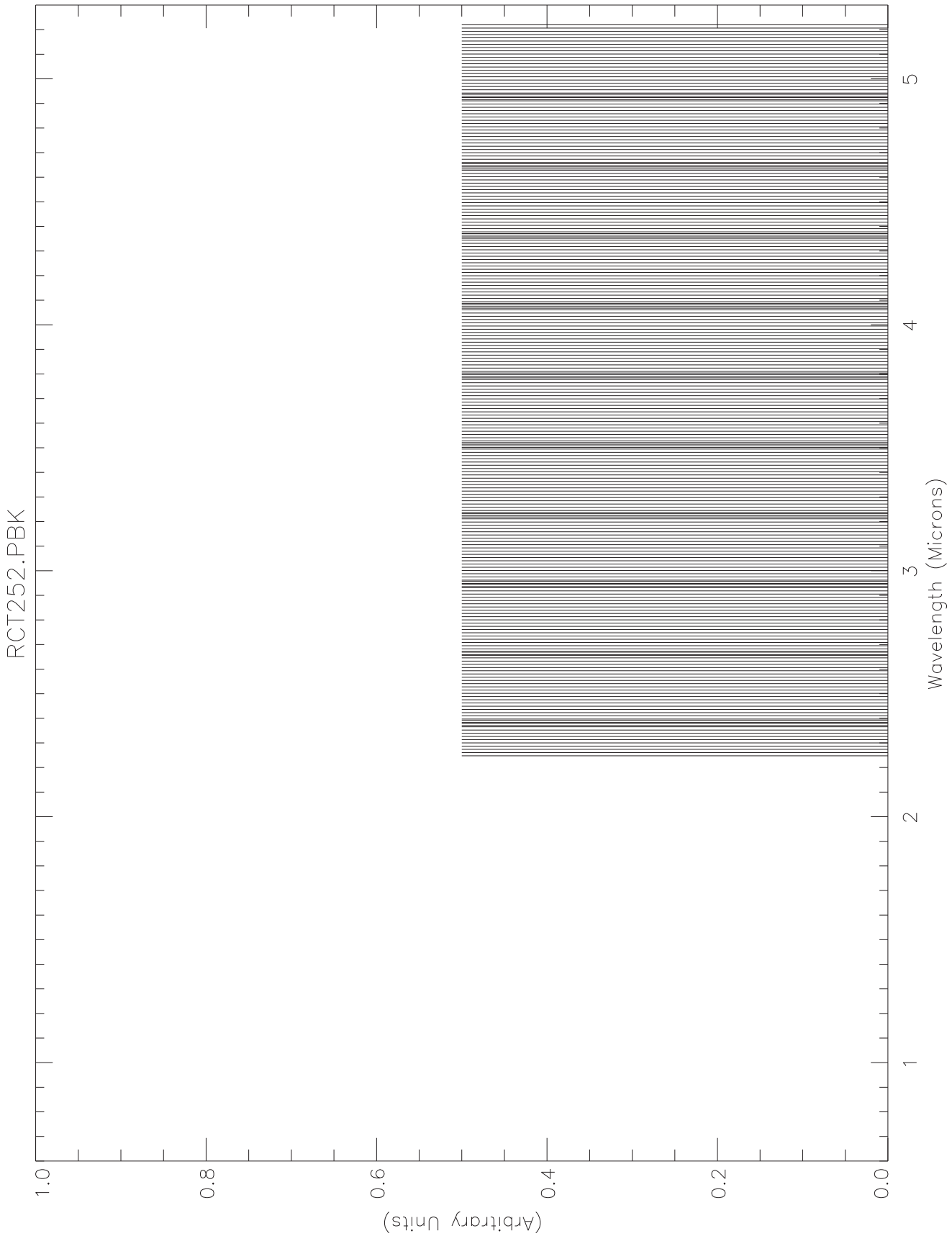
1
2
3
4
5
Wavelength (Microns)


RCT252.PBK
(Arbitrary Units)
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0.8
0.6
0.4
0.2
0.0
1
2
3
4
5
Wavelength (Microns)

Chapter 7 - Data Return

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Introduction to Chapter 7

This chapter is a report on the NIMS data return for the E6 orbit. Due to the low downlink data rates available for Galileo Jupiter Operations and other unforeseen and unpredictable events during the E6 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.

Ten NIMS software reloads were inserted into the E6 Encounter sequence to protect against processor halts. During E6 only one NIMS observation, E6INCHEMIS03, was 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.

Unforturnately, Detector 3 failed unexpectantly during E6. It was never recovered.

The plots on the pages 3 and 4 show the geometry of the NIMS E6 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 E6 playback events which affected which observations were returned.

