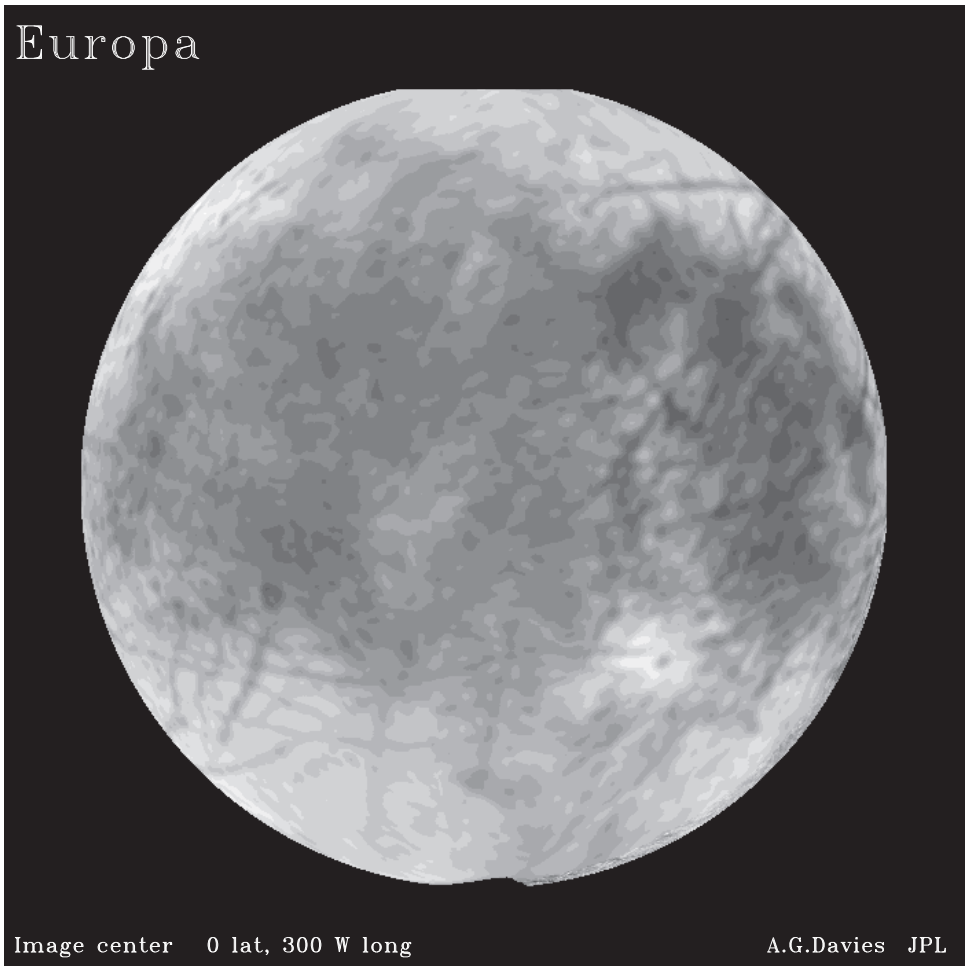
NIMS GUIDE TO THE E4 ORBIT

Original: December 1996



E4 Encounter starts 12/15/96, E4 Playback starts 12/22/96

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 E4 Orbit for the NIMS Team. The aim of this guide is to provide detailed information on the various NIMS E4 observations and calibrations. Also included in this document is background information on the E4 orbit. This guide was produced before the start of the E4 orbit. After analysis of the NIMS E4 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 E4 orbit. Chapter 2 gives an overview of the E4 orbit and summarizes the NIMS science objectives for the E4 orbit using tables, spreadsheets and timelines. Chapter 3 contains diagrams of various aspects of spacecraft geometry for the E4 orbit. Chapter 4 summarizes the NIMS E4 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 E4 orbit.

For more information on the E4 orbit, please refer to the Galileo Orbit Planning guide and the Galileo Orbit Activity Plan for the E4 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

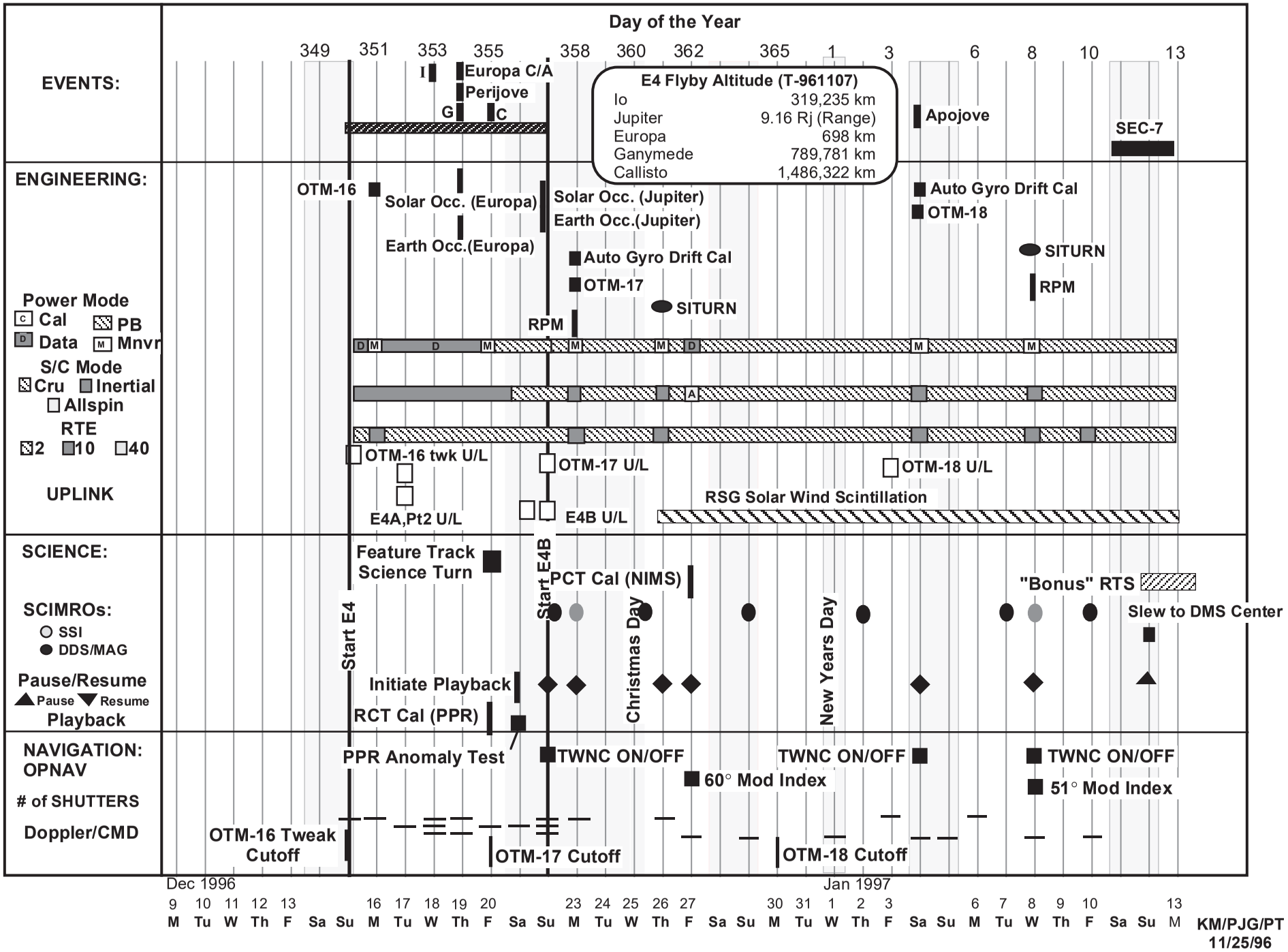
This E4 orbit is the fourth of eleven orbits in Galileo's Tour of the Jovian system. This orbit has a targetted satellite flyby of Europa and two partial eclipses of Io. NIMS will make observations of Jupiter, Io, Europa, Ganymede, Callisto and Jupiter's Ring in this orbit. NIMS will also perform some calibrations in this orbit. The E4 orbit also includes the J5 phasing orbit where Jupiter and Galileo are in conjuction with the Sun. Over a two day period at J5 perijove, NIMS will test the effects of Jupiter's radiation on the NIMS RAM memory chips.

There are ten autonomous reloads of the NIMS RAM code from CDS planned during the E4A encounter period with checksums of the NIMS RAM code before each reload and one reload in the E4B cruise phase. 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 will also do a full MRO of the NIMS RAM code, in two parts during E4A. NIMS will also return realtime data on a daily basis during the E4A 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 J5 phasing orbit takes place in the middle of the E4B load. Within +/- 1day of J5 perijove NIMS will do regular checksums of various segments of NIMS RAM code and store them in unused segments of NIMS memory. These checksum bytes will then be read out using MROs after Solar counjuction during the E4C load.

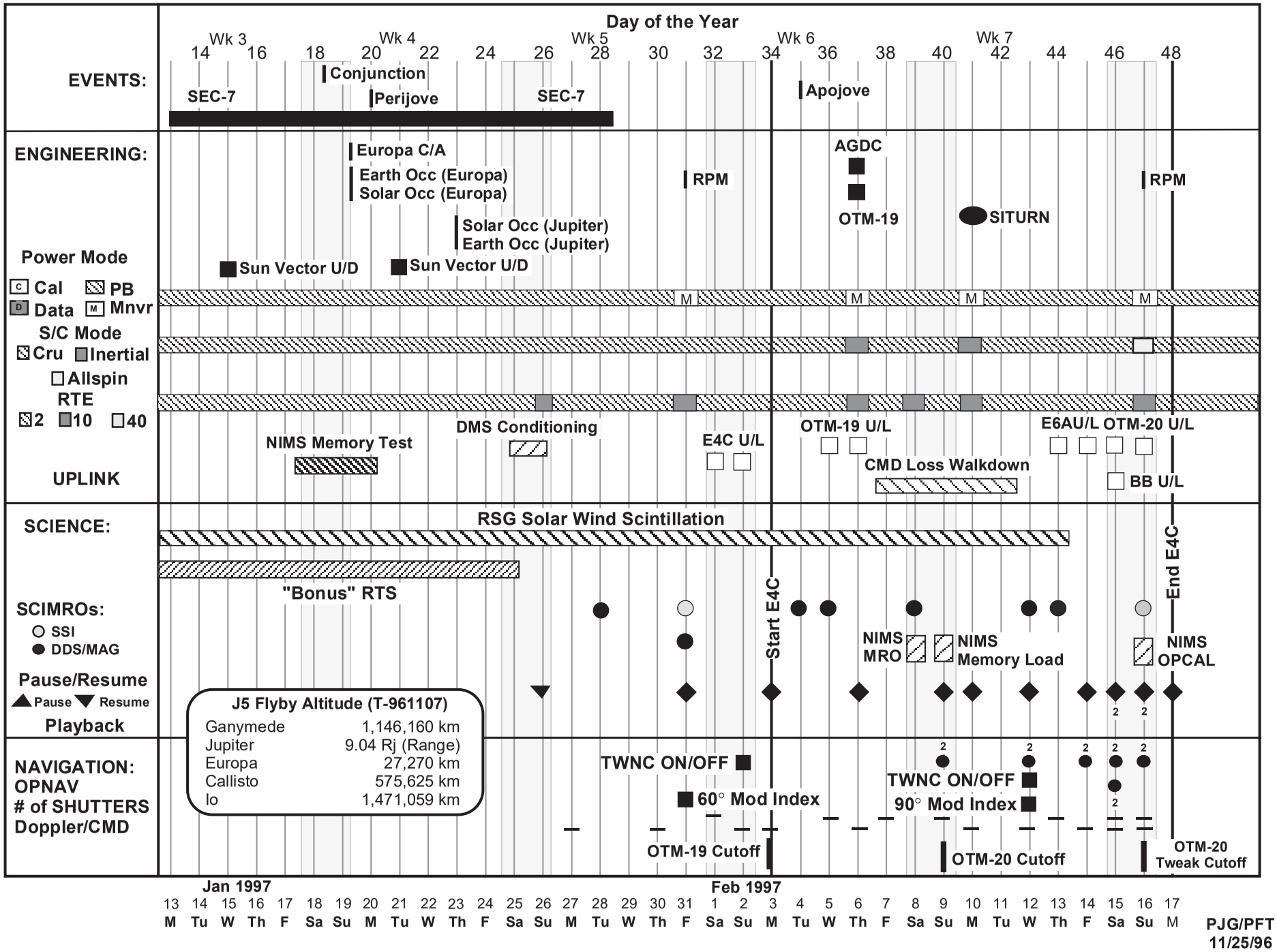
The E4 orbit is divided into 3 sequence loads: one Encounter Load (E4A) and two Orbital Cruise Loads (E4B and E4C). The Encounter Load, E4A, begins on D350 of 1996 (12/15/96) and ends on D357 of 1996 (12/22/96). This load contains the flybys of Jupiter, Europa, Io, Ganymede, Callisto and also the Ring observation. The first Cruise Load, E4B, runs from D357 to D034 and contains the J5 perijove. The second Cruise Load, E4C, runs from D034 to D048. Playback of the recorded data takes place during the two Cruise phases, E4B and E4C with playback halted during solar conjuction. A high-level overview timeline of the E4 orbit can be found on the following two pages.

E4 OVERVIEW (Part 1)



KM/PJG/PT
11/25/96

E4 Overview (Part 2)



PJG/PFT
11/25/96

The following table lists the major events during E4, including NIMS Real Time observations, in UTC.

12/15/96	96-350/00:00:00	E4 Encounter Start
12/17/96	96-352/10:35:24	NIMS R/T Health 01
12/17/96	96-352/20:14:56	NIMS R/T Io 01
12/18/96	96-353/04:02:45	NIMS R/T Health 02
12/18/96	96-353/04:30:23	NIMS RAM Reload 01
12/18/96	96-353/11:25:57	NIMS R/T Jupiter
12/18/96	96-353/12:59:59	NIMS RAM Reload 02
12/18/96	96-353/16:59:37	NIMS RAM Reload 03
12/19/96	96-354/00:10:21	NIMS RAM Reload 04
12/19/96	96-354/03:22:00	Jupiter Closest Approach (PJ4)
12/19/96	96-354/04:30:12	NIMS RAM Reload 05
12/19/96	96-355/06:54:00	Europa Closest Approach (E4)
12/19/96	96-354/09:29:30	NIMS RAM Reload 06
12/19/96	96-354/15:30:28	NIMS RAM Reload 07
12/19/96	96-354/16:09:54	NIMS R/T Io 02
12/20/96	96-355/06:29:20	NIMS RAM Reload 08
12/20/96	96-355/07:59:20	NIMS R/T Health 04
12/20/96	96-355/10:08:45	NIMS RAM Reload 09
12/20/96	96-355/15:19:10	NIMS RAM Reload 10
12/22/96	96-357/10:44:00	Start E4 Playback
12/25/96	96-360/18:59:42	NIMS R/T PCT CAL
01/10/97	97-010/22:14:00	Start Solar Conjuction
01/18/97	96-018/23:48:40	NIMS MEMCHK start
01/20/97	96-020/00:28:00	Jupiter Closest Approach (PJ5)
01/21/97	96-021/00:58:00	NIMS MEMCHK stop
01/28/97	97-028/15:09:00	End Solar Conjuction
02/09/97	97-040/07:27:00	NIMS RAM Reload 11
02/16/97	97-047/18:19:55	NIMS R/T OPCAL
02/17/97	97-048/00:00:00	End E4 Playback

Chapter 2 - Orbit Overview

Contents

Introduction to Chapter 2

This chapter gives an overview of the NIMS observations in the E4 Orbit.

The text on pages 3, 4 and 5 summarizes the NIMS science objectives for E4. The NIMS calibrations are discussed on page 5. Early data return and E4 playback are also discussed on page 5.

The table on pages 6, 7 and 8 is a time-ordered listing of the NIMS Oapels for E4.

The plot on page 9 shows the geometry of the NIMS E4 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 E4 calibrations. The plot on page 13 shows the geometry of the NIMS RAM Reloads and MROs. The plot on page 14 shows the geometry of the NIMS J5 Radiation Study.

The spreadsheet on pages 15 through 17 summarizes the various inputs for the NIMS E4 Observations. The spreadsheet on pages 18 through 23 summarizes the resource usage for the NIMS E4 observations.

The table on pages 24 through 27 lists various NIMS E4 observing parameters: target latitude/longitude, range, cone angle, incidence angle (light), emission angle (view) and phase angle.

The tapemap on pages 28 through 32 shows the placement of the E4 observations on the spacecraft's tape recorder. The NIMS observation names are written with a larger type.

The timeline on pages 33 through 41 shows the preliminary E4 playback schedule.

The NIMS E4 mosaic designs are summarized on pages 42 through 48 in time-order.

NIMS E4 Science Overview

Io Science

NIMS's 14 observations of Io will monitor Io's volcanic activity within plus and minus one day of Io's closest approach. These observations are divided into CHEMIS, THRMAL, VOLCAN, HRSPEC and eclipse observations (WARMCV and COOLCV). The CHEMIS observations will look at Io's dayside over a wide range of longitudes to search for chemical changes. THRMAL observations will look at Io's nightside to search for thermal variations. VOLCAN observations specifically monitor Pele and Loki hotspots on Io's nightside. HRSPEC is a high spectral resolution observation performed at Io's closest approach to map the mineralogy of the surface. NIMS will observe Io going into eclipse and during eclipse for both (DOY352 and 354) eclipse opportunities in E4. These observations are aimed to develop warming and cooling curves of hot spots on Io as Io is eclipsed by Jupiter. NIMS will also return two realtime observations of Io (RTIMON).

Europa Science

NIMS five observations (XDARLI, ASTERI, SUCOMP01, 02 and 03) of Europa will serve to search for compositional variations between the leading and trailing hemispheres with forthcoming orbits. E4 Europa observations will be of the Trailing Hemisphere. XDARLI will do a global observation of Europa's trailing hemisphere covering W. longitudes from 280 to 300 degrees at 204 wavelengths (P/B 102 wavelengths)at a 56 degree phase angle. ASTERI's global observation, part of the trailing hemisphere (245-300 degrees W. long.) of Europa, will be done at 55 degrees phase angle and 102 wavelengths. Three (SUCOMP01,02 and 03) of the five observations will aim to search for mineralogical differences between high and low albedo regions. The SUCOMP observations are done at high spectral (408 wavelengths) and spatial (8-10 km/nimsel) resolutions with similar phase angles (about 60 degrees). SUCOMP01 is an albedo observation. SUCOMP02 is a low albedo observation and SUCOMP03 is a region where possibly hydrated minerals may be concentrated. These global observations of Europa provide a continuous map of the Trailing hemisphere at similar phase angles and resolution; making it a valued data set for understanding the processes on the Trailing hemisphere. Update: Since NIMS' Europa data has been compressing at 1.3 instead of 2.0, XDARLI was deleted to make it possible to return the other observations. It is expected that the longitudes of XDARLI will be used to cover E6ENTERINC01.

Ganymede Science

One scan across Ganymede's lit surface at approximately 400 km resolution. Covers longitude 260 to 30 at LM mode. Only longitudes from 330 to 30 will be played back with 204 wavelengths.

NIMS E4 Science Overview

Callisto Science

One observation of Callisto (GLOBAL01) will be taken by NIMS during E4. The observation is a single scan covering all lit longitudes at 742 km/nimsel spatial resolution and 75 degrees phase in 408 wavelengths (full NIMS spectral capability). Recent IUE observations of Callisto have revealed an interesting absorption (OH) feature which should also be observable within the NIMS wavelengths. The NIMS global mosaic will provide an opportunity to correlate with the IUE data set in this region (165-280 degrees W. Longitude). This observation will also provide NIMS with the ability to target wavelength selection to observe absorptions for later orbits in the tour.

Jupiter Science

NIMS will concentrate on a feature campaign of the North Equatorial Belt (NEB), targeting the 5-micron bright "hot spots" which are prevalent in this region. It is expected that these measurements will enable NIMS to assess the cloud structure, composition and dynamics to greater depths than available anywhere else on the planet. A unique series of feature track observations have been tightly coordinated with the other remote sensing instruments to enable the most detailed assessment possible. In particular, a 90-degree science turn will allow clear, "boomless", measurements at large phase angles, namely 148 degrees (all instruments) and 160 degrees (NIMS only). Other observations will be acquired at 16, 41, 55, and 95 degrees angle, representing the most complete sampling of phase angles thus far achieved.

The Feature Campaign is nominally centered on 7 degrees N. latitude on a Hotspot 330 degrees W. longitude (during the 41 degree phase angle opportunity) which has been well-observed from the ground (notably, the NASA/IRTF). This spot moves eastward, along with the other Hotspots, at approximately 100.3 m/sec, or 7 degrees per day. All NIMS observations account for this wind drift. Each NIMS map covers about 40 degrees of longitude (a 10 X 40 mrad region) and samples 4-25 discrete "colors". Thus NIMS should obtain detailed observations of some of the hottest features on Jupiter.

In addition to the 16 feature track observations over the six phase angles noted above, several high-spectral-resolution maps, each covering about 80 contiguous wavelengths, will be acquired. The FEASUB observations will measure reflectance spectra within several methane and hydrogen absorption features for improved determinations of the altitude-distribution of aerosols within both the stratosphere and the high accessible troposphere. In addition, high-spectra-resolution maps of the 3 and 5 micron spectral regions will be acquired to map out phosphine and water, tracers of deep circulation and higher-altitude meteorology (In particular, phosphine is easily destroyed in the visible atmosphere of Jupiter. Its well-documented presence there indicates replenishment via vigorous upwelling of the material from its formation region deep within the planet). Due to their unusual 5-micron brightness, the hotspots represent the best hope for assessing such trace abundances, again key to understanding upwelling/downwelling circulation deep within Jupiter (~1000 km below the cloud tops, near the 1000 bar and 1000 degrees Kelvin level).

NIMS will also obtain a Partial Feature Track of territory just to the north of the Hotspot-rich NEB. This observation is in 19 colors.

Finally, six maps of the lit disk will be acquired in five colors which together comprise a "global mosaic" which, due to tape limitations, is limited to the northern hemisphere. The nominal downlink allows only about 10 percent of these data to be transmitted on one longitude. However, the entire northern hemisphere will be taped, allowing transmission of the entire northern hemisphere if telemetry improves.

Rings Science

One ring observation, MRING01 has been planned at a distance of approximately 1,550,000 km. The objective of this observation is to study the composition and particle size of the main ring band. NIMS will observe the ring in full map mode (102 wavelengths will be playback out of 204 wavelengths) at a resolution of 775 km per nimsel and a phase angle of 150 degrees.

Calibration

There is one NIMS PCT calibration observations in E4 and an Opcal observation. There are no NIMS RCT calibrations in E4. The PCT calibration occurs just after the start of the E4B load a few days after the OTM burn and will be returned via realtime. The OPCAL will be performed near the end of the E4C load in-bound on the E6 orbit and will be returned via realtime. There are no explicit Dark Sky observations in E4. The instrument’s dark levels will be extracted from off-limb data.

Early Data Return

There are 8 realtime NIMS observations in E4: 3 instrument health checks of 3 wavelengths (HEALTH), 1 408 wavelength Jupiter observation (RTHOTS), 2 8 wavelength Fixed Map Io observations (RTIMON), 1 PCT cal and 1 OPCAL. The times for when these realtime observations will be returned can be found on page 1-05 of the NIMS Guide.

E4 Playback

E4 playback is split into 3 passes and two parts due to solar cunjuction. The first playback segment will start 12/22/96 (D357) at the start of Track 2 where the Europa closest-approach observations are. Solar conjuntion starts 01/10/97 (D010) and ends 01/20/97 (D021). E4 playback is scheduled to end on 02/17/97 (D048).

E4 Time-Ordered Listing

OAPEL	Start (UTC)	End (UTC)	Duration
E4NNSHDOFF01-	96-350/02:33:38	96-350/02:37:40	000/00:04:02
E4NNCHOPON01-	96-352/03:01:35	96-352/03:11:42	000/00:10:06
E4JNGLOMOS01-	96-352/03:21:48	96-352/03:36:49	000/00:15:00
E4JNGLOMOS02-	96-352/04:59:53	96-352/05:14:54	000/00:15:00
E4JNGLOMOS03-	96-352/06:03:35	96-352/06:18:36	000/00:15:00
E4JNGLOMOS04-	96-352/08:40:18	96-352/08:55:19	000/00:15:00
E4JNGLOMOS05-	96-352/10:20:24	96-352/10:35:20	000/00:14:56
E4NNHEALTH01-	96-352/10:35:24	96-352/10:38:36	000/00:03:12
E4JNGLOMOS06-	96-352/11:59:30	96-352/12:14:28	000/00:14:58
E4JNFEA05501-	96-352/15:37:54	96-352/15:50:02	000/00:12:08
E4JNFEA05502-	96-352/15:50:29	96-352/16:02:10	000/00:11:40
E4JNFEA05503-	96-352/16:58:47	96-352/17:10:55	000/00:12:08
E4INCOOLCV01-	96-352/19:05:10	96-352/19:19:20	000/00:14:09
E4INRTIMON01-	96-352/20:14:56	96-352/20:23:02	000/00:08:05
E4INWARMCV01-	96-352/21:22:41	96-352/21:36:50	000/00:14:09
E4INWARMCV02-	96-352/22:01:06	96-352/22:04:08	000/00:03:02
E4JNFEA04101-	96-353/01:24:20	96-353/01:36:28	000/00:12:08
E4JNPFTA4101-	96-353/01:37:29	96-353/01:48:35	000/00:11:06
E4JNFEA04102-	96-353/01:48:36	96-353/01:57:42	000/00:09:06
E4JNFEA04103-	96-353/03:12:32	96-353/03:50:57	000/00:38:25
E4JNPFTA4102-	96-353/03:51:30	96-353/04:02:28	000/00:10:57
E4NNHEALTH02-	96-353/04:02:45	96-353/04:06:07	000/00:03:22
E4NNRELOAD01-	96-353/04:30:23	96-353/04:45:33	000/00:15:10
E4INCHEMIS01-	96-353/05:32:04	96-353/05:39:48	000/00:07:44
E4JNAWGWIN01-	96-353/08:46:12	96-353/16:41:25	000/07:55:13
E4JNRTHOTS01-	96-353/11:25:57	96-353/11:31:00	000/00:05:03
E4JNFEA01601-	96-353/11:45:10	96-353/11:54:49	000/00:09:39
E4JNFEA01602-	96-353/11:54:59	96-353/12:08:20	000/00:13:21
E4INVOLCAN05-	96-353/12:18:32	96-353/12:32:41	000/00:14:09
E4NNRELOAD02-	96-353/12:59:59	96-353/13:15:09	000/00:15:10
E4JNPFTA1602-	96-353/13:22:14	96-353/13:33:21	000/00:11:07
E4JNFEA01604-	96-353/13:34:22	96-353/13:49:32	000/00:15:10

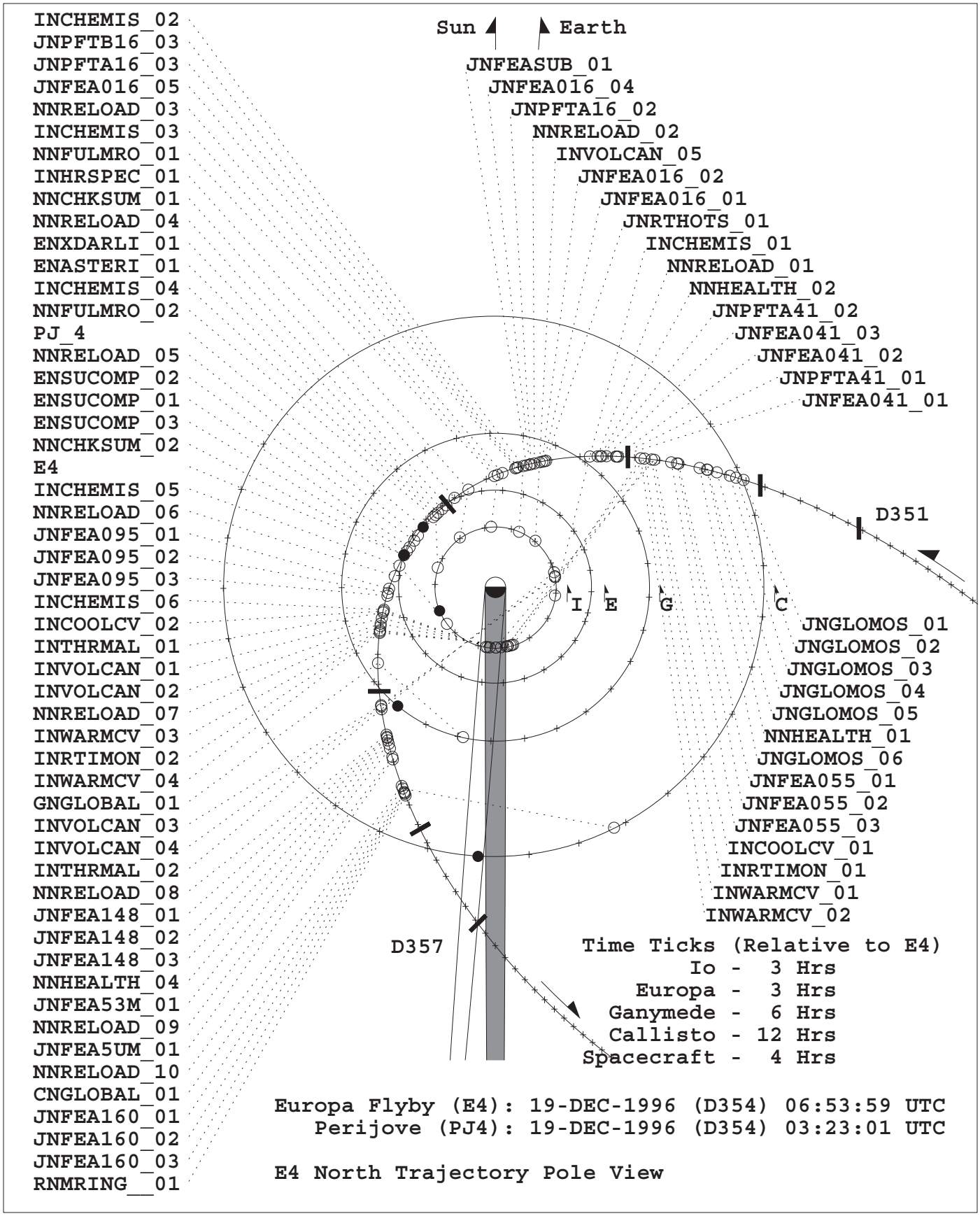
E4 Time-Ordered Listing

OAPEL	Start (UTC)	End (UTC)	Duration
E4JNFEASUB01-	96-353/13:51:33	96-353/14:20:52	000/00:29:19
E4INCHEMIS02-	96-353/14:21:53	96-353/14:32:00	000/00:10:06
E4JNPFTB1603	96-353/15:03:20	96-353/15:11:26	000/00:08:05
E4JNPFTA1603-	96-353/15:11:32	96-353/15:23:34	000/00:12:01
E4JNFEA01605-	96-353/15:24:34	96-353/15:39:44	000/00:15:10
E4NNRELOAD03-	96-353/16:59:37	96-353/17:14:47	000/00:15:10
E4INCHEMIS03-	96-353/17:31:58	96-353/17:45:07	000/00:13:08
E4NNFULMRO01-	96-353/17:50:10	96-353/21:10:22	000/03:20:12
E4INHRSPEC01-	96-353/21:14:25	96-353/21:50:49	000/00:36:23
E4NNCHKSUM01-	96-353/22:59:34	96-353/23:14:44	000/00:15:10
E4NNRELOAD04-	96-354/00:10:21	96-354/00:25:31	000/00:15:10
E4ENXDARLI01-	96-354/00:44:44	96-354/01:05:58	000/00:21:14
E4ENASTERI01-	96-354/01:17:05	96-354/01:36:18	000/00:19:12
E4INCHEMIS04-	96-354/01:40:20	96-354/01:54:30	000/00:14:09
E4NNFULMRO02-	96-354/01:57:32	96-354/03:59:52	000/02:02:20
E4NNRELOAD05-	96-354/04:30:12	96-354/04:45:22	000/00:15:10
E4ENSUCOMP02-	96-354/05:08:38	96-354/05:32:44	000/00:24:06
E4ENSUCOMP01-	96-354/05:54:08	96-354/06:14:21	000/00:20:13
E4ENSUCOMP03-	96-354/06:26:29	96-354/06:40:38	000/00:14:09
E4NNCHKSUM02-	96-354/06:59:51	96-354/07:15:01	000/00:15:10
E4INCHEMIS05-	96-354/08:14:40	96-354/08:24:47	000/00:10:06
E4NNRELOAD06-	96-354/09:29:30	96-354/09:44:40	000/00:15:10
E4JNFEA09501-	96-354/10:54:26	96-354/11:03:06	000/00:08:40
E4JNFEA09502-	96-354/11:27:48	96-354/11:39:28	000/00:11:40
E4JNFEA09503-	96-354/11:46:00	96-354/11:57:40	000/00:11:40
E4INCHEMIS06-	96-354/13:25:05	96-354/13:33:03	000/00:07:58
E4INCOOLCV02-	96-354/13:36:12	96-354/13:51:22	000/00:15:10
E4INTHRMAL01-	96-354/13:51:56	96-354/13:57:26	000/00:05:30
E4INVOLCAN01-	96-354/14:31:49	96-354/14:37:53	000/00:06:04
E4INVOLCAN02-	96-354/15:07:12	96-354/15:13:16	000/00:06:04
E4NNRELOAD07-	96-354/15:30:28	96-354/15:45:38	000/00:15:10
E4INWARMCV03-	96-354/15:53:43	96-354/16:08:53	000/00:15:10

E4 Time-Ordered Listing

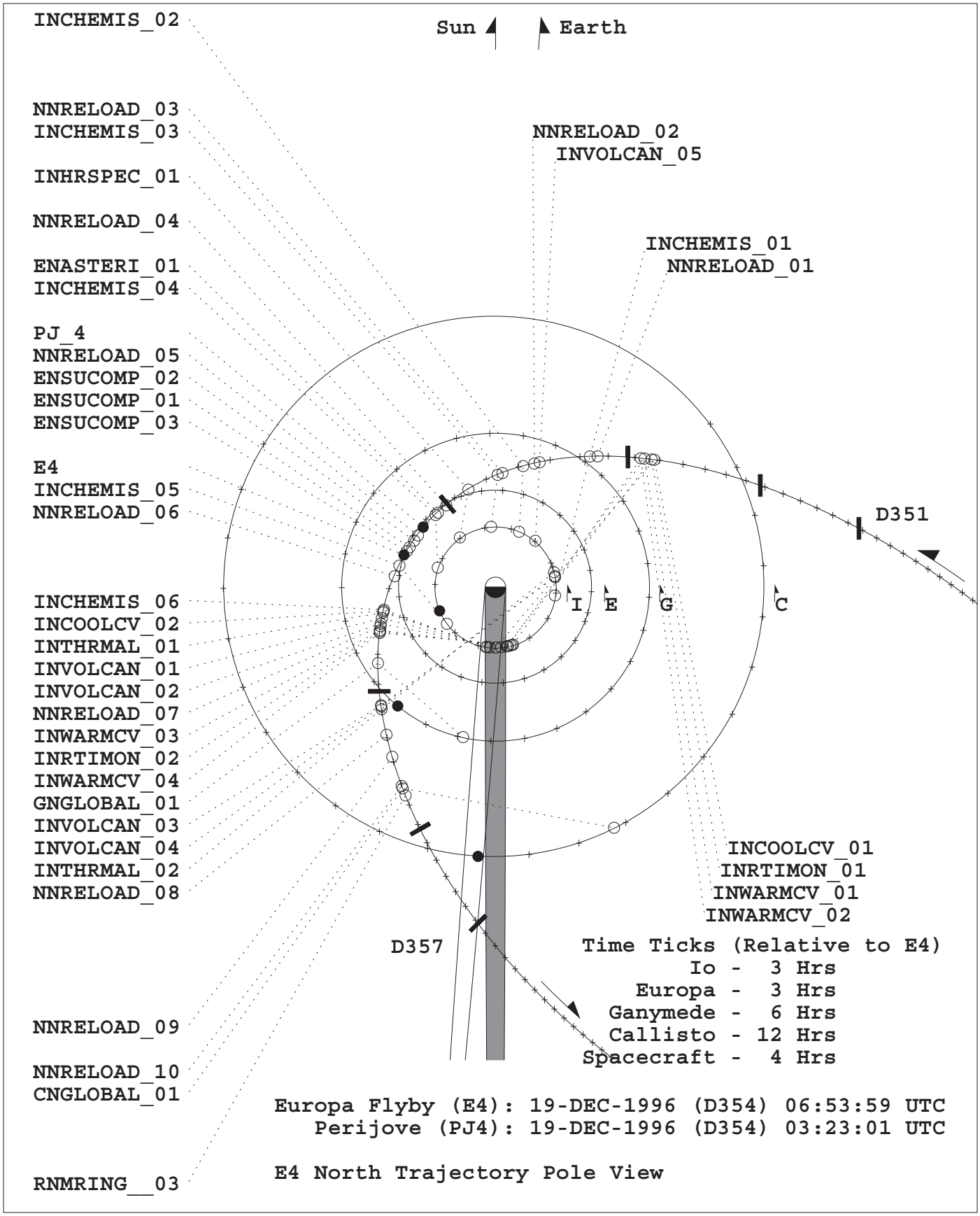
OAPEL	Start (UTC)	End (UTC)	Duration
E4INRTIMON02-	96-354/16:09:54	96-354/16:17:59	000/00:08:05
E4INWARMCV04-	96-354/16:19:00	96-354/16:24:16	000/00:05:16
E4GNGLOBAL01-	96-354/20:06:30	96-354/20:15:35	000/00:09:05
E4INVOLCAN03-	96-355/02:01:24	96-355/02:07:28	000/00:06:04
E4INVOLCAN04-	96-355/02:08:28	96-355/02:14:07	000/00:05:38
E4INTHRMAL02-	96-355/02:34:46	96-355/02:41:16	000/00:06:30
E4JNSCITRN01-	96-355/03:59:42	96-355/17:55:53	000/13:56:11
E4NNRELOAD08-	96-355/06:29:20	96-355/06:45:31	000/00:16:10
E4JNFEA14801-	96-355/06:49:34	96-355/06:58:53	000/00:09:19
E4JNFEA14802-	96-355/07:01:42	96-355/07:09:00	000/00:07:18
E4JNFEA14803-	96-355/07:21:55	96-355/07:29:13	000/00:07:18
E4NNHEALTH04-	96-355/07:59:20	96-355/08:03:22	000/00:04:02
E4JNFEA53M01-	96-355/08:44:50	96-355/09:40:26	000/00:55:36
E4NNRELOAD09-	96-355/10:08:45	96-355/10:24:56	000/00:16:10
E4JNFEA5UM01-	96-355/10:32:00	96-355/11:23:48	000/00:51:47
E4NNRELOAD10-	96-355/15:19:10	96-355/15:35:20	000/00:16:10
E4CNGLOBAL01-	96-355/15:46:27	96-355/15:54:33	000/00:08:05
E4JNFEA16001-	96-355/16:30:57	96-355/16:38:08	000/00:07:11
E4JNFEA16002-	96-355/16:41:03	96-355/16:46:07	000/00:05:03
E4JNFEA16003-	96-355/16:48:08	96-355/16:53:06	000/00:04:57
E4RNMRING_01-	96-355/17:07:21	96-355/17:43:11	000/00:35:50
E4NNCHOPOF01	96-355/17:46:47	96-355/17:56:54	000/00:10:06
E4NNPCTRLT01-	96-360/18:59:42	96-363/02:49:30	002/07:49:48
E4NNMEMCHK01-	97-018/23:48:40	97-021/00:58:00	002/01:09:20
E4NNMEMCHK02-	97-039/21:20:20	97-039/23:16:00	000/01:55:39
E4NNRELOAD11-	97-040/07:27:00	97-040/07:36:00	000/00:08:59
E4NNE6PREP01-	97-045/23:00:23	97-045/23:30:43	000/00:30:20
E4NNOPCAL_01-	97-047/18:19:55	97-047/18:37:06	000/00:17:11

NIMS E4 OBSERVATIONS



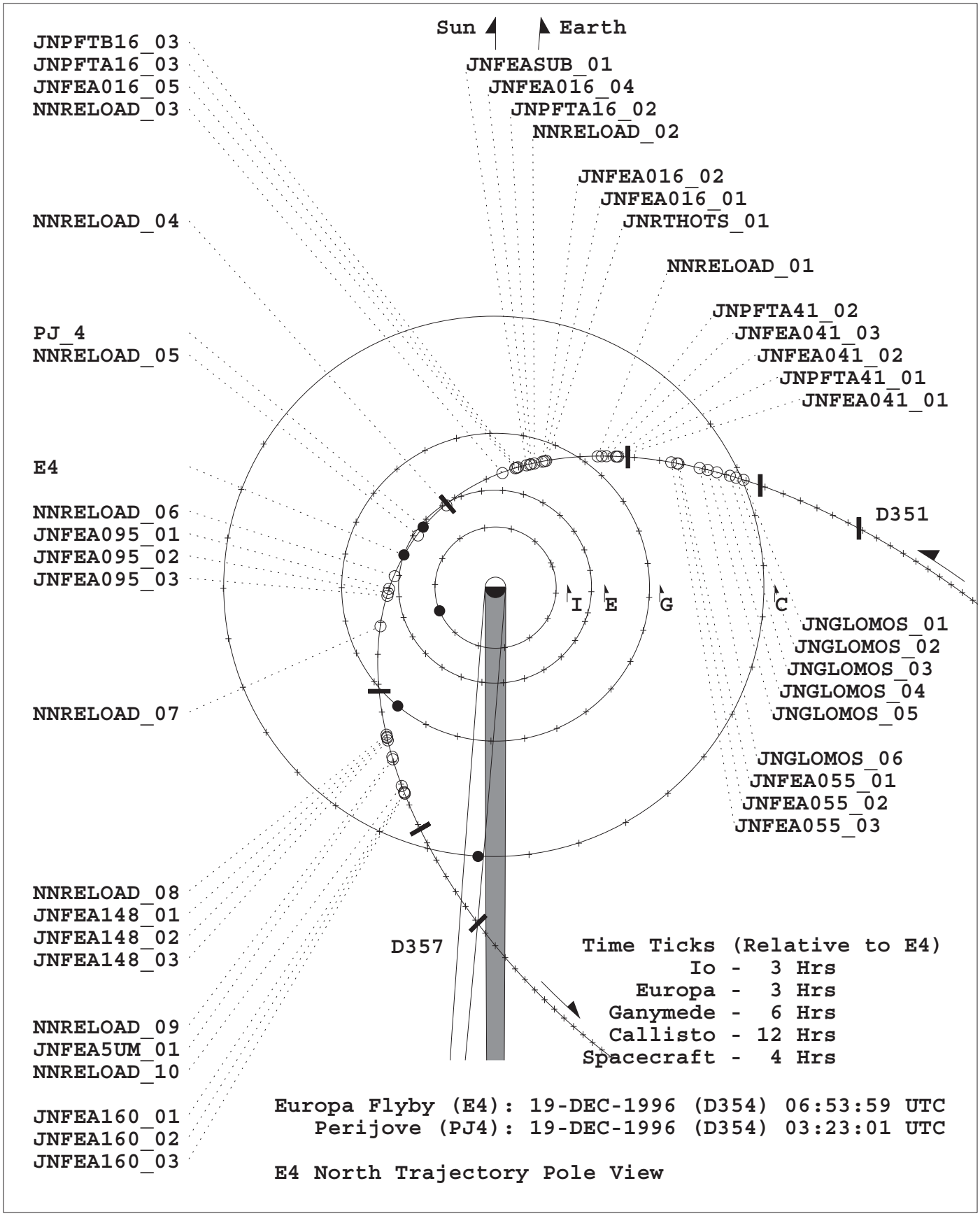
NIMS - FEL - 11/18/96

NIMS E4 SATELLITE OBSERVATIONS



NIMS - FEL - 11/18/96

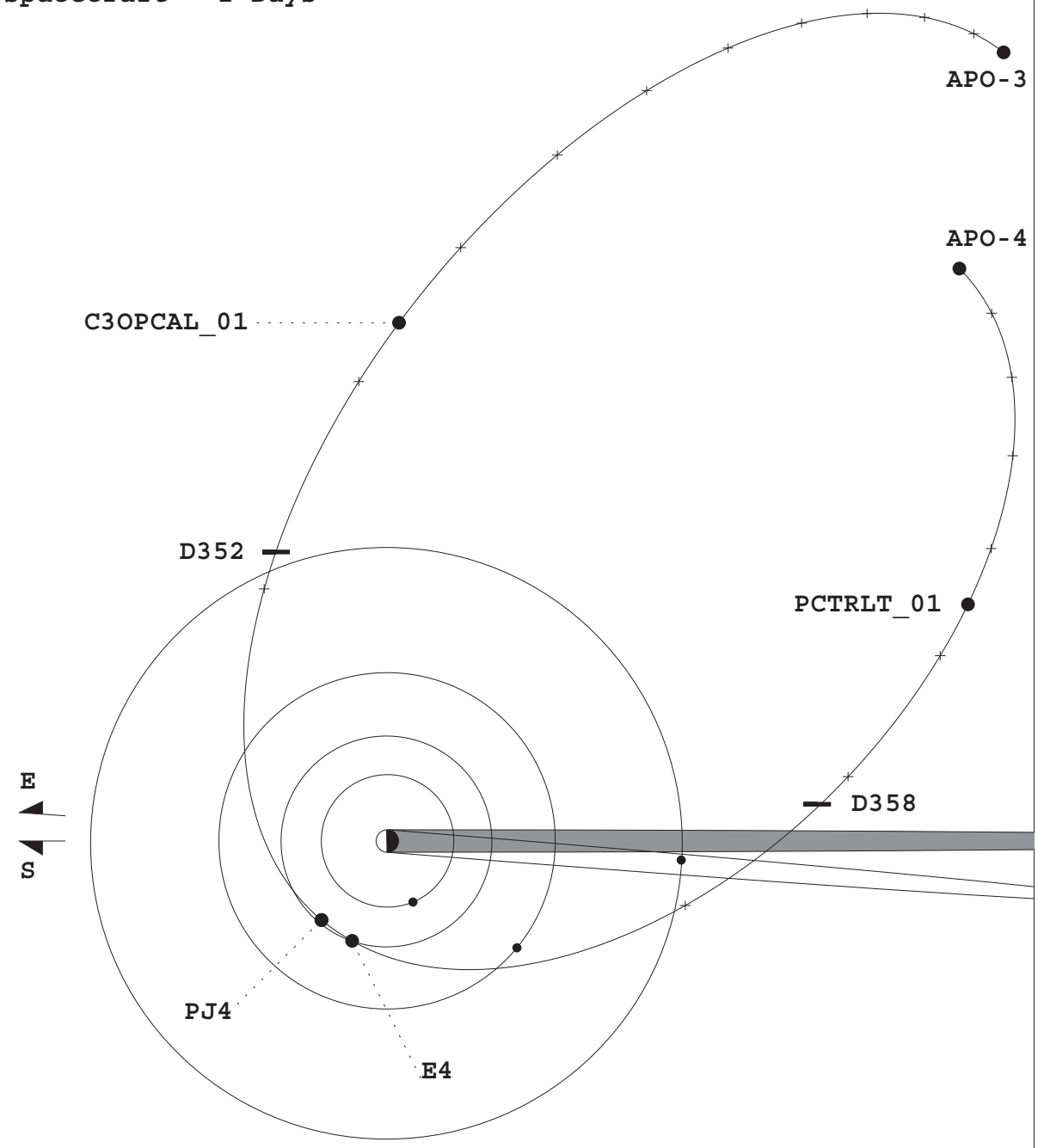
NIMS E4 JUPITER OBSERVATIONS



NIMS - FEL - 11/18/96

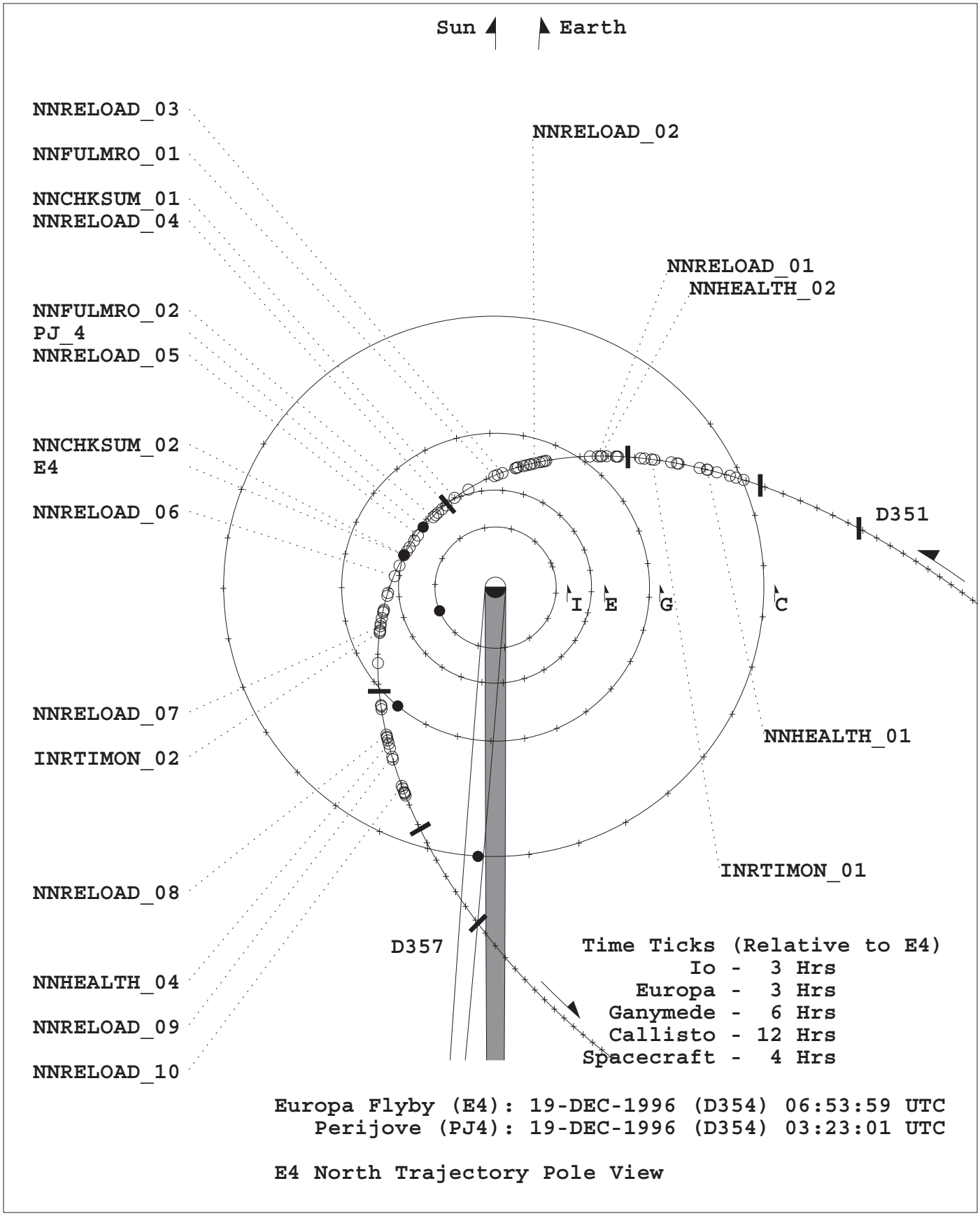
NIMS E4 CALIBRATIONS

Europa Flyby (E4): 19-DEC-1996 (D354) 06:53:59 UTC
Perijove (PJ4): 19-DEC-1996 (D354) 03:23:01 UTC



E4 North Trajectory Pole View, Apoapsis to Apoapsis

NIMS E4 RAM RELOADS

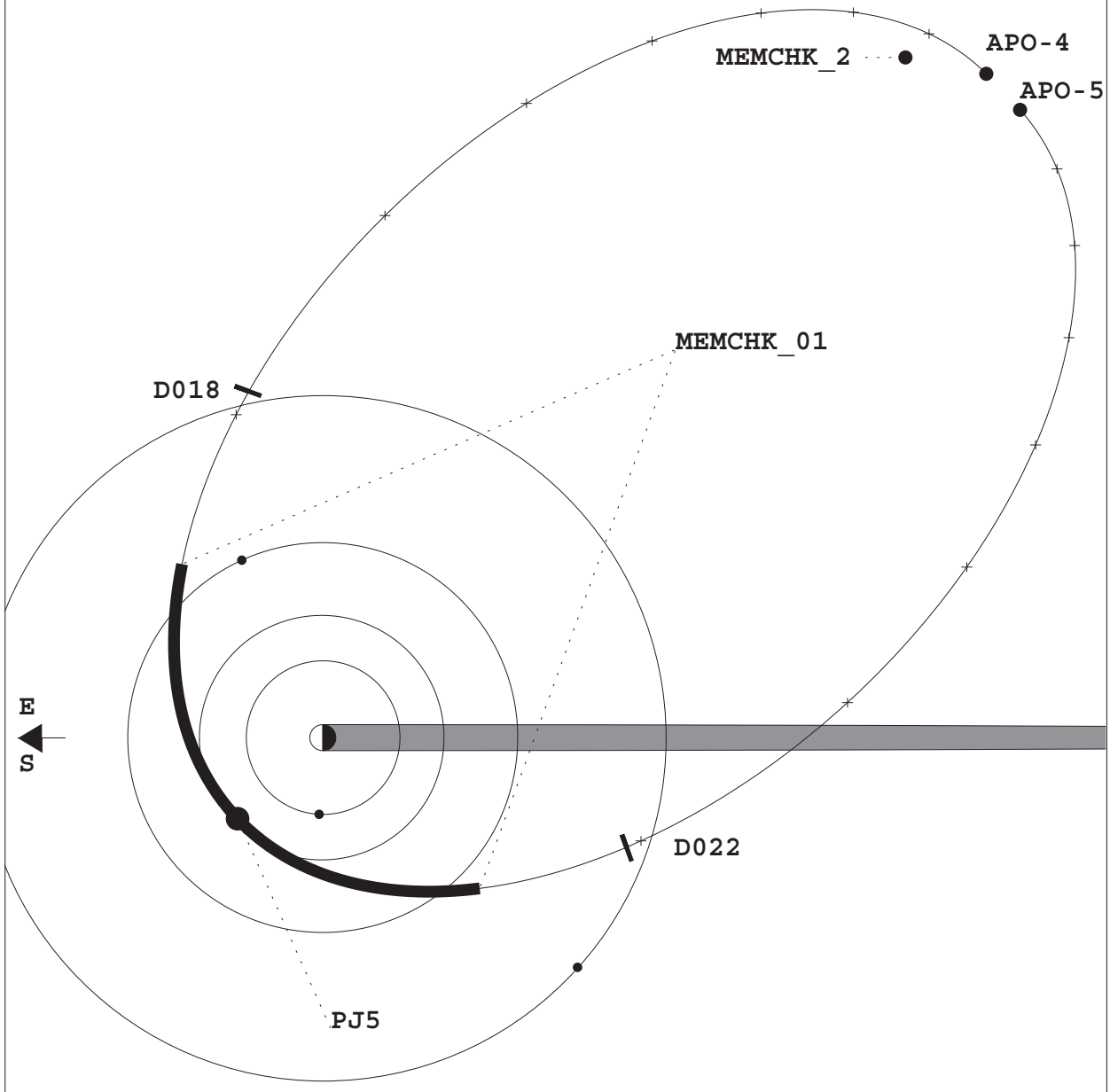


NIMS - FEL - 11/18/96

NIMS J5 RADIATION STUDY

Perijove (PJ5): 20-JAN-1997 (D020) 00:28:42 UTC

Time Ticks (Relative to J5)
Spacecraft - 2 Days



J5 North Trajectory Pole View, Apoapsis to Apoapsis

Updated NIMS Inputs

Activity ID	Observation Title	Mode	Gain	Record Format	NIMS Edit table	NIMS Playback Table	Grating Start Position	ACTID
E4ENSUCOMP02-	Surface Composition / Dark Ice	LM	3	LPU	E4ELM245	E4ELM192	0	**E4ENSUCOMP02-**
E4ENSUCOMP01-	Surface Composition / Light Ice	LM	3	MPW	E4ELM442	E4ELM192	0	**E4ENSUCOMP01-**
E4ENSUCOMP03-	Surface Composition of Double Linea Area	LM	3	MPW	E4ELM442	E4ELM384	0	**E4ENSUCOMP03-**
E4JNFEA09501-	Jupiter Camp. feat. 95 deg. phase Prt 1	SM	2	LPU	E4JFT68A	E4JFT04A	1	E4JNFEA09501-
E4JNFEA09502-	Jupiter Camp. feat. 95 deg. phase Prt 2	SM	2	LPU	E4JFT68A	E4JFT04A	1	E4JNFEA09502-
E4JNFEA09503-	Jupiter Camp. feat. 95 deg. phase Prt 3	SM	2	LPU	E4JFT68A	E4JFT05A	1	E4JNFEA09503-
E4GNGLOBAL01-	Ganymede Global Map	LM	3	MPW	E4GLM442	E4GLM204	0	**E4GNGLOBAL01-**
E4JNGLOMOS04-	Jupiter Global Mosaic Prt 4	XM	2	LPU	E4JGM10A	E4JGM05A	5	**E4JNGLOMOS04-**
E4JNGLOMOS05-	Jupiter Global Mosaic Prt 5	XM	2	LPU	E4JGM10A	E4JGM05A	5	**E4JNGLOMOS05-**
E4NNHEALTH01-	E4 Health 1	LM	2	Real Time	E4RCVY3		0	E4NNHEALTH01-
E4JNGLOMOS06-	Jupiter Global Mosaic Prt 6	XM	2	LPU	E4JGM10A	E4JGM05A	5	**E4JNGLOMOS06-**
E4JNFEA14801-	Jupiter Camp. feat. 148 deg. phase Prt 1	SM	2	LPU	E4JFT68B	E4JFT15A	1	E4JNFEA14801-
E4JNFEA14802-	Jupiter Camp. feat. 148 deg. phase Prt 2	SM	2	LPU	E4JFT68B	E4JFT15A	1	E4JNFEA14802-
E4JNFEA14803-	Jupiter Camp. feat. 148 deg. phase Prt 3	SM	2	LPU	E4JFT68B	E4JFT15A	1	E4JNFEA14803-
E4JNFEA53M01-(A)	Jupiter Campaign feature 5 & 3 um maps	LM	4	LPU	E4J35160	E4J35160	0	E4JNFEA53M01-(A)
E4INRTIMON01-	Real Time Io monoring	XM	2	Real Time	E4IXM8RT		21	E4INRTIMON01-
E4JNFEA5UM01-	Jupiter Campaign feat. 5 micron map # 2	LM	4	LPU	E4J5M253B	E4J5M80B	0	**E4JNFEA5UM01-**
E4JNFEA16001-	Jupiter Camp. feat. 160 deg. phase Prt 1	SM	2	LPU	E4JFT68A	E4JFT04A	1	E4JNFEA16001-
E4JNFEA16002-	Jupiter Camp. feat. 160 deg. phase Prt 2	SM	2	LPU	E4JFT68A	E4JFT04A	1	E4JNFEA16002-
E4JNPFTA4101-	Jup. Prt. Feat. Tr. A 41 deg Phse Prt 1	SM	2	LPU	E4JFT68C	E4JFT19A	1	**E4JNPFTA4101-**
E4JNFEA16003-	Jupiter Camp. feat. 160 deg. phase Prt 3	SM	2	LPU	E4JFT68A	E4JFT04A	1	E4JNFEA16003-
E4RNMRING 01-	Main Ring Observation	FM	4	LPU	E4RFM126	E4RFM001	0	**E4RNMRING 01-**
E4JNFEA04103-(B)	Jupiter Camp. feat. 41 deg. phase Prt 3	SM	2	LPU	E4JFT68C	E4JFT19A	1	**E4JNFEA04103-(B)**
E4JNPFTA4102-	Jup. Prt. Feat. Tr. A 41 deg Phse Prt 2	SM	2	LPU	E4JFT68C	E4JFT19A	1	**E4JNPFTA4102-**
E4NNHEALTH02-	E4 Health 2	LM	2	Real Time	E4RCVY3		0	E4NNHEALTH02-
E4NNRELOAD01-								
E4INCHEMIS01-	Monitoring of Io's Dayside	LM	2	LPU	E4ILM245	E4ILM102	0	E4INCHEMIS01-
E4JNRTHOTS01-	Jupiter Real Time Hot Spot	LM	2	Real Time	E4JFEA442A	Real Time	0	E4JNRTHOTS01-
E4INCOOLCV02-	NIMS Io Eclipse Observation (ingress)	XM	4	LPU	E4IXM10B	E4IXM10B	21	**E4INCOOLCV02-**
E4INWARMCV04-	NNIMS Io Eclipse Obs. (post-egress)	XM	2	LPU	E4IXM10B	E4IXM10B	21	**E4INWARMCV04-**
E4NNHEALTH05-	E4 Health 5	LM	2	Real Time	E4RCVY3		0	E4NNHEALTH05-
E4JNGLOMOS01-	Jupiter Global Mosaic Prt 1	XM	2	LPU	E4JGM10A	E4JGM05A	5	**E4JNGLOMOS01-**
E4INVOLCAN05-	Monitoring of Selected Volcanic Regions	XM	2	LPU	E4IXM10B	E4IXM10B	21	E4INVOLCAN05-
E4NNRELOAD02-								
E4JNPFTA1602-	Jup. Prt. Feat. Tr. A 16 deg Phse Prt 2	SM	2	LPU	E4JFT68C	E4JFT19A	1	**E4JNPFTA1602-**
E4JNGLOMOS02-	Jupiter Global Mosaic Prt 2	XM	2	LPU	E4JGM10A	E4JGM05A	5	**E4JNGLOMOS02-**
E4JNFEA05501-	Jupiter Camp. feat. 55 deg. phase Prt 1	SM	2	LPU	E4JFT68A	E4JFT05A	1	E4JNFEA05501-
E4JNFEA05502-	Jupiter Camp. feat. 55 deg. phase Prt 2	SM	2	LPU	E4JFT68A	E4JFT04A	1	E4JNFEA05502-

Updated NIMS Inputs

Activity ID	Observation Title	Mode	Gain	Record Format	NIMS Edit table	NIMS Playback Table	Grating Start Position	ACTID
E4INCHEMIS02-	Monitoring of Io's Dayside	LM	2	LPU	E4ILM245	E4ILM102	0	**E4INCHEMIS02-**
E4JNFEA05503-	Jupiter Camp. feat. 55 deg. phase Prt 3	SM	2	LPU	E4JFT68A	E4JFT04A	1	E4JNFEA05503-
E4JNPFTA1603-	Jup. Prt. Feat. Tr. A 16 deg Phse Prt 3	SM	2	LPU	E4JFT68C	E4JFT19A	1	**E4JNPFTA1603-**
E4JNFEA01605-	Jupiter Camp. feat. 16 deg. phase Prt 5	SM	2	LPU	E4JFT68C	E4JFT19A	1	**E4JNFEA01605-**
E4NNRELOAD03-								
E4INCHEMIS03-	Monitoring of Io's Dayside	LM	2	LPU	E4ILM245	E4ILM228	0	**E4INCHEMIS03-**
E4NNFULMRO01-								E4NNFULMRO01-
E4INHRSPEC01-	High Spatial & Spectral Obs. of Io	LM	2	LPU	E4ILM245	E4ILM102	0	E4INHRSPEC01-
E4NNCKSUM01-								E4NNCHKSUM01
E4NNRELOAD04-								
E4ENXDARLI01-	Europa Linea Region Observation	FM	3,2,3	MPW	E4EFM221	E4EFM102	0	E4ENXDARLI01-
E4INCOOLCV01-	NIMS Io Eclipse Observation (ingress)	XM	4	LPU	E4IXM10B	E4IXM10B	21	**E4INCOOLCV01-**
E4INWARMCV02-	NIMS Io Eclipse Obs. (post-egress)	XM	2	LPU	E4IXM10B	E4IXM10B	21	**E4INWARMCV02-**
E4INCHEMIS04-	Monitoring of Io's Dayside	LM	2	LPU	E4ILM245	E4ILM102	0	**E4INCHEMIS04-**
E4NNFULMRO01-								E4NNFULMRO02-
E4NNRELOAD05-								
E4JNFEA04101-	Jupiter Camp. feat. 41 deg. phase Prt 1	SM	2	LPU	E4JFT68A	E4JFT04A	1	E4JNFEA04101-
E4JNFEA04102-	Jupiter Camp. feat. 41 deg. phase Prt 2	SM	2	LPU	E4JFT68A	E4JFT04A	1	E4JNFEA04102-
E4JNFEA04103-(A)	Jupiter Camp. feat. 41 deg. phase Prt 3	SM	2	LPU	E4JFT68A	E4JFT04A	1	E4JNFEA04103-(A)
E4JNFEA01601-	Jupiter Camp. feat. 16 deg. phase Prt 1	SM	2	LPU	E4JFT68C	E4JFT19A	1	E4JNFEA01601-
E4JNFEA01602-	Jupiter Camp. feat. 16 deg. phase Prt 2	SM	2	LPU	E4JFT68C	E4JFT25A	1	E4JNFEA01602-
E4JNFEA01604-	Jupiter Camp. feat. 16 deg. phase Prt 4	SM	2	LPU	E4JFT68C	E4JFT25A	1	**E4JNFEA01604-**
E4NNCKSUM02-								E4NNCHKSUM02
E4INCHEMIS05-	Monitoring of Io's Dayside	LM	2	LPU	E4ILM245	E4ILM228	0	E4INCHEMIS05-
E4NNRELOAD06-								
E4JNFEASUB01-	Jupiter Campaign feature sub- specra	LM	2	LPU	E4JSB253A	E4JSB80A	0	E4JNFEASUB01-
E4JNPFTB1603	Jup. partial feat. tr. for feat. B Prt 4	SM	2	LPU	E4JFT68C	E4JFT19A	1	E4JNPFTB1603
E4INHRSPEC01-	High Spatial & Spectral Obs. of Io		2		E4ILM245	E4ILM001		
E4ENASTERI01-	Europa Global Mosaic	FM	3,2	LPU	E4EFM126	E4EFM96	0	E4ENASTERI01-
E4INCHEMIS06-	Monitoring of Io's Dayside	LM	2	MPW	E4ILM442	E4ILM204	0	E4INCHEMIS06-
E4ENSUCOMP02-	Surface Composition / Dark Ice	LM	3	LPU	E4ELM245	E4ELM192	0	**E4ENSUCOMP02-**
E4INTHRMAL01-	Monitoring of Io's Nightside	LM	4	LPU	E4ILMDK245	E4ILMDK102	0	**E4INTHRMAL01-**
E4INVOLCAN01-	Monitoring of Selected Volcanic Regions	LM	2	LPU	E4ILM245	E4ILM102	0	E4INVOLCAN01-
E4INVOLCAN02-	Monitoring of Selected Volcanic Regions	LM	4	LPU	E4ILMDK245	E4ILMDK228	0	E4INVOLCAN02-
E4NNRELOAD07-								
E4ENSUCOMP01-	Surface Composition / Light Ice	LM	3	MPW	E4ELM442	E4ELM192	0	**E4ENSUCOMP01-**
E4INRTIMON02	Real Time Io Monitoring	XM	2	Real Time	E4IXM8RT		21	E4INRTIMON02-
E4ENSUCOMP03-	Surface Composition of Double Linea Area	LM	3	MPW	E4ELM442	E4ELM384	0	**E4ENSUCOMP03-**

Updated NIMS Inputs

Activity ID	Observation Title	Mode	Gain	Record Format	NIMS Edit table	NIMS Playback Table	Grating Start Position	ACTID
E4INWARMCV03-	NIMS Io Eclipse Observation (egress)	XM	2	LPU	E4IXM10B	E4IXM10B	21	**E4INWARMCV03-**
E4INVOLCAN03-	Monitoring of Selected Volcanic Regions	LM	4	LPU	E4ILMDK245	E4ILMDK102	0	**E4INVOLCAN03-**
E4INVOLCAN04-	Monitoring of Selected Volcanic Regions	LM	4	LPU	E4ILMDK245	E4ILMDK102	0	**E4INVOLCAN04-**
E4INTHRMAL02-	Monitoring of Io's Nightside	LM	4	LPU	E4ILMDK245	E4ILMDK102	0	**E4INTHRMAL02-**
E4NNRELOAD08								
E4JNFEA53M01-(A)	Jupiter Campaign feature 5 & 3 um maps	LM	4	LPU	E4J35160	E4J35160	0	E4JNFEA53M01-(A)
E4JNGLOMOS03-	Jupiter Global Mosaic Prt 3	XM	2	LPU	E4JGM10A	E4JGM05A	5	**E4JNGLOMOS03-**
E4INWARMCV01-	NIMS Io Eclipse Observation (egress)	XM	2	LPU	E4IXM10B	E4IXM10B	21	**E4INWARMCV01-**
E4NNHEALTH04-	E4 Health 4	LM	2	Real Time	E4RCVY3		0	E4NNHEALTH04-
E4JNFEASUB01-	Jupiter Campaign feature sub- specra	LM	2	LPU	E4JSB253A	E4JSB80A	0	E4JNFEASUB01-
E4JNFEA01602-	Jupiter Camp. feat. 16 deg. phase Prt 2	SM	2	LPU	E4JFT68C	E4JFT25A	1	E4JNFEA01602-
E4JNFEA53M01-(B)	Jupiter Campaign feature 5 & 3 um maps	LM	4	LPU	E4J35160	E4J35160	0	E4JNFEA53M01-(B)
E4INHRSPEC01-	High Spatial & Spectral Obs. of Io		2		E4ILM245	E4ILM102		
E4ENASTERI01-	Europa Global Mosaic	FM	2,3	LPU	E4EFM126	E4EFM96	0	E4ENASTERI01-
E4CNGLOBAL01-	Callisto Global Coverage	LM	4	LPU	E4CLM245	E4CLM204	0	**E4CNGLOBAL01-**
E4RNMRING 01-	Main Ring Observation	FM	4	LPU	E4RFM126	E4RFM102	0	**E4RNMRING 01-**
E4NNPCTCAL01-	NIMS PCT Calibration	LM	4	Real Time	E4PCT252	Real Time	0	E4NNPCTRLT01-
								Total
								Allocated
								Oversubscribed

(Recorded observations in playback order)

NIMS E4 Instrument States and Resource Usage

12/20/96

ACTID	Activity ID	NIMS mode	Record mode	Grating Start Position	Tics	Obs. Cost (tracks)	Number wavelengths returned	Observation record time (sec)	Observation playback time (sec)	Selected Bits of Tape sBOT (Mbits)	Total Bits of Tape BOT (Mbits)
E4ENSUCOMP02-	E4ENSUCOMP02-	LM	LPU	0	264.9	0.0381	192	1126	390	2.41	6.95
E4ENSUCOMP01-	E4ENSUCOMP01-	LM	MPW	0	975.1	0.1396	192	1106	250	2.88	12.74
E4ENSUCOMP03-	E4ENSUCOMP03-	LM	MPW	0	678.0	0.0970	384	768	192	2.21	8.85
E4JNFEA09501-	E4JNFEA09501-	SM	LPU	1	95.2	0.0138	4	402	399	2.46	2.48
E4JNFEA09502-	E4JNFEA09502-	SM	LPU	1	95.2	0.0138	4	402	399	2.46	2.48
E4JNFEA09503-	E4JNFEA09503-	SM	LPU	1	7.3	0.0012	5	27	27	0.17	0.17
E4GNGLOBAL01-	E4GNGLOBAL01-	LM	MPW	0	210.4	0.0300	204	236	90	1.04	2.72
E4JNGLOMOS04-	E4JNGLOMOS04-	XM	LPU	5	64.8	0.0094	5	272	94	0.58	1.68
E4JNGLOMOS05-	E4JNGLOMOS05-	XM	LPU	5	64.8	0.0094	5	272	94	0.58	1.68
E4NNHEALTH01-	E4NNHEALTH01-	LM	R/T	0			3				
E4JNGLOMOS06-	E4JNGLOMOS06-	XM	LPU	5	64.8	0.0094	5	272	94	0.58	1.68
E4JNFEA14801-	E4JNFEA14801-	SM	LPU	1	58.9	0.0086	15	247	243	1.50	1.52
E4JNFEA14802-	E4JNFEA14802-	SM	LPU	1	58.9	0.0086	15	247	243	1.50	1.52
E4JNFEA14803-	E4JNFEA14803-	SM	LPU	1	58.9	0.0086	15	247	243	1.50	1.52
E4JNFEA53M01-(A)	E4JNFEA53M01-(A)	LM	LPU	0	338.5	0.0487	160	1440	61	0.38	8.88
E4INRTIMON01-	E4INRTIMON01-	XM	R/T	21			8				
E4JNFEA5UM01-	E4JNFEA5UM01-	LM	LPU	0	453.4	0.0651	80	1930	122	0.75	11.90
E4JNFEA16001-	E4JNFEA16001-	SM	LPU	1	28.9	0.0043	4	119	115	0.71	0.73
E4JNFEA16002-	E4JNFEA16002-	SM	LPU	1	29.8	0.0044	4	123	119	0.73	0.76
E4JNPFTA4101-	E4JNPFTA4101-	SM	LPU	1	115.6	0.0167	19	489	2	0.01	3.02
E4JNFEA16003-	E4JNFEA16003-	SM	LPU	1	25.1	0.0038	4	103	99	0.61	0.64
E4RNMRING 01-	E4RNMRING 01-	FM	LPU	0	431.6	0.0619	1	1837	61	0.38	11.33
E4JNFEA04103-(B)	E4JNFEA04103-(B)	SM	LPU	1	71.3	0.0104	19	300	2	0.01	1.85
E4JNPFTA4102-	E4JNPFTA4102-	SM	LPU	1	118.9	0.0172	19	503	2	0.01	3.10
E4NNHEALTH02-	E4NNHEALTH02-	LM	R/T	0			3				
	E4NNRELOAD01-										
E4INCHEMIS01-	E4INCHEMIS01-	LM	LPU	0	39.9	0.0059	102	166	161	1.00	1.02
E4JNRTHOTS01-	E4JNRTHOTS01-	LM	R/T	0			3				
E4INCOOLCV02-	E4INCOOLCV02-	XM	LPU	21	80.1	0.0116	10	338	51	0.31	2.08
E4INWARMCV04-	E4INWARMCV04-	XM	LPU	21	32.9	0.0049	10	136	53	0.33	0.84
E4NNHEALTH05-	E4NNHEALTH05-	LM	R/T	0			3				0.00
E4JNGLOMOS01-	E4JNGLOMOS01-	XM	LPU	5	64.8	0.0094	5	272	94	0.58	1.68
E4INVOLCAN05-	E4INVOLCAN05-	XM	LPU	21	7.1	0.0012	10	26	25	0.15	0.16
	E4NNRELOAD02-										
E4JNPFTA1602-	E4JNPFTA1602-	SM	LPU	1	100.2	0.0145	19	423	2	0.01	2.61
E4JNGLOMOS02-	E4JNGLOMOS02-	XM	LPU	5	64.8	0.0094	5	272	270	1.67	1.68
E4JNFEA05501-	E4JNFEA05501-	SM	LPU	1	95.2	0.0138	5	402	397	2.45	2.48
E4JNFEA05502-	E4JNFEA05502-	SM	LPU	1	95.7	0.0139	4	404	397	2.45	2.49
E4INCHEMIS02-	E4INCHEMIS02-	LM	LPU	0	72.0	0.0105	102	303	2	0.01	1.87
E4JNFEA05503-	E4JNFEA05503-	SM	LPU	1	95.2	0.0138	4	402	397	2.45	2.48

NIMS E4 Instrument States and Resource Usage

ACTID	Activity ID	NIMS mode	Record mode	Grating Start Position	Tics	Obs. Cost (tracks)	Number wavelengths returned	Observation record time (sec)	Observation playback time (sec)	Selected Bits of Tape sBOT (Mbits)	Total Bits of Tape BOT (Mbits)
E4JNPFTA1603-	E4JNPFTA1603-	SM	LPU	1	100.4	0.0145	19	424	2	0.01	2.62
E4JNFEA01605-	E4JNFEA01605-	SM	LPU	1	123.1	0.0178	19	521	2	0.01	3.21
	E4NNRELOAD03-										
E4INCHEMIS03-	E4INCHEMIS03-	LM	LPU	0	105.5	0.0153	228	446	2	0.01	2.75
E4NNFULMRO01-	E4NNFULMRO01-		R/T								
E4INHRSPEC01-	E4INHRSPEC01-	LM	LPU	0	309.7	0.0445	102	1317	1316	8.12	8.12
E4NNCHKSUM01	E4NNCKSUM01-		R/T								
	E4NNRELOAD04-										
E4ENXDARLI01-	E4ENXDARLI01-	FM	MPW	0	849.4	0.1216	102	963	1	0.01	11.09
E4INCOOLCV01-	E4INCOOLCV01-	XM	LPU	21	64.8	0.0094	10	272	47	0.29	1.68
E4INWARMCV02-	E4INWARMCV02-	XM	LPU	21	20.0	0.0030	10	81	20	0.12	0.50
E4INCHEMIS04-	E4INCHEMIS04-	LM	LPU	0	125.5	0.0181	102	531	2	0.01	3.28
E4NNFULMRO02-	E4NNFULMRO01-		R/T								
	E4NNRELOAD05-										
E4JNFEA04101-	E4JNFEA04101-	SM	LPU	1	95.2	0.0138	4	402	397	2.45	2.48
E4JNFEA04102-	E4JNFEA04102-	SM	LPU	1	7.3	0.0012	4	27	27	0.17	0.17
E4JNFEA04103-(A)	E4JNFEA04103-(A)	SM	LPU	1	95.7	0.0139	4	404	310	1.91	2.49
E4JNFEA01601-	E4JNFEA01601-	SM	LPU	1	20.0	0.0030	19	81	81	0.50	0.50
E4JNFEA01602-	E4JNFEA01602-	SM	LPU	1	169.3	0.0244	25	718	357	2.20	4.43
E4JNFEA01604-	E4JNFEA01604-	SM	LPU	1	169.3	0.0244	25	718	297	1.83	4.43
E4NNCHKSUM02	E4NNCKSUM02-		R/T								
E4INCHEMIS05-	E4INCHEMIS05-	LM	LPU	0	62.2	0.0091	228	261	261	1.61	1.61
	E4NNRELOAD06-										
E4JNFEASUB01-	E4JNFEASUB01-	LM	LPU	0	339.0	0.0487	80	1442	718	4.43	8.89
E4JNPFTB1603	E4JNPFTB1603	SM	LPU	1	7.3	0.0012	19	27	27	0.17	0.17
	E4INHRSPEC01-	LM	LPU		309.7	0.0445	1	1317	61	0.38	8.12
E4ENASTERI01-	E4ENASTERI01-	FM	LPU	0	226.7	0.0327	96	963	480	2.96	5.94
E4INCHEMIS06-	E4INCHEMIS06-	LM	MPW	0	154.2	0.0220	204	172	168	1.94	1.98
E4ENSUCOMP02-	E4ENSUCOMP02-	LM	LPU	0	264.9	0.0381	192	1126	390	2.41	6.95
E4INTHRMAL01-	E4INTHRMAL01-	LM	LPU	0	15.5	0.0024	102	62	2	0.01	0.38
E4INVOLCAN01-	E4INVOLCAN01-	LM	LPU	0	8.3	0.0013	228	31	27	0.16	0.19
E4INVOLCAN02-	E4INVOLCAN02-	LM	LPU	0	11.1	0.0017	228	43	39	0.24	0.27
	E4NNRELOAD07-										
E4ENSUCOMP01-	E4ENSUCOMP01-	LM	MPW	0	975.1	0.1396	192	1106	250	2.88	12.74
E4INRTIMON02-	E4INRTIMON02	XM	R/T	21			8				
E4ENSUCOMP03-	E4ENSUCOMP03-	LM	MPW	0	678.0	0.0970	384	768	574	6.61	8.85
E4INWARMCV03-	E4INWARMCV03-	XM	LPU	21	118.0	0.0171	10	499	96	0.59	3.08
E4INVOLCAN03-	E4INVOLCAN03-	LM	LPU	0	8.5	0.0014	102	32	2	0.01	0.20
E4INVOLCAN04-	E4INVOLCAN04-	LM	LPU	0	6.9	0.0011	102	25	2	0.01	0.15
E4INTHRMAL02-	E4INTHRMAL02-	LM	LPU	0	18.6	0.0028	102	75	2	0.01	0.46

(Recorded observations in playback order)

NIMS E4 Instrument States and Resource Usage

12/20/96

ACTID	Activity ID	NIMS mode	Record mode	Grating Start Position	Tics	Obs. Cost (tracks)	Number wavelengths returned	Observation record time (sec)	Observation playback time (sec)	Selected Bits of Tape sBOT (Mbits)	Total Bits of Tape BOT (Mbits)
	E4NNRELOAD08										
E4JNFEA53M01-(A)	E4JNFEA53M01-(A)	LM	LPU	0	338.5	0.0487	160	1440	622	3.84	8.88
E4JNGLOMOS03-	E4JNGLOMOS03-	XM	LPU	5	64.8	0.0094	5	272	270	1.67	1.68
E4INWARMCV01-	E4INWARMCV01-	XM	LPU	21	90.3	0.0131	10	381	64	0.39	2.35
E4NNHEALTH04-	E4NNHEALTH04-	LM	R/T	0			3				
E4JNFEASUB01-	E4JNFEASUB01-	LM	LPU	0	339.0	0.0487	80	1442	718	4.43	8.89
E4JNFEA01602-	E4JNFEA01602-	SM	LPU	1	169.3	0.0244	25	718	357	2.20	4.43
E4JNFEA53M01-(B)	E4JNFEA53M01-(B)	LM	LPU	0	7.3	0.0012	160	27	27	0.17	0.17
	E4INHRSPEC01-	LM	LPU		309.7	0.0445	102	1317	303	1.87	8.12
E4ENASTERI01-	E4ENASTERI01-	FM	LPU	0	226.7	0.0327	96	963	480	2.96	5.94
E4CNGLOBAL01-	E4CNGLOBAL01-	LM	LPU	0	37.6	0.0055	204	156	2	0.01	0.96
E4RNMRING 01-	E4RNMRING 01-	FM	LPU	0	431.6	0.0619	102	1837	2	0.01	11.33
E4NNPCTRLT01-	E4NNPCTCAL01-	LM	R/T	0			204				
Total					**12532.1**	1.805404758				94.47	268.06
Allocated											
Oversubscribed											