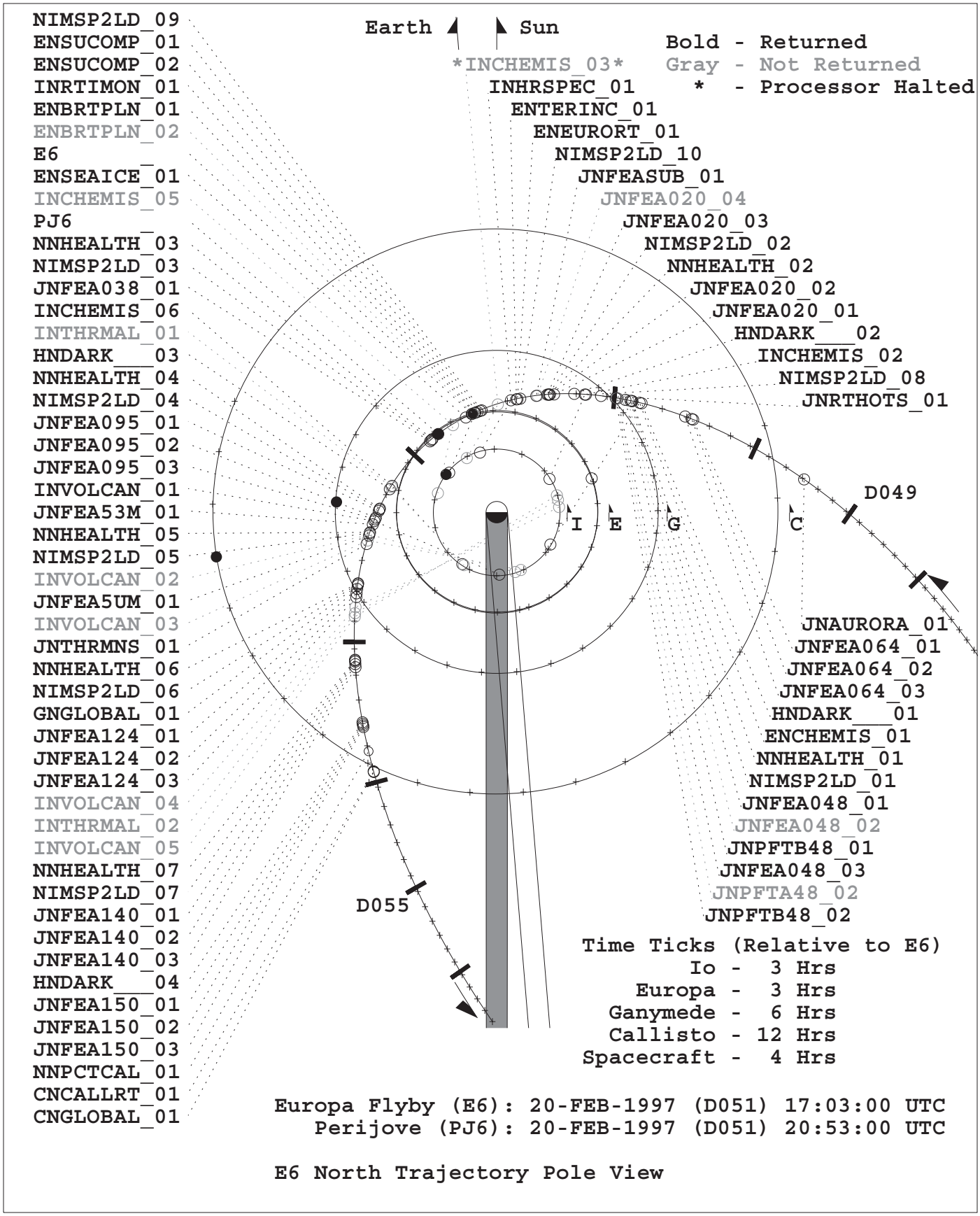
A Timeline of E6 playback events is on pages 10 and 11.

The text on pages 12 and 13 describes the E6 NIMS Anomalies, both Processor Halts and Detector failure.

The text on page 14 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 15 and 16.

The text on page 17 is a guide to understanding the NIMS MASK.

NIMS E6 OBSERVATIONS

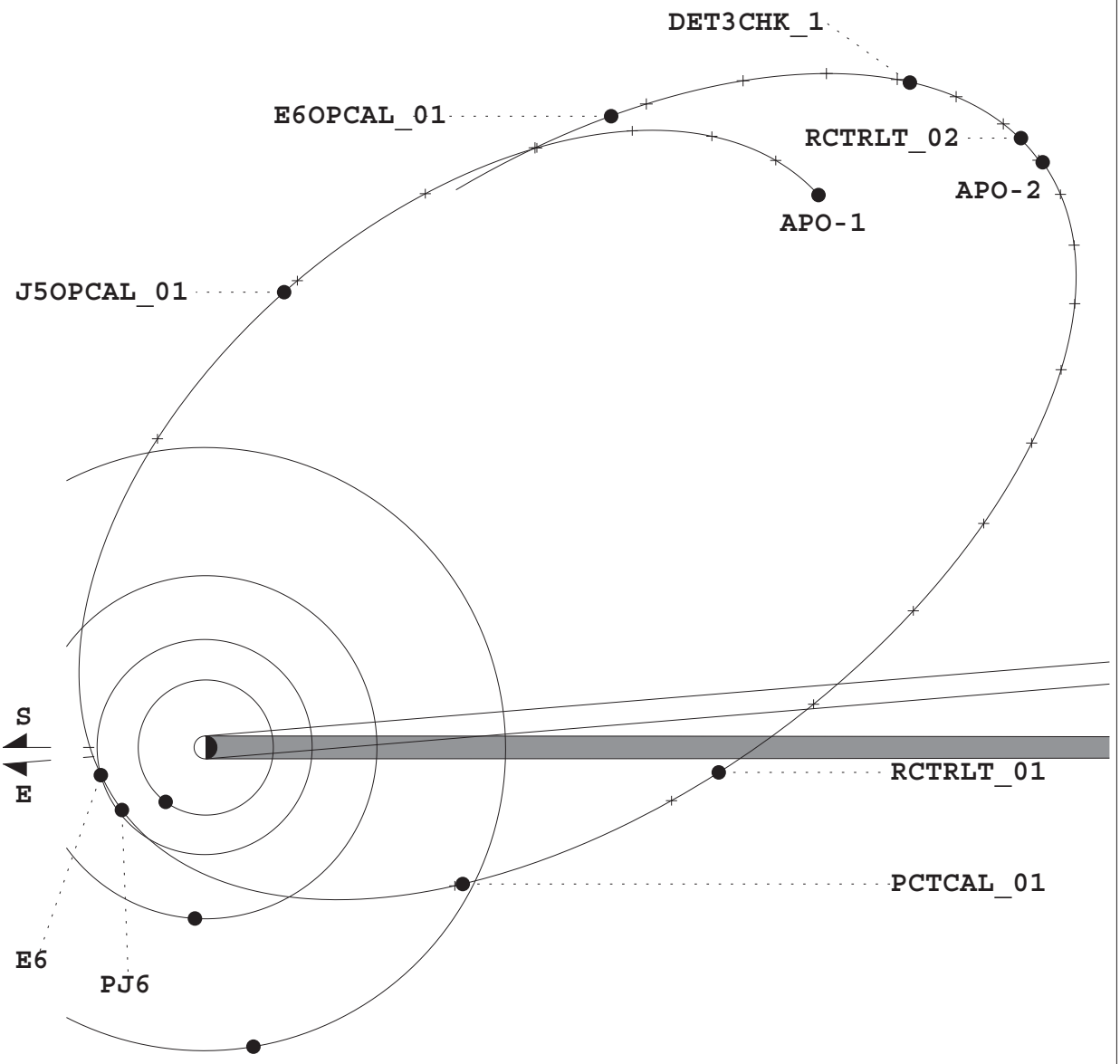


NIMS - FEL - 02/20/98

NIMS E6 CALIBRATIONS

Europa Flyby (E6): 20-FEB-1997 (D051) 17:07:15 UTC
Perijove (PJ6): 20-FEB-1997 (D051) 20:55:15 UTC