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NIMS E4 Instrument States and Resource Usage

Mode cycle time (sec)	Activity ID	AACS Mbits compress 2.5	RT BTG (Mbits)	Thold	Comp.	BTG (Mbits) (w/ 4% overhead)	Data Reduct Factor (sBOT/BTG)	Pass
8.667	E4ENSUCOMP02-	0.06		0	1.30	1.38	1.74	1
8.667	E4ENSUCOMP01-	0.06		0	1.30	0.89	3.25	1
8.667	E4ENSUCOMP03-	0.04		0	1.30	1.36	1.63	1
2.33	E4JNFEA09501-	0.02		0	2.00	0.07	34.55	1
2.33	E4JNFEA09502-	0.02		0	2.00	0.07	34.55	1
2.33	E4JNFEA09503-	0.00		0	2.00	0.01	27.64	1
8.667	E4GNGLOBAL01-	0.01		2	1.80	0.24	4.24	1
0.333	E4JNGLOMOS04-	0.02		0	2.00			2
0.333	E4JNGLOMOS05-	0.02		0	2.00			2
8.667	E4NNHEALTH01-		0.001	0				2
0.333	E4JNGLOMOS06-	0.02		0	2.00			2
2.33	E4JNFEA14801-	0.01		0	2.00	0.16	9.21	1
2.33	E4JNFEA14802-	0.01		0	2.00	0.16	9.21	1
2.33	E4JNFEA14803-	0.01		0	2.00	0.16	9.21	1
8.667	E4JNFEA53M01-(A)	0.08		0	1.30	0.18	2.09	1
0.333	E4INRTIMON01-		0.031	0				2
8.667	E4JNFEA5UM01-	0.11		0	1.30	0.18	4.18	1
2.33	E4JNFEA16001-	0.01		0	2.00	0.02	34.55	1
2.33	E4JNFEA16002-	0.01		0	2.00	0.02	34.55	1
2.33	E4JNPFTA4101-	0.03		0	2.00	0.00	7.27	2
2.33	E4JNFEA16003-	0.01		0	2.00	0.02	34.55	1
4.333	E4RNMRING 01-	0.11			2.00	0.00	256.98	1
2.33	E4JNFEA04103-(B)	0.02		0	2.00	0.00	7.27	
2.33	E4JNPFTA4102-	0.03		0	2.00	0.00	7.27	
	E4NNHEALTH02-		0.001	0				
	E4NNRELOAD01-							
8.667	E4INCHEMIS01-	0.01		2	1.25			2
8.667	E4JNRTHOTS01-		0.016	0				2
0.333	E4INCOOLCV02-	0.02		2	2.50	0.13	2.47	1
0.333	E4INWARMCV04-	0.01		2	2.50	0.13	2.47	1
	E4NNHEALTH05-		0.001	0				1
0.333	E4JNGLOMOS01-	0.02		0	2.00	0.15	3.95	2
0.333	E4INVOLCAN05-	0.00		2	3.50			2
	E4NNRELOAD02-							
2.33	E4JNPFTA1602-	0.02		0	2.00	0.00	7.27	
0.333	E4JNGLOMOS02-	0.02		0	2.00	0.42	3.95	2
2.33	E4JNFEA05501-	0.02		0	2.00	0.09	27.64	2
2.33	E4JNFEA05502-	0.02		0	2.00	0.07	34.55	2
8.667	E4INCHEMIS02-	0.02		2	2.20	0.00	5.54	
2.33	E4JNFEA05503-	0.02		0	2.00	0.07	34.55	2

NIMS E4 Instrument States and Resource Usage

Mode cycle time (sec)	Activity ID	AACS Mbits compress 2.5	RT BTG (Mbits)	Thold	Comp.	BTG (Mbits) (w/ 4% overhead)	Data Reduct Factor (sBOT/BTG)	Pass
2.33	E4JNPFTA1603-	0.02		0	2.00	0.00	7.27	
2.33	E4JNFEA01605-	0.03		0	2.00	0.00	7.27	
	E4NNRELOAD03-							
8.667	E4INCHEMIS03-	0.03		2	2.20	0.00	2.48	
	E4NNFULMRO01-		0.008					
8.667	E4INHRSPEC01-	0.08		2	1.35			3
	E4NNCKSUM01-		0.001					
	E4NNRELOAD04-							
4.333	E4ENXDARLI01-	0.06		2	1.70			3
0.333	E4INCOOLCV01-	0.02		2	2.50	0.12	2.47	2
0.333	E4INWARMCV02-	0.00		2	2.50	0.05	2.47	2
8.667	E4INCHEMIS04-	0.03		0	2.20	0.00	5.54	
	E4NNFULMRO01-		0.005	0				
	E4NNRELOAD05-			0				
2.33	E4JNFEA04101-	0.02		0	2.00	0.07	34.55	2
2.33	E4JNFEA04102-	0.00		0	2.00	0.00	34.55	2
2.33	E4JNFEA04103-(A)	0.02		0	2.00	0.06	34.55	2
2.33	E4JNFEA01601-	0.00		0	2.00	0.07	7.27	2
2.33	E4JNFEA01602-	0.04		0	2.00	0.40	5.53	2
2.33	E4JNFEA01604-	0.04		0	2.00	0.33	5.53	2
	E4NNCKSUM02-		0.001					
8.667	E4INCHEMIS05-	0.02		2	1.20			
	E4NNRELOAD06-							
8.667	E4JNFEASUB01-	0.08		0	2.00	0.69	6.43	2
2.33	E4JNPFTB1603	0.00		0	2.00	0.02	7.27	2
8.667	E4INHRSPEC01-	0.08		2	1.25	0.00	321.26	2
4.333	E4ENASTERI01-	0.06		0	1.30	1.70	1.74	2
8.667	E4INCHEMIS06-	0.01		2	1.25			1
8.667	E4ENSUCOMP02-	0.06		0	1.30	1.38	1.74	2
8.667	E4INTHRMAL01-	0.00		2	2.20	0.00	5.54	
8.667	E4INVOLCAN01-	0.00		2	3.50			1
8.667	E4INVOLCAN02-	0.00		2	3.50			1
	E4NNRELOAD07-							
8.667	E4ENSUCOMP01-	0.06		0	1.30	0.89	3.25	2
0.333	E4INRTIMON02		0.031	0				
8.667	E4ENSUCOMP03-	0.04		0	1.30	4.07	1.63	2
0.333	E4INWARMCV03-	0.03		2	2.50	0.24	2.47	2
8.667	E4INVOLCAN03-	0.00		2	2.20	0.00	5.54	
8.667	E4INVOLCAN04-	0.00		2	2.20	0.00	5.54	
8.667	E4INTHRMAL02-	0.00		2	2.20	0.00	5.54	

NIMS E4 Instrument States and Resource Usage

Mode cycle time (sec)	Activity ID	AACS Mbits compress 2.5	RT BTG (Mbits)	Thold	Comp.	BTG (Mbits) (w/ 4% overhead)	Data Reduct Factor (sBOT/BTG)	Pass
	E4NNRELOAD08							
8.667	E4JNFEA53M01-(A)	0.08		0	1.30	1.84	2.09	2
0.333	E4JNGLOMOS03-	0.02		0	2.00	0.42	3.95	3
0.333	E4INWARMCV01-	0.02		2	2.50	0.16	2.47	3
	E4NNHEALTH04-		0.001	0				
8.667	E4JNFEASUB01-	0.08		0	2.00	0.69	6.43	3
2.33	E4JNFEA01602-	0.04		0	2.00	0.40	5.53	3
8.667	E4JNFEA53M01-(B)	0.00		0	1.30			1
8.667	E4INHRSPEC01-	0.08		2	1.25	0.59	3.15	3
4.333	E4ENASTERI01-	0.06		0	1.30	1.70	1.74	3
8.667	E4CNGLOBAL01-	0.01		0	2.00	0.00	2.52	1
4.333	E4RNMRING 01-	0.11			2.00	0.00	2.52	
8.667	E4NNPCTCAL01-	0.00	0.194					
		2.25	0.288			21.92		

NIMS E4 OBSERVING GEOMETRY

OAPEL	Latitude (deg)	Longitude (deg)	Range (km)	Cone (deg)	Light (deg)	View (deg)	Phase (deg)
E4JNGLOMOS01	-90 to +90	160 to 240	1850K	122	0 to 90	0 to 90	67
E4JNGLOMOS02	-90 to +90	230 to 300	1800K	124	0 to 90	0 to 90	65
E4JNGLOMOS03	-90 to +90	285 to 350	1780K	125	0 to 90	0 to 90	64
E4JNGLOMOS04	-90 to +90	10 to 70	1700K	126	0 to 90	0 to 90	62
E4JNGLOMOS05	-90 to +90	70 to 130	1640K	128	0 to 90	0 to 90	61
E4JNGLOMOS06	-90 to +90	125 to 190	1590K	129	0 to 90	0 to 90	60
E4JNFEA05501	0 to +14	285 to 345	1470K	133	37 to 90	7 to 36	54 to 56
E4JNFEA05502	0 to +14	225 to 310	1460K	132	8 to 55	7 to 90	55 to 58
E4JNFEA05503	0 to +14	300 to 360	1430K	133	9 to 65	8 to 62	54 to 56
E4INCOOLCV01	-90 to +90	-30 to 120	1770K	146	70 to 107	90	--------
E4INRTIMON01	-90 to +90	-30 to 120	1700K	149	80 to 100	90	--------
E4INWARMCV01	-90 to +90	-30 to 120	1630K	153	72 to 111	90	--------
E4INWARMCV02	-90 to +90	-30 to 120	1590K	154	55 to 74	90	--------
E4JNFEA04101	+1 to +13	290 to 335	1175K	146	47 to 87	8 to 47	40 to 42
E4JNPFTA4101	+12 to +31	315 to 350	1200K	148	58 to 107	23 to 70	40 to 41
E4JNFEA04102	+2 to +13	295 to 345	1190K	149	34 to 93	8 to 54	39 to 42
E4JNFEA04103 A	+2 to +13	310 to 350	1120K	149	8 to 41	8 to 48	40 to 42
B	-4 to +4	305 to 350	1110K	149	0 to 40	30 to 81	40 to 42
E4JNPFTA4102	+8 to +26	300 to 345	1120K	148	13 to 34	32 to 73	40 to 42
E4INCHEMIS01	-90 to +90	0 to 180	1030K	175	0 to 103	0 to 90	13

NIMS E4 OBSERVING GEOMETRY

OAPEL	Latitude (deg)	Longitude (deg)	Range (km)	Cone (deg)	Light (deg)	View (deg)	Phase (deg)
E4JNRTHOTS01	6.5	265	876K	167	23	7	22
E4JNFEA01601	+2 to +12	295 to 380	920K	172	35 to 93	17 to 77	16 to 19
E4JNFEA01602	+3 to +18	305 to 360	930K	173	39 to 106	22 to 90	16 to 18
E4INVOLCAN05	-90 to +90	45 to 225	575K	172	90	90	--------
E4JNPFTA1602	+8 to +27	320 to 340	825K	174	23 to 30	22 to 27	15 to 16
E4JNFEA01604	0 to +16	310 to 340	817K	174	5 to 25	11 to 41	15 to 17
E4JNFEASUB01	0 to +15	310 to 340	807K	174	7 to 60	7 to 75	14 to 17
E4INCHEMIS02	-90 to +90	60 to 240	470K	170	0 to 90	0 to 90	1
E4JNPFTB1603	+5 to +15	320 to 350	795K	176	30 to 60	47 to 72	13 to 14
E4JNPFTA1603	+10 to +30	310 to 345	796K	176	39 to 77	50 to 90	13 to 14
E4JNFEA01605	-5 to +10	315 to 365	780K	177	25 to 77	36 to 90	12 to 13
E4INCHEMIS03	-90 to +90	90 to 270	364K	172	0 to 90	0 to 90	0 to 1
E4INHRSPEC01	-90 to +90	120 to 300	320K	174	26 to 90	27 to 90	3
E4ENXDARLI01	-90 to +90	190 to 280	117K	132	16 to 66	12 to 90	56
E4ENASTERI01	-90 to +90	245 to 305	106K	133	27 to 87	14 to 75	56
E4INCHEMIS04	-90 to +90	150 to 330	351K	165	0 to 95	0 to 90	6 to 7
E4ENSUCOMP02	+20 to +45	290 to 310	31K	132	53 to 71	28 to 112	57
E4ENSUCOMP01	-60 to -42	310 to 325	18K	129	70 to 80	50 to 59	59
E4ENSUCOMP03	+52 to +58	305 to 325	6K	100 to 120	71 to 80	64 to 79	49
E4INCHEMIS05	-90 to +90	180 to 360	507K	130	0 to 130	0 to 90	41

NIMS E4 OBSERVING GEOMETRY

OAPEL	Latitude (deg)	Longitude (deg)	Range (km)	Cone (deg)	Light (deg)	View (deg)	Phase (deg)
E4JNFEA09501	+5 to +10	305 to 340	705K	75	35 to 80	16 to 62	95
E4JNFEA09502	+5 to +10	307 to 337	696K	74	61 to 98	8 to 36	94 to 96
E4JNFEA09503	+5 to +10	315 to 345	700K	73	63 to 100	7 to 36	95 to 98
E4INCHEMIS06	-90 to +90	190 to 370	743K	100	10 to 160	0 to 90	70
E4INCOOLCV02	-90 to +90	190 to 370	750K	100	10 to 160	0 to 90	70
E4INTHRMAL01	-90 to +90	200 to 280	766K	99	83 to 144	10 to 72	72
E4INVOLCAN01	-90 to +90	290 to 320	803K	95	49 to 57	19 to 27	76
E4INVOLCAN02	-90 to +90	240 to 270	803K	95	49 to 57	19 to 27	76
E4INWARMCV03	-90 to +90	190 to 370	880K	89	7 to 172	0 to 90	82
E4INRTIMON02	-90 to +90	190 to 370	900K	87	57 to 127	90	--------
E4INWARMCV04	-90 to +90	190 to 370	904K	86	5 to 175	0 to 90	84
E4GNGLOBAL01	-90 to +90	240 to 390	792K	121	0 to 105	0 to 90	50
E4INVOLCAN03	-90 to +90	290 to 350	1493K	45	87 to 102	90	--------
E4INVOLCAN04	-90 to +90	290 to 330	1500K	45	95 to 101	90	--------
E4INTHRMAL02	-90 to +90	60 to 240	1520K	43	77 to 108	90	--------
E4JNFEA14801	-5 to +15	285 to 315	1290K	103	58 to 97	50 to 90	148
E4JNFEA14802	-5 to +15	290 to 320	1290K	103	58 to 97	50 to 90	148
E4JNFEA14803	-5 to +15	300 to 360	1300K	103	59 to 99	50 to 90	148
E4JNFEA53M01	-5 to +15	290 to 335	1290K	102	112 to 178	7 to 73	148
E4JNFEA5UM01	0 to +30	285 to 360	1330K	102	122 to 155	29 to 91	148

NIMS E4 OBSERVING GEOMETRY

OAPEL	Latitude (deg)	Longitude (deg)	Range (km)	Cone (deg)	Light (deg)	View (deg)	Phase (deg)
E4CNGLOBAL01	-90 to +90	220 to 40	1490K	166	45 to 136	0 to 90	79
E4JNFEA16001	-5 to +15	275 to 300	1560K	93	20 to 97	62 to 90	159
E4JNFEA16002	-5 to +15	280 to 300	1530K	93	79 to 98	61 to 80	159
E4JNFEA16003	-5 to +15	285 to 305	1580K	92	70 to 95	64 to 90	159
E4RNMRING_01	---------	----------	1580K	99	115	92	--------

Phase 2A Tapemap of camel.961202.ssdf
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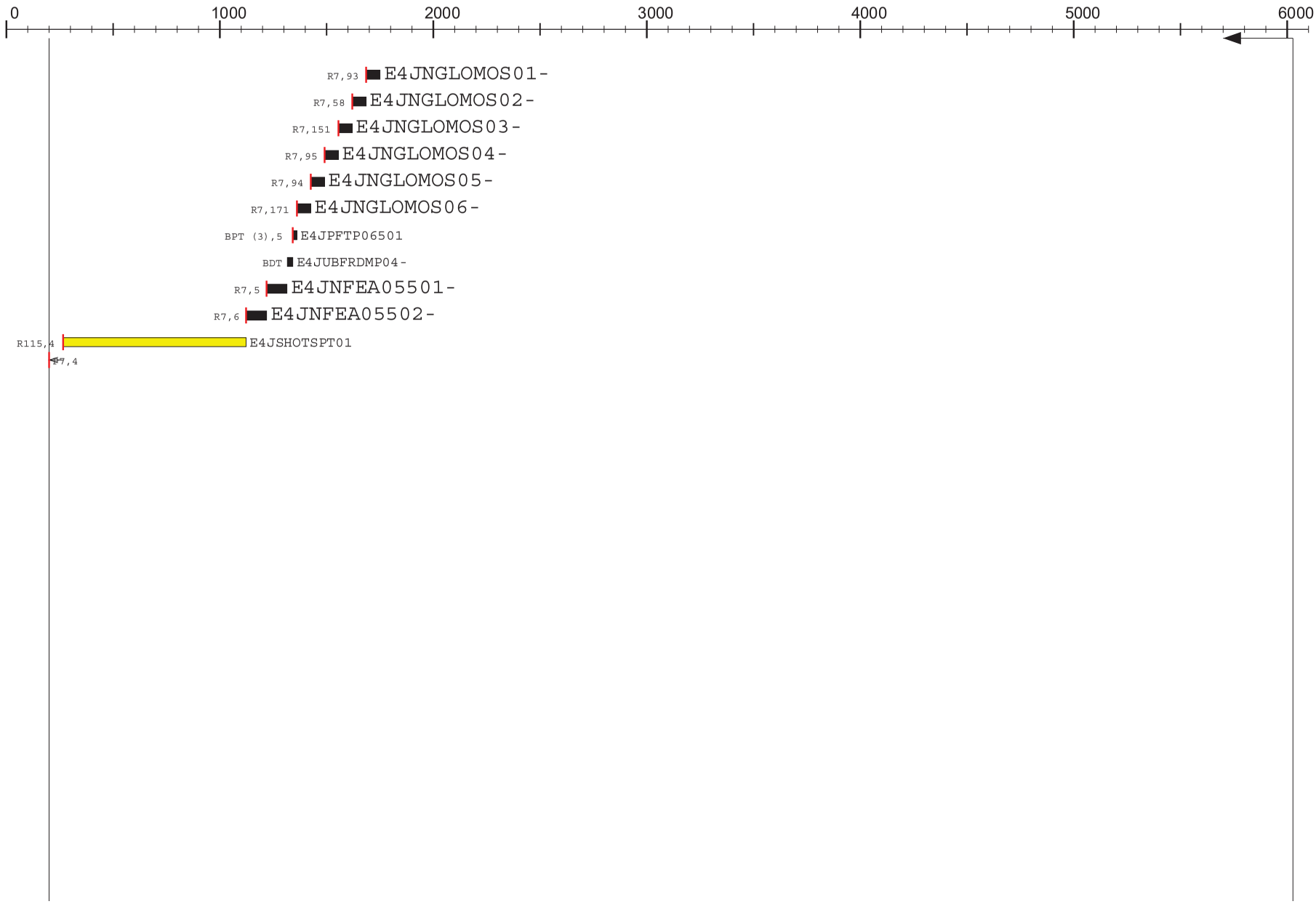
Track 4



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

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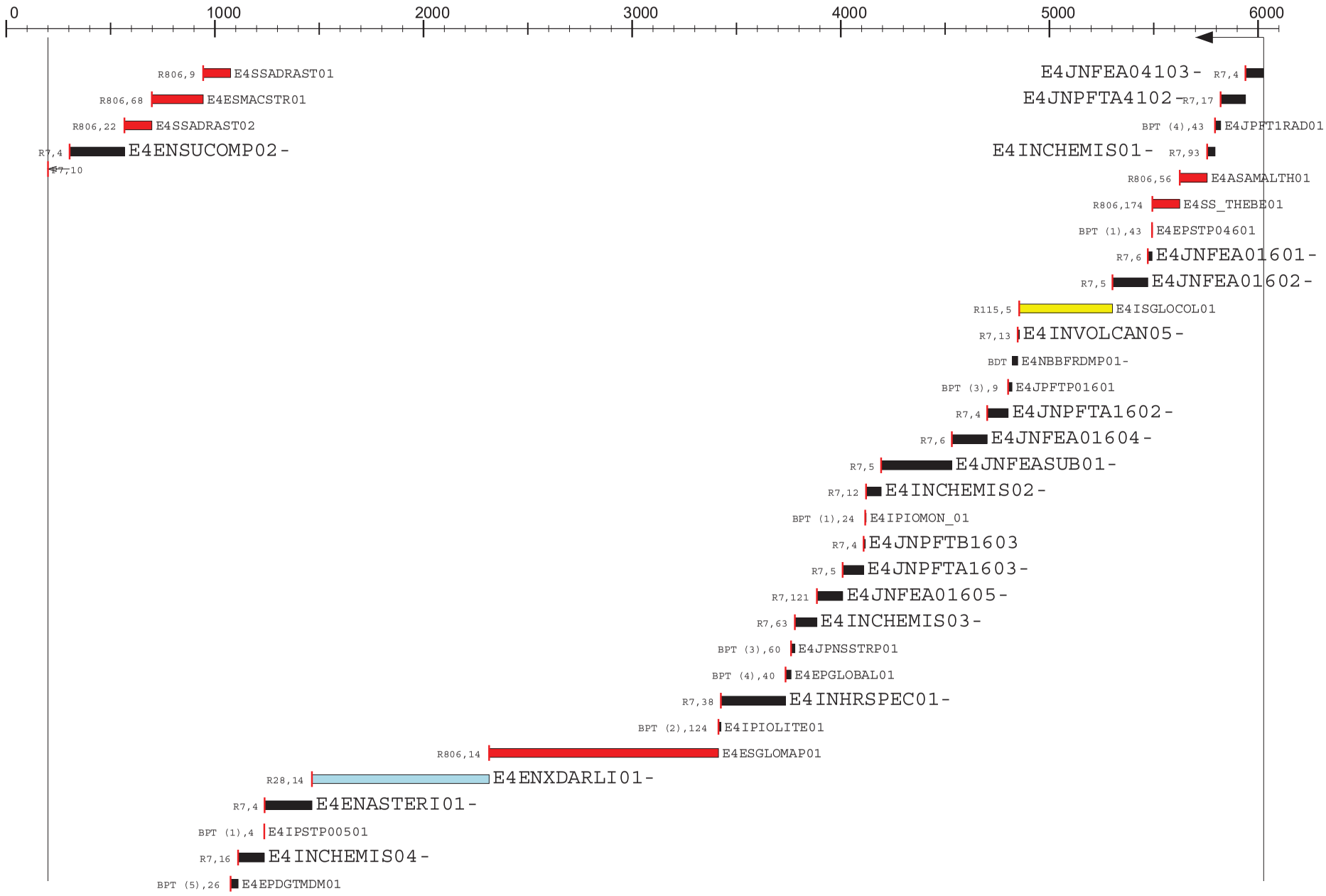
Track 1

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

Phase 2A Tapemap of camel.961202.ssdf
Date: Mon Dec 2 16:08:59 1996 Page: 4

Track 2



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

Phase 2A Tapemap of camel.961202.ssdf
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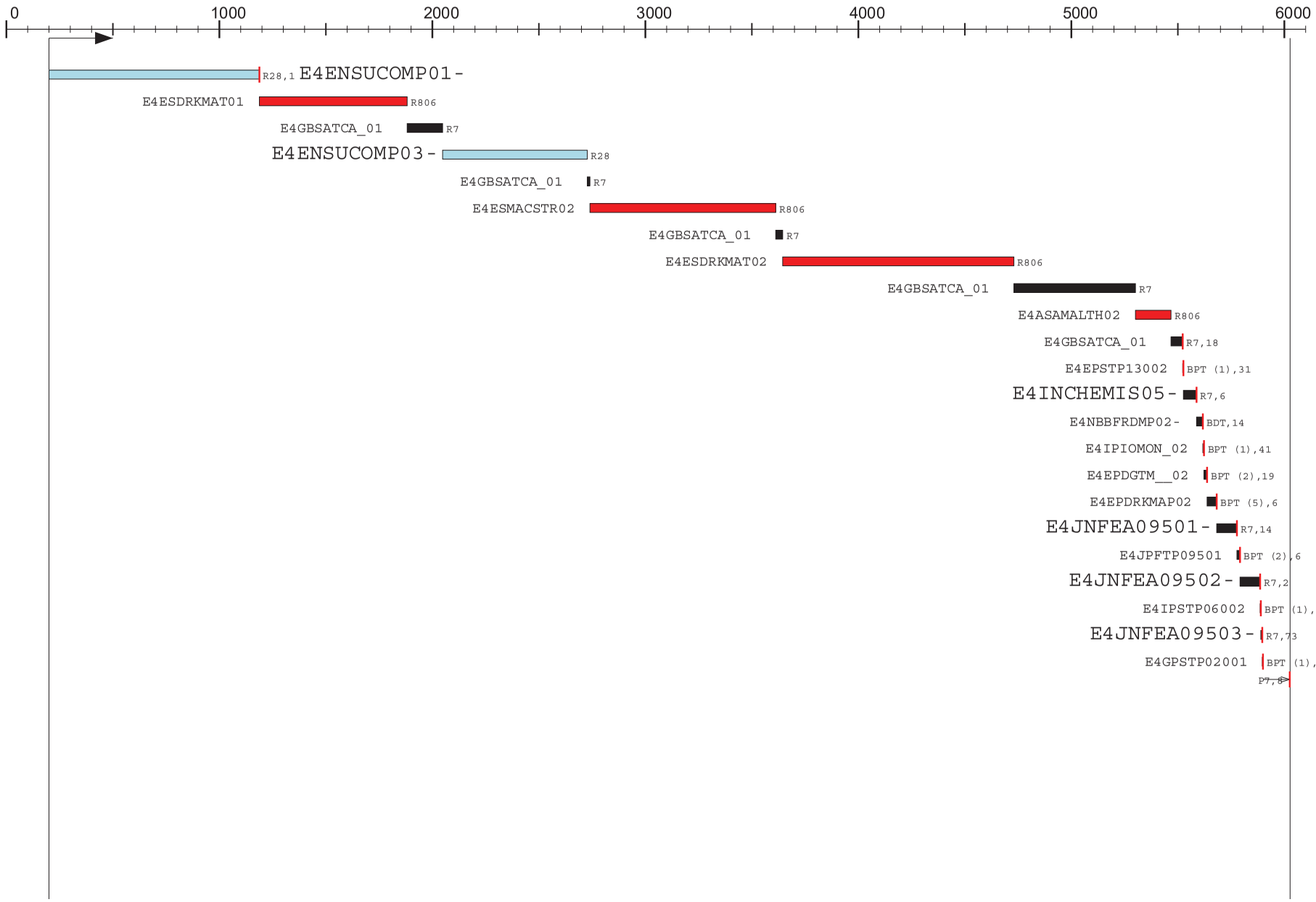
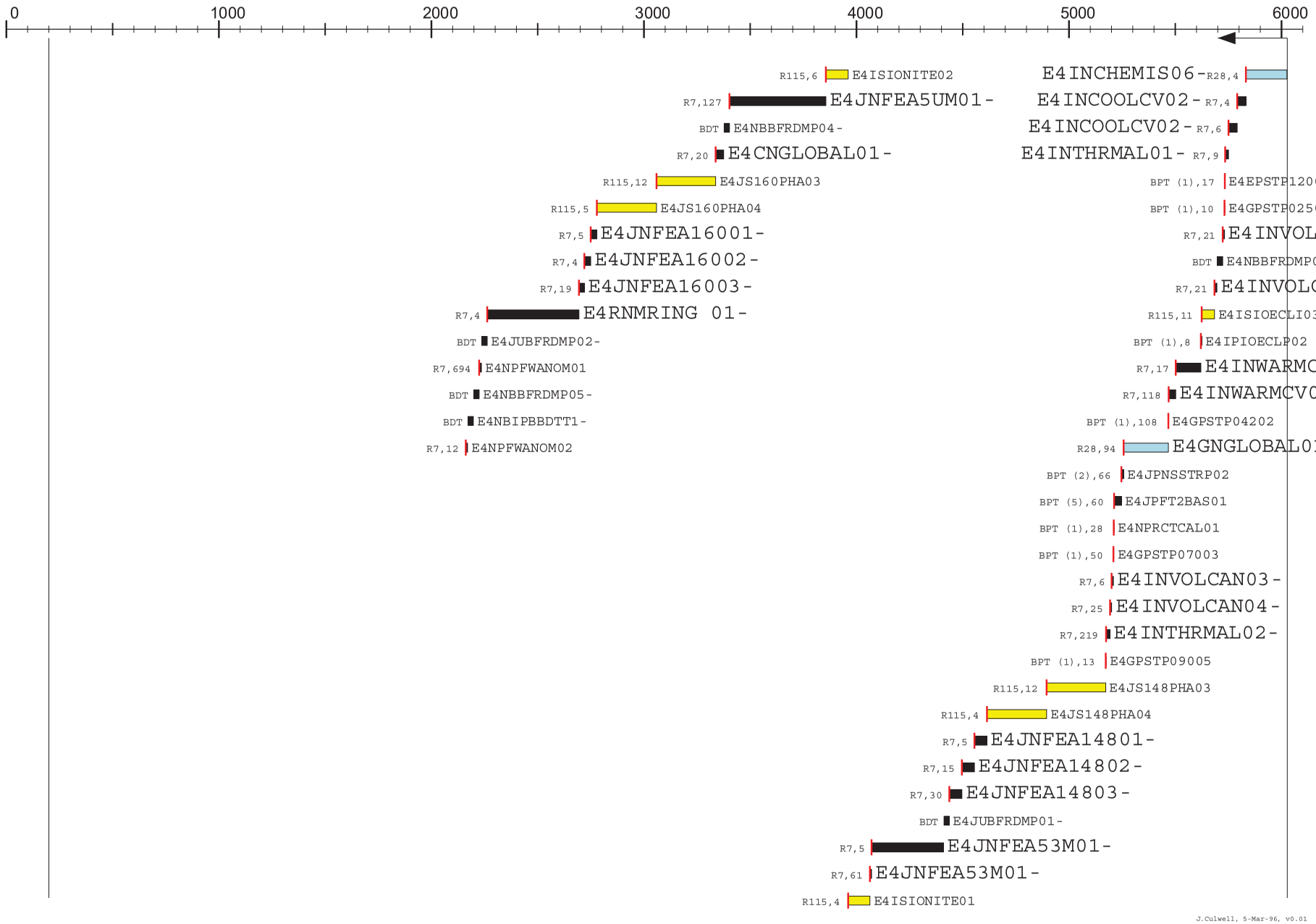
Track 3



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

Phase 2A Tapemap of camel.961202.ssdf
Date: Mon Dec 2 16:08:59 1996 Page: 6

Track 4



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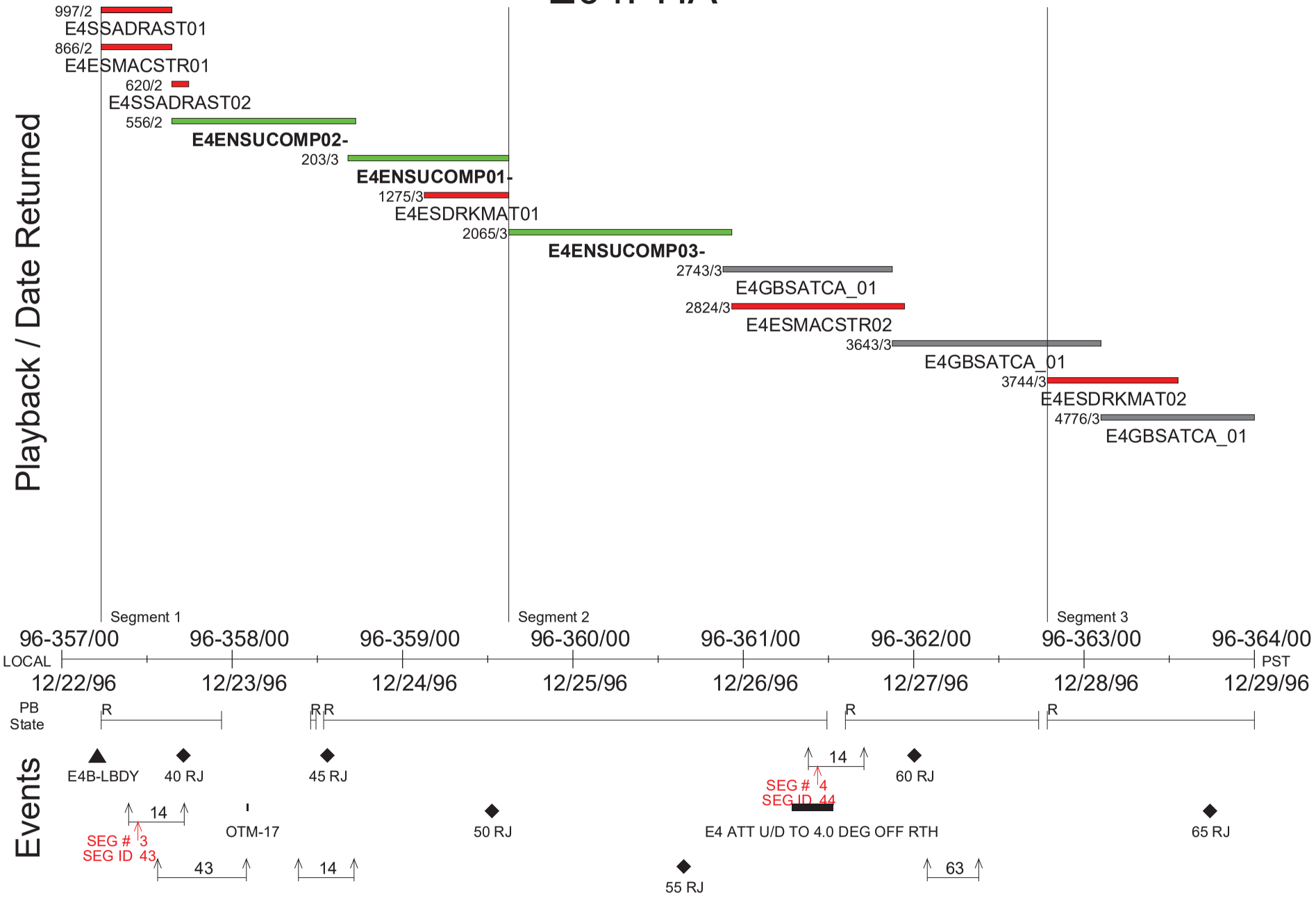
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866/2
E4ESMACSTR01
620/2
E4SSADRAST02
556/2
E4ENSUCOMP02-
203/3
E4ENSUCOMP01-
1275/3
E4ESDRKMAT01
2065/3
E4ENSUCOMP03-
2743/3
E4GBSATCA_01
2824/3
E4ESMACSTR02
3643/3
E4GBSATCA_01
3744/3
E4ESDRKMAT02
4776/3
E4GBSATCA_01
Segment 1
Segment 2
Segment 3
96-357/00
96-358/00
96-359/00
96-360/00
96-361/00
96-362/00
96-363/00
96-364/00
LOCAL
PST
12/22/96
12/23/96
12/24/96
12/25/96
12/26/96
12/27/96
12/28/96
12/29/96
PB State
R
Events
E4B-LBDY
40 RJ
45 RJ
14
SEG # 3
SEG ID 43
OTM-17
50 RJ
43
14
55 RJ
14
SEG # 4
SEG ID 44
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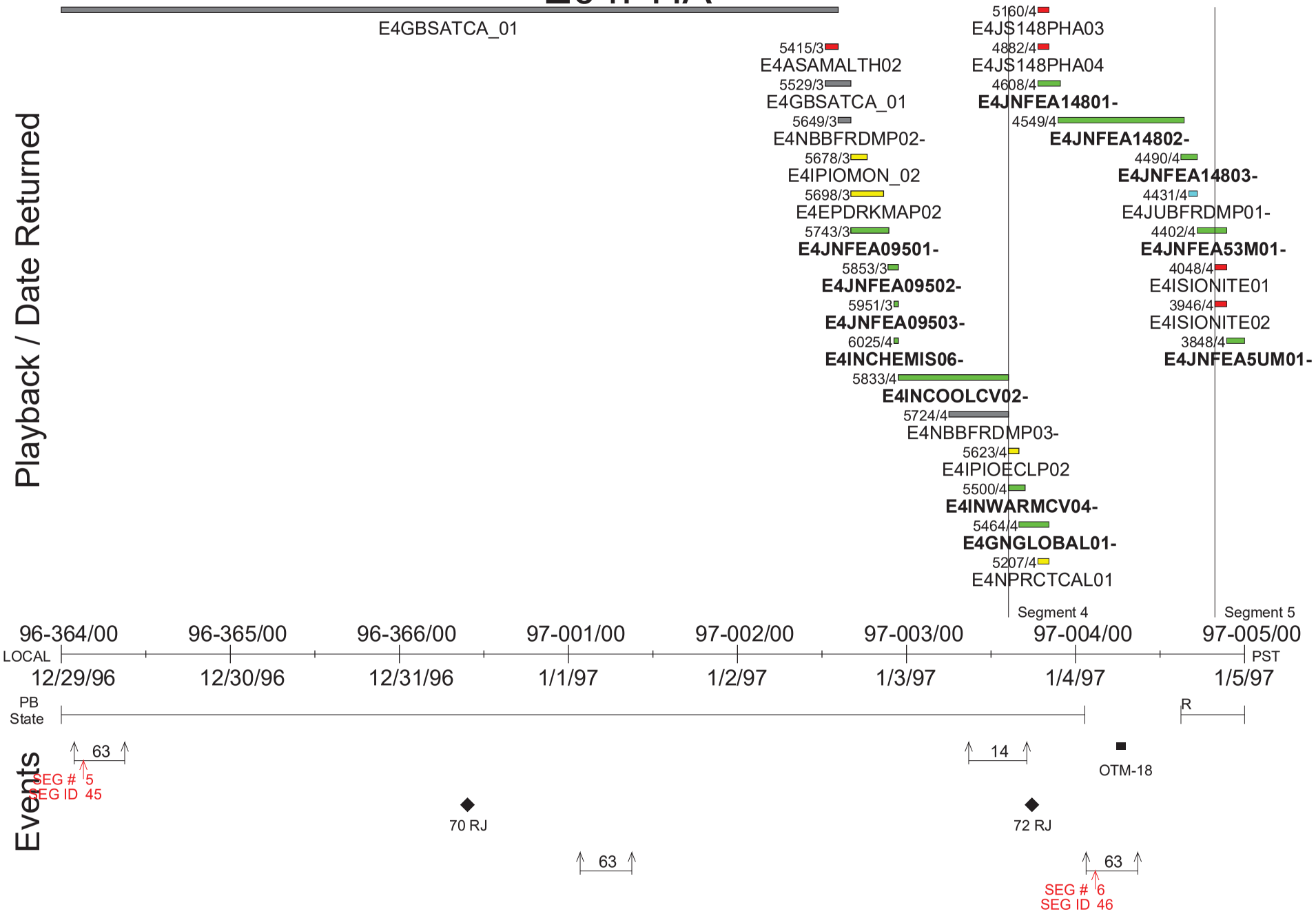
63
65 RJ