Time Ticks (Relative to E6)
Spacecraft - 2 Days



E6 North Trajectory Pole View, Apoapsis to Apoapsis

NIMS - FEL - 04/02/99

NIMS E6 DATA RETURN

Activity ID	Observation Title	Mode	Gain	Record Mode	NIMS Edit Table	NIMS PB Table	Grating Start	Grating Offset
E6JNAURORA01+	Jupiter Aurora observation	LM	4	R/T	E6JLM408		0	4
E6JNFEA06401-	Jupiter Feature Track 64 deg phase pt 1	SM	2	LPU	E6JFT68A	E6JFT04A	1	4
E6JNFEA06402-	Jupiter Feature Track 64 deg phase pt 2	SM	2	LPU	E6JFT68A	E6JFT20A	1	4
E6JNFEA06403-	Jupiter Feature Track 64 deg phase pt 3	SM	2	LPU	E6JFT68A	E6JFT04A	1	4
E6NNHNDARK01-	Dark Observation	LM	2	LPU	E6DRK34	E6DRK32	0	4
E6ENCHEMIS01-	Monitoring of IO's Dayside - EUROPA-	LM	2	MPW	E6ELM245	E6ELM96	0	4
E6NNHEALTH01-	Health Observation	LM	2	R/T	E6RCVY3		0	4
E6JNFEA04801-	Jupiter Feature Track 48 deg phase pt 1	SM	2	LPU	E6JFT68A	E6JFT04A	1	4
E6JNPFTB4801-	Jupiter Feature Track B 48 deg part 1	SM	2	LPU	E6JFT68C	E6JFT04A	1	4
E6JNFEA04803-	Jupiter Feature Track 48 deg phase pt 3	SM	2	LPU	E6JFT68A	E6JFT04A	1	4
E6JNPFTB4802-	Jupiter Feature Track B 48 deg part 2	SM	2	LPU	E6JFT68C	E6JFT20A	1	4
E6JNRTHOTS01-	Jupiter Real-time Hotspot	LM	2	R/T	E6JLM408		0	4
E6INCHEMIS02-	Monitoring of IO's Dayside	LM	2	MPW	E6ILM442	E6ILM384	0	4
E6NNHNDARK02-	Dark Observation	LM	2	LPU	E6DRK34	E6DRK32	0	4
E6JNFEA02001-	Jupiter Feature Track 20 deg phase pt 1	SM	2	LPU	E6JFT68C	E6JFT20A	1	4
E6JNFEA02001-	Jupiter Feature Track 20 deg phase pt 1	SM	2	LPU	E6JFT68C	E6JFT20A	1	4
E6JNFEA02002-	Jupiter Feature Track 20 deg phase pt 2	SM	2	LPU	E6JFT68C	E6JFT25A	1	4
E6NNHEALTH02-	Health Observation	LM	2	R/T	E6RCVY3		0	4
E6JNFEA02003-	Jupiter Feature Track 20 deg phase pt 3	SM	2	LPU	E6JFT68C	E6JFT25A	1	4
E6JNFEA02003-	Jupiter Feature Track 20 deg phase pt 3	SM	2	LPU	E6JFT68C	E6JFT25A	1	4
E6JNFEASUB01-	Jupiter Campaign Feature sub-spectra	LM	2	LPU	E6JSB253A	E6JSB80A	0	4
E6ENEURORT01-	Europa Real-Time Observation	LM	2	R/T	E6ELM408		0	4
E6ENTERINC01-	Europa Terra Incognito	FM	2,3	MPW	E6EFM221	E6EFM192	0	4
E6ENTERINC01-	Europa Terra Incognito	FM	2	MPW	E6EFM221	E6EFM192	0	4
E6INHRSPEC01-	High spatial and spectral Obs of IO	LM	2	MPW	E6ILM245	E6ILM216	0	4
E6INHRSPEC01-	High spatial and spectral Obs of IO	LM	2	MPW	E6ILM245	E6ILM216	0	4
E6ENSUCOMP01-	Europa Surface Composition	LM	3	MPW	E6ELM442	E6ELM192	0	4
E6ENSUCOMP01-	Europa Surface Composition	LM	3	MPW	E6ELM442	E6ELM192	0	4
E6ENSUCOMP02-	Europa Surface Composition A	LM	3	MPW	E6ELM442	E6ELM192	0	4
E6ENSUCOMP02-	Europa Surface Composition B	LM	3	MPW	E6ELM442	E6ELM96	0	4
E6INRTIMON01-	NIMS Io Real-Time Observation	XM	2	R/T	E6IXM8RTB		21	4
E6ENBRTPLN01+	BRTPLN Ride-Along with SSI	LM	2	MPW	E6ELM442	E6ELM384	0	4
E6ENSEAICE01-	Europa Hexangonal Ice	XM	3	LPU	E6EXM10B	E6EXM10B	0	4
E6ENSEAICE01-	Europa Hexangonal Ice	XM	3	LPU	E6EXM10B	E6EXM10B	0	4
E6NNHEALTH03-	Health Observation	LM	2	R/T	E6RCVY3		0	4
E6JNFEA03801-	Jupiter Feature Track 38 deg phase pt 1	SM	2	LPU	E6JFT68C	E6JFT25A	1	4

NIMS E6 DATA RETURN

ACTID	Obs Cost Tics	Wave-lengths ret	Record Time (sec)	PB Time (sec)	Sel Bits of Tape sBOT (Mbits)	Total Bits of Tape BOT (Mbits)	Mode cycle time (sec)	Thold	Comp	Total BTG BTG (Mbits) (4% Ohead)	Data Reduct Factor (sBOT/BTG)	Pass
E6TNAURORA01+		408										
E6JNFEA06401-	25.3776	4	104	100	0.62	0.64	2.33	0	2.08	0.017	35.93	1
E6JNFEA06402-	25.3776	20	104	100	0.62	0.64	2.33	0	2.36	0.076	8.15	1
E6JNFEA06403-	25.3776	4	104	100	0.62	0.64	2.33	0	1.61	0.022	27.81	1
E6NNHNDARK01-	16.2360	32	65	61	0.38	0.40	8.667	0	3.01	0.016	24.17	1
E6INCHEMIS01-	97.9212	96	108	104	1.20	1.24	8.667	2	2.30	0.104	11.50	1
E6NNHEALTH01-		3										
E6JNFEA04801-	25.3776	4	104	100	0.62	0.64	2.33	0	2.14	0.017	36.97	1
E6JNPFTB4801-	98.8222	4	417.33	413.33	2.55	2.57	2.33	0	1.77	0.083	30.57	1
E6JNFEA04803-	25.3776	4	104	100	0.62	0.64	2.33	0	1.55	0.023	26.77	1
E6JNPFTB4802-	98.8222	20	417.33	413.33	2.55	2.57	2.33	0	1.99	0.371	6.87	2
E6JNRTHOTS01-		408										
E6INCHEMIS02-	191.0846	384	214	98	1.13	2.47	8.667	2	1.45	0.623	1.81	2
E6NNHNDARK02-	16.2360	32	65	61	0.38	0.40	8.667	0	2.12	0.022	17.03	1
E6JNFEA02001-	203.5216	20	864	648	4.00	5.33	2.33	0	2.14	0.541	7.39	1
E6JNFEA02001-	203.5216	20	864	216	1.33	5.33	2.33	0	2.15	0.179	7.43	2
E6JNFEA02002-	25.3776	25	104	100	0.62	0.64	2.33	0	1.77	0.126	4.89	1
E6NNHEALTH02-		3										1
E6JNFEA02003-	203.5216	25	864	212	1.31	5.33	2.33	0	1.86	0.254	5.14	1
E6JNFEA02003-	203.5216	25	864	620	3.82	5.33	2.33	0	1.88	0.736	5.20	2
E6JNFEASUB01-	87.2592	80	368	364	2.25	2.27	8.667	0	1.71	0.409	5.49	1
E6ENEURORT01-		408										
E6ENTERINC01-	1729.1596	192	1964	251	2.89	22.63	4.333	0	1.49	1.553	1.86	1
E6ENTERINC01-	1729.1596	192	1964	627	7.22	22.63	4.333	0	1.50	3.853	1.87	2
E6INHRSPEC01-	258.4962	216	290.7	130	1.50	3.35	8.667	2	1.20	0.562	2.67	1
E6INHRSPEC01-	258.4962	216	290.7	165	1.90	3.35	8.667	2	1.13	0.757	2.51	2
E6ENSUCOMP01-	433.0458	192	489.3	253	2.91	5.64	8.667	0	1.37	0.851	3.43	1
E6ENSUCOMP01-	433.0458	192	489.3	241	2.78	5.64	8.667	0	1.37	0.811	3.43	2
E6ENSUCOMP02-	433.0458	192	489.3	486	5.60	5.64	8.667	0	1.28	1.750	3.20	1
E6ENSUCOMP02-	433.0458	96	489.3	486	5.60	5.64	8.667	0	1.32	0.848	6.60	2
E6INRTIMON01-		8					8.667	0	1.30			
E6ENBRTPLN01+	31.7251	384	32.683	32	0.37	0.38	8.667	0	1.51	0.195	1.89	1
E6ENSEAICE01-	113.5120	10	480	63.4	0.39	2.96	0.333	0	1.53	0.259	1.51	1
E6ENSEAICE01-	113.5120	10	480	63.39	0.39	2.96	0.333	0	1.53	0.259	1.51	2
E6NNHEALTH03-		3										
E6JNFEA03801-	203.5216	25	864	650	4.01	5.33	2.33	0	1.51	0.961	4.17	2