E04PHA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5415/3
E4ASAMALTH02
4882/4
E4JS148PHA04
5529/3
E4GBSATCA_01
4608/4
E4JNFEA14801-
5649/3
E4NBBFRDMP02-
4549/4
E4JNFEA14802-
5678/3
E4IPIOMON_02
4490/4
E4JNFEA14803-
5698/3
E4EPDRKMAP02
4431/4
E4JUBFRDMP01-
5743/3
E4JNFEA09501-
4402/4
E4JNFEA53M01-
5853/3
E4JNFEA09502-
4048/4
E4ISIONITE01
5951/3
E4JNFEA09503-
3946/4
E4ISIONITE02
6025/4
E4INCHEMIS06-
3848/4
E4JNFEA5UM01-
5833/4
E4INCOOLCV02-
5724/4
E4NBBFRDMP03-
5623/4
E4IPIOECLP02
5500/4
E4INWARMCV04-
5464/4
E4GNGLOBAL01-
5207/4
E4NPRCTCAL01
Segment 4
Segment 5
96-364/00
96-365/00
96-366/00
97-001/00
97-002/00
97-003/00
97-004/00
97-005/00
LOCAL
PST
12/29/96
12/30/96
12/31/96
1/1/97
1/2/97
1/3/97
1/4/97
1/5/97
PB
State
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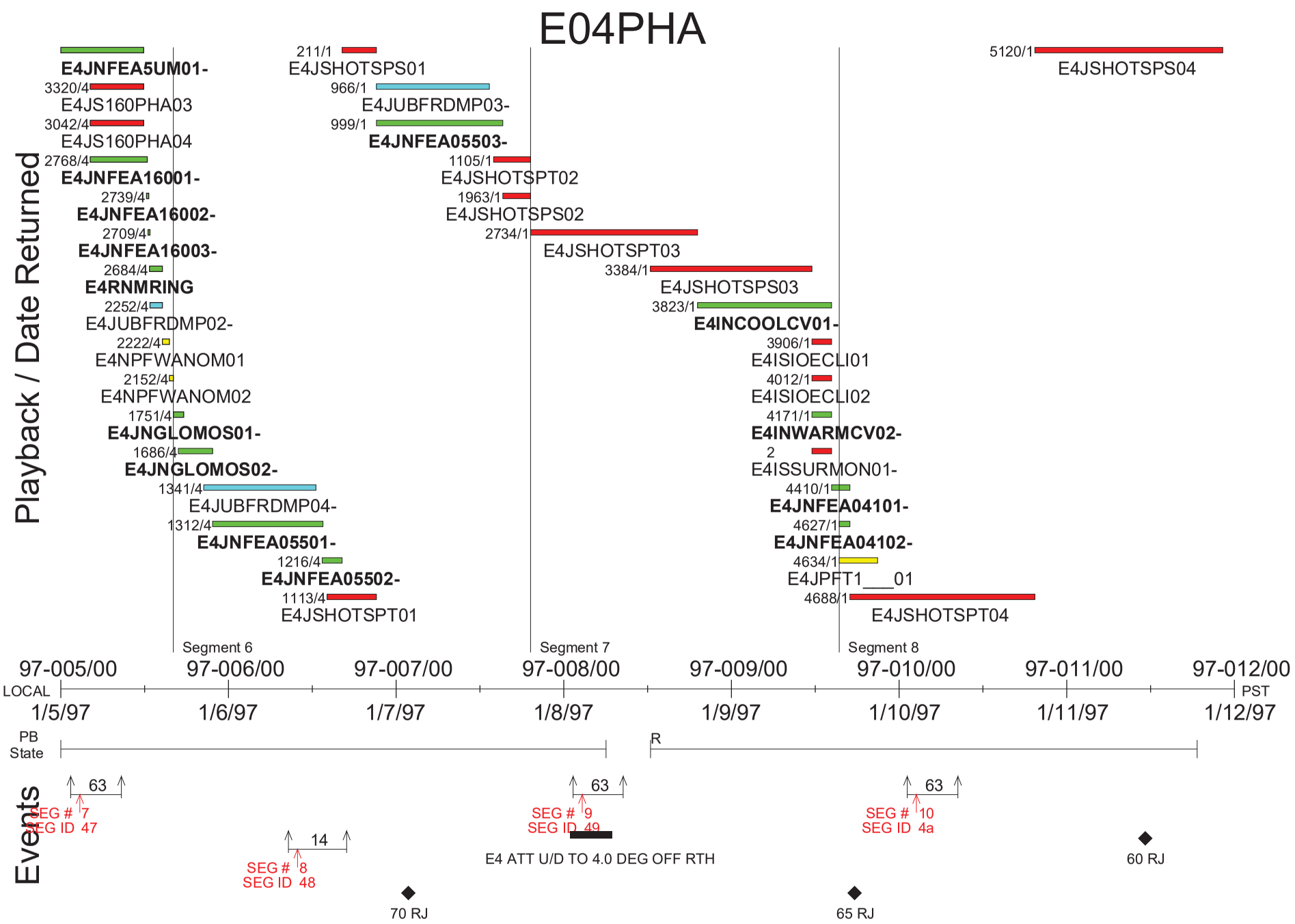
72 RJ
63
63
SEG # 6
SEG ID 46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3042/4
E4JS160PHA04
2768/4
E4JNFEA16001-
2739/4
E4JNFEA16002-
2709/4
E4JNFEA16003-
2684/4
E4RNMRING
2252/4
E4JUBFRDMP02-
2222/4
E4NPFWANOM01
2152/4
E4NPFWANOM02
1751/4
E4JNGLOMOS01-
1686/4
E4JNGLOMOS02-
1341/4
E4JUBFRDMP04-
1312/4
E4JNFEA05501-
1216/4
E4JNFEA05502-
1113/4
E4JSHOTSPT01
211/1
E4JSHOTSPS01
966/1
E4JUBFRDMP03-
999/1
E4JNFEA05503-
1105/1
E4JSHOTSPT02
1963/1
E4JSHOTSPS02
2734/1
E4JSHOTSPT03
3384/1
E4JSHOTSPS03
3823/1
E4INCOOLCV01-
3906/1
E4ISIOECLI01
4012/1
E4ISIOECLI02
4171/1
E4INWARMCV02-
2
E4ISSURMON01-
4410/1
E4JNFEA04101-
4627/1
E4JNFEA04102-
4634/1
E4JPFT1___01
4688/1
E4JSHOTSPT04
5120/1
E4JSHOTSPS04
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Segment 7
Segment 8
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97-006/00
97-007/00
97-008/00
97-009/00
97-010/00
97-011/00
97-012/00
LOCAL
PST
1/5/97
1/6/97
1/7/97
1/8/97
1/9/97
1/10/97
1/11/97
1/12/97
PB State
R
Events
63
SEG # 7
SEG ID 47
14
SEG # 8
SEG ID 48
63
SEG # 9
SEG ID 49
E4 ATT U/D TO 4.0 DEG OFF RTH
63
SEG # 10
SEG ID 4a
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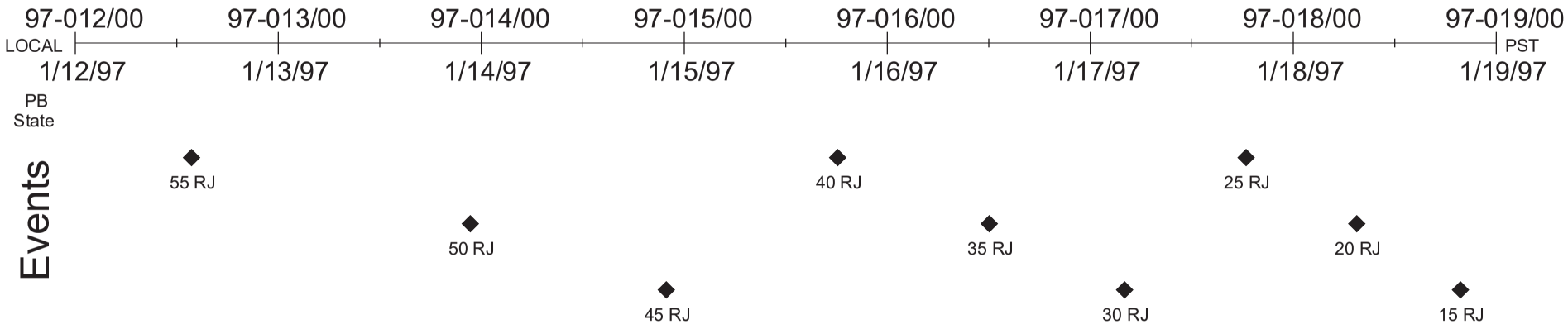
70 RJ
65 RJ

E04PHA

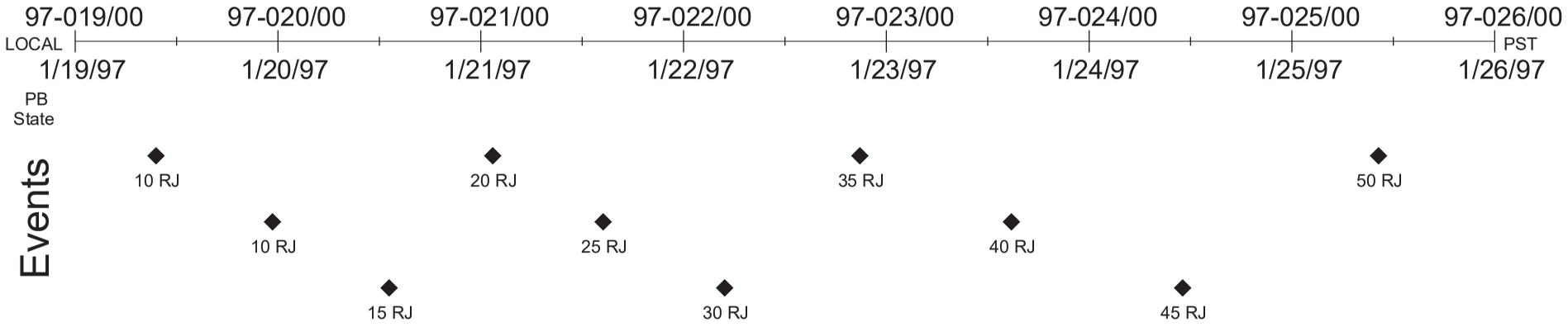
Playback / Date Returned

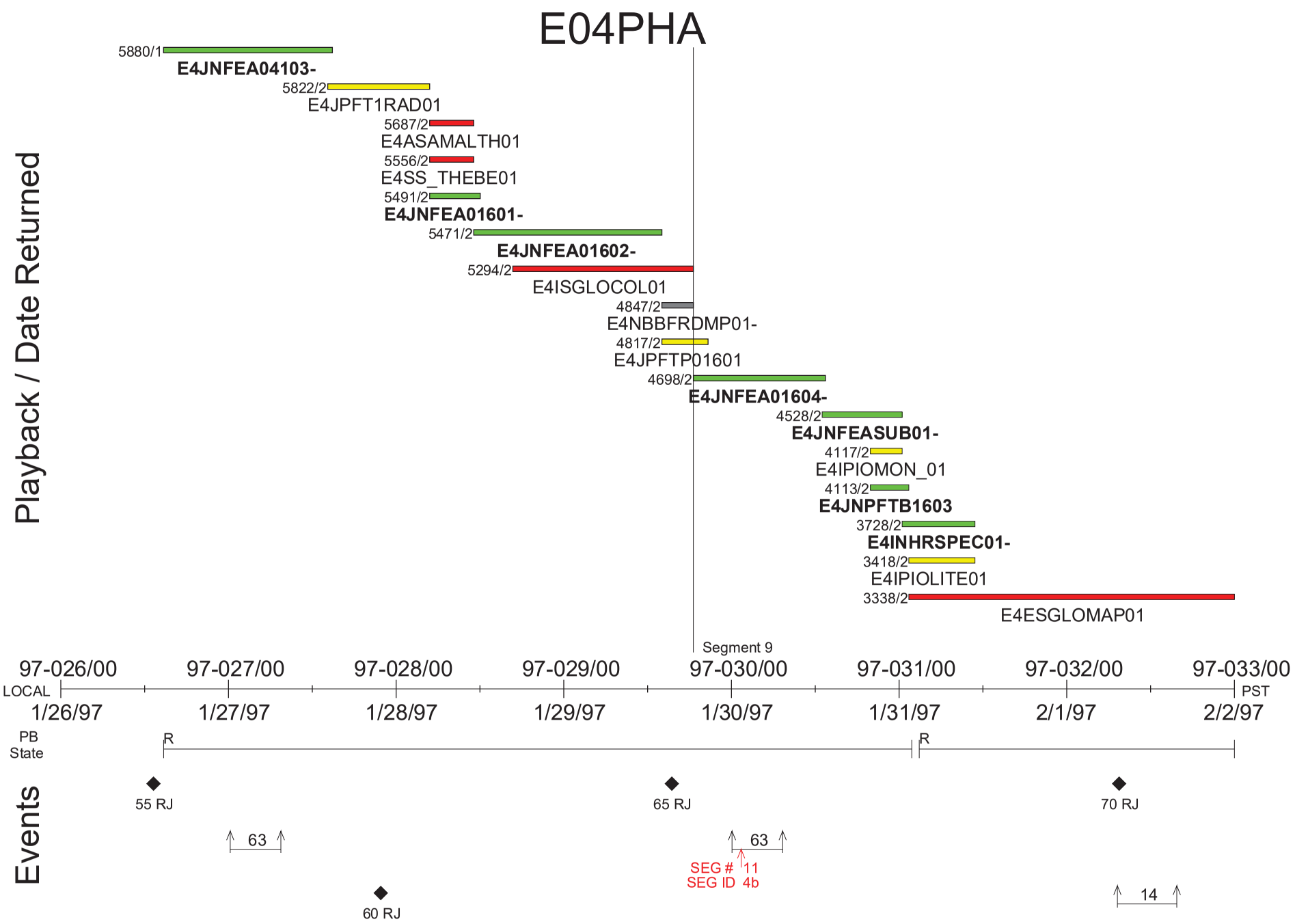
2-36



E04PHA

Playback / Date Returned

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5687/2
E4ASAMALTH01
5556/2
E4SS_THEBE01
5491/2
E4JNFEA01601-
5471/2
E4JNFEA01602-
5294/2
E4ISGLOCOL01
4847/2
E4NBBFRDMP01-
4817/2
E4JPFTP01601
4698/2
E4JNFEA01604-
4528/2
E4JNFEASUB01-
4117/2
E4IPIOMON_01
4113/2
E4JNPFTB1603
3728/2
E4INHRSPEC01-
3418/2
E4IPIOLITE01
3338/2
E4ESGLOMAP01
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97-029/00
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97-031/00
97-032/00
97-033/00
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PST
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1/28/97
1/29/97
1/30/97
1/31/97
2/1/97
2/2/97
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Events
55 RJ
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SEG # 11
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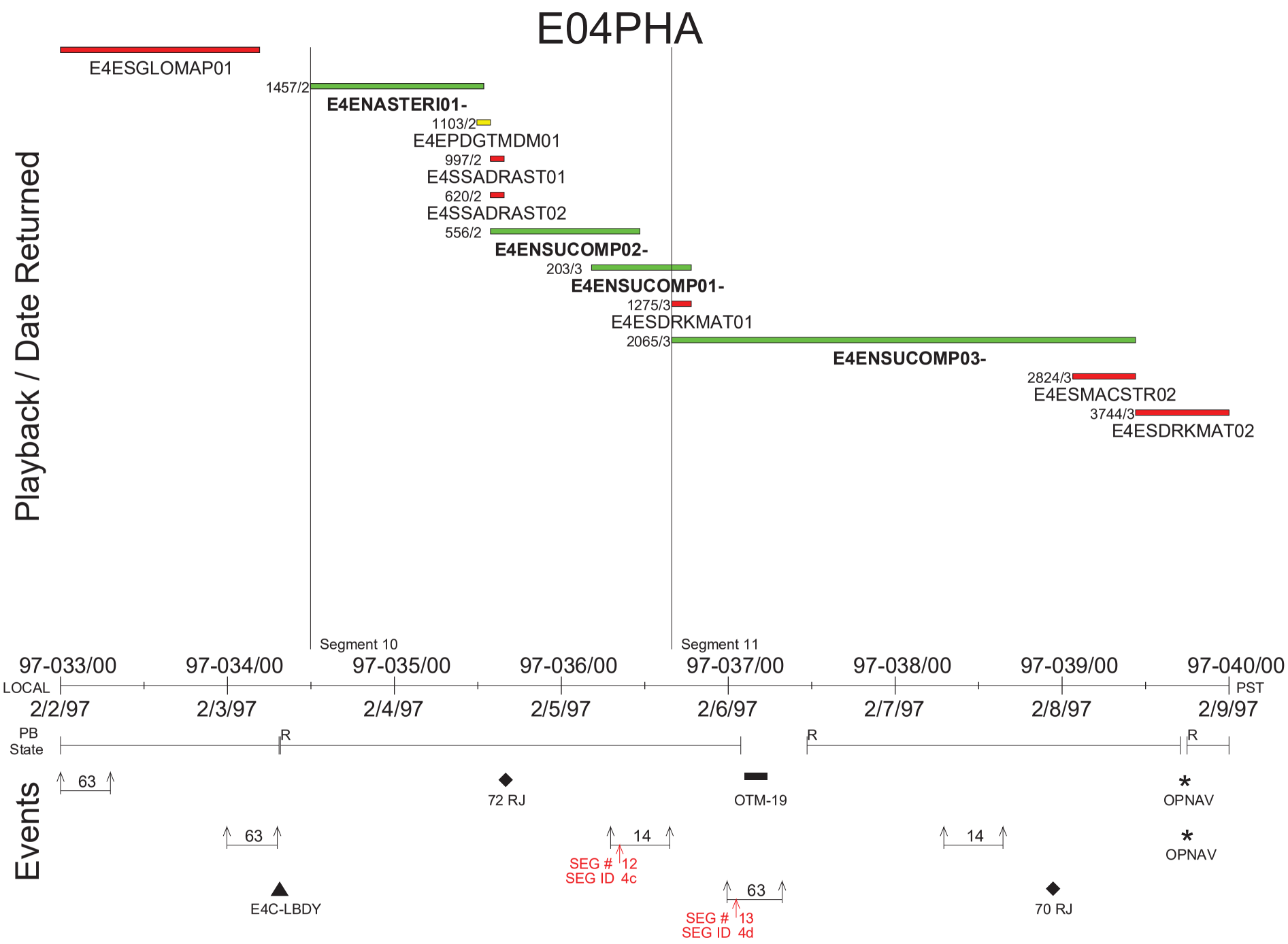
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997/2
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620/2
E4SSADRAST02
556/2
E4ENSUCOMP02-
203/3
E4ENSUCOMP01-
1275/3
E4ESDRKMAT01
2065/3
E4ENSUCOMP03-
2824/3
E4ESMACSTR02
3744/3
E4ESDRKMAT02
Segment 10
Segment 11
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97-036/00
97-037/00
97-038/00
97-039/00
97-040/00
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2/6/97
2/7/97
2/8/97
2/9/97
PB State
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R
R
Events
63
72 RJ
OTM-19
OPNAV
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OPNAV
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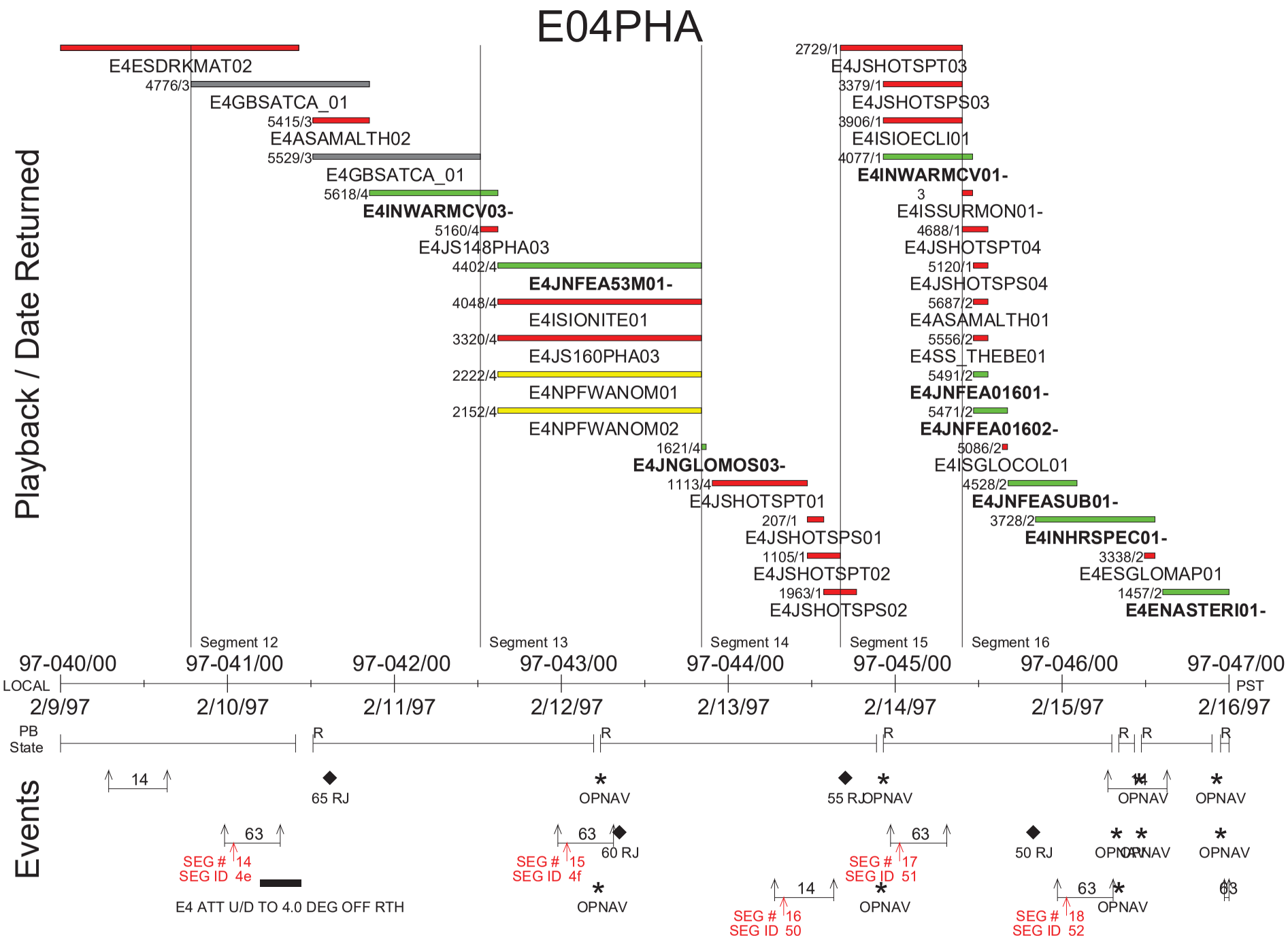
E4C-LBDY
SEG # 13
SEG ID 4d
70 RJ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Playback / Date Returned
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5415/3
E4ASAMALTH02
5529/3
E4GBSATCA_01
5618/4
E4INWARMCV03-
5160/4
E4JS148PHA03
4402/4
E4JNFEA53M01-
4048/4
E4ISIONITE01
3320/4
E4JS160PHA03
2222/4
E4NPFWANOM01
2152/4
E4NPFWANOM02
1621/4
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207/1
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1105/1
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1963/1
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2729/1
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3379/1
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5120/1
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4528/2
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Segment 13
Segment 14
Segment 15
Segment 16
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97-044/00
97-045/00
97-046/00
97-047/00
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PST
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2/10/97
2/11/97
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2/13/97
2/14/97
2/15/97
2/16/97
PB State
R
Events
14
65 RJ
OPNAV
55 RJ
OPNAV
OPNAV
OPNAV
63
SEG # 14
SEG ID 4e
E4 ATT U/D TO 4.0 DEG OFF RTH
63
SEG # 15
SEG ID 4f
60 RJ
OPNAV
63
SEG # 17
SEG ID 51
14
SEG # 16
SEG ID 50
OPNAV
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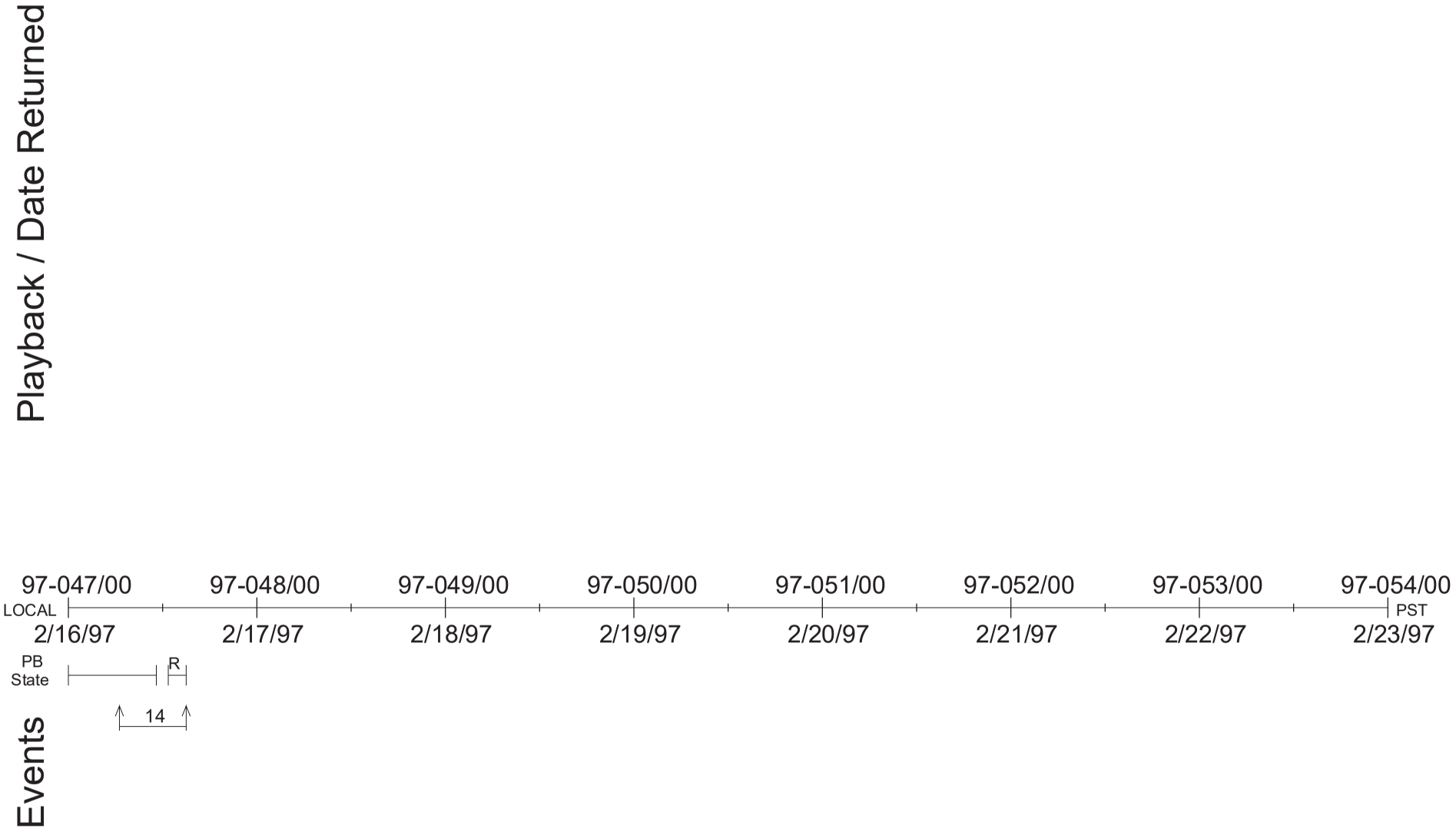
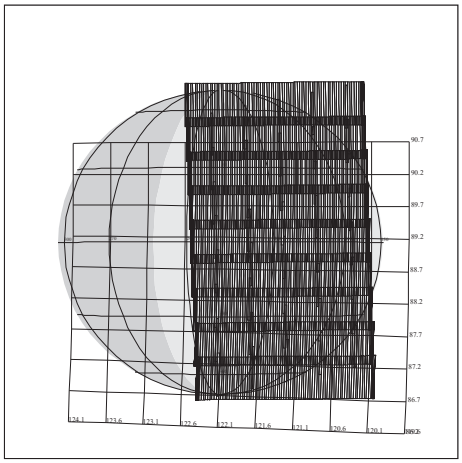
OPNAV
63
SEG # 18
SEG ID 52
OPNAV

E04PHA

E4ENASTERI01-



E4 NIMS A



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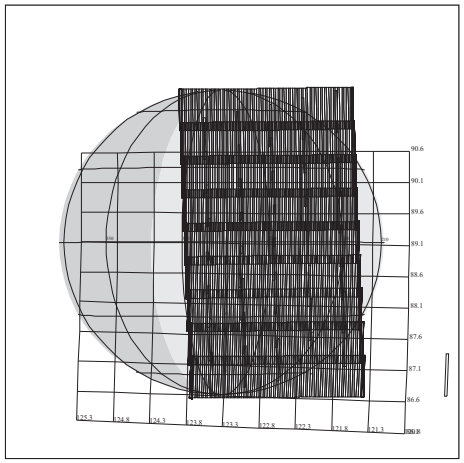

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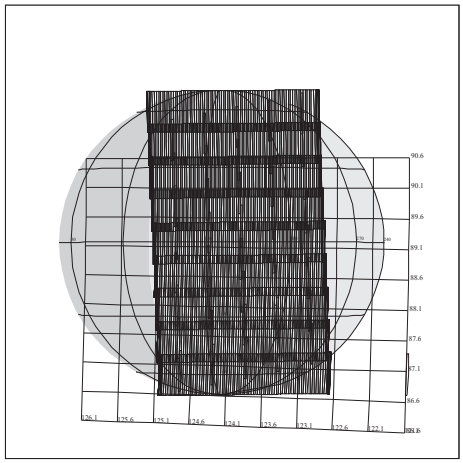
96-352/04:59:53



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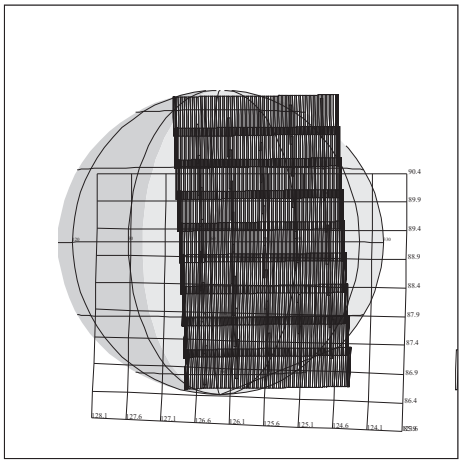

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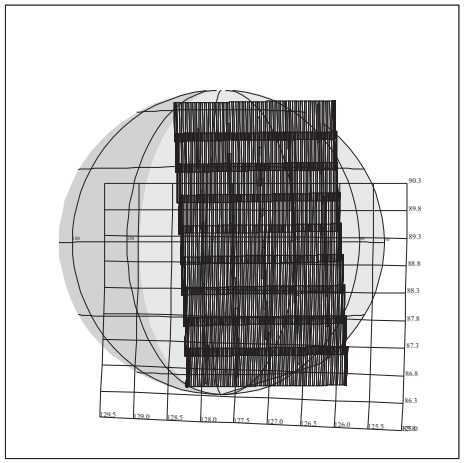

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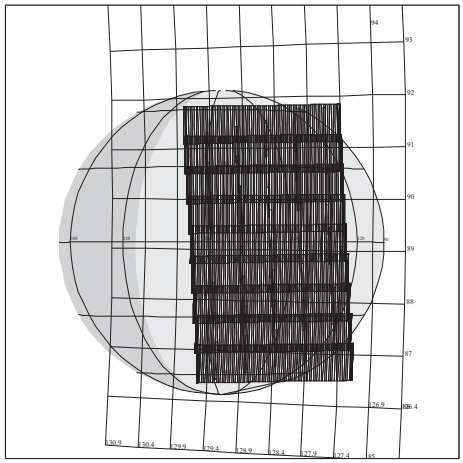

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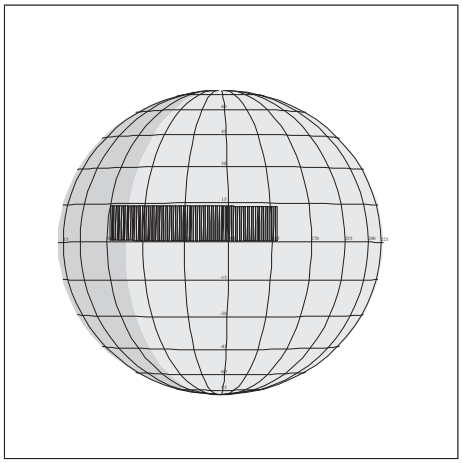
96-352/11:59:30



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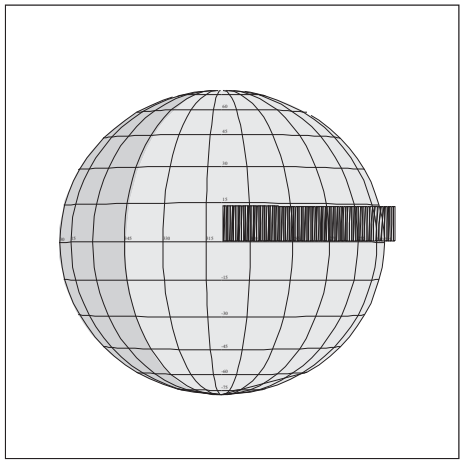

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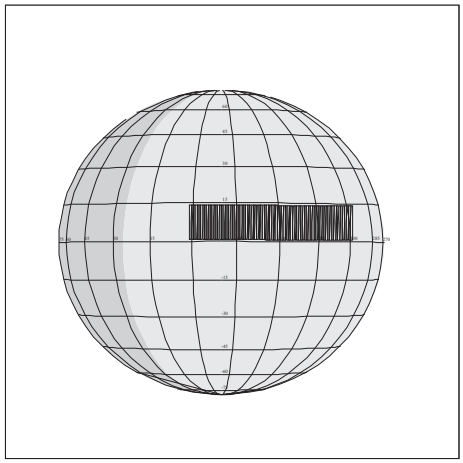

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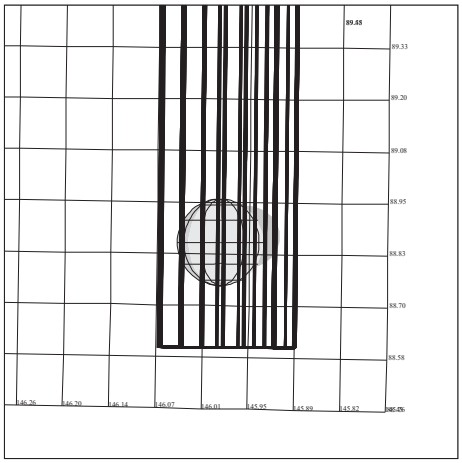

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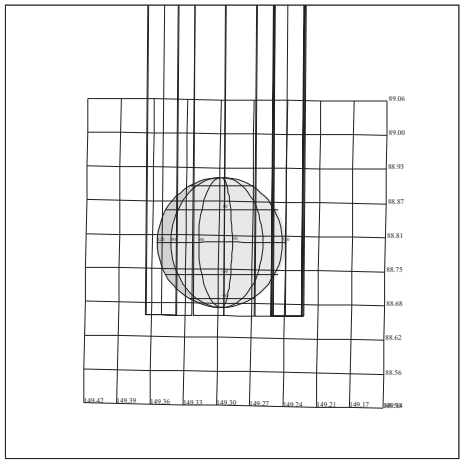

E4INRTIMON01
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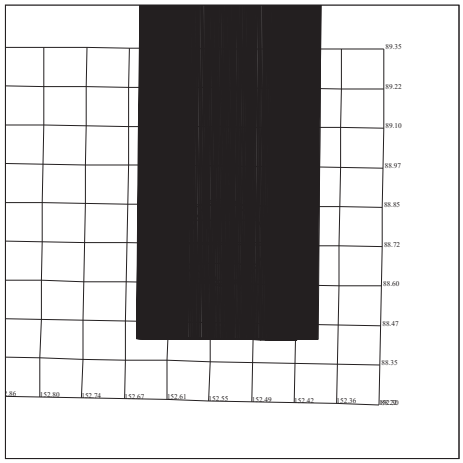

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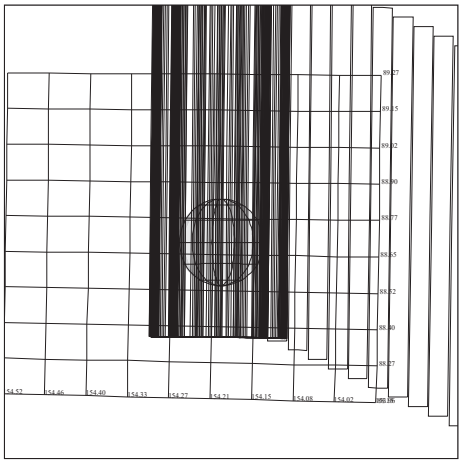

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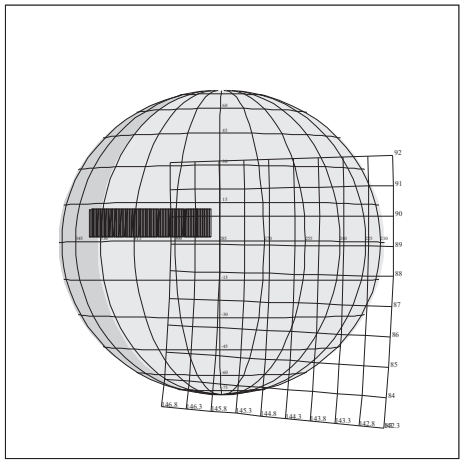

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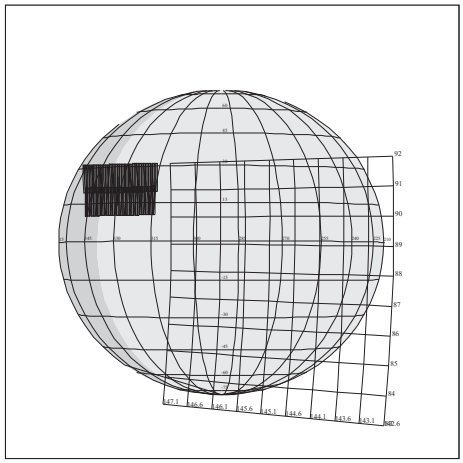

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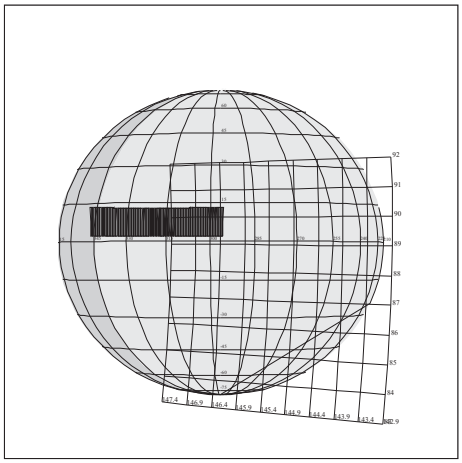
96-353/01:37:29



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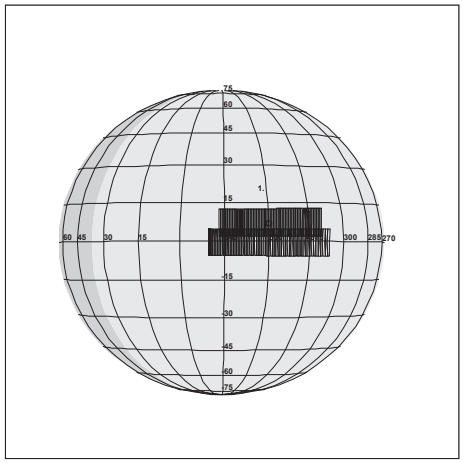

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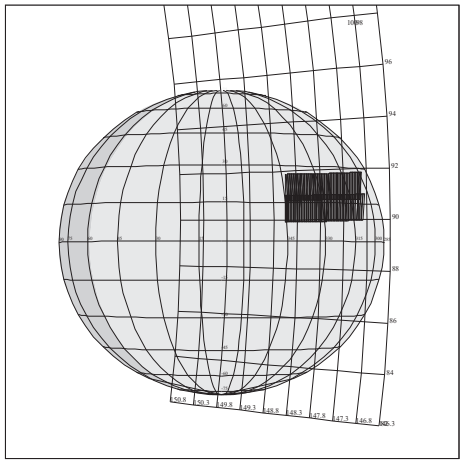
96-353/03:12:32



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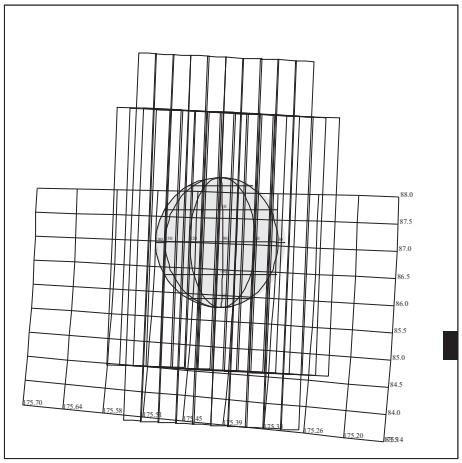

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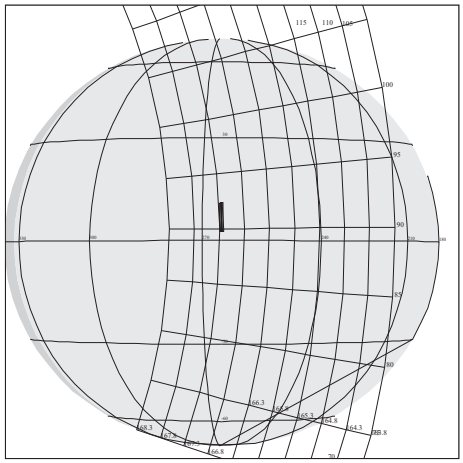