NIMS E6 DATA RETURN

Activity ID	Observation Title	Mode	Gain	Record Mode	NIMS Edit Table	NIMS PB Table	Grating Start	Grating Offset
E6INCHEMIS06-	Monitoring of IO's Dayside	LM	2	LPU	E6ILM245	E6ILM216	0	4
E6NNHNDARK03-	Dark Observation	LM	4	LPU	E6DRK34	E6DRK32	0	4
E6NNHEALTH04-	Health Observation	LM	2	R/T	E6RCVY3		0	4
E6JNFEA09501-	Jupiter Feature Track 95 deg phase pt 1	SM	2	LPU	E6JFT68A	E6JFT04A	1	4
E6JNFEA09502-	Jupiter Feature Track 95 deg phase pt 2	SM	2	LPU	E6JFT68A	E6JFT20A	1	4
E6JNFEA09503-	Jupiter Feature Track 95 deg phase pt 3	SM	2	LPU	E6JFT68A	E6JFT04A	1	4
E6INVOLCAN01-	Monitoring of Selected Volcanic Regions	LM	4	LPU	E6ILMDK245	E6ILMDK67	0	4
E6JNFEA53M01-	Jupiter Campaign Feature 5 and 3 um Map	LM	4	LPU	E6J35160	E6J35160	0	4
E6NNHEALTH05-	Health Observation	LM	2	R/T	E6RCVY3		0	4
E6JNFEA5UM01-	Jupiter Feature Track 5 Micron Map 2	LM	4	LPU	E6J5M253B	E6J5M80B	0	4
E6JNTHRMNS01-	Jupiter Thermal North South Stripe	LM	4	LPU	E6J5M253A	E6J5M80A	0	4
E6JNTHRMNS01-	Jupiter Thermal North South Stripe	LM	4	LPU	E6J5M253A	E6J5M80A	0	4
E6NNHEALTH06-	Health Observation	LM	2	R/T	E6RCVY3		0	4
E6GNGLOBAL01-	NIMS Ganymede Global	LM	3	LPU	E6GLM245D	E6GLM192	0	4
E6JNFEA12401-	Jupiter Feature Track 124 deg phase pt	SM	2	LPU	E6JFT68A	E6JFT04A	1	4
E6JNFEA12402-	Jupiter Feature Track 124 deg phase pt	SM	2	LPU	E6JFT68A	E6JFT20A	1	4
E6JNFEA12403-	Jupiter Feature Track 124 deg phase pt	SM	2	LPU	E6JFT68A	E6JFT04A	1	4
E6NNHEALTH07-	Health Observation	LM	2	R/T	E6RCVY3		0	4
E6JNFEA14001-	Jupiter Feature Track 140 deg phase pt	SM	2	LPU	E6JFT68B	E6JFT19D	1	4
E6JNFEA14002-	Jupiter Feature Track 140 deg phase pt	SM	2	LPU	E6JFT68B	E6JFT19D	1	4
E6JNFEA14003-	Jupiter Feature Track 140 deg phase pt	SM	2	LPU	E6JFT68B	E6JFT19D	1	4
E6NNHNDARK04-	Dark Observation	LM	2	LPU	E6DRK34	E6DRK32	0	4
E6JNFEA15001-	Jupiter Feature Track 150 deg phase pt	SM	2	LPU	E6JFT68A	E6JFT20A	1	4
E6JNFEA15002-	Jupiter Feature Track 150 deg phase pt	SM	2	LPU	E6JFT68A	E6JFT20A	1	4
E6JNFEA15003-	Jupiter Feature Track 150 deg phase pt	SM	2	LPU	E6JFT68A	E6JFT20A	1	4
E6NNPCTCAL01	PCT Recorded Calibration	LM	4	LPU	E6PCT252	E6PCT228	0	4
E6CNCALLRT01-	Callisto Real-Time Observation	LM	4	R/T	E6CLM442		0	4
E6CNGLOBAL01-	Callisto Global Observation	LM	4	MPW	E6CLM442	E6CLM270	0	4
E6NNRCTRLT01	RCT R/T Calibration	LM	1	R/T	E6RCT252		0	4
E6NNRCTRLT02	RCT R/T Calibration	LM	1	R/T	E6RCT252		0	4
E6NNOPCAL_01	R/T OPCAL	LM	4	R/T	E6OPCAL120		0	4