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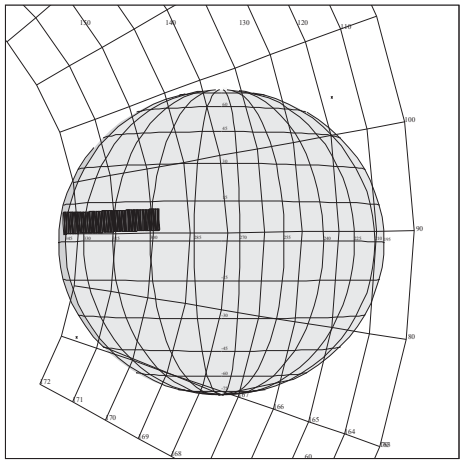

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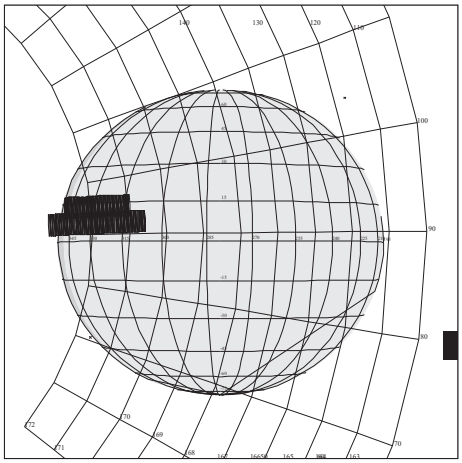

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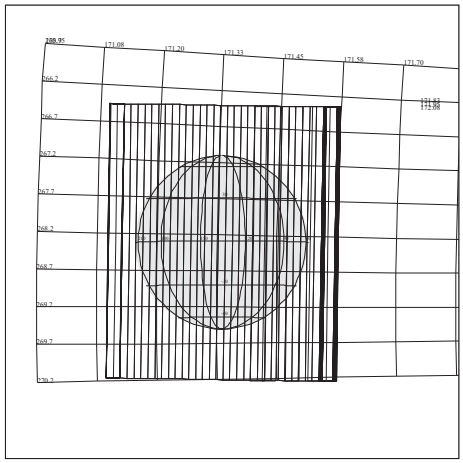

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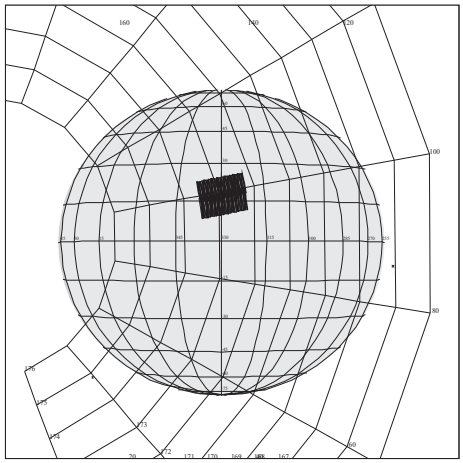

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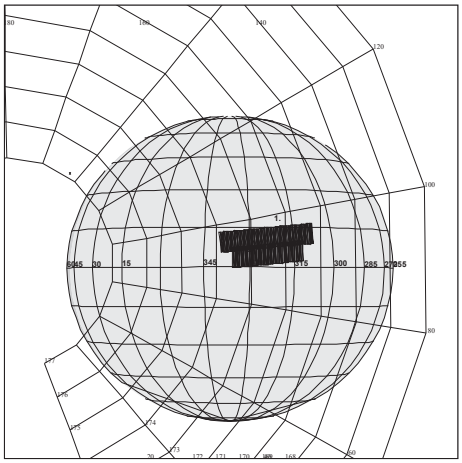

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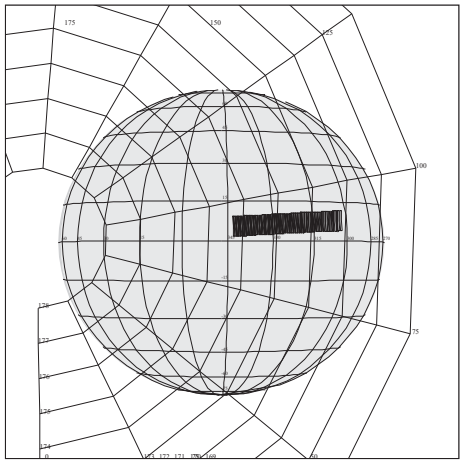

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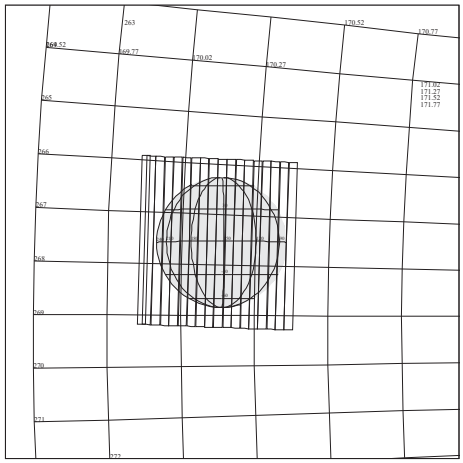

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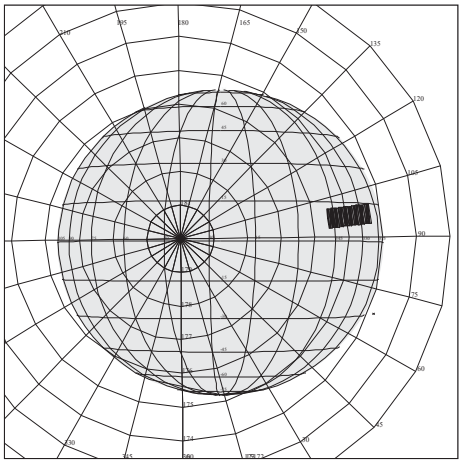

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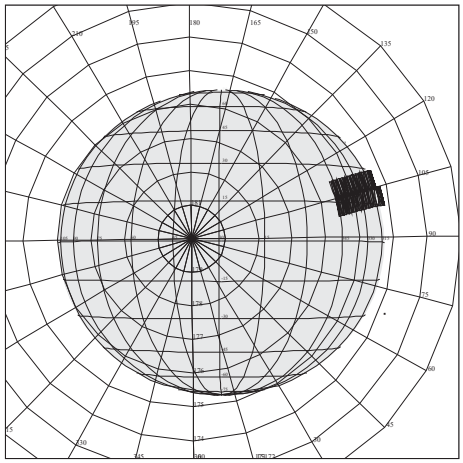

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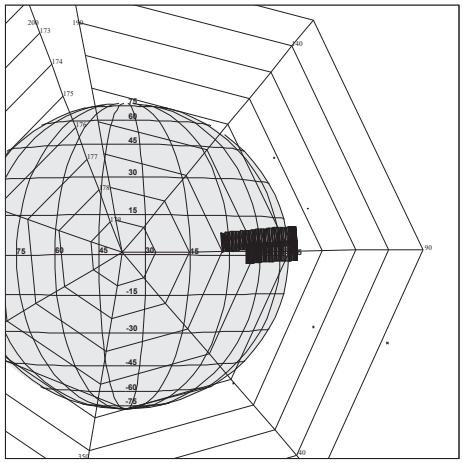

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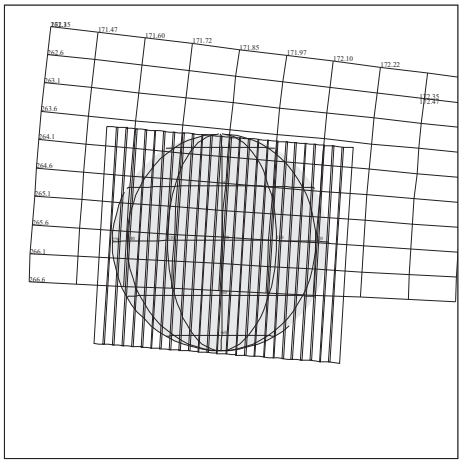

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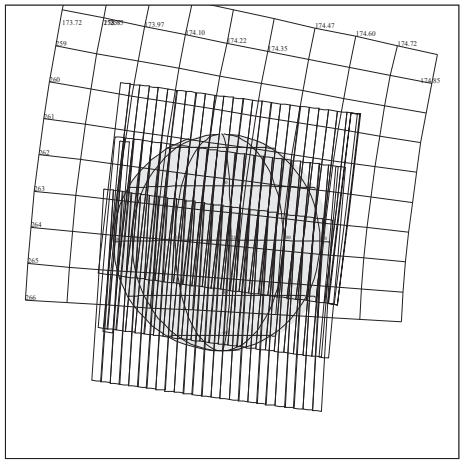

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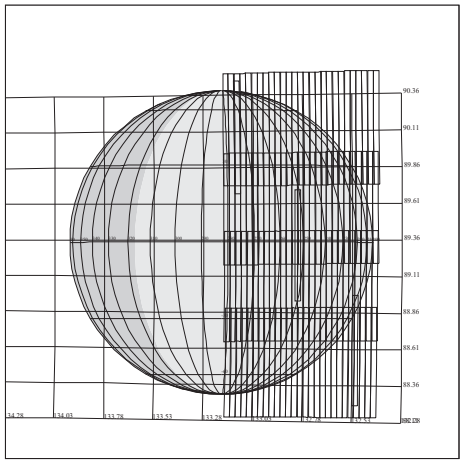

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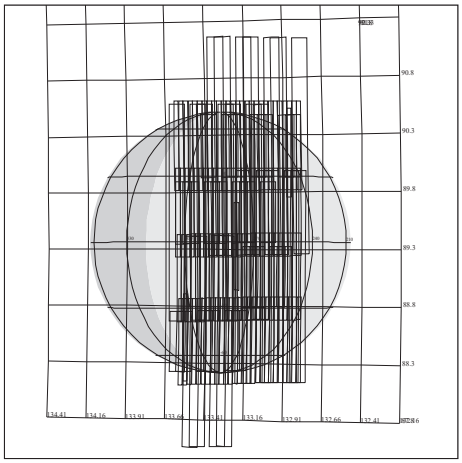

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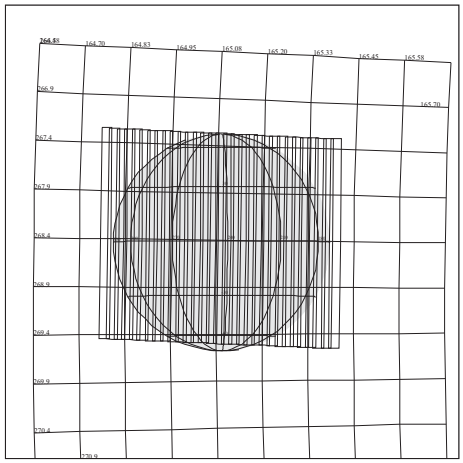

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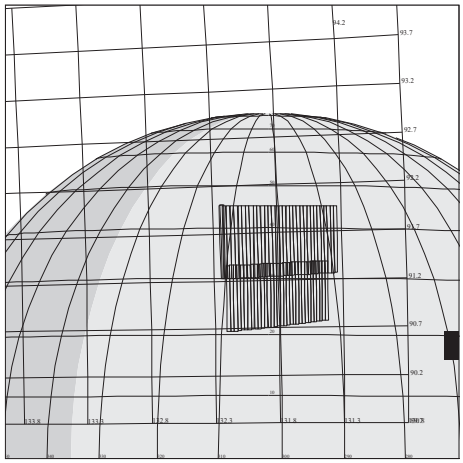

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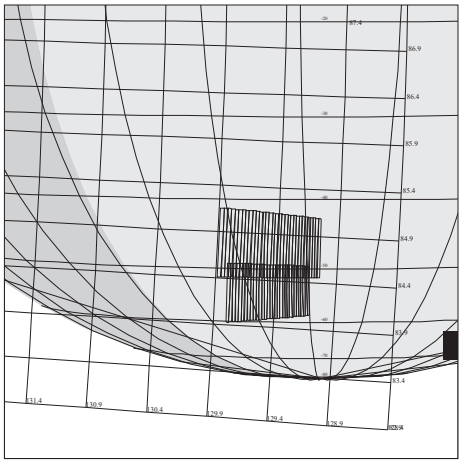

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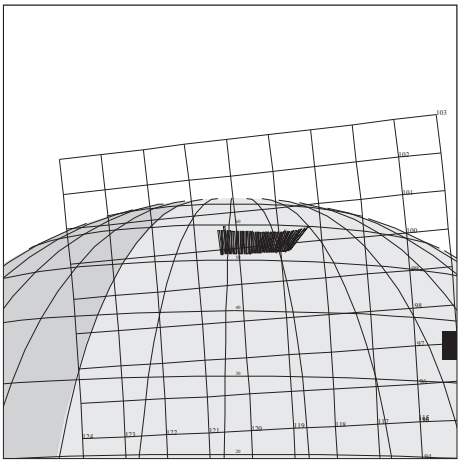

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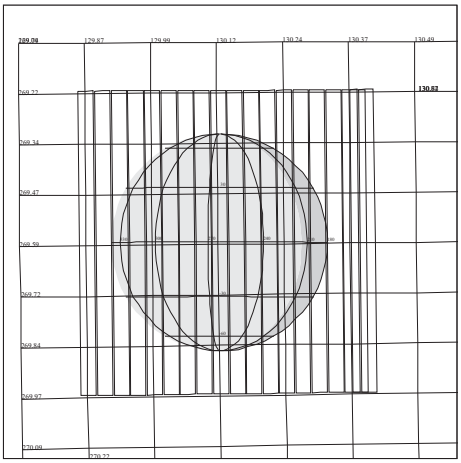

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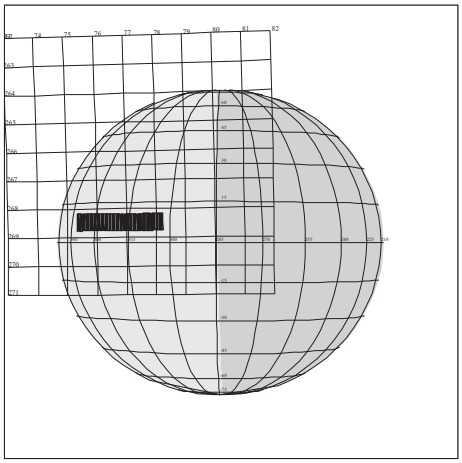

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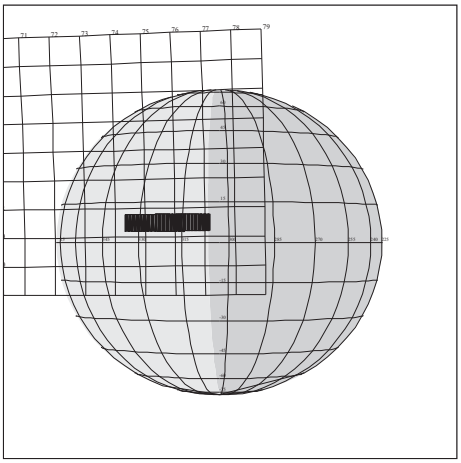

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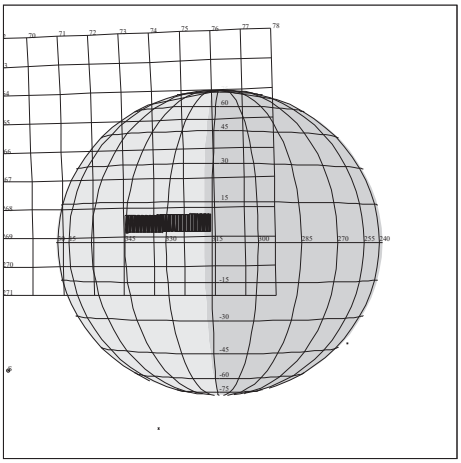

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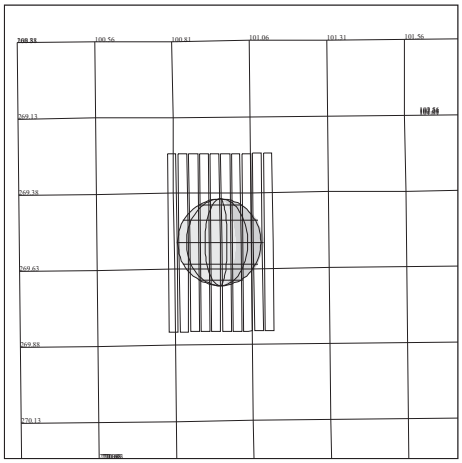

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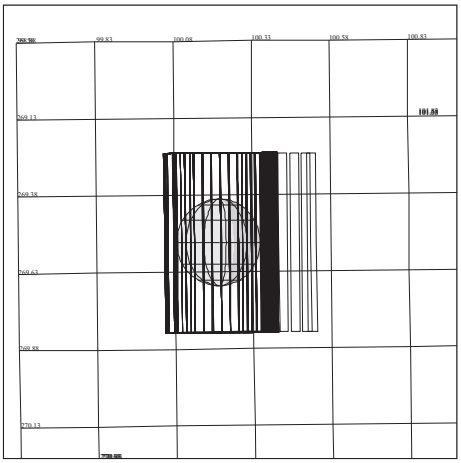

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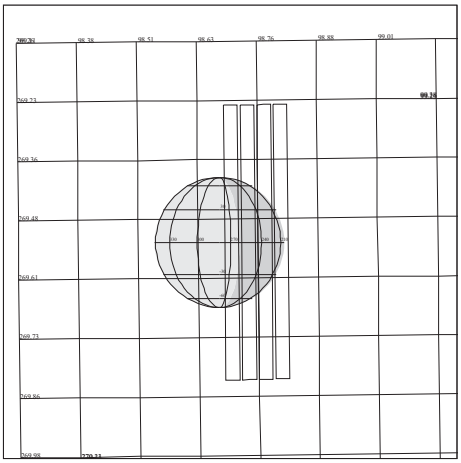

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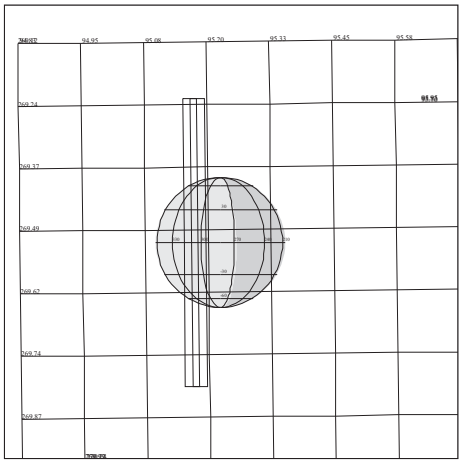

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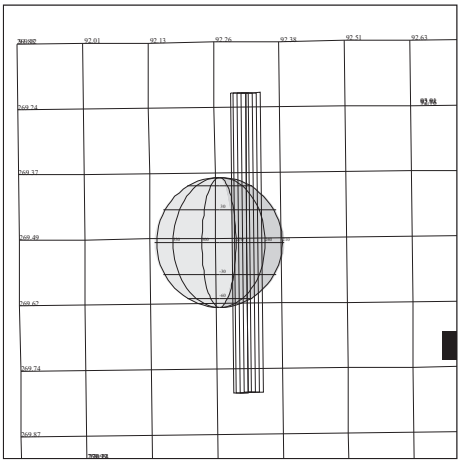

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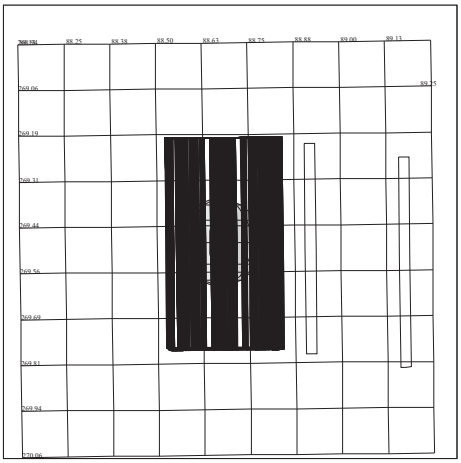

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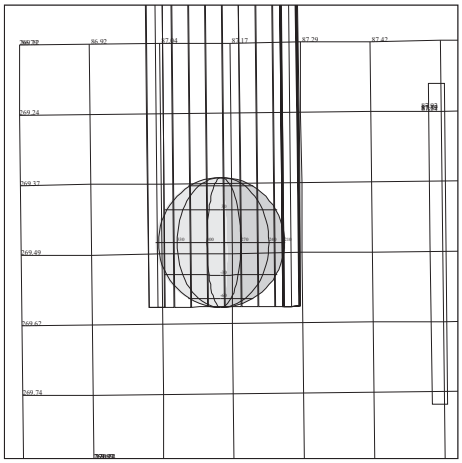

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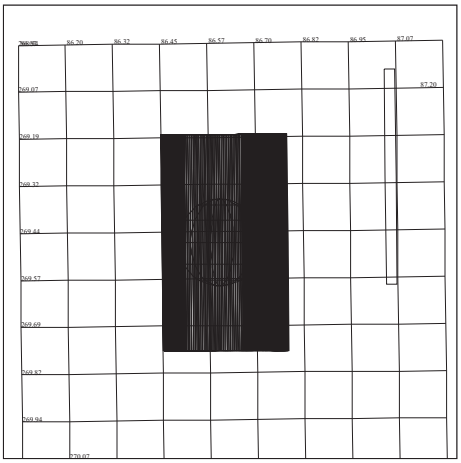

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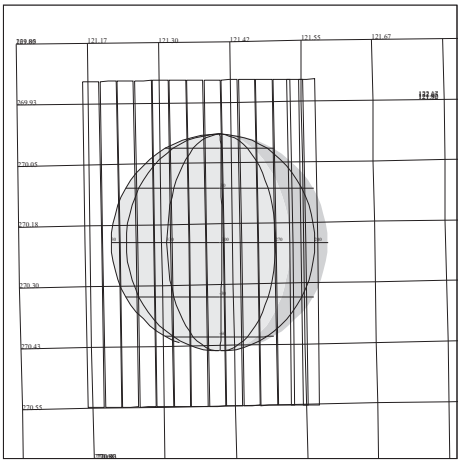

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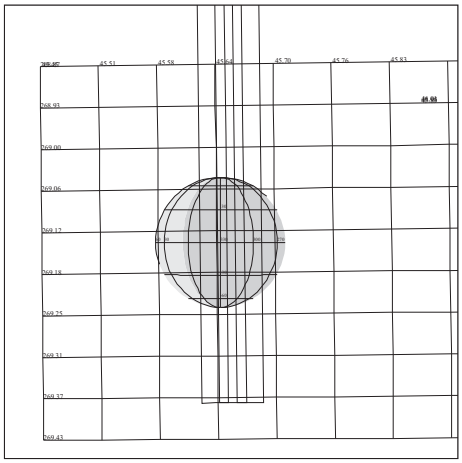

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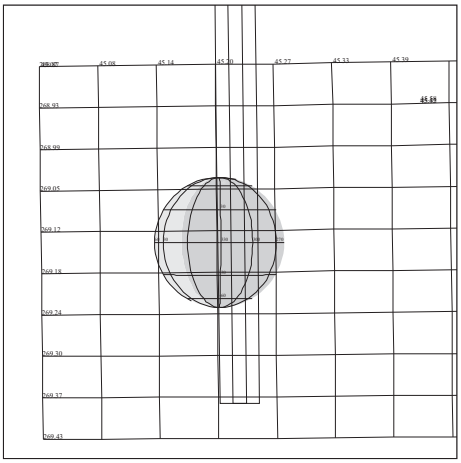

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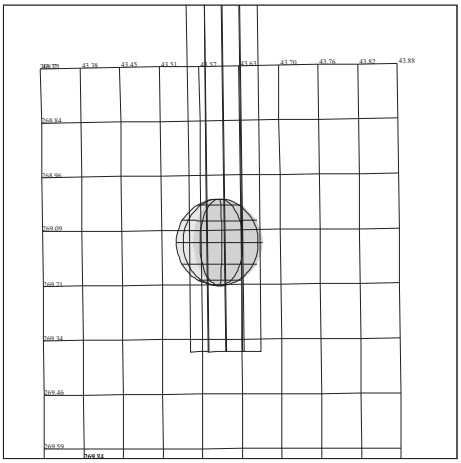

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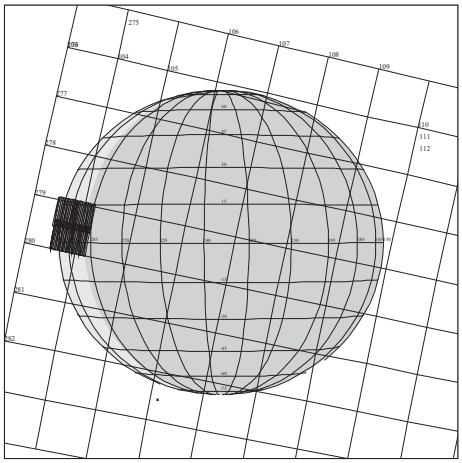

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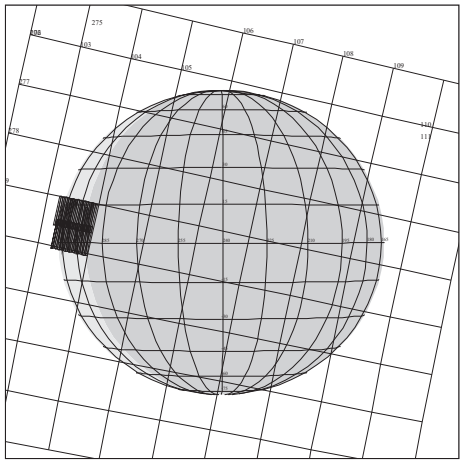

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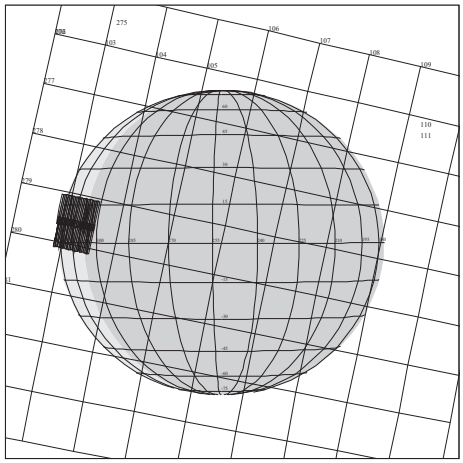

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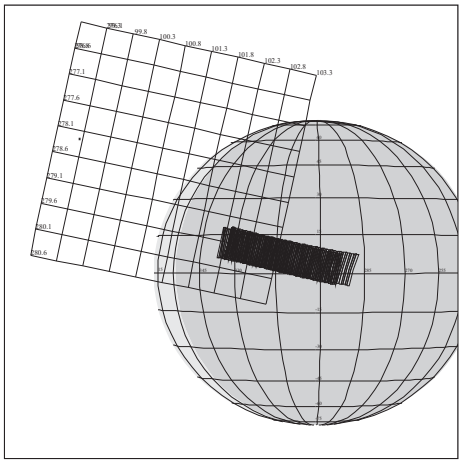

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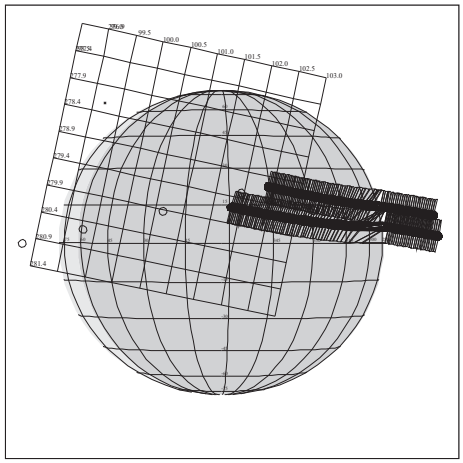

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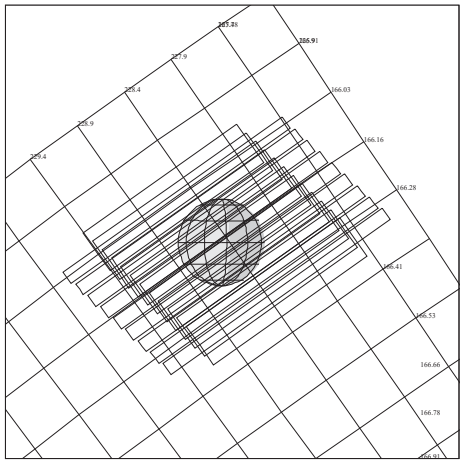

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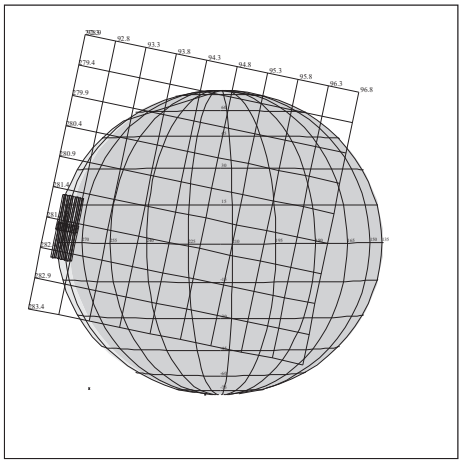

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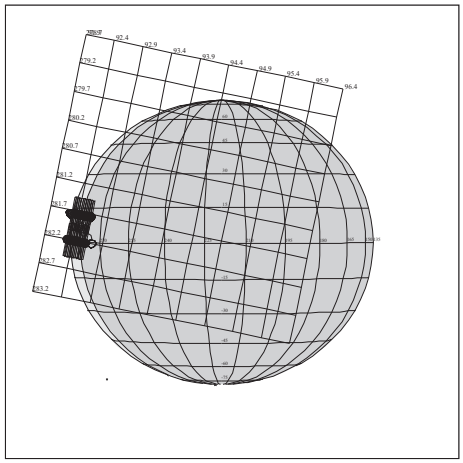

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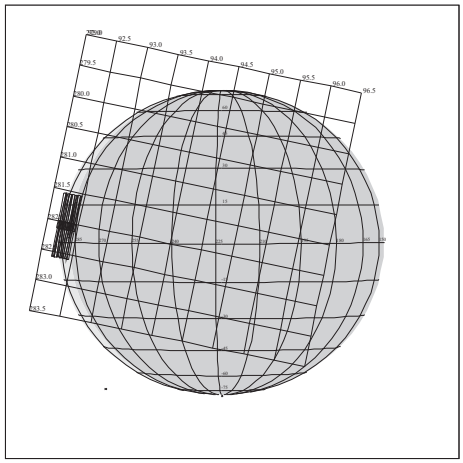

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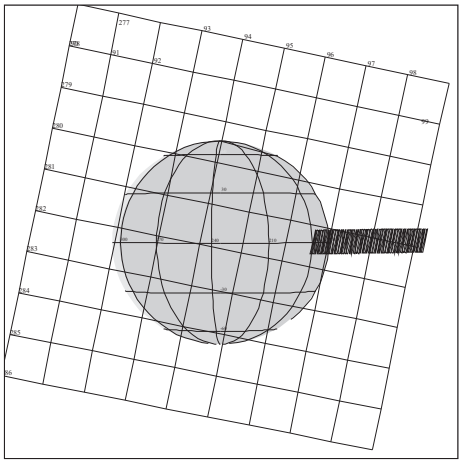


E4RNMRING_01

96-355/17:07:21

Chapter 3 - Orbit Geometries

Contents

Introduction to Chapter 3

This chapter contains diagrams of various aspects of geometry for the E4 Orbit.

The figure on page 3 is a North Trajectory Pole View of the E4 Orbit from apoapsis to apoapsis.

The figure on page 4 is a North Trajectory Pole View of the E4 Orbit from +/- 5 days of Europa closest approach.

The figure on page 5 is a North Trajectory Pole View of the E4 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 E4 Orbit from +/- 1 hour of Europa closest approach.

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

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

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

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

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

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

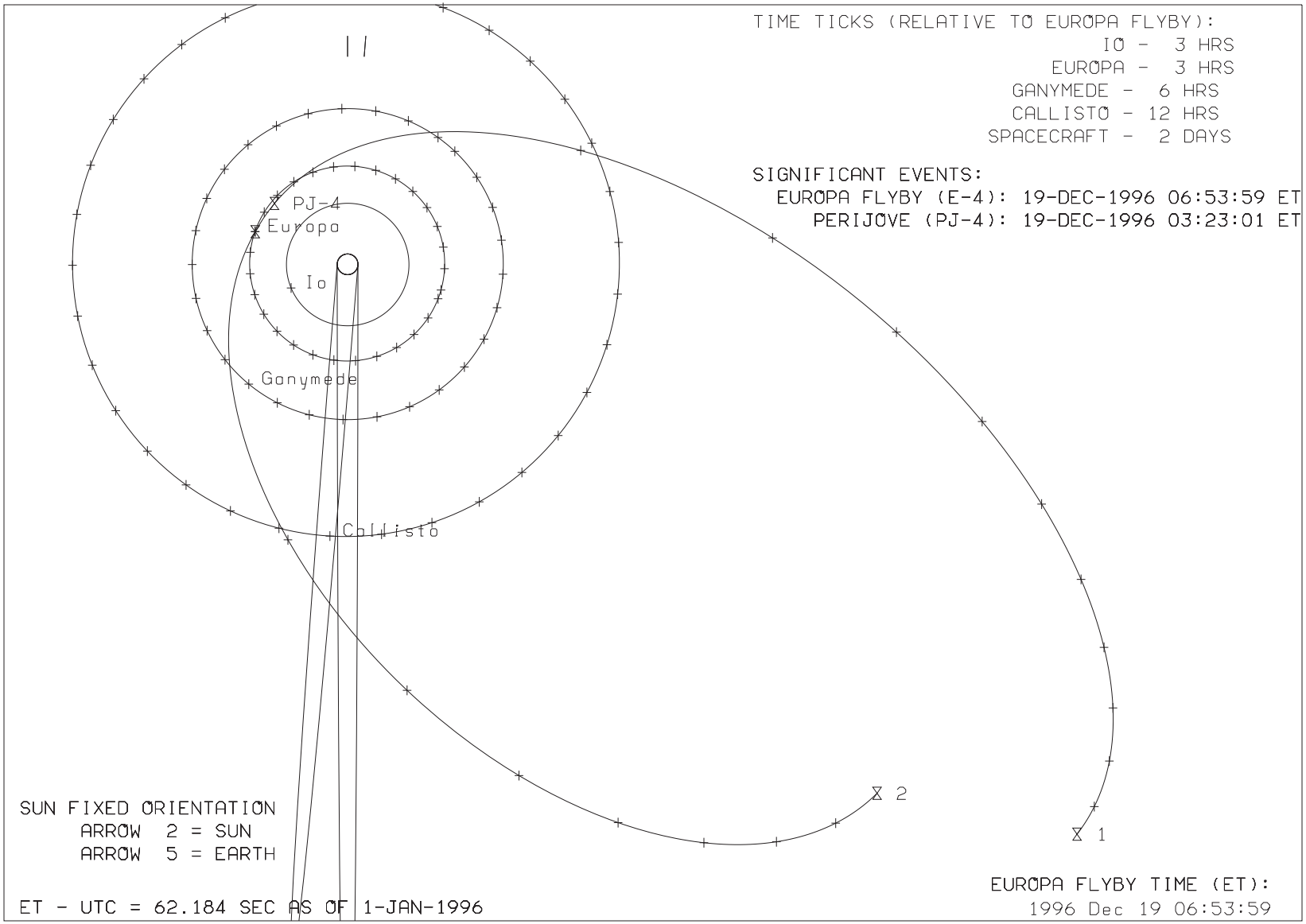
The figure on page 15 is a North Trajectory Pole View of the J5 phasing Orbit from apoapsis to apoapsis.

The figure on page 16 is a North Trajectory Pole View of the J5 phasing Orbit from +/- 5 days of Europa closest approach.

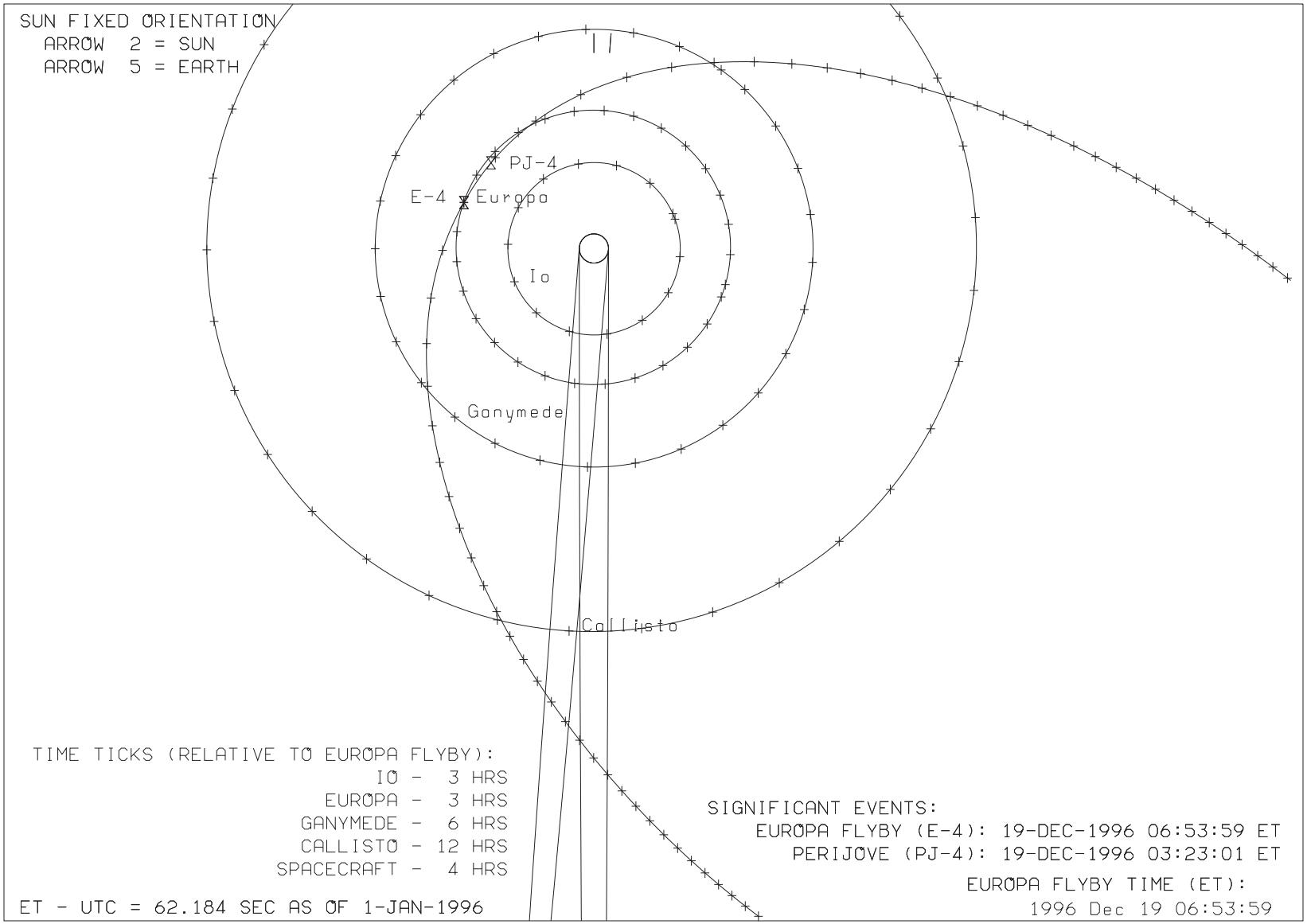
The figure on page 17 is a North Trajectory Pole View of the J5 phasing Orbit from +/- 1 day of Europa closest approach.

The figure on page 18 shows the spacecraft's groundtrack on Jupiter at Jupiter closest approach (J5).