NIMS E6 DATA RETURN

ACTID	Obs Cost Tics	Wave-lengths ret	Record Time (sec)	PB Time (sec)	Sel Bits of Tape sBOT (Mbits)	Total Bits of Tape BOT (Mbits)	Mode cycle time (sec)	Thold	Comp	Total BTG BTG (Mbits) (4% Ohead)	Data Reduct Factor (sBOT/BTG)	Pass
E6INCHEMIS06-	40.3792	216	168	164	1.01	1.04	8.667	2	1.42	0.599	1.69	1
E6NNHNDARK03-	16.2360	32	65	61	0.38	0.40	8.667	0	1.37	0.034	11.00	1
E6NNHEALTH04-		3										
E6JNFEA09501-	25.3776	4	104	100	0.62	0.64	2.33	0	1.61	0.022	27.81	1
E6JNFEA09502-	25.3776	20	104	100	0.62	0.64	2.33	0	1.88	0.095	6.49	1
E6JNFEA09503-	25.3776	4	104	100	0.62	0.64	2.33	0	1.93	0.019	33.34	1
E6INVOLCAN01-	19.7520	67	80	76	0.47	0.49	8.667	2	2.06	0.059	7.90	2
E6JNFEA53M01-	87.2592	160	368	364	2.25	2.27	8.667	0	1.22	1.146	1.96	1
E6NNHEALTH05-		3										
E6JNFEA5UM01-	87.2592	80	368	364	2.25	2.27	8.667	0	1.20	0.582	3.86	1
E6JNTHRMNS01-	421.3566	80	1793.33	1040	6.41	11.06	8.667	0	1.31	1.524	4.21	1
E6JNTHRMNS01-	421.3566	80	1793.33	258	1.59	11.06	8.667	0	1.33	0.372	4.27	2
E6NNHEALTH06-		3										
E6GNGLOBAL01-	336.3561	192	1430.7	580	3.58	8.82	8.667	0	1.69	1.581	2.26	1
E6JNFEA12401-	25.3776	4	104	100	0.62	0.64	2.33	0	1.67	0.021	28.85	1
E6JNFEA12402-	25.3776	20	104	100	0.62	0.64	2.33	0	2.10	0.085	7.25	1
E6JNFEA12403-	25.3776	4	104	100	0.62	0.64	2.33	0	2.26	0.016	39.04	1
E6NNHEALTH07-		3										
E6JNFEA14001-	25.3776	19	104	100	0.62	0.64	2.33	0	1.87	0.091	6.80	1
E6JNFEA14002-	25.3776	19	104	100	0.62	0.64	2.33	0	1.89	0.090	6.87	1
E6JNFEA14003-	25.3776	19	104	100	0.62	0.64	2.33	0	2.02	0.084	7.35	1
E6NNHNDARK04-	16.2360	32	65	61	0.38	0.40	8.667	0	2.96	0.016	23.77	1
E6JNFEA15001-	23.9009	20	97.7	93.667	0.58	0.60	2.33	0	2.19	0.076	7.57	1
E6JNFEA15002-	23.9009	20	97.7	93.667	0.58	0.60	2.33	0	2.11	0.079	7.29	1
E6JNFEA15003-	23.9712	20	98	94	0.58	0.60	2.33	0	2.26	0.074	7.81	1
E6NNPCTCAL01-	132.9672	228	563	97	0.60	3.47	8.667	0	2.26	0.235	2.55	1
E6CNCALLRT01-		384										
E6CNGLOBAL01-	443.0389	270	500.67	121	1.39	5.77	8.667	2	1.86	0.422	3.31	1
E6NNRCTRLT01-		252										
E6NNRCTRLT02-		252										
E6NNOPCAL 01-		120										
Total						177.86				23.598	Planned BTG	
Allocated										23.229	Allocation	
Oversubscribed										0.369	Over/under	

Recap of E6 Playback Events

There were a number of significant events and new adaptations during E6 recording and data playback. Perhaps most significant for NIMS was the failure of detector 3, which occurred about 3/4 of the way through the encounter sequence, after recording of E6GNGLOBAL01. There was one NIMS software crash, which prevented the recording of one Io observation. A planned software reload enabled us to successfully record the subsequent observations.

About two weeks before termination of playback, a CDS software bug caused the tape recorder to go into limited search mode, resulting in the generation and downlink of 1.8 Mbits of useless fill packets. Despite these problems, E6 data return was quite successful; low levels of radiation noise for Io and Europa observations resulted in high-quality data sets.

We adopted a new strategy for AACS (attitude and articulation) data return in E6. For observations not affected by booms (cone angles between 105 and 165 degrees), we commanded the return of only a portion of the AACS data (20-40%). This resulted in bit savings that were applied to bring down more coverage of the target bodies.

E6 Playback Events Timeline (10-04-96 to 3-30-97)

10-04-96: Evolution of new DMS (tape recorder) rules forces the abandonment of OPG tape allocation and generation of new allocations. New allocations represent a 25% reduction in the amount of tape available for recording, for the balance of the mission.

01-07-97: Playback table delivered commands return of 16.6 Megabits of data (one of the smallest totals of the mission). As a result most NIMS observations are planned to come down with fewer wavelengths than recorded, and/or with less spatial coverage than was recorded.

01-31-98: NIMS downlink allocation increases by 3.8 Mbits (1.9 AWG, 2.9 SWG) due to improvements in telemetry (downlink bit rates) and due to a strategy of sending down engineering data during low data rate DSN passes. New allocation is 21.34 Mb distributed approximately as follows: Jupiter 7.5, Io 3.2, Europa 8.7, Ganymede 1.3, Callisto 0.5, Calibration 0.23.

02-07-97: NIMS allocation reduced by 1 Mb to reflect new knowledge of the cost of "inefficiency," which results when the tape is running but no data is being read. This is a consequence of 2-pass playback.

02-12-97: Cuts to spatial coverage of Europa, Ganymede, and Callisto, and to wavelengths returned for E6JNPFTB4801 (20 bands to 4) are made to match new allocation of 20.6 Mb.

02-18-97: NIMS E6 recording begins with E6JNAURORA_01.

02-19-97: An observation of Io (E6INCHEMIS01) instead sees Europa, which was occulting Io at the time. This is the only instance of this sort during the mission; positions of satellites other than Io were not considered when generating the design.

02-20-97: NIMS software halts at about 12:50 UTC, and the observation E6INCHEMIS03 is not successfully recorded. A planned software reload about 3 hours later prevents the loss of any later observations. Europa close approach is at 17:03; Jupiter perijove is at 20:53.

E6 Playback Events Timeline (10-04-96 to 3-30-97)

02-21-97: Detector 3 apparently fails after the observation E6GNGLOBAL01 (ending at 16:43).

03-05-97: Playback table update. Good compression for Io and Europa observations (indicating low levels of radiation noise during recording) and a small (0.3 Mb) increase in allocation permitted us to increase spatial and wavelength coverage on several observations, including E6GNGLOBAL01, E6INCHEMIS06, and the PCTCAL.

03-12-97: 50% of E6 playback has been completed. Inefficiency has been smaller than expected. We convinced the Project to release 2 Mbits to NIMS (and 1.5 to SSI) from the 5 Mbit reserve (office margin), in order to get more spatial coverage of E6ENTERINC01. Playback for that observation is increased by 6 Rims.

03-17-97: A previously-unsuspected bug in CDS software relating to PPR playback causes the tape recorder to go into "limited search" mode, slewing over 2 tracks of the tape, and costing 1.8 Mbits. This consumes the remaining margin, placing the last observation planned for return (E6INVOLCAN01) at some risk.

03-19-97: The final playback table update. A proposal from the Project to reduce our allocation to protect E6INVOLCAN01 was forestalled by decisions by NIMS and SSI to command playback of data from later in the sequence, thereby protecting the "last" observation. We received 0.4 Mbits from UVS and placed this on E6JNTHRMNS01. In order to ensure that no downlink bits were wasted, SSI was allowed to add additional playback commands to the end of the table to sop up any remaining bits. This practice would become standard in later orbits.

03-30-97: Playback is terminated. All commanded bits were received successfully, with about 0.2 Mb of downlink capability remaining (on the order of a couple of hours of capability). Total Mbits to ground for NIMS is 24.25.

NIMS Anomaly Report - E6 Sequence

Two types of anomalies occurred during the E6 Encounter: The NIMS processor halted once and NIMS detector 3 failed. The processor Halt was recoverable, but the detector 3 failure turned out to be permanent.

Processor Halts

Facts:

0. Between the start of the E6 Encounter and the single Halt NIMS returned 5 realtime observations and successfully reloaded NIMS from CDS 4 times. The NIMS SCLK engineering channels were continuously monitored for detecting a NIMS processor halt.

1. A NIMS processor halt was detected at SCLK 03836981 from the analysis of the NIMS SCLK engineering telemetry channels S-1931 and S-1932. This occurred about 7 hours before E6 perijove. A fifth NIMS reload occurred about 2 hours and 10 minutes later. No more Halts occurred during the rest of the encounter. A table of the NIMS engineering SCLK values near the time of the Halt follows (Note that the NIMS engineering SCLK value is normally 2 Rims behind the CDS SCLK Rim when it is reported):

NIMS SCLK	CDS SCLK	CDS SCET	GROUND ERT
03836800	03836802.58	1997-051T10:30:36.704	1997-051T11:26:20.746
03836981	03837000.40	1997-051T13:50:36.697	1997-051T15:05:44.027
03837183	03837185.05	1997-051T16:57:16.690	1997-051T19:02:43.972

2. Only one NIMS observation was lost due to this Halt: E6INCHEMIS03.

Timing:

SCLK	Comments
03837000.40	Anomalous 03836981 SCLK reported
03837017:84	Start of NIMS observation E6INCHEMIS03
03837023:79	END of NIMS observation E6INCHEMIS03
03837128:06	Start of NIMS CDS Reload09 (#5)
03837429:00	E6 Perijove

NIMS Anomaly Report - E6 Sequence

Summary:

1. One NIMS processor halt occurred during the E6 Encounter.

2. Continous monitoring of the NIMS SCLK channels led to a rapid identification that NIMS processor halts had occurred.

3. The 10 NIMS software reloads from CDS greatly lessened the potentially disastrous effects of the E6 Halt and protected the NIMS observations in the encounter.

4. Checksums of NIMS memory space verified that NIMS had reloaded properly.

5. Frequent NIMS realtime observations, both science observations and instrument health monitoring observations, verified that NIMS was functioning normally at various time points throughout the encounter.

6. The error avoidance measures applied to the E6 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.

Detector 3 Failure

0. Detector 3 failed sometime during E6 outbound. Its response is random, independent of what NIMS is looking at.

1. Detector 3 was first observed to have unusual behavior in the E6 RealTime observation E6CNCALLRT01. Analysis of playback data found that detector 3 had failed after E6GNGLOBAL01 and before E6NNHNDARK04. The observations between these two did not return any detector 3 data.

2. Detector 3 DN seems to vary randomly, bouncing between 0 and 1023. This behavior is similar to that of detector 8.

3. It is not ascertainable whether Detector 3 failed abruptly or over a period of hours since NIMS data returned after E6GNGLOBAL01 for about 20 hours did not include detector 3 data.

4. Detector 3 never recovered. Both detector 3 and 8 are no longer functioning.

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.