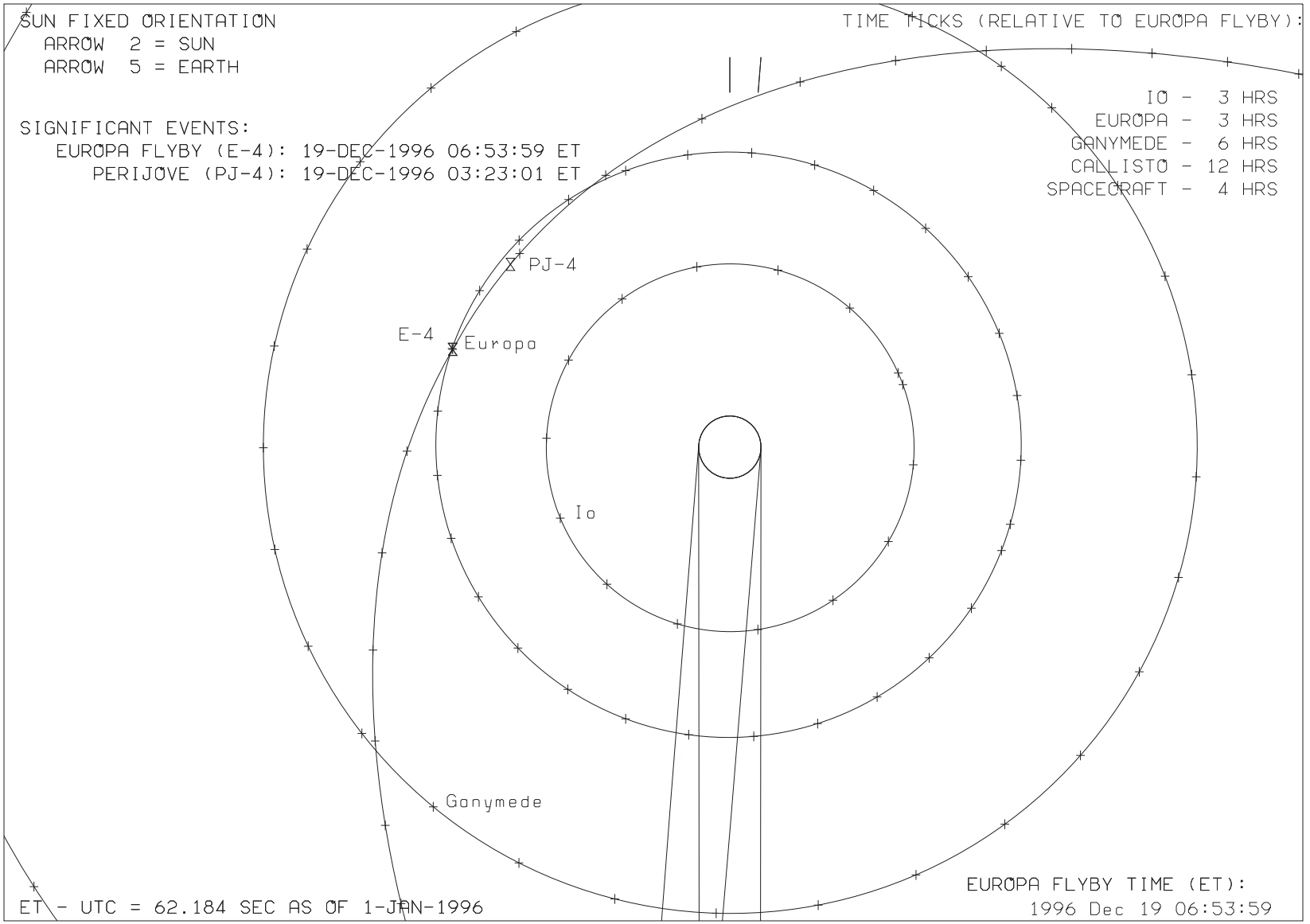
Jupiter 4: North Trajectory Pole View (E-4 Apo to Apo)



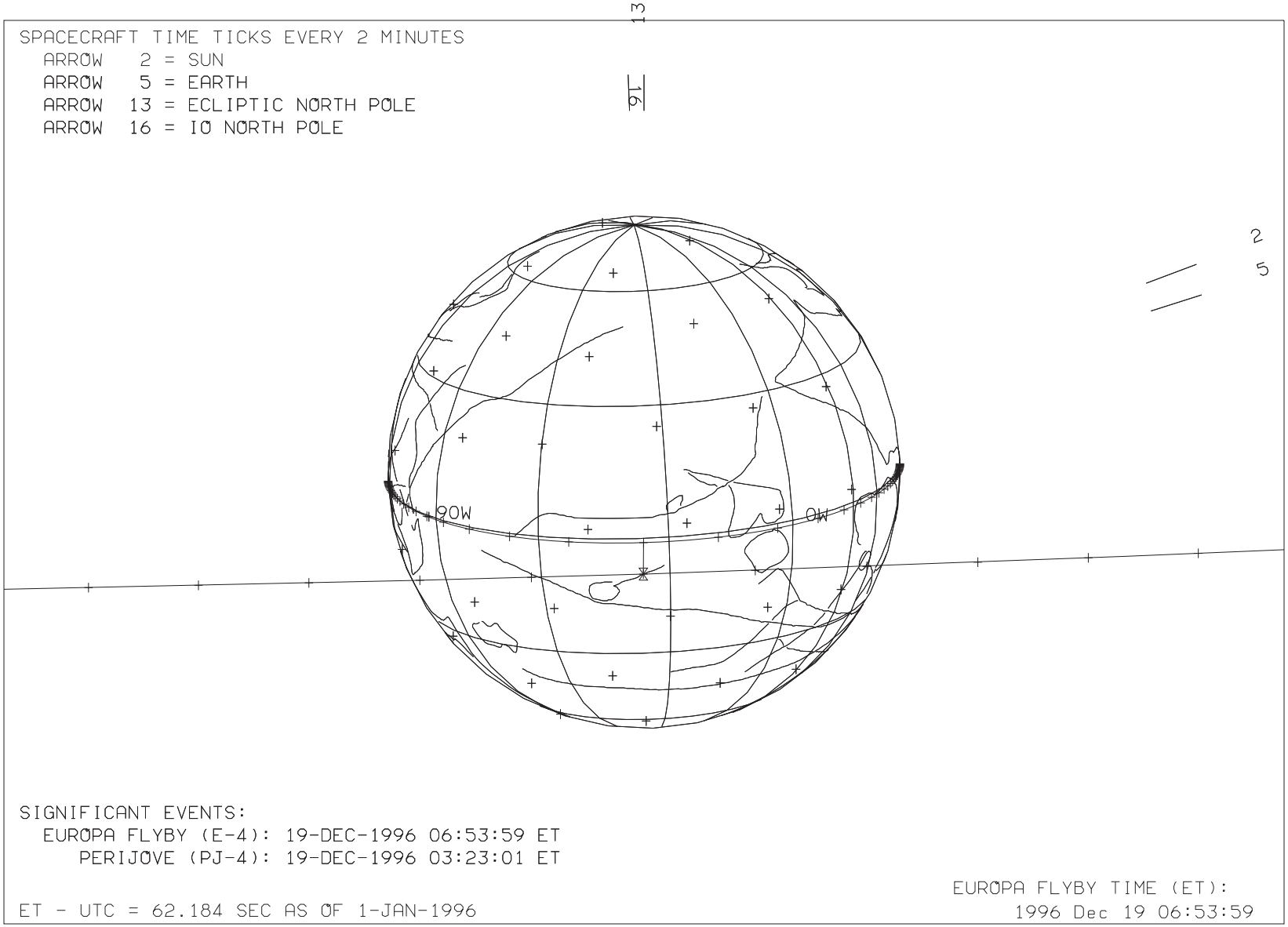
Jupiter 4: North Trajectory Pole View (E-4 +/- 5 days)



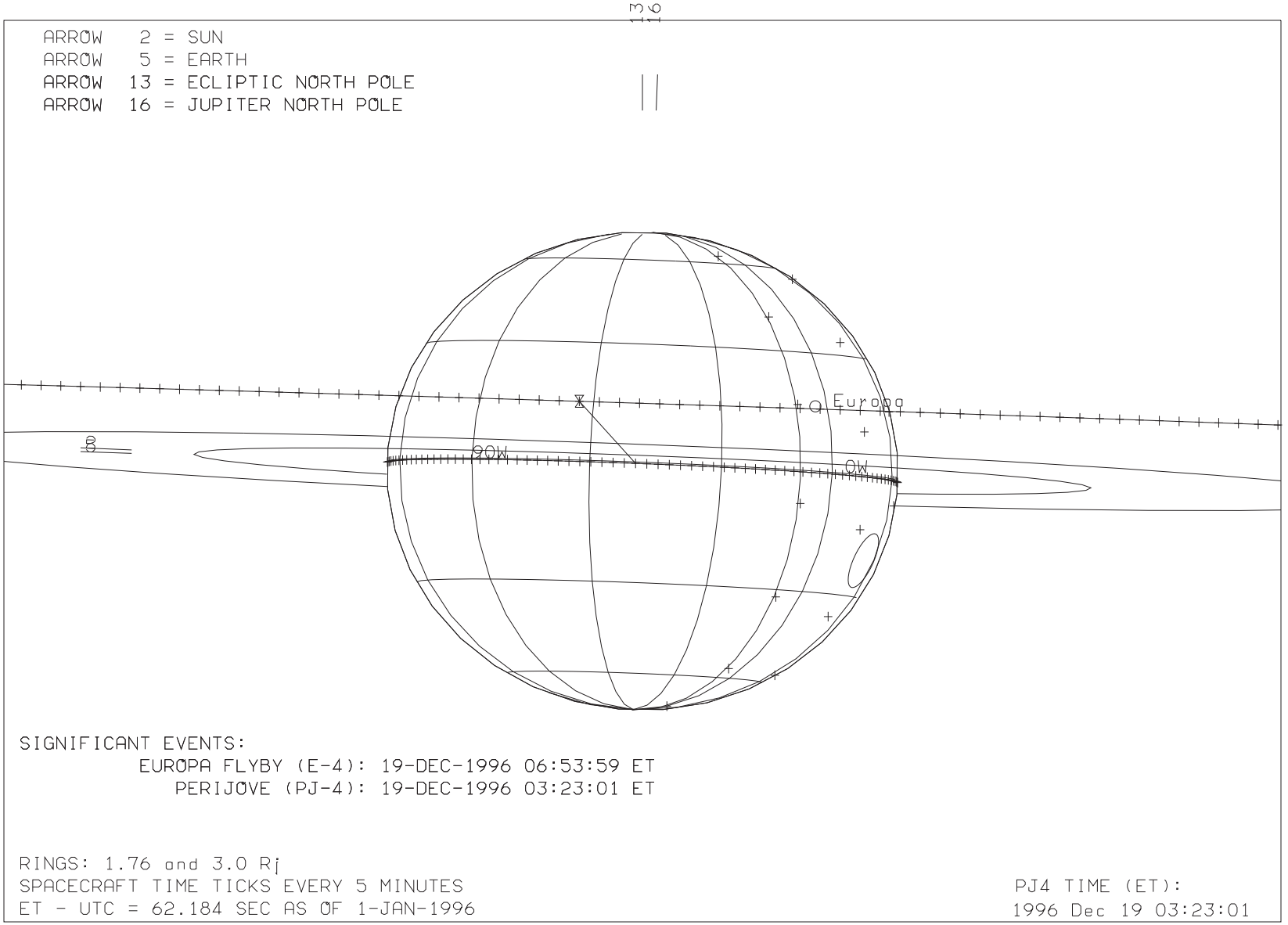
Jupiter 4: North Trajectory Pole View (E-4 +/- 1 day)



EUROPA 4: GROUNDTRACK AT CLOSEST APPROACH



JUPITER 4: GROUNDTRACK AT CLOSEST APPROACH



SIGNIFICANT EVENTS:
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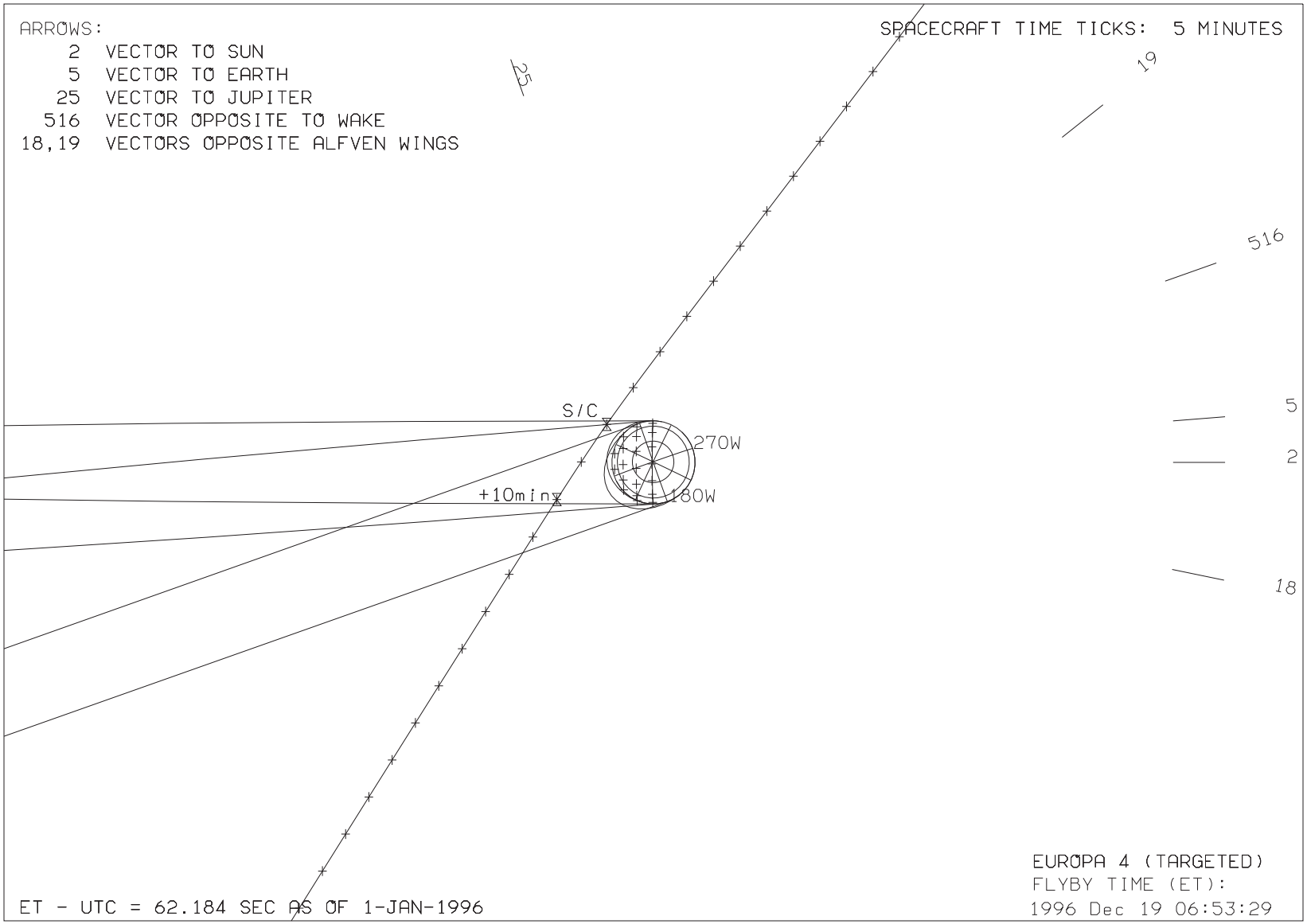
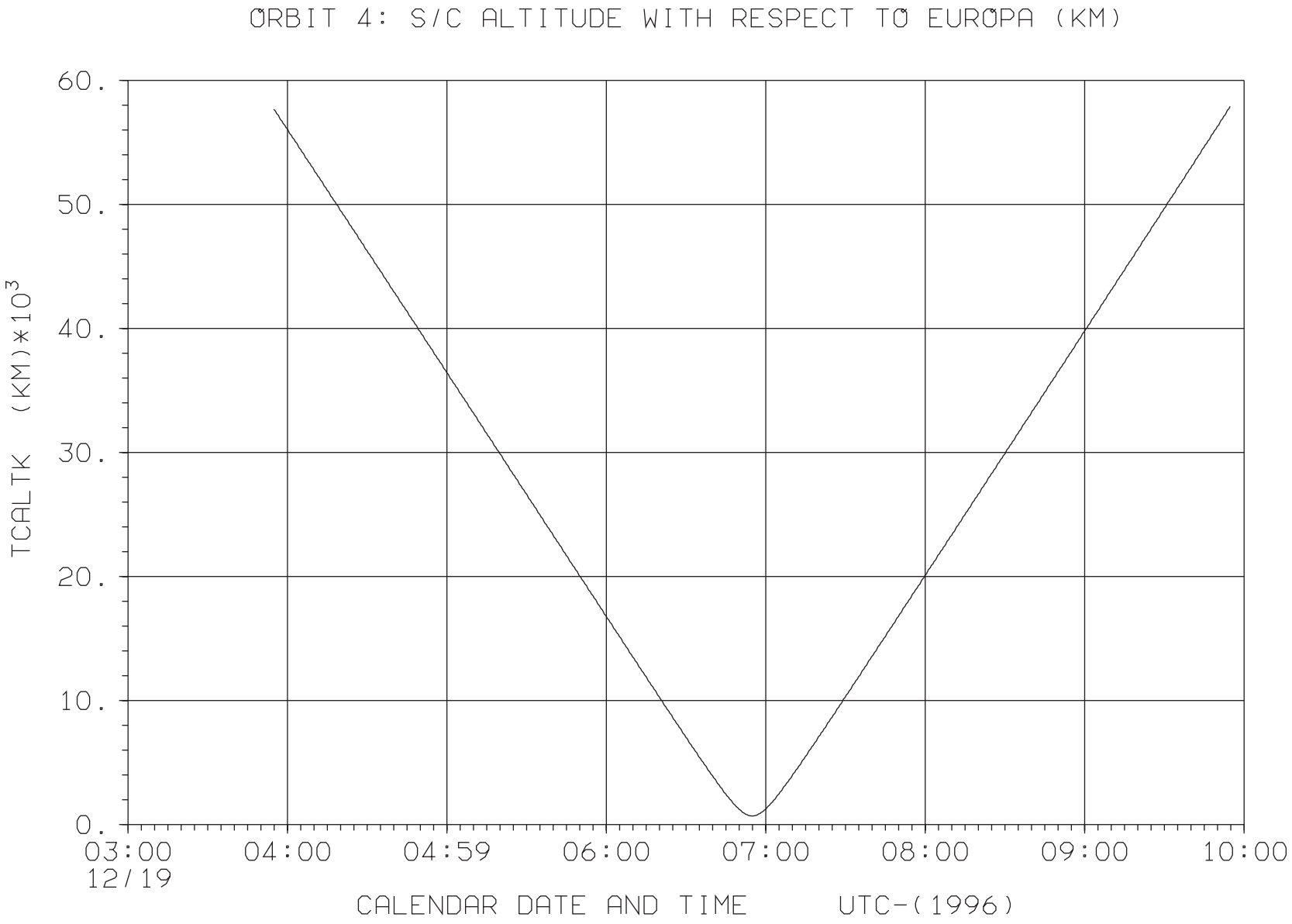
PERIJOVE (PJ-4): 19-DEC-1996 03:23:01 ET

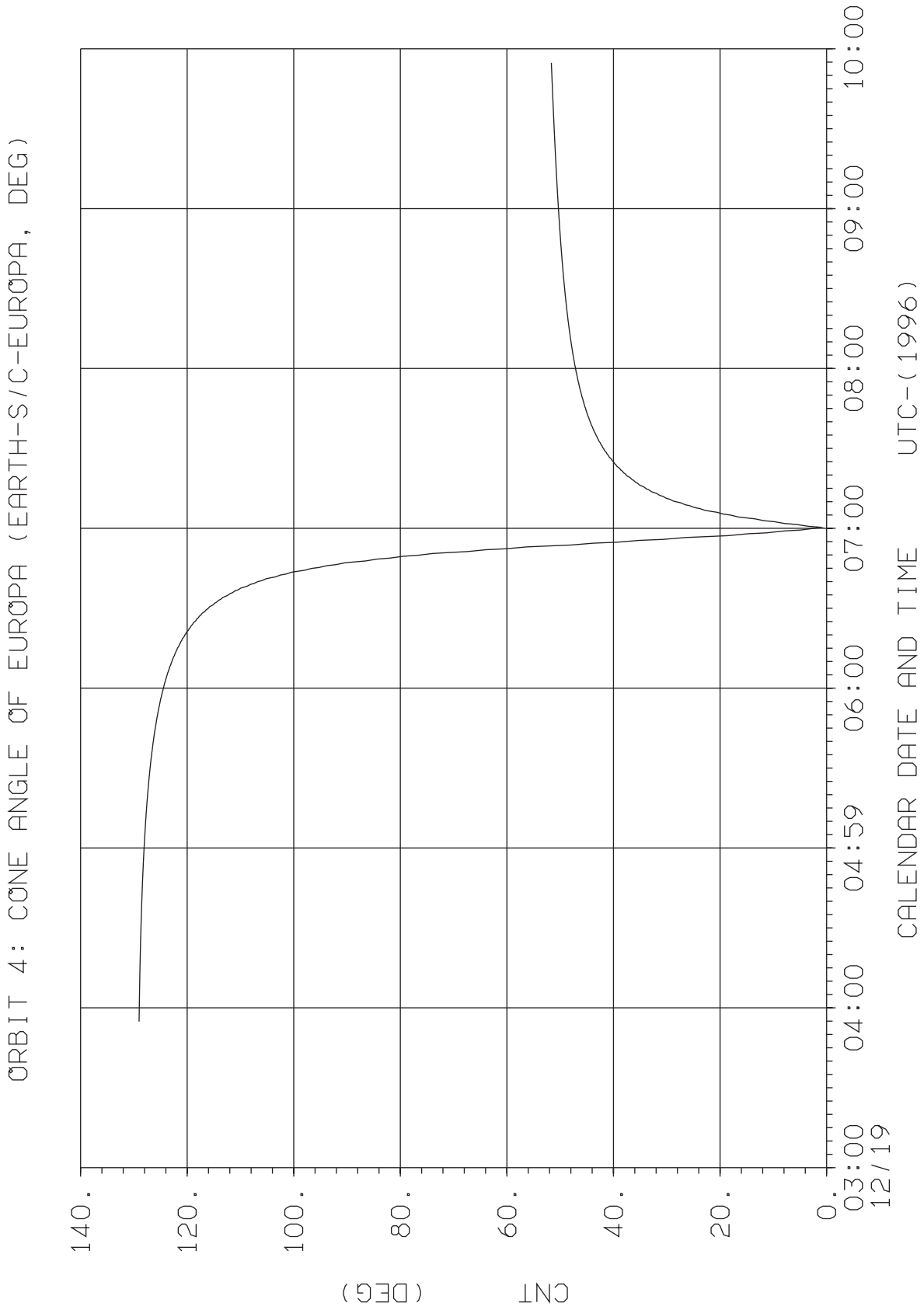
RINGS: 1.76 and 3.0 Rj
SPACECRAFT TIME TICKS EVERY 5 MINUTES
ET - UTC = 62.184 SEC AS OF 1-JAN-1996

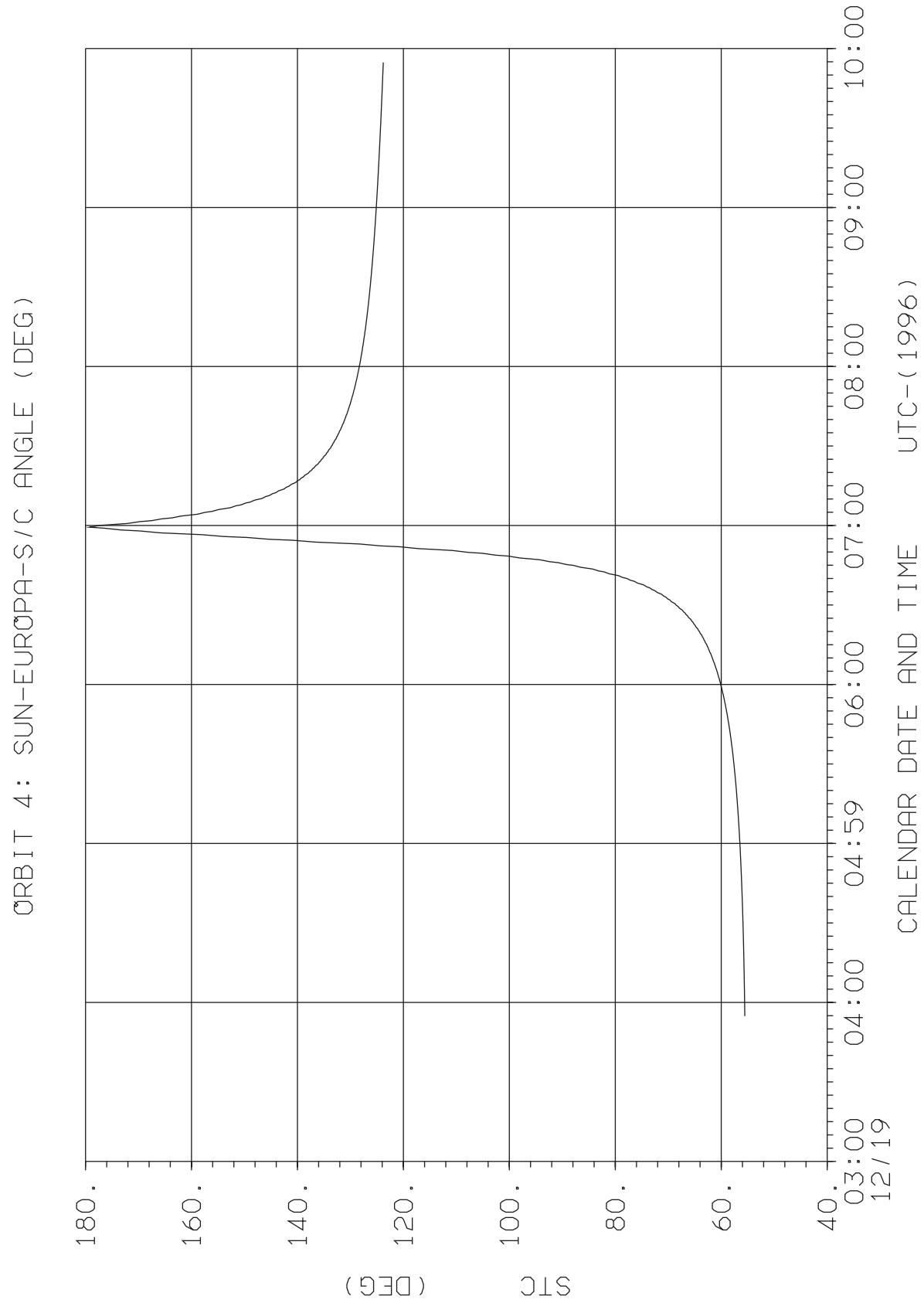
PJ4 TIME (ET):
1996 Dec 19 03:23:01

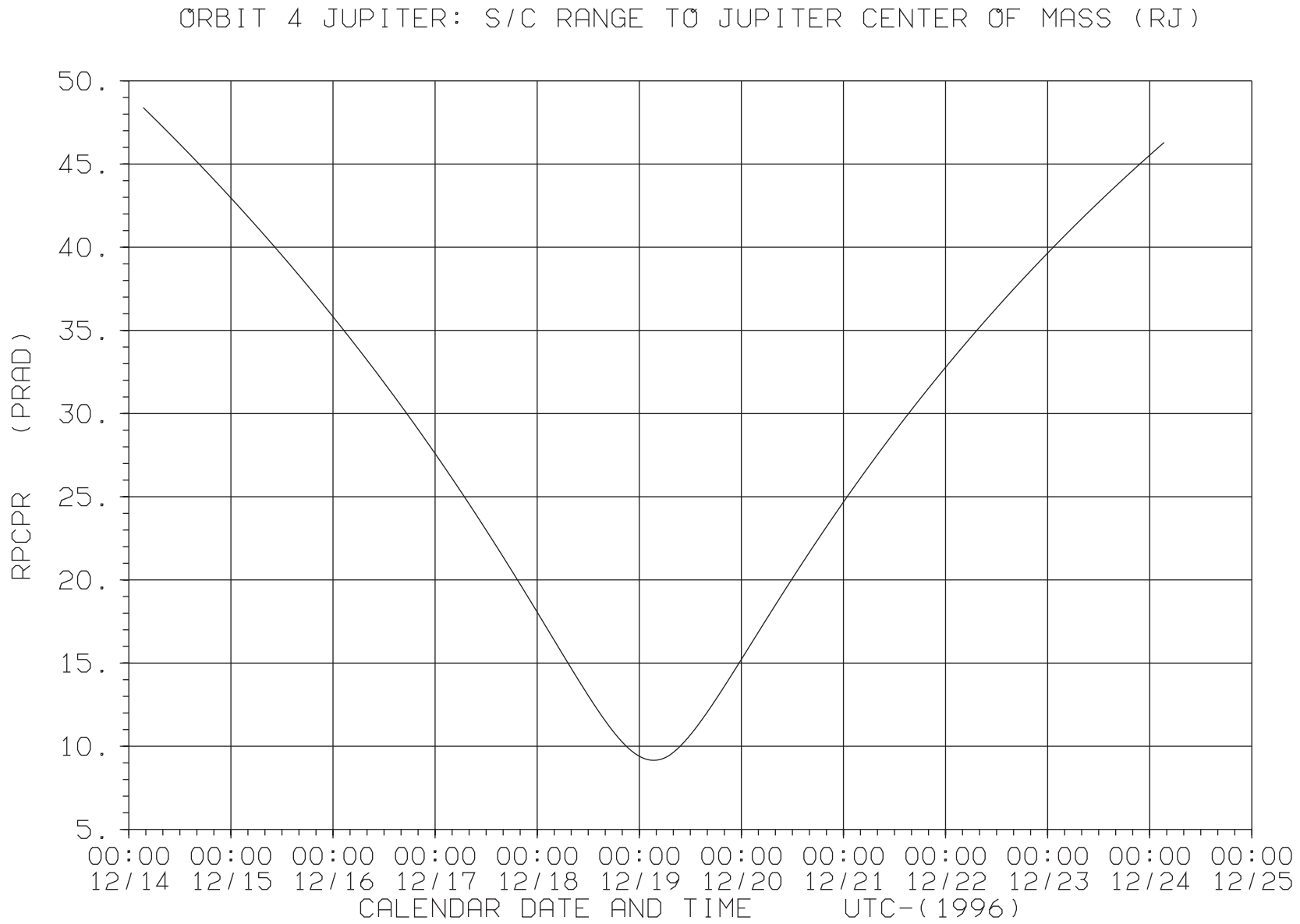
EUROPA 4: CLOSEST APPROACH (NORTH TRAJECTORY POLE VIEW)

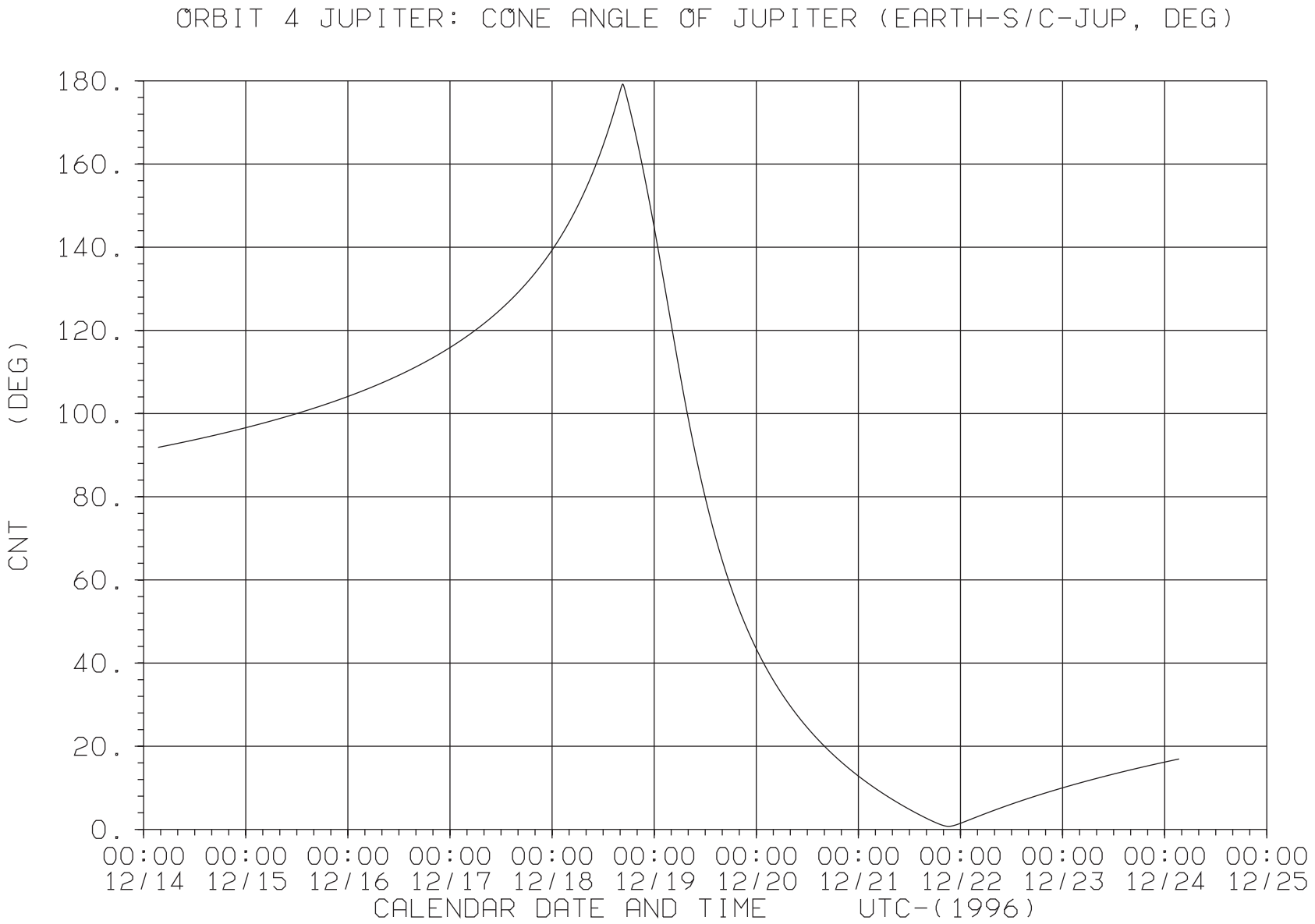


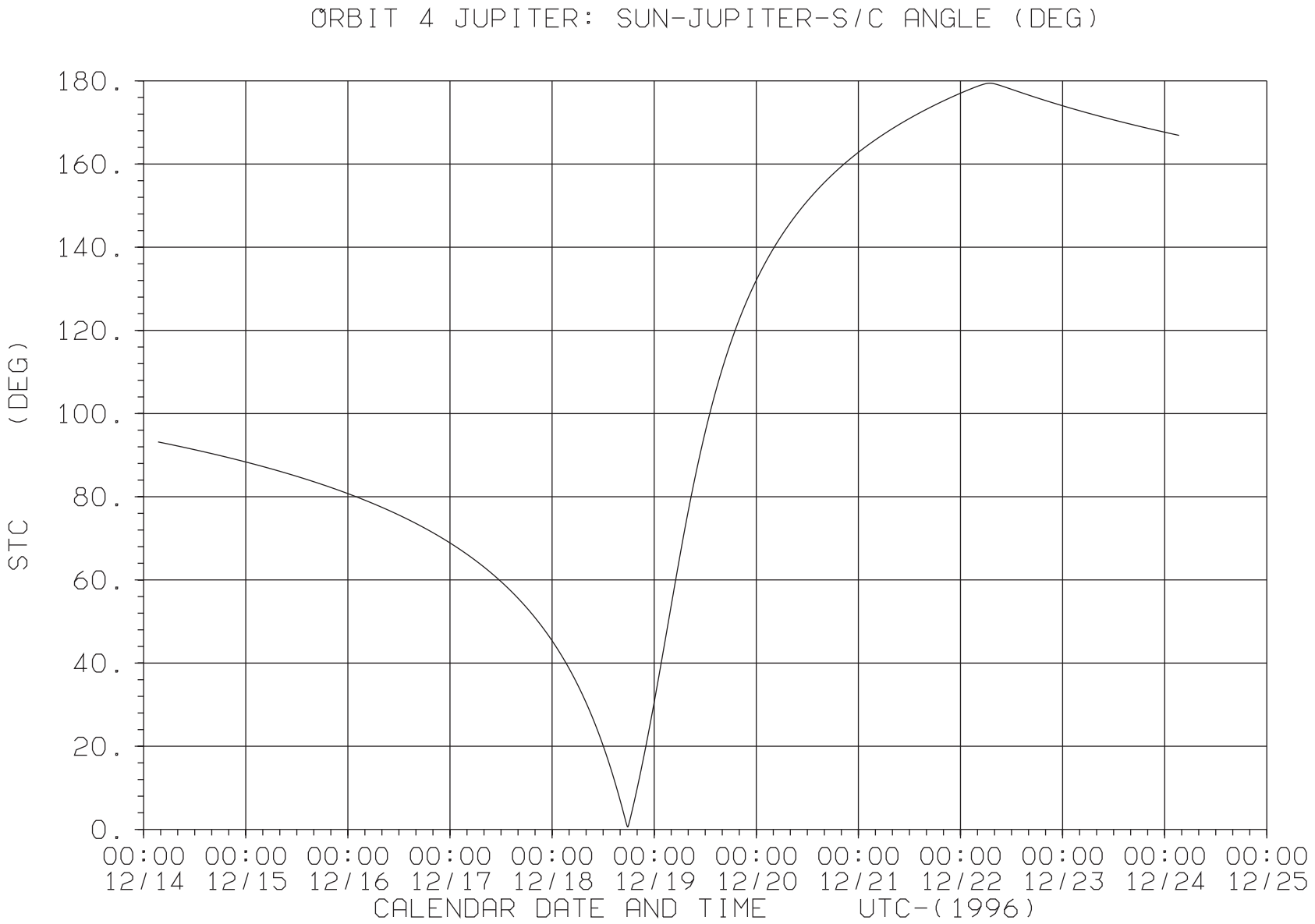

ORBIT 4: S/C ALTITUDE WITH RESPECT TO EUROPA (KM)
TCALTK (KM)*10^3
60.
50.
40.
30.
20.
10.
0.
03:00
12/19
04:00
04:59
06:00
07:00
08:00
09:00
10:00
CALENDAR DATE AND TIME UTC-(1996)


ORBIT 4: CONE ANGLE OF EUROPA (EARTH-S/C-EUROPA, DEG)
CNT (DEG)
140.
120.
100.
80.
60.
40.
20.
0.
03:00
12/19
04:00
04:59
06:00
07:00
08:00
09:00
10:00
CALENDAR DATE AND TIME UTC-(1996)

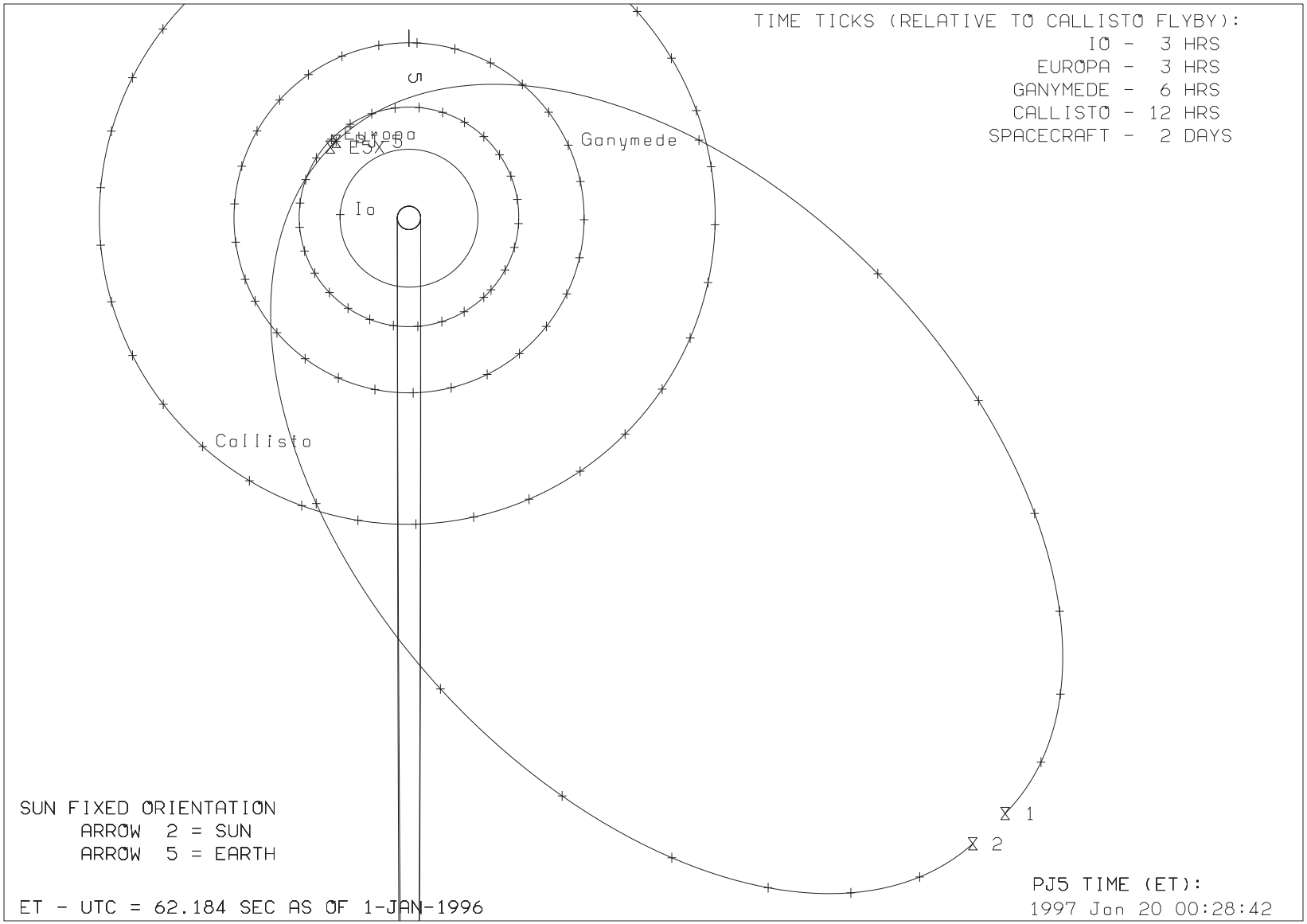

ORBIT 4: SUN-EUROPA-S/C ANGLE (DEG)
STC (DEG)
180.
160.
140.
120.
100.
80.
60.
40.
03:00
12/19
04:00
04:59
06:00
07:00
08:00
09:00
10:00
CALENDAR DATE AND TIME UTC-(1996)


ORBIT 4 JUPITER: S/C RANGE TO JUPITER CENTER OF MASS (RJ)
RPCPR (PRAD)
50.
45.
40.
35.
30.
25.
20.
15.
10.
5.
00:00 12/14
00:00 12/15
00:00 12/16
00:00 12/17
00:00 12/18
00:00 12/19
00:00 12/20
00:00 12/21
00:00 12/22
00:00 12/23
00:00 12/24
00:00 12/25
CALENDAR DATE AND TIME UTC-(1996)

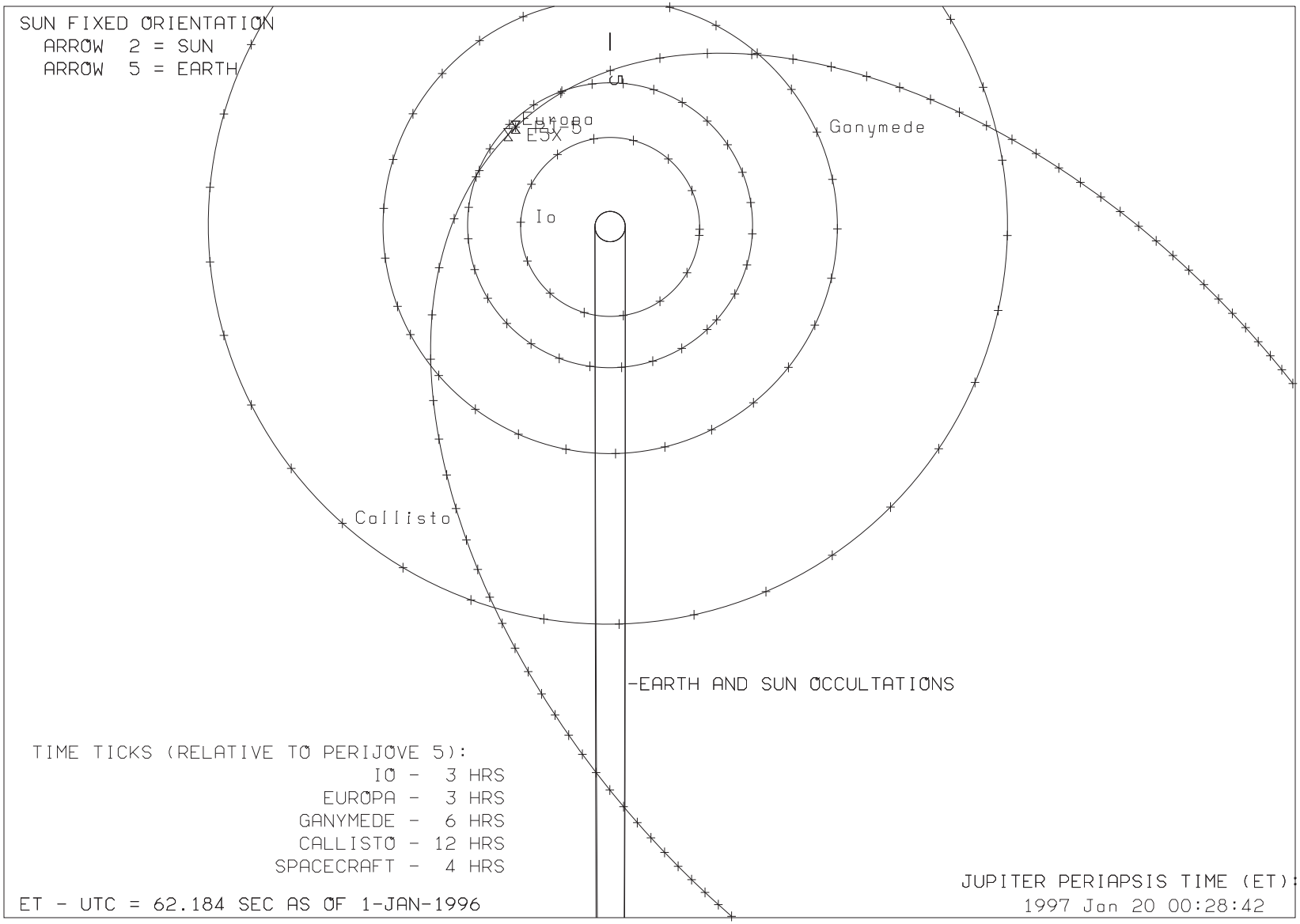

ORBIT 4 JUPITER: CONE ANGLE OF JUPITER (EARTH-S/C-JUP, DEG)
CNT (DEG)
180.
160.
140.
120.
100.
80.
60.
40.
20.
0.
00:00 12/14
00:00 12/15
00:00 12/16
00:00 12/17
00:00 12/18
00:00 12/19
00:00 12/20
00:00 12/21
00:00 12/22
00:00 12/23
00:00 12/24
00:00 12/25
CALENDAR DATE AND TIME UTC-(1996)


ORBIT 4 JUPITER: SUN-JUPITER-S/C ANGLE (DEG)
STC (DEG)
180.
160.
140.
120.
100.
80.
60.
40.
20.
0.
00:00 12/14
00:00 12/15
00:00 12/16
00:00 12/17
00:00 12/18
00:00 12/19
00:00 12/20
00:00 12/21
00:00 12/22
00:00 12/23
00:00 12/24
00:00 12/25
CALENDAR DATE AND TIME UTC-(1996)

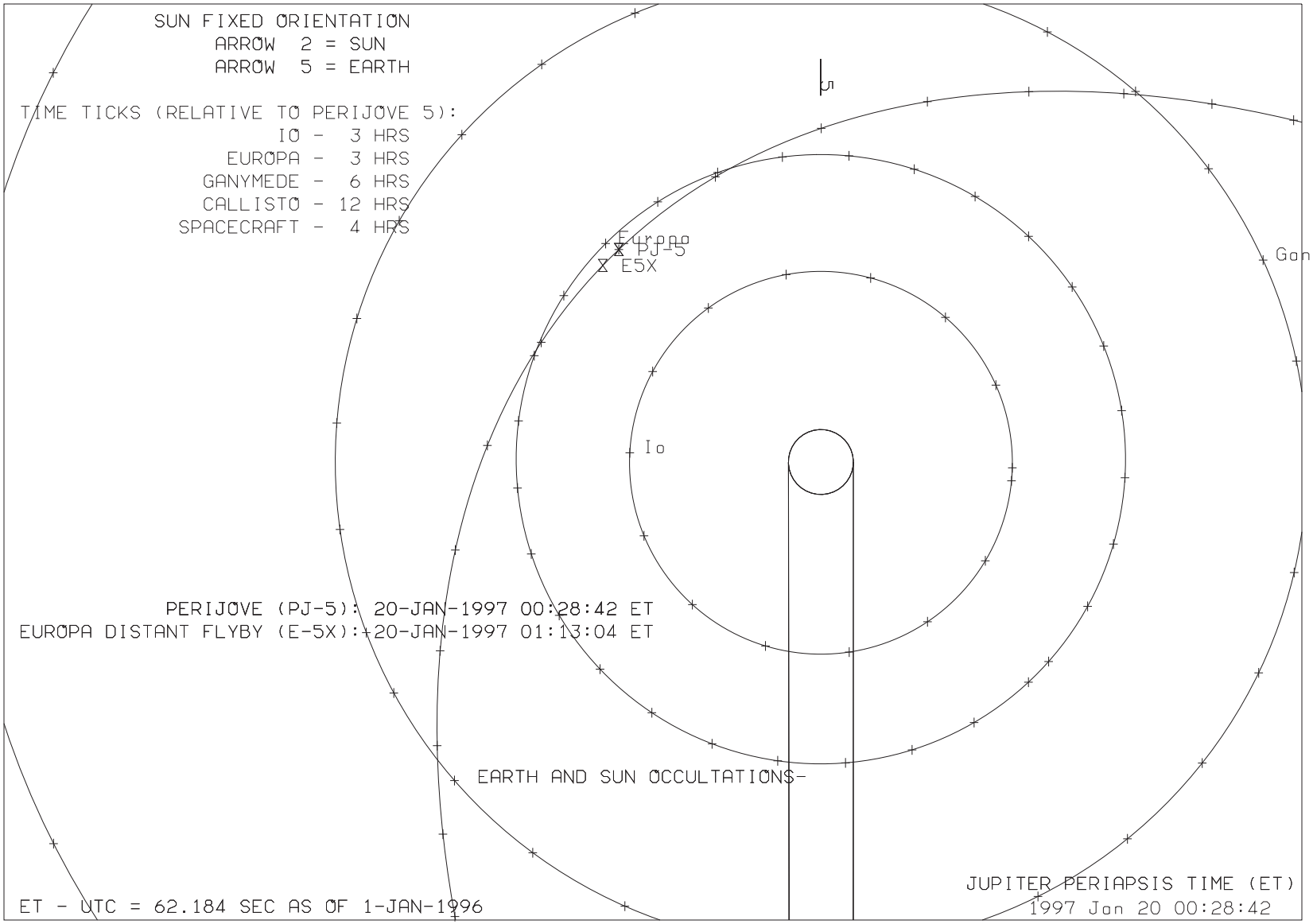
Jupiter 5: North Trajectory Pole View (J-5 Apo to Apo)



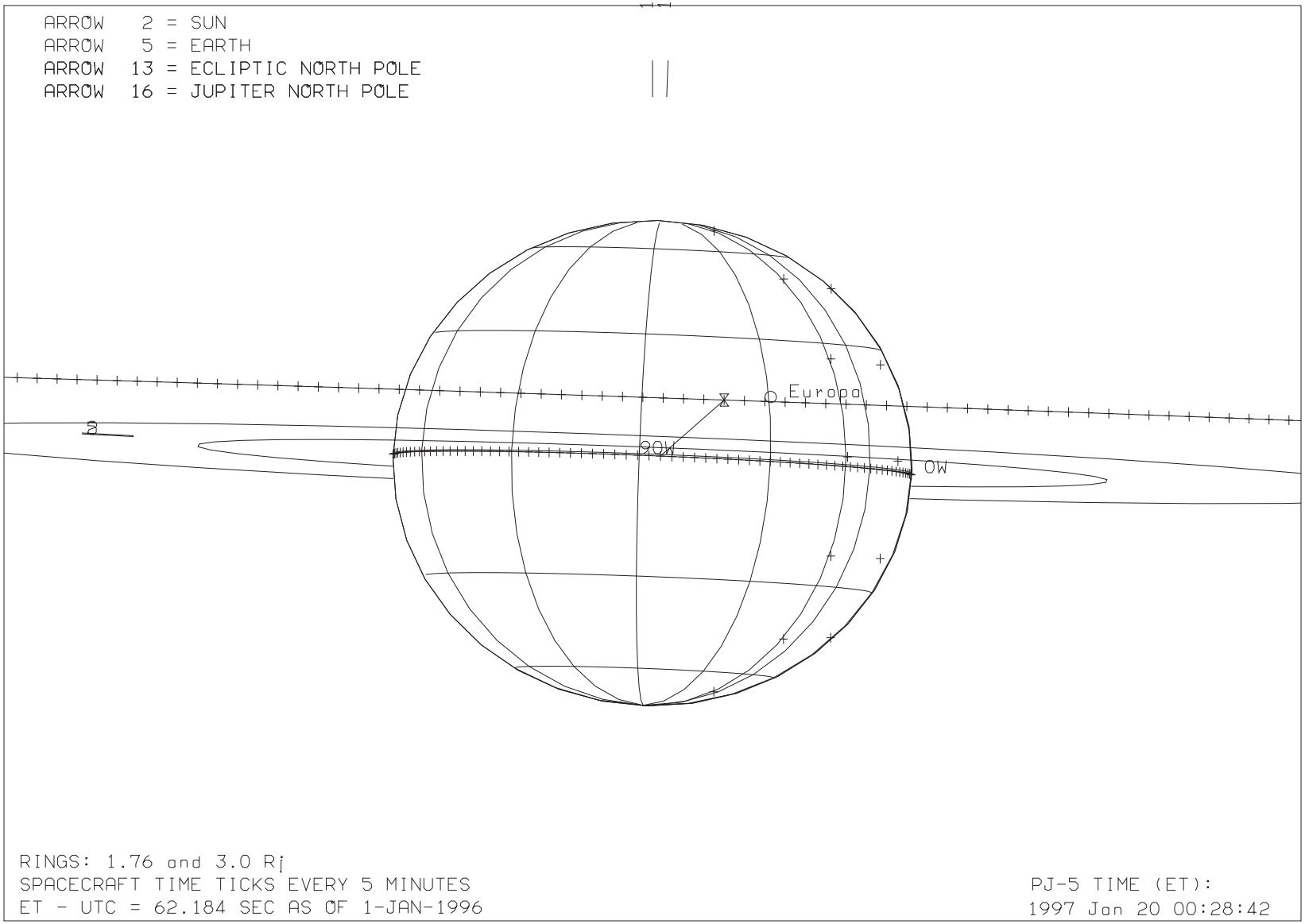
Jupiter 5: North Trajectory Pole View (J-5 +/- 5 days)



Jupiter 5: North Trajectory Pole View (J-5 +/- 1 day)



JUPITER 5: GROUNDTRACK AT CLOSEST APPROACH



Chapter 4 - NIMS Observation Summaries

Contents

Introduction to Chapter 4

This chapter summarizes the NIMS E4 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 E4 Sequence. The information in this summary is derived from the E4 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 E4 data. It is also derived from the E4 SEFs and PBTs. Each Obstab entry is 512 bytes long but is presented here as 4 lines of 128 characters per entry.

			Sequence:	E04A-AR		Created: 1/20/97	Begin: 96-350/00:00:00 Finish: 96-357/13:00:00				
Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
1	**96**	**350**	**00:00:00.000**	**20A3FF**	**40T2**	**Initial Condition**	**PCT Heater 2 ON**	**260**	**4**	**0**	**3,740,759:10:6**
2	**96**	**350**	**00:00:00.000**	**20A3FB**	**37F2PR**	**Initial Condition**	**Shield Flash Heater OFF (primary relay)**	**260**	**4**	**0**	**3,740,759:10:6**
3	**96**	**350**	**00:00:00.000**	**20A3FE**	**40T1P**	**Initial Condition**	**PCT Heater 1 ON (primary relay)**	**260**	**4**	**0**	**3,740,759:10:6**
4	**96**	**350**	**00:00:00.000**	**20A3FD**	**40HRPR**	**Initial Condition**	**RCT Heater OFF (primary relay)**	**260**	**4**	**0**	**3,740,759:10:6**
5	**96**	**350**	**00:00:00.000**	**20A3EW**	**37A**	**Initial Condition**	**NIMS Power ON**	**260**	**4**	**0**	**3,740,759:10:6**
6	**96**	**350**	**00:00:00.000**	**20A3EX**	**37HR**	**Initial Condition**	**Replacement Heaters OFF**	**260**	**4**	**0**	**3,740,759:10:6**
7	**96**	**350**	**00:00:00.000**	**20A3EY**	**37C1PR**	**Initial Condition**	**Optics Heater 1 OFF (primary relay)**	**260**	**4**	**0**	**3,740,759:10:6**
8	**96**	**350**	**00:00:00.000**	**20A3EZ**	**37C2PR**	**Initial Condition**	**Optics Heater 2 OFF (primary relay)**	**260**	**4**	**0**	**3,740,759:10:6**
9	**96**	**350**	**00:00:00.000**	**20A3FA**	**37F1PR**	**Initial Condition**	**Radiator Flash Heater OFF (primary relay)**	**260**	**4**	**0**	**3,740,759:10:6**
10	96	350	00:00:00.266		DMS:	: READY	RDY, TRACK 3, FWD, TIC 201.62 +/-	260	4	0	3,740,759:11:0
11	**96**	**350**	**00:01:52.933**	**432JA6B**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**260**	**4**	**0**	**3,740,760:89:0**
12	96	350	00:01:53.600	432JA431A6A	6RCDSL	DDSDSL,PLSDSL,EP	Record Deselect (DDS o	260	4	0	3,740,760:90:0
13	**96**	**350**	**00:01:54.266**	**432JA6D**	**6RTSL2**	**NIMNCG,AACSEL,RT**	**AACS SELECT**	**260**	**4**	**0**	**3,740,761:00:0**
14	96	350	00:01:54.266	432JA6C	6RTSL1		R/T Select of DDS and	260	4	0	3,740,761:00:0
15	96	350	00:02:02.266	488A6A	6TMSED	NORM,EL6	Sci, Eng, and D/L Chan	260	4	0	3,740,761:12:0
16	**96**	**350**	**00:02:10.266**	**432A6A**	**6RTSL2**	**NIMNCG,AACNCG,RT**	**R/T ENG SELECT**	**260**	**4**	**0**	**3,740,761:24:0**
17	96	350	00:03:00.266	418SA6B	6BUFHI	10	MUB Buffer high water	260	4	0	3,740,762:08:0
18	96	350	00:03:00.266	418SA6A	6BUFLO	2	MUB Buffer low water m	260	4	0	3,740,762:08:0
19	96	350	00:07:56.933	165BA4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	260	4	0	3,740,766:89:0
20	96	350	00:07:57.600	165BA4B	7SCAN	NORM,195.712999,	Check S/P Position	260	4	0	3,740,766:90:0
21	**96**	**350**	**00:21:56.000**	**E4NNOPCAL_01-**		**-----START------**		**260**	**4**	**0**	**: :**
22	**96**	**350**	**00:22:02.266**	**31A4A**	**37IST**	**1,2,0,OFF,0,1,1**	**Chopper ON, Sync, Chopper (Ref)Gain State**	**4R0**	**4**	**0**	**3,740,780:83:0**
23	**96**	**350**	**00:23:02.933**	**31A4B**	**37MB**	**1B,1B,0,0,0,0**	**Selects mirror (spatial) edit table**	**4R0**	**4**	**0**	**3,740,781:83:0**
24	**96**	**350**	**00:24:03.600**	**31A4C**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**4R3**	**4**	**0**	**3,740,782:83:0**
25	**96**	**350**	**00:24:04.266**	**31A4D**	**37ETB**	**07,C7,31,87,00,0**	**Loads wavelength edit table**	**4R3**	**4**	**0**	**3,740,782:84:0**
26	**96**	**350**	**00:25:04.266**	**31A4E**	**37IST**	**0,2,1,OFF,1,0,1**	**OPCAL**	**4R3**	**4**	**0**	**3,740,783:83:0**
27	**96**	**350**	**00:27:05.600**	**31A4F**	**37IST**	**0,2,1,OFF,1,0,1**	**OPCAL**	**4R3**	**4**	**0**	**3,740,785:83:0**
28	**96**	**350**	**00:29:06.933**	**31A4G**	**37IST**	**0,2,1,ON,0,0,1**	**ECAL**	**4R3**	**4**	**0**	**3,740,787:83:0**
29	**96**	**350**	**00:30:08.000**	**E4NNOPCAL_01-**		**-----STOP-------**		**4R3**	**4**	**0**	**: :**
30	96	350	02:20:38.933	488A6B	6TMSED	FILL,EL6	Sci, Eng, and D/L Chan	4R3	4	0	3,740,898:20:0
31	**96**	**350**	**02:33:38.000**	**E4NNSHDOFF01-**		**-----START------**		**4R3**	**4**	**0**	**: :**
32	96	350	02:34:17.600	488A6C	6TMSED	NORM,EL6	Sci, Eng, and D/L Chan	4R3	4	0	3,740,911:65:0
33	**96**	**350**	**02:35:39.600**	**20DA3A**	**37F2PR**	**1**	**Shield Flash Heater OFF (primary relay)**	**4R3**	**4**	**0**	**3,740,913:06:0**
34	**96**	**350**	**02:35:43.600**	**20DA3B**	**37F2PR**	**2**	**Shield Flash Heater OFF (primary relay)**	**4R3**	**4**	**0**	**3,740,913:12:0**
35	**96**	**350**	**02:35:49.600**	**20DA3C**	**40T1P**	**1**	**PCT Heater 1 ON (primary relay)**	**4R3**	**4**	**0**	**3,740,913:21:0**
36	**96**	**350**	**02:35:53.600**	**20DA3D**	**40T1P**	**2**	**PCT Heater 1 ON (primary relay)**	**4R3**	**4**	**0**	**3,740,913:27:0**
37	**96**	**350**	**02:35:59.600**	**20DA3E**	**40T2**	**1**	**PCT Heater 2 ON**	**4R3**	**4**	**0**	**3,740,913:36:0**
38	**96**	**350**	**02:36:03.600**	**20DA3F**	**40T2**	**2**	**PCT Heater 2 ON**	**4R3**	**4**	**0**	**3,740,913:42:0**
39	**96**	**350**	**02:37:40.667**	**E4NNSHDOFF01-**		**-----STOP-------**		**4R3**	**4**	**0**	**: :**
40	96	350	07:00:00.200	488B6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4R3	4	0	3,741,174:46:0
41	96	350	07:12:58.200	488B6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4R3	4	0	3,741,187:30:0
42	96	350	08:48:58.200	488B6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4R3	4	0	3,741,282:25:0
43	96	350	09:06:07.533	488B6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4R3	4	0	3,741,299:22:0
44	96	350	09:20:58.200	488B6E	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4R3	4	0	3,741,313:84:0
45	96	350	09:57:14.200	488C6A	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4R3	4	0	3,741,349:72:0
46	96	350	10:20:40.866	431YL6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	4R3	4	0	3,741,372:89:0
47	96	350	10:20:50.866	488C6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4R3	4	0	3,741,373:13:0
48	96	350	10:23:50.866	20YC6A	6HICON			4R3	4	0	3,741,376:10:0
49	96	350	10:24:44.866	431YM6A	6RCSEL	DDSNCG,PLSNCG,EP	Record Select (DDS onl	4R3	4	0	3,741,377:00:0
50	96	350	10:30:00.200	20OA6A	6HICON			4R3	4	0	3,741,382:18:0
51	96	350	10:35:00.200	432OI6A	6RTSL1		R/T Select of DDS and	4R3	4	0	3,741,387:13:0
52	96	350	12:00:04.866	20KA4A	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	4R3	4	0	3,741,471:26:0
53	96	350	12:05:14.200	488C6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4R3	4	0	3,741,476:35:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
54	96	350	13:30:20.200	444UA443A4B	**7MODE**	**INT**	AACS INERTIAL MODE	4R3	4	0	3,741,560:50:0	
55	96	350	14:34:34.200	488C6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4R3	4	0	3,741,624:07:0	
56	96	350	15:59:25.533		DMS:	: *SLEW-TIC	P7, TRACK 1, FWD, TIC 201.62 +/-	4R3	4	0	3,741,708:00:0	
57	96	350	15:59:25.533	465KI6A	6DMST	1750	DMS Slew to TIC	4R3	4	0	3,741,708:00:0	
58	96	350	16:04:27.533	165AA4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,741,712:89:0	
59	96	350	16:04:28.200	165AA4B	7SCAN	NORM,209.109999,	Check S/P Position	4R3	4	0	3,741,712:90:0	
60	96	350	16:08:30.200	165AA4C	7VECT		Inert vect update UTC	4R3	4	0	3,741,716:89:0	
61	96	350	16:08:30.866	165AA4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	4R3	4	0	3,741,716:90:0	
62	96	350	16:29:46.200	488D6A	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4R3	4	0	3,741,738:01:0	
63	96	350	17:40:10.200	488D6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4R3	4	0	3,741,807:58:0	
64	96	350	17:59:44.866	465KJ6A	6DMSC	RDY,4	DMS Control Tape stop	4R3	4	0	3,741,827:00:0	
65	96	350	18:23:12.200	488D6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4R3	4	0	3,741,850:18:0	
66	96	350	19:20:29.533	488D6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4R3	4	0	3,741,906:78:0	
67	96	350	20:41:30.200	488D6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4R3	4	0	3,741,986:89:0	
68	96	350	21:13:30.200	488E6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4R3	4	0	3,742,018:57:0	
69	96	350	21:45:00.200	488E6B	6TMSED	NORM,FL5	Sci, Eng, and D/L Chan	4R3	4	0	3,742,049:71:0	
70	96	350	22:51:38.200	488E6C	6TMSED	NORM,FL6	Sci, Eng, and D/L Chan	4R3	4	0	3,742,115:62:0	
71	96	351	02:00:00.200	488E6D	6TMSED	NORM,EL6	Sci, Eng, and D/L Chan	4R3	4	0	3,742,301:89:0	
72	96	351	02:15:41.533	488E6E	6TMSED	FILL,EL6	Sci, Eng, and D/L Chan	4R3	4	0	3,742,317:45:0	
73	96	351	02:20:00.200	41VA99A	**POWER**	PWR MODE change	Change to Maneuver Mode	4R3	4	0	3,742,321:69:0	
74	**96**	**351**	**02:20:04.200**	**41VA3K**	**37F2PR**	**1**	**Shield Flash Heater OFF (primary relay)**	**4R3**	**4**	**0**	**3,742,321:75:0**	
75	**96**	**351**	**02:20:14.200**	**41VA3L**	**37F2PR**	**2**	**Shield Flash Heater OFF (primary relay)**	**4R3**	**4**	**0**	**3,742,321:90:0**	
76	**96**	**351**	**02:22:24.200**	**41VA3G**	**40T1P**	**1**	**PCT Heater 1 ON (primary relay)**	**4R3**	**4**	**0**	**3,742,324:12:0**	
77	**96**	**351**	**02:22:34.200**	**41VA3H**	**40T1P**	**2**	**PCT Heater 1 ON (primary relay)**	**4R3**	**4**	**0**	**3,742,324:27:0**	
78	**96**	**351**	**02:22:44.200**	**41VA3I**	**40T2**	**1**	**PCT Heater 2 ON**	**4R3**	**4**	**0**	**3,742,324:42:0**	
79	**96**	**351**	**02:22:54.200**	**41VA3J**	**40T2**	**2**	**PCT Heater 2 ON**	**4R3**	**4**	**0**	**3,742,324:57:0**	
80	96	351	02:23:00.200	488F6A	6TMSED	FILL,EH6	Sci, Eng, and D/L Chan	4R3	4	0	3,742,324:66:0	
81	96	351	02:29:20.866	488F6B	6TMSED	NORM,EH6	Sci, Eng, and D/L Chan	4R3	4	0	3,742,331:00:0	
82	96	351	02:44:00.200	474AA416A4B	**7MODE**	**INT**	AACS INERTIAL MODE	4R3	4	0	3,742,345:45:0	
83	96	351	02:46:00.200	474AA416A4D	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	4R3	4	0	3,742,347:43:0	
84	96	351	02:50:14.200	474AA416A4E	7BURN	Z,124.3103,-65.8	ALERT -- Thruster fire	4R3	4	0	3,742,351:60:0	
85	96	351	03:13:08.200	474AA416A4G	7BURN	,124.3103,-65.83	ALERT -- Thruster fire	4R3	4	0	3,742,374:28:0	
86	96	351	06:13:14.200	488F6C	6TMSED	NORM,EH5	Sci, Eng, and D/L Chan	4R3	4	0	3,742,552:39:0	
87	96	351	07:27:54.200	488F6D	6TMSED	NORM,EH4	Sci, Eng, and D/L Chan	4R3	4	0	3,742,626:25:0	
88	96	351	07:30:00.200	488F6E	6TMSED	NORM,EL4	Sci, Eng, and D/L Chan	4R3	4	0	3,742,628:32:0	
89	96	351	07:30:00.200	41WA99A	**POWER**	PWR MODE change	Change to Data Taking Mode	4R3	4	0	3,742,628:32:0	
90	**96**	**351**	**07:30:04.200**	**41WA3K**	**37F2PR**	**1**	**Shield Flash Heater OFF (primary relay)**	**4R3**	**4**	**0**	**3,742,628:38:0**	
91	**96**	**351**	**07:30:14.200**	**41WA3L**	**37F2PR**	**2**	**Shield Flash Heater OFF (primary relay)**	**4R3**	**4**	**0**	**3,742,628:53:0**	
92	**96**	**351**	**07:30:24.200**	**41WA3A**	**40T1PR**	**1**	**PCT Heater 1 OFF (primary relay)**	**4R3**	**4**	**0**	**3,742,628:68:0**	
93	**96**	**351**	**07:30:34.200**	**41WA3B**	**40T1PR**	**2**	**PCT Heater 1 OFF (primary relay)**	**4R3**	**4**	**0**	**3,742,628:83:0**	
94	**96**	**351**	**07:30:44.200**	**41WA3C**	**40T2R**	**1**	**PCT Heater 2 OFF**	**4R3**	**4**	**0**	**3,742,629:07:0**	
95	**96**	**351**	**07:30:54.200**	**41WA3D**	**40T2R**	**2**	**PCT Heater 2 OFF**	**4R3**	**4**	**0**	**3,742,629:22:0**	
96	96	351	07:41:59.533	432OB431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	4R3	4	0	3,742,640:19:0	
97	96	351	07:42:00.200	432OB6A	6RTSL1		R/T Select of DDS and	4R3	4	0	3,742,640:20:0	
98	96	351	08:00:00.200	488G6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4R3	4	0	3,742,658:02:0	
99	96	351	08:00:04.866	20KB4A	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	4R3	4	0	3,742,658:09:0	
100	96	351	08:27:38.200	488G6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4R3	4	0	3,742,685:32:0	
101	96	351	09:03:42.866	488G6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4R3	4	0	3,742,721:03:0	
102	96	351	09:03:54.200	488G6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4R3	4	0	3,742,721:20:0	
103	96	351	10:00:16.800	165AB4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,742,776:89:0	
104	96	351	10:00:17.466	165AB4B	7SCAN	NORM,215.776999,	Check S/P Position	4R3	4	0	3,742,776:90:0	
105	96	351	10:04:11.466	117AA	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	3,742,780:77:0	
106	96	351	10:04:20.800	117AA105A106A4A	7STRP	0.0,0.0,0,0,0,0,	Slew =,0.01	4R3	4	0	3,742,781:00:0	
107	96	351	10:25:48.133	488G6E	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4R3	4	0	3,742,802:20:0	
108	96	351	10:33:40.133	117AA105A106A4B	7STRP	0.004,0.0,0,0,0,	Slew =12.01	4R3	4	0	3,742,810:00:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
109	96	351	10:34:40.800	117AA105A106A4C	7STRP	0.0,0.0,0,0,0,0,	Slew =,0.01	4R3	4	0	3,742,811:00:0	
110	96	351	11:04:00.133	117AA105A106A4D	7STRP	0.004,0.0,0,0,0,	Slew =12.01	4R3	4	0	3,742,840:00:0	
111	96	351	11:05:00.800	117AA105A106A4E	7STRP	0.0,0.0,0,0,0,0,	Slew =,0.01	4R3	4	0	3,742,841:00:0	
112	96	351	11:34:20.133	117AA105A106A4F	7STRP	0.004,0.0,0,0,0,	Slew =12.01	4R3	4	0	3,742,870:00:0	
113	96	351	11:35:20.800	117AA105A106A4G	7STRP	0.0,0.0,0,0,0,0,	Slew =,0.01	4R3	4	0	3,742,871:00:0	
114	96	351	12:04:40.133	117AA105A106B4A	7STRP	0.018002,0.0,0,0	Slew =12.01	4R3	4	0	3,742,900:00:0	
115	96	351	12:05:33.466	117AA105A106B4B	7STRP	0.0,0.0,0,0,0,0,	Slew =,0.01	4R3	4	0	3,742,900:80:0	
116	96	351	12:05:38.800	117AA105A106C4A	7STRP	0.004,0.0,0,0,0,	Slew =12.01	4R3	4	0	3,742,900:88:0	
117	96	351	12:06:39.466	117AA105A106C4B	7STRP	0.0,0.0,0,0,0,0,	Slew =,0.01	4R3	4	0	3,742,901:88:0	
118	96	351	12:35:58.800	117AA105A106C4C	7STRP	0.004,0.0,0,0,0,	Slew =12.01	4R3	4	0	3,742,930:88:0	
119	96	351	12:36:59.466	117AA105A106C4D	7STRP	0.0,0.0,0,0,0,0,	Slew =,0.01	4R3	4	0	3,742,931:88:0	
120	96	351	13:06:18.800	117AA11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	3,742,960:88:0	
121	96	351	16:19:06.133	488H6A	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4R3	4	0	3,743,151:58:0	
122	96	351	17:46:34.133	488H6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4R3	4	0	3,743,238:13:0	
123	96	351	18:23:15.466	488H6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4R3	4	0	3,743,274:39:0	
124	96	351	19:20:32.133	488H6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4R3	4	0	3,743,331:07:0	
125	96	351	20:41:30.133	488H6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4R3	4	0	3,743,411:14:0	
126	96	351	21:13:30.133	488I6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4R3	4	0	3,743,442:73:0	
127	96	351	21:30:00.133	488I6B	6TMSED	NORM,EL5	Sci, Eng, and D/L Chan	4R3	4	0	3,743,459:11:0	
128	96	351	22:12:19.466	165AJ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,743,500:89:0	
129	96	351	22:12:20.133	165AJ4B	7SCAN	NORM,224.463999,	Check S/P Position	4R3	4	0	3,743,500:90:0	
130	96	351	22:16:14.133	117AB	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	3,743,504:77:0	
131	96	351	22:16:23.466	117AB105A106A4A	7STRP	0.0,0.0,0,0,0,0,	Slew =,0.01	4R3	4	0	3,743,505:00:0	
132	96	351	22:45:14.133	488I6C	6TMSED	NORM,EL6	Sci, Eng, and D/L Chan	4R3	4	0	3,743,533:48:0	
133	96	351	22:45:42.800	117AB105A106A4B	7STRP	0.006,0.0,0,0,0,	Slew =12.01	4R3	4	0	3,743,534:00:0	
134	96	351	22:46:43.466	117AB105A106A4C	7STRP	0.0,0.0,0,0,0,0,	Slew =,0.01	4R3	4	0	3,743,535:00:0	
135	96	351	23:16:02.800	117AB105A106A4D	7STRP	0.006,0.0,0,0,0,	Slew =12.01	4R3	4	0	3,743,564:00:0	
136	96	351	23:17:03.466	117AB105A106A4E	7STRP	0.0,0.0,0,0,0,0,	Slew =,0.01	4R3	4	0	3,743,565:00:0	
137	96	351	23:46:22.800	117AB105A106A4F	7STRP	0.006,0.0,0,0,0,	Slew =12.01	4R3	4	0	3,743,594:00:0	
138	96	351	23:47:23.466	117AB105A106A4G	7STRP	0.0,0.0,0,0,0,0,	Slew =,0.01	4R3	4	0	3,743,595:00:0	
139	96	352	00:16:42.800	117AB105A106A4H	7STRP	0.006,0.0,0,0,0,	Slew =12.01	4R3	4	0	3,743,624:00:0	
140	96	352	00:17:43.466	117AB105A106A4I	7STRP	0.0,0.0,0,0,0,0,	Slew =,0.01	4R3	4	0	3,743,625:00:0	
141	96	352	00:47:02.800	117AB105A106A4J	7STRP	0.006,0.0,0,0,0,	Slew =12.01	4R3	4	0	3,743,654:00:0	
142	96	352	00:48:03.466	117AB105A106A4K	7STRP	0.0,0.0,0,0,0,0,	Slew =,0.01	4R3	4	0	3,743,655:00:0	
143	96	352	00:59:38.133	488I6D	6TMSED	NORM,EL5	Sci, Eng, and D/L Chan	4R3	4	0	3,743,666:41:0	
144	96	352	01:17:22.800	117AB105A106A4L	7STRP	0.006,0.0,0,0,0,	Slew =12.01	4R3	4	0	3,743,684:00:0	
145	96	352	01:18:23.466	117AB105A106A4M	7STRP	0.0,0.0,0,0,0,0,	Slew =,0.01	4R3	4	0	3,743,685:00:0	
146	96	352	01:40:10.133	488I6E	6TMSED	NORM,EL6	Sci, Eng, and D/L Chan	4R3	4	0	3,743,706:49:0	
147	96	352	01:47:42.800	117AB105A106A4N	7STRP	0.006,0.0,0,0,0,	Slew =12.01	4R3	4	0	3,743,714:00:0	
148	96	352	01:48:43.466	117AB105A106A4O	7STRP	0.0,0.0,0,0,0,0,	Slew =,0.01	4R3	4	0	3,743,715:00:0	
149	96	352	02:15:43.466	488J6A	6TMSED	FILL,EL6	Sci, Eng, and D/L Chan	4R3	4	0	3,743,741:64:0	
150	96	352	02:18:02.800	117AB105A106A4P	7STRP	0.006,0.0,0,0,0,	Slew =12.01	4R3	4	0	3,743,744:00:0	
151	96	352	02:19:03.466	117AB105A106A4Q	7STRP	0.0,0.0,0,0,0,0,	Slew =,0.01	4R3	4	0	3,743,745:00:0	
152	96	352	02:20:38.133		DMS:	: *SLEW-TIC	P7, TRACK *1, *FWD, TIC 201.62 +/-	4R3	4	0	3,743,746:51:0	
153	96	352	02:29:22.800	488J6B	6TMSED	NORM,EL6	Sci, Eng, and D/L Chan	4R3	4	0	3,743,755:19:0	
154	96	352	02:48:22.800	117AB11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	3,743,774:00:0	
155	96	352	02:48:52.133	165AK4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,743,774:44:0	
156	96	352	02:48:52.800	165AK4B	7SCAN	NORM,231.0,-21.0	Check S/P Position	4R3	4	0	3,743,774:45:0	
157	**96**	**352**	**03:01:35.333**	**E4NNCHOPON01-**		**-----START------**		**4R3**	**4**	**0**	**: :**	
158	**96**	**352**	**03:04:28.800**	**125DN4A**	**37IST**	**1,0,0,OFF,0,0,0**	**Chopper ON, Sync, 63Hz (Ref)**	**463**	**4**	**0**	**3,743,789:84:0**	
159	96	352	03:04:28.800	125DN	NIMSINIT	GS	##### GROUP START INIT	463	4	0	3,743,789:84:0	
160	**96**	**352**	**03:05:29.466**	**125DN4B**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**4R3**	**4**	**0**	**3,743,790:84:0**	
161	96	352	03:06:30.133	125DN11A	NIMSINIT	GE	##### GROUP END INIT	4R3	4	0	3,743,791:84:0	
162	**96**	**352**	**03:06:30.133**	**125DN4C**	**37MB**	**0,0,0,0,0,0**	**Selects mirror (spatial) edit table**	**4R3**	**4**	**0**	**3,743,791:84:0**	
163	**96**	**352**	**03:11:42.000**	**E4NNCHOPON01-**		**-----STOP-------**		**4R3**	**4**	**0**	**: :**	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
164	**96**	**352**	**03:21:48.666**	**E4JNGLOMOS01-**		**-----START------**		**4R3**	**4**	**0**	**: :**	
165	96	352	03:22:44.133	165DA4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,743,807:89:0	
166	96	352	03:22:44.800	165DA4B	7SCAN	NORM,227.467999,	Check S/P Position	4R3	4	0	3,743,807:90:0	
167	96	352	03:23:43.466	176DA6A	6TMREC	**NRC**	NO RECORD Record Mode Change	4R3	4	0	3,743,808:87:0	
168	**96**	**352**	**03:24:42.133**	**125DA4A**	**37IST**	**0,2,0,OFF,0,1,0**	**Gain State 2**	**2R3**	**4**	**0**	**3,743,809:84:0**	
169	96	352	03:24:42.133	125DA	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	3,743,809:84:0	
170	96	352	03:24:42.133	125DA11A	NIMSINIT	GE	##### GROUP END INIT	2R3	4	0	3,743,809:84:0	
171	**96**	**352**	**03:25:42.800**	**127DA4A**	**37IOP**	**7,5**	**Fixed Map, Grating Start Position =05**	**2R7**	**4**	**5**	**3,743,810:84:0**	
172	96	352	03:25:42.800	127DA	NIMSTAB	GS	%%%%% GROUP START TAB	2R7	4	5	3,743,810:84:0	
173	**96**	**352**	**03:25:43.466**	**127DA4B**	**37ETB**	**07,C7,19,1F,E1,0**	**Loads wavelength edit table**	**2R7**	**4**	**5**	**3,743,810:85:0**	
174	96	352	03:25:51.466	127DA11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R7	4	5	3,743,811:06:0	
175	96	352	03:26:35.466	175DA422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R7	4	5	3,743,811:72:0	
176	96	352	03:26:38.800	117DA	**CSMOS**	GS	***** GROUP START CSMOS	2R7	4	5	3,743,811:77:0	
177	96	352	03:26:44.800	175DA176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R7	4	5	3,743,811:86:0	
178	**96**	**352**	**03:26:47.727**	**E4JNGLOMOS01-**	**NIMPBK**	**301DC**	**JUPITER GLOBAL MOSAIC PRT 1**	**2R7**	**4**	**5**	**: :**	
179	96	352	03:26:48.133	117DA105A106A4A	7STRP	-0.041023,0.0,0,	Slew =,0.76	2R7	4	5	3,743,812:00:0	
180	96	352	03:27:45.466	117DA105A106A4B	7STRP	0.041023,-0.008,	Slew =12.01	2R7	4	5	3,743,812:86:0	
181	96	352	03:27:55.466	117DA105A106A4C	7STRP	-0.041023,0.0,0,	Slew =,0.76	2R7	4	5	3,743,813:10:0	
182	**96**	**352**	**03:28:21.060**	**E4JNGLOMOS01-**	**DESELC**	**300DC**	**JUPITER GLOBAL MOSAIC PRT 1**	**2R7**	**4**	**5**	**: :**	
183	96	352	03:28:52.800	117DA105A106A4D	7STRP	0.041023,-0.008,	Slew =12.01	2R7	4	5	3,743,814:05:0	
184	96	352	03:29:02.800	117DA105A106A4E	7STRP	-0.041023,0.0,0,	Slew =,0.76	2R7	4	5	3,743,814:20:0	
185	96	352	03:30:00.133	117DA105A106A4F	7STRP	0.041023,-0.008,	Slew =12.01	2R7	4	5	3,743,815:15:0	
186	96	352	03:30:10.133	117DA105A106A4G	7STRP	-0.041023,0.0,0,	Slew =,0.76	2R7	4	5	3,743,815:30:0	
187	96	352	03:31:07.466	117DA105A106A4H	7STRP	0.041023,-0.008,	Slew =12.01	2R7	4	5	3,743,816:25:0	
188	96	352	03:31:17.466	117DA105A106A4I	7STRP	-0.041023,0.0,0,	Slew =,0.76	2R7	4	5	3,743,816:40:0	
189	96	352	03:31:26.800	175DA422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R7	4	5	3,743,816:54:0	
190	96	352	03:31:26.800	175DA6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R7	4	5	3,743,816:54:0	
191	96	352	03:32:14.800	117DA105A106A4J	7STRP	0.041023,-0.008,	Slew =12.01	2R7	4	5	3,743,817:35:0	
192	96	352	03:32:24.800	117DA105A106A4K	7STRP	-0.041023,0.0,0,	Slew =,0.76	2R7	4	5	3,743,817:50:0	
193	96	352	03:33:22.133	117DA105A106A4L	7STRP	0.041023,-0.008,	Slew =12.01	2R7	4	5	3,743,818:45:0	
194	96	352	03:33:32.133	117DA105A106A4M	7STRP	-0.041023,0.0,0,	Slew =,0.76	2R7	4	5	3,743,818:60:0	
195	96	352	03:34:29.466	117DA105A106A4N	7STRP	0.041023,-0.008,	Slew =12.01	2R7	4	5	3,743,819:55:0	
196	96	352	03:34:39.466	117DA105A106A4O	7STRP	-0.041023,0.0,0,	Slew =,0.76	2R7	4	5	3,743,819:70:0	
197	96	352	03:35:36.800	117DA105A106A4P	7STRP	0.041023,-0.008,	Slew =12.01	2R7	4	5	3,743,820:65:0	
198	96	352	03:35:46.800	117DA105A106A4Q	7STRP	-0.041023,0.0,0,	Slew =,0.76	2R7	4	5	3,743,820:80:0	
199	96	352	03:36:44.133	117DA11A	**CSMOS**	GE	***** GROUP END CSMOS	2R7	4	5	3,743,821:75:0	
200	**96**	**352**	**03:36:49.333**	**E4JNGLOMOS01-**		**-----STOP-------**		**2R7**	**4**	**5**	**: :**	
201	96	352	03:43:54.133	488J6C	6TMSED	NORM,EL5	Sci, Eng, and D/L Chan	2R7	4	5	3,743,828:83:0	
202	**96**	**352**	**04:59:53.333**	**E4JNGLOMOS02-**		**-----START------**		**2R7**	**4**	**5**	**: :**	
203	96	352	05:00:48.800	165DB4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R7	4	5	3,743,904:89:0	
204	96	352	05:00:49.466	165DB4B	7SCAN	NORM,228.786999,	Check S/P Position	2R7	4	5	3,743,904:90:0	
205	96	352	05:03:47.466	127DB	NIMSTAB	GS	%%%%% GROUP START TAB	2R7	4	5	3,743,907:84:0	
206	**96**	**352**	**05:03:47.466**	**127DB4A**	**37IOP**	**7,5**	**Fixed Map, Grating Start Position =05**	**2R7**	**4**	**5**	**3,743,907:84:0**	
207	**96**	**352**	**05:03:48.133**	**127DB4B**	**37ETB**	**07,C7,19,1F,E1,0**	**Loads wavelength edit table**	**2R7**	**4**	**5**	**3,743,907:85:0**	
208	96	352	05:03:56.133	127DB11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R7	4	5	3,743,908:06:0	
209	96	352	05:04:40.133	175DB422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R7	4	5	3,743,908:72:0	
210	96	352	05:04:43.466	117DB	**CSMOS**	GS	***** GROUP START CSMOS	2R7	4	5	3,743,908:77:0	
211	96	352	05:04:48.200		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC *1751.39 +/-	2R7	4	5	3,743,908:84:1	
212	96	352	05:04:49.466	175DB176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R7	4	5	3,743,908:86:0	
213	96	352	05:04:49.666		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC 1751.28 +/-	2R7	4	5	3,743,908:86:3	
214	96	352	05:04:49.666		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *1751.28 +/-	2R7	4	5	3,743,908:86:3	
215	**96**	**352**	**05:04:52.389**	**E4JNGLOMOS02-**	**NIMPBK**	**301DD**	**JUPITER GLOBAL MOSAIC PRT 2**	**2R7**	**4**	**5**	**: :**	
216	96	352	05:04:52.800	117DB105A106A4A	7STRP	-0.041023,0.0,0,	Slew =,0.76	2R7	4	5	3,743,909:00:0	
217	96	352	05:05:50.133	117DB105A106A4B	7STRP	0.041023,-0.008,	Slew =12.01	2R7	4	5	3,743,909:86:0	
218	96	352	05:06:00.133	117DB105A106A4C	7STRP	-0.041023,0.0,0,	Slew =,0.76	2R7	4	5	3,743,910:10:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
219	**96**	**352**	**05:06:17.056**	**E4JNGLOMOS02-**	**NIMPBK**	**301DI**	**JUPITER GLOBAL MOSAIC PRT 2**	**2R7**	**4**	**5**	**: :**	
220	**96**	**352**	**05:06:55.056**	**E4JNGLOMOS02-**	**DESELC**	**300DI**	**JUPITER GLOBAL MOSAIC PRT 2**	**2R7**	**4**	**5**	**: :**	
221	96	352	05:06:57.466	117DB105A106A4D	7STRP	0.041023,-0.008,	Slew =12.01	2R7	4	5	3,743,911:05:0	
222	96	352	05:07:07.466	117DB105A106A4E	7STRP	-0.041023,0.0,0,	Slew =,0.76	2R7	4	5	3,743,911:20:0	
223	**96**	**352**	**05:07:15.056**	**E4JNGLOMOS02-**	**NIMPBK**	**301DF**	**JUPITER GLOBAL MOSAIC PRT 2**	**2R7**	**4**	**5**	**: :**	
224	**96**	**352**	**05:07:27.723**	**E4JNGLOMOS02-**	**DESELC**	**300DF**	**JUPITER GLOBAL MOSAIC PRT 2**	**2R7**	**4**	**5**	**: :**	
225	96	352	05:08:04.800	117DB105A106A4F	7STRP	0.041023,-0.008,	Slew =12.01	2R7	4	5	3,743,912:15:0	
226	96	352	05:08:14.800	117DB105A106A4G	7STRP	-0.041023,0.0,0,	Slew =,0.76	2R7	4	5	3,743,912:30:0	
227	96	352	05:09:12.133	117DB105A106A4H	7STRP	0.041023,-0.008,	Slew =12.01	2R7	4	5	3,743,913:25:0	
228	**96**	**352**	**05:09:21.723**	**E4JNGLOMOS02-**	**DESELC**	**300DD**	**JUPITER GLOBAL MOSAIC PRT 2**	**2R7**	**4**	**5**	**: :**	
229	96	352	05:09:22.133	117DB105A106A4I	7STRP	-0.041023,0.0,0,	Slew =,0.76	2R7	4	5	3,743,913:40:0	
230	96	352	05:09:31.466		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *1685.23 +/-	2R7	4	5	3,743,913:54:0	
231	96	352	05:09:31.466	175DB6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R7	4	5	3,743,913:54:0	
232	96	352	05:09:31.466	175DB422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R7	4	5	3,743,913:54:0	
233	96	352	05:10:19.466	117DB105A106A4J	7STRP	0.041023,-0.008,	Slew =12.01	2R7	4	5	3,743,914:35:0	
234	96	352	05:10:29.466	117DB105A106A4K	7STRP	-0.041023,0.0,0,	Slew =,0.76	2R7	4	5	3,743,914:50:0	
235	96	352	05:11:26.800	117DB105A106A4L	7STRP	0.041023,-0.008,	Slew =12.01	2R7	4	5	3,743,915:45:0	
236	96	352	05:11:36.800	117DB105A106A4M	7STRP	-0.041023,0.0,0,	Slew =,0.76	2R7	4	5	3,743,915:60:0	
237	96	352	05:12:34.133	117DB105A106A4N	7STRP	0.041023,-0.008,	Slew =12.01	2R7	4	5	3,743,916:55:0	
238	96	352	05:12:44.133	117DB105A106A4O	7STRP	-0.041023,0.0,0,	Slew =,0.76	2R7	4	5	3,743,916:70:0	
239	96	352	05:13:41.466	117DB105A106A4P	7STRP	0.041023,-0.008,	Slew =12.01	2R7	4	5	3,743,917:65:0	
240	96	352	05:13:51.466	117DB105A106A4Q	7STRP	-0.041023,0.0,0,	Slew =,0.76	2R7	4	5	3,743,917:80:0	
241	96	352	05:14:48.800	117DB11A	**CSMOS**	GE	***** GROUP END CSMOS	2R7	4	5	3,743,918:75:0	
242	**96**	**352**	**05:14:54.000**	**E4JNGLOMOS02-**		**-----STOP-------**		**2R7**	**4**	**5**	**: :**	
243	**96**	**352**	**06:03:35.333**	**E4JNGLOMOS03-**		**-----START------**		**2R7**	**4**	**5**	**: :**	
244	96	352	06:04:30.800	165DC4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R7	4	5	3,743,967:89:0	
245	96	352	06:04:31.466	165DC4B	7SCAN	NORM,230.070999,	Check S/P Position	2R7	4	5	3,743,967:90:0	
246	96	352	06:07:29.466	127DC	NIMSTAB	GS	%%%%% GROUP START TAB	2R7	4	5	3,743,970:84:0	
247	**96**	**352**	**06:07:29.466**	**127DC4A**	**37IOP**	**7,5**	**Fixed Map, Grating Start Position =05**	**2R7**	**4**	**5**	**3,743,970:84:0**	
248	**96**	**352**	**06:07:30.133**	**127DC4B**	**37ETB**	**07,C7,19,1F,E1,0**	**Loads wavelength edit table**	**2R7**	**4**	**5**	**3,743,970:85:0**	
249	96	352	06:07:38.133	127DC11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R7	4	5	3,743,971:06:0	
250	96	352	06:08:22.133	175DC422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R7	4	5	3,743,971:72:0	
251	96	352	06:08:25.466	117DC	**CSMOS**	GS	***** GROUP START CSMOS	2R7	4	5	3,743,971:77:0	
252	96	352	06:08:30.200		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC *1686.56 +/-	2R7	4	5	3,743,971:84:1	
253	96	352	06:08:31.466	175DC176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R7	4	5	3,743,971:86:0	
254	96	352	06:08:31.666		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *1686.44 +/-	2R7	4	5	3,743,971:86:3	
255	96	352	06:08:31.666		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC 1686.44 +/-	2R7	4	5	3,743,971:86:3	
256	96	352	06:08:34.800	117DC105A106A4A	7STRP	-0.041023,0.0,0,	Slew =,0.76	2R7	4	5	3,743,972:00:0	
257	96	352	06:09:32.133	117DC105A106A4B	7STRP	0.041023,-0.008,	Slew =12.01	2R7	4	5	3,743,972:86:0	
258	96	352	06:09:42.133	117DC105A106A4C	7STRP	-0.041023,0.0,0,	Slew =,0.76	2R7	4	5	3,743,973:10:0	
259	96	352	06:10:39.466	117DC105A106A4D	7STRP	0.041023,-0.008,	Slew =12.01	2R7	4	5	3,743,974:05:0	
260	96	352	06:10:49.466	117DC105A106A4E	7STRP	-0.041023,0.0,0,	Slew =,0.76	2R7	4	5	3,743,974:20:0	
261	96	352	06:11:46.800	117DC105A106A4F	7STRP	0.041023,-0.008,	Slew =12.01	2R7	4	5	3,743,975:15:0	
262	96	352	06:11:56.800	117DC105A106A4G	7STRP	-0.041023,0.0,0,	Slew =,0.76	2R7	4	5	3,743,975:30:0	
263	96	352	06:12:54.133	117DC105A106A4H	7STRP	0.041023,-0.008,	Slew =12.01	2R7	4	5	3,743,976:25:0	
264	96	352	06:13:04.133	117DC105A106A4I	7STRP	-0.041023,0.0,0,	Slew =,0.76	2R7	4	5	3,743,976:40:0	
265	96	352	06:13:13.466	175DC6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R7	4	5	3,743,976:54:0	
266	96	352	06:13:13.466	175DC422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R7	4	5	3,743,976:54:0	
267	96	352	06:13:13.466		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *1620.40 +/-	2R7	4	5	3,743,976:54:0	
268	96	352	06:14:01.466	117DC105A106A4J	7STRP	0.041023,-0.008,	Slew =12.01	2R7	4	5	3,743,977:35:0	
269	96	352	06:14:11.466	117DC105A106A4K	7STRP	-0.041023,0.0,0,	Slew =,0.76	2R7	4	5	3,743,977:50:0	
270	96	352	06:15:08.800	117DC105A106A4L	7STRP	0.041023,-0.008,	Slew =12.01	2R7	4	5	3,743,978:45:0	
271	96	352	06:15:18.800	117DC105A106A4M	7STRP	-0.041023,0.0,0,	Slew =,0.76	2R7	4	5	3,743,978:60:0	
272	96	352	06:16:16.133	117DC105A106A4N	7STRP	0.041023,-0.008,	Slew =12.01	2R7	4	5	3,743,979:55:0	
273	96	352	06:16:26.133	117DC105A106A4O	7STRP	-0.041023,0.0,0,	Slew =,0.76	2R7	4	5	3,743,979:70:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
274	96	352	06:17:23.466	117DC105A106A4P	7STRP	0.041023,-0.008,	Slew =12.01	2R7	4	5	3,743,980	65:0
275	96	352	06:17:33.466	117DC105A106A4Q	7STRP	-0.041023,0.0,0,	Slew =,0.76	2R7	4	5	3,743,980	80:0
276	96	352	06:18:30.800	117DC11A	**CSMOS**	GE	***** GROUP END CSMOS	2R7	4	5	3,743,981	75:0
277	**96**	**352**	**06:18:36.000**	**E4JNGLOMOS03-**		**-----STOP-------**		**2R7**	**4**	**5**	**: :**	
278	96	352	06:45:00.133	488J6D	6TMSED	NORM,BL5	Sci, Eng, and D/L Chan	2R7	4	5	3,744,008	02:0
279	96	352	07:27:54.133	488J6E	6TMSED	NORM,BL4	Sci, Eng, and D/L Chan	2R7	4	5	3,744,050	41:0
280	96	352	08:08:26.133	488K6A	6TMSED	NORM,BL2	Sci, Eng, and D/L Chan	2R7	4	5	3,744,090	49:0
281	96	352	08:13:27.466	488K6B	6TMSED	FILL,BL2	Sci, Eng, and D/L Chan	2R7	4	5	3,744,095	46:0
282	**96**	**352**	**08:40:18.666**	**E4JNGLOMOS04-**		**-----START------**		**2R7**	**4**	**5**	**: :**	
283	96	352	08:41:14.133	165DD4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R7	4	5	3,744,122	89:0
284	96	352	08:41:14.800	165DD4B	7SCAN	NORM,231.868999,	Check S/P Position	2R7	4	5	3,744,122	90:0
285	96	352	08:44:12.800	127DD	NIMSTAB	GS	%%%%% GROUP START TAB	2R7	4	5	3,744,125	84:0
286	**96**	**352**	**08:44:12.800**	**127DD4A**	**37IOP**	**7,5**	**Fixed Map, Grating Start Position =05**	**2R7**	**4**	**5**	**3,744,125**	**84:0**
287	**96**	**352**	**08:44:13.466**	**127DD4B**	**37ETB**	**07,C7,19,1F,E1,0**	**Loads wavelength edit table**	**2R7**	**4**	**5**	**3,744,125**	**85:0**
288	96	352	08:44:21.466	127DD11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R7	4	5	3,744,126	06:0
289	96	352	08:45:05.466	175DD422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R7	4	5	3,744,126	72:0
290	96	352	08:45:08.800	117DD	**CSMOS**	GS	***** GROUP START CSMOS	2R7	4	5	3,744,126	77:0
291	96	352	08:45:13.533		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC *1621.73 +/-	2R7	4	5	3,744,126	84:1
292	96	352	08:45:14.800	175DD176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R7	4	5	3,744,126	86:0
293	96	352	08:45:15.000		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *1621.61 +/-	2R7	4	5	3,744,126	86:3
294	96	352	08:45:15.000		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC 1621.61 +/-	2R7	4	5	3,744,126	86:3
295	96	352	08:45:18.133	117DD105A106A4A	7STRP	-0.041023,0.0,0,	Slew =,0.76	2R7	4	5	3,744,127	00:0
296	96	352	08:46:15.466	117DD105A106A4B	7STRP	0.041023,-0.008,	Slew =12.01	2R7	4	5	3,744,127	86:0
297	96	352	08:46:25.466	117DD105A106A4C	7STRP	-0.041023,0.0,0,	Slew =,0.76	2R7	4	5	3,744,128	10:0
298	96	352	08:47:22.800	117DD105A106A4D	7STRP	0.041023,-0.008,	Slew =12.01	2R7	4	5	3,744,129	05:0
299	96	352	08:47:32.800	117DD105A106A4E	7STRP	-0.041023,0.0,0,	Slew =,0.76	2R7	4	5	3,744,129	20:0
300	96	352	08:48:30.133	117DD105A106A4F	7STRP	0.041023,-0.008,	Slew =12.01	2R7	4	5	3,744,130	15:0
301	96	352	08:48:40.133	117DD105A106A4G	7STRP	-0.041023,0.0,0,	Slew =,0.76	2R7	4	5	3,744,130	30:0
302	96	352	08:49:37.466	117DD105A106A4H	7STRP	0.041023,-0.008,	Slew =12.01	2R7	4	5	3,744,131	25:0
303	96	352	08:49:47.466	117DD105A106A4I	7STRP	-0.041023,0.0,0,	Slew =,0.76	2R7	4	5	3,744,131	40:0
304	96	352	08:49:56.800	175DD6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R7	4	5	3,744,131	54:0
305	96	352	08:49:56.800		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *1555.57 +/-	2R7	4	5	3,744,131	54:0
306	96	352	08:49:56.800	175DD422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R7	4	5	3,744,131	54:0
307	96	352	08:50:44.800	117DD105A106A4J	7STRP	0.041023,-0.008,	Slew =12.01	2R7	4	5	3,744,132	35:0
308	96	352	08:50:54.800	117DD105A106A4K	7STRP	-0.041023,0.0,0,	Slew =,0.76	2R7	4	5	3,744,132	50:0
309	96	352	08:51:52.133	117DD105A106A4L	7STRP	0.041023,-0.008,	Slew =12.01	2R7	4	5	3,744,133	45:0
310	96	352	08:52:02.133	117DD105A106A4M	7STRP	-0.041023,0.0,0,	Slew =,0.76	2R7	4	5	3,744,133	60:0
311	96	352	08:52:59.466	117DD105A106A4N	7STRP	0.041023,-0.008,	Slew =12.01	2R7	4	5	3,744,134	55:0
312	96	352	08:53:09.466	117DD105A106A4O	7STRP	-0.041023,0.0,0,	Slew =,0.76	2R7	4	5	3,744,134	70:0
313	96	352	08:54:06.800	117DD105A106A4P	7STRP	0.041023,-0.008,	Slew =12.01	2R7	4	5	3,744,135	65:0
314	96	352	08:54:16.800	117DD105A106A4Q	7STRP	-0.041023,0.0,0,	Slew =,0.76	2R7	4	5	3,744,135	80:0
315	96	352	08:55:14.133	117DD11A	**CSMOS**	GE	***** GROUP END CSMOS	2R7	4	5	3,744,136	75:0
316	**96**	**352**	**08:55:19.333**	**E4JNGLOMOS04-**		**-----STOP-------**		**2R7**	**4**	**5**	**: :**	
317	96	352	09:30:46.800	165CI4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R7	4	5	3,744,171	89:0
318	96	352	09:30:47.466	165CI4B	7SCAN	NORM,225.838999,	Check S/P Position	2R7	4	5	3,744,171	90:0
319	**96**	**352**	**10:20:24.666**	**E4JNGLOMOS05-**		**-----START------**		**2R7**	**4**	**5**	**: :**	
320	96	352	10:21:20.133	165DE4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R7	4	5	3,744,221	89:0
321	96	352	10:21:20.800	165DE4B	7SCAN	NORM,233.360998,	Check S/P Position	2R7	4	5	3,744,221	90:0
322	**96**	**352**	**10:24:18.800**	**127DE4A**	**37IOP**	**7,5**	**Fixed Map, Grating Start Position =05**	**2R7**	**4**	**5**	**3,744,224**	**84:0**
323	96	352	10:24:18.800	127DE	NIMSTAB	GS	%%%%% GROUP START TAB	2R7	4	5	3,744,224	84:0
324	**96**	**352**	**10:24:19.466**	**127DE4B**	**37ETB**	**07,C7,19,1F,E1,0**	**Loads wavelength edit table**	**2R7**	**4**	**5**	**3,744,224**	**85:0**
325	96	352	10:24:27.466	127DE11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R7	4	5	3,744,225	06:0
326	96	352	10:25:11.466	175DE422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R7	4	5	3,744,225	72:0
327	96	352	10:25:14.800	117DE	**CSMOS**	GS	***** GROUP START CSMOS	2R7	4	5	3,744,225	77:0
328	96	352	10:25:19.533		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC *1556.90 +/-	2R7	4	5	3,744,225	84:1

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
329	96	352	10:25:20.800	175DE176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R7	4	5	3,744,225	86:0
330	96	352	10:25:21.000		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *1556.78 +/-	2R7	4	5	3,744,225	86:3
331	96	352	10:25:21.000		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC 1556.78 +/-	2R7	4	5	3,744,225	86:3
332	96	352	10:25:24.133	117DE105A106A4A	7STRP	-0.041023,0.0,0,	Slew =,0.76	2R7	4	5	3,744,226	00:0
333	96	352	10:26:21.466	117DE105A106A4B	7STRP	0.041023,-0.008,	Slew =12.01	2R7	4	5	3,744,226	86:0
334	96	352	10:26:31.466	117DE105A106A4C	7STRP	-0.041023,0.0,0,	Slew =,0.76	2R7	4	5	3,744,227	10:0
335	96	352	10:27:28.800	117DE105A106A4D	7STRP	0.041023,-0.008,	Slew =12.01	2R7	4	5	3,744,228	05:0
336	96	352	10:27:38.800	117DE105A106A4E	7STRP	-0.041023,0.0,0,	Slew =,0.76	2R7	4	5	3,744,228	20:0
337	96	352	10:28:36.133	117DE105A106A4F	7STRP	0.041023,-0.008,	Slew =12.01	2R7	4	5	3,744,229	15:0
338	96	352	10:28:46.133	117DE105A106A4G	7STRP	-0.041023,0.0,0,	Slew =,0.76	2R7	4	5	3,744,229	30:0
339	96	352	10:29:43.466	117DE105A106A4H	7STRP	0.041023,-0.008,	Slew =12.01	2R7	4	5	3,744,230	25:0
340	96	352	10:29:53.466	117DE105A106A4I	7STRP	-0.041023,0.0,0,	Slew =,0.76	2R7	4	5	3,744,230	40:0
341	96	352	10:30:02.800		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *1490.73 +/-	2R7	4	5	3,744,230	54:0
342	96	352	10:30:02.800	175DE422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R7	4	5	3,744,230	54:0
343	96	352	10:30:02.800	175DE6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R7	4	5	3,744,230	54:0
344	96	352	10:30:50.800	117DE105A106A4J	7STRP	0.041023,-0.008,	Slew =12.01	2R7	4	5	3,744,231	35:0
345	96	352	10:31:00.800	117DE105A106A4K	7STRP	-0.041023,0.0,0,	Slew =,0.76	2R7	4	5	3,744,231	50:0
346	96	352	10:31:58.133	117DE105A106A4L	7STRP	0.041023,-0.008,	Slew =12.01	2R7	4	5	3,744,232	45:0
347	96	352	10:32:08.133	117DE105A106A4M	7STRP	-0.041023,0.0,0,	Slew =,0.76	2R7	4	5	3,744,232	60:0
348	96	352	10:33:05.466	117DE105A106A4N	7STRP	0.041023,-0.008,	Slew =12.01	2R7	4	5	3,744,233	55:0
349	96	352	10:33:15.466	117DE105A106A4O	7STRP	-0.041023,0.0,0,	Slew =,0.76	2R7	4	5	3,744,233	70:0
350	96	352	10:34:12.800	117DE105A106A4P	7STRP	0.041023,-0.008,	Slew =12.01	2R7	4	5	3,744,234	65:0
351	96	352	10:34:22.800	117DE105A106A4Q	7STRP	-0.041023,0.0,0,	Slew =,0.76	2R7	4	5	3,744,234	80:0
352	96	352	10:35:20.133	117DE11A	**CSMOS**	GE	***** GROUP END CSMOS	2R7	4	5	3,744,235	75:0
353	**96**	**352**	**10:35:20.666**	**E4JNGLOMOS05-**		**-----STOP-------**		**2R7**	**4**	**5**	**: :**	
354	**96**	**352**	**10:35:24.667**	**E4NNHEALTH01-**		**-----START------**		**2R7**	**4**	**5**	**: :**	
355	96	352	10:35:26.133	125FY	NIMSINIT	GS	##### GROUP START INIT	2R7	4	5	3,744,235	84:0
356	96	352	10:35:26.133	125FY11A	NIMSINIT	GE	##### GROUP END INIT	2R7	4	5	3,744,235	84:0
357	**96**	**352**	**10:35:26.133**	**125FY4A**	**37IST**	**0,2,0,OFF,0,1,0**	**Gain State 2**	**2R7**	**4**	**5**	**3,744,235**	**84:0**
358	96	352	10:35:44.800	488K6C	6TMSED	NORM,BL2	Sci, Eng, and D/L Chan	2R7	4	5	3,744,236	21:0
359	**96**	**352**	**10:36:26.800**	**127FY4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**3,744,236**	**84:0**
360	96	352	10:36:26.800	127FY	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	3,744,236	84:0
361	**96**	**352**	**10:36:27.466**	**127FY4B**	**37ETB**	**07,C7,02,80,44,3**	**Loads wavelength edit table**	**2R3**	**4**	**0**	**3,744,236**	**85:0**
362	96	352	10:36:35.466	127FY11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	3,744,237	06:0
363	**96**	**352**	**10:36:51.466**	**432EA6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**	**NIMS R/T SELECT**	**2R3**	**4**	**0**	**3,744,237**	**30:0**
364	**96**	**352**	**10:37:50.800**	**432EB6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**2R3**	**4**	**0**	**3,744,238**	**28:0**
365	**96**	**352**	**10:38:36.667**	**E4NNHEALTH01-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**	
366	96	352	11:00:46.133	165CJ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,744,260	89:0
367	96	352	11:00:46.800	165CJ4B	7SCAN	NORM,206.664,-12	Check S/P Position	2R3	4	0	3,744,260	90:0
368	**96**	**352**	**11:59:30.000**	**E4JNGLOMOS06-**		**-----START------**		**2R3**	**4**	**0**	**: :**	
369	96	352	12:00:25.466	165DF4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,744,319	89:0
370	96	352	12:00:26.133	165DF4B	7SCAN	NORM,234.789,-19	Check S/P Position	2R3	4	0	3,744,319	90:0
371	**96**	**352**	**12:03:24.133**	**127DF4A**	**37IOP**	**7,5**	**Fixed Map, Grating Start Position =05**	**2R7**	**4**	**5**	**3,744,322**	**84:0**
372	96	352	12:03:24.133	127DF	NIMSTAB	GS	%%%%% GROUP START TAB	2R7	4	5	3,744,322	84:0
373	**96**	**352**	**12:03:24.800**	**127DF4B**	**37ETB**	**07,C7,19,1F,E1,0**	**Loads wavelength edit table**	**2R7**	**4**	**5**	**3,744,322**	**85:0**
374	96	352	12:03:32.800	127DF11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R7	4	5	3,744,323	06:0
375	96	352	12:04:16.800	175DF422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R7	4	5	3,744,323	72:0
376	96	352	12:04:20.133	117DF	**CSMOS**	GS	***** GROUP START CSMOS	2R7	4	5	3,744,323	77:0
377	96	352	12:04:24.866		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC *1492.07 +/-	2R7	4	5	3,744,323	84:1
378	96	352	12:04:26.133	175DF176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R7	4	5	3,744,323	86:0
379	96	352	12:04:26.333		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC 1491.95 +/-	2R7	4	5	3,744,323	86:3
380	96	352	12:04:26.333		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *1491.95 +/-	2R7	4	5	3,744,323	86:3
381	96	352	12:04:29.466	117DF105A106A4A	7STRP	-0.041023,0.0,0,	Slew =,0.76	2R7	4	5	3,744,324	00:0
382	96	352	12:05:26.800	117DF105A106A4B	7STRP	0.041023,-0.008,	Slew =12.01	2R7	4	5	3,744,324	86:0
383	96	352	12:05:36.800	117DF105A106A4C	7STRP	-0.041023,0.0,0,	Slew =,0.76	2R7	4	5	3,744,325	10:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
384	96	352	12:06:34.133	117DF105A106A4D	7STRP	0.041023,-0.008,	Slew =12.01	2R7	4	5	3,744,326:05:0	
385	96	352	12:06:44.133	117DF105A106A4E	7STRP	-0.041023,0.0,0,	Slew =,0.76	2R7	4	5	3,744,326:20:0	
386	96	352	12:07:41.466	117DF105A106A4F	7STRP	0.041023,-0.008,	Slew =12.01	2R7	4	5	3,744,327:15:0	
387	96	352	12:07:51.466	117DF105A106A4G	7STRP	-0.041023,0.0,0,	Slew =,0.76	2R7	4	5	3,744,327:30:0	
388	96	352	12:08:48.800	117DF105A106A4H	7STRP	0.041023,-0.008,	Slew =12.01	2R7	4	5	3,744,328:25:0	
389	96	352	12:08:58.800	117DF105A106A4I	7STRP	-0.041023,0.0,0,	Slew =,0.76	2R7	4	5	3,744,328:40:0	
390	96	352	12:09:08.133		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *1425.90 +/-	2R7	4	5	3,744,328:54:0	
391	96	352	12:09:08.133	175DF6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R7	4	5	3,744,328:54:0	
392	96	352	12:09:08.133	175DF422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R7	4	5	3,744,328:54:0	
393	96	352	12:09:56.133	117DF105A106A4J	7STRP	0.041023,-0.008,	Slew =12.01	2R7	4	5	3,744,329:35:0	
394	96	352	12:10:06.133	117DF105A106A4K	7STRP	-0.041023,0.0,0,	Slew =,0.76	2R7	4	5	3,744,329:50:0	
395	96	352	12:11:03.466	117DF105A106A4L	7STRP	0.041023,-0.008,	Slew =12.01	2R7	4	5	3,744,330:45:0	
396	96	352	12:11:13.466	117DF105A106A4M	7STRP	-0.041023,0.0,0,	Slew =,0.76	2R7	4	5	3,744,330:60:0	
397	96	352	12:12:10.800	117DF105A106A4N	7STRP	0.041023,-0.008,	Slew =12.01	2R7	4	5	3,744,331:55:0	
398	96	352	12:12:20.800	117DF105A106A4O	7STRP	-0.041023,0.0,0,	Slew =,0.76	2R7	4	5	3,744,331:70:0	
399	96	352	12:13:18.133	117DF105A106A4P	7STRP	0.041023,-0.008,	Slew =12.01	2R7	4	5	3,744,332:65:0	
400	96	352	12:13:28.133	117DF105A106A4Q	7STRP	-0.041023,0.0,0,	Slew =,0.76	2R7	4	5	3,744,332:80:0	
401	96	352	12:14:25.466	117DF11A	**CSMOS**	GE	***** GROUP END CSMOS	2R7	4	5	3,744,333:75:0	
402	**96**	**352**	**12:14:28.666**	**E4JNGLOMOS06-**		**-----STOP-------**		**2R7**	**4**	**5**	**: :**	
403	96	352	14:44:13.466	165GA4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R7	4	5	3,744,481:89:0	
404	96	352	14:44:14.133	165GA4B	7SCAN	NORM,235.712,-21	Check S/P Position	2R7	4	5	3,744,481:90:0	
405	96	352	14:48:08.133	117GA	**CSMOS**	GS	***** GROUP START CSMOS	2R7	4	5	3,744,485:77:0	
406	96	352	14:48:17.466	117GA105A106A4A	7STRP	0.046032,0.0,0,0	Slew =,0.11	2R7	4	5	3,744,486:00:0	
407	96	352	14:48:17.466	176GA6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R7	4	5	3,744,486:00:0	
408	96	352	14:55:20.800	117GA105A106A4B	7STRP	-0.047035,-0.001	Slew =12.01	2R7	4	5	3,744,492:89:0	
409	96	352	14:55:34.133	117GA105A106A4C	7STRP	0.046032,0.0,0,0	Slew =,0.11	2R7	4	5	3,744,493:18:0	
410	96	352	15:01:00.866		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC *1427.24 +/-	2R7	4	5	3,744,498:53:1	
411	96	352	15:01:02.333		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC *1427.12 +/-	2R7	4	5	3,744,498:55:3	
412	96	352	15:01:17.466		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *1423.57 +/-	2R7	4	5	3,744,498:78:0	
413	96	352	15:01:37.466		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *1418.88 +/-	2R7	4	5	3,744,499:17:0	
414	96	352	15:02:37.466	117GA105A106A4D	7STRP	-0.047035,-0.001	Slew =12.01	2R7	4	5	3,744,500:16:0	
415	96	352	15:02:50.800	117GA105A106A4E	7STRP	0.046032,0.0,0,0	Slew =,0.11	2R7	4	5	3,744,500:36:0	
416	96	352	15:09:54.133	117GA105A106A4F	7STRP	-0.047035,-0.001	Slew =12.01	2R7	4	5	3,744,507:34:0	
417	96	352	15:10:07.466	117GA105A106A4G	7STRP	0.046032,0.0,0,0	Slew =,0.11	2R7	4	5	3,744,507:54:0	
418	96	352	15:14:02.866		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC *1420.22 +/-	2R7	4	5	3,744,511:43:1	
419	96	352	15:14:04.333		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC *1420.10 +/-	2R7	4	5	3,744,511:45:3	
420	96	352	15:14:19.466		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *1416.55 +/-	2R7	4	5	3,744,511:68:0	
421	96	352	15:14:39.466		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *1411.87 +/-	2R7	4	5	3,744,512:07:0	
422	96	352	15:17:10.800	117GA105A106A4H	7STRP	-0.047035,-0.001	Slew =12.01	2R7	4	5	3,744,514:52:0	
423	96	352	15:17:24.133	117GA105A106A4I	7STRP	0.046032,0.0,0,0	Slew =,0.11	2R7	4	5	3,744,514:72:0	
424	96	352	15:24:27.466	117GA11A	**CSMOS**	GE	***** GROUP END CSMOS	2R7	4	5	3,744,521:70:0	
425	96	352	15:24:27.466	176GA6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R7	4	5	3,744,521:70:0	
426	96	352	15:24:37.533		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC *1413.20 +/-	2R7	4	5	3,744,521:85:1	
427	96	352	15:24:39.000		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC *1413.08 +/-	2R7	4	5	3,744,521:87:3	
428	96	352	15:24:39.466		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *1412.97 +/-	2R7	4	5	3,744,521:88:0	
429	96	352	15:24:56.133		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *1409.07 +/-	2R7	4	5	3,744,522:22:0	
430	96	352	15:30:00.133	488L6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	2R7	4	5	3,744,527:23:0	
431	96	352	15:30:45.466	411AD6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R7	4	5	3,744,528:00:0	
432	96	352	15:30:53.533		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC *1410.40 +/-	2R7	4	5	3,744,528:12:1	
433	96	352	15:30:55.000		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *1410.28 +/-	2R7	4	5	3,744,528:14:3	
434	96	352	15:30:55.000		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC 1410.28 +/-	2R7	4	5	3,744,528:14:3	
435	96	352	15:30:55.466	411AD6B	6TMREC	BDT	7.68 KBPS BUFFER DUMP TO TAPE Record Mode	2R7	4	5	3,744,528:15:0	
436	96	352	15:32:56.800	411AD6C	6TMREC	**NRC**	NO RECORD Record Mode Change	2R7	4	5	3,744,530:15:0	
437	96	352	15:32:59.466	175TF176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	2R7	4	5	3,744,530:19:0	
438	96	352	15:33:00.133	175TF422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R7	4	5	3,744,530:20:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
439	96	352	15:33:06.800		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *1379.39 +/-	2R7	4	5	3,744,530:30:0
440	96	352	15:33:06.800	175TF422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R7	4	5	3,744,530:30:0
441	**96**	**352**	**15:37:54.067**	**E4JNFEA05501-**		**-----START------**		**2R7**	**4**	**5**	**: :**
442	96	352	15:38:49.466	165DG4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R7	4	5	3,744,535:89:0
443	96	352	15:38:50.133	165DG4B	7SCAN	NORM,236.677999,	Check S/P Position	2R7	4	5	3,744,535:90:0
444	**96**	**352**	**15:41:48.133**	**127DG4A**	**37IOP**	**5,1**	**Short Map, Grating Start Position =01**	**2R5**	**4**	**1**	**3,744,538:84:0**
445	96	352	15:41:48.133	127DG	NIMSTAB	GS	%%%%% GROUP START TAB	2R5	4	1	3,744,538:84:0
446	**96**	**352**	**15:41:48.800**	**127DG4B**	**37ETB**	**,CD,02,00,00,05,**	**Loads wavelength edit table**	**2R5**	**4**	**1**	**3,744,538:85:0**
447	96	352	15:41:56.800	127DG11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R5	4	1	3,744,539:06:0
448	96	352	15:42:40.800	175DG422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,744,539:72:0
449	96	352	15:42:44.133	117DG	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,744,539:77:0
450	96	352	15:42:48.866		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC *1380.72 +/-	2R5	4	1	3,744,539:84:1
451	96	352	15:42:50.133	175DG176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	3,744,539:86:0
452	96	352	15:42:50.333		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC 1380.61 +/-	2R5	4	1	3,744,539:86:3
453	96	352	15:42:50.333		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *1380.61 +/-	2R5	4	1	3,744,539:86:3
454	**96**	**352**	**15:42:53.033**	**E4JNFEA05501-**	**NIMPBK**	**301DK**	**JUPITER CAMP. FEAT. 55 DEG. PHAS**	**2R5**	**4**	**1**	**: :**
455	96	352	15:42:53.466	117DG105A106A4A	7STRP	0.047536,0.0,0,0	Slew =,0.12	2R5	4	1	3,744,540:00:0
456	**96**	**352**	**15:49:29.699**	**E4JNFEA05501-**	**DESELC**	**300DK**	**JUPITER CAMP. FEAT. 55 DEG. PHAS**	**2R5**	**4**	**1**	**: :**
457	96	352	15:49:30.800	117DG11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,744,546:50:0
458	96	352	15:49:42.133		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *1284.09 +/-	2R5	4	1	3,744,546:67:0
459	96	352	15:49:42.133	175DG422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,744,546:67:0
460	96	352	15:49:42.133	175DG6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,744,546:67:0
461	**96**	**352**	**15:50:02.067**	**E4JNFEA05501-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**
462	**96**	**352**	**15:50:29.400**	**E4JNFEA05502-**		**-----START------**		**2R5**	**4**	**1**	**: :**
463	96	352	15:50:57.466	165DH4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,744,547:89:0
464	96	352	15:50:58.133	165DH4B	7SCAN	NORM,237.853998,	Check S/P Position	2R5	4	1	3,744,547:90:0
465	96	352	15:53:56.133	127DH	NIMSTAB	GS	%%%%% GROUP START TAB	2R5	4	1	3,744,550:84:0
466	**96**	**352**	**15:53:56.133**	**127DH4A**	**37IOP**	**5,1**	**Short Map, Grating Start Position =01**	**2R5**	**4**	**1**	**3,744,550:84:0**
467	**96**	**352**	**15:53:56.800**	**127DH4B**	**37ETB**	**,CD,02,00,00,05,**	**Loads wavelength edit table**	**2R5**	**4**	**1**	**3,744,550:85:0**
468	96	352	15:54:04.800	127DH11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R5	4	1	3,744,551:06:0
469	96	352	15:54:48.800	175DH422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,744,551:72:0
470	96	352	15:54:52.133	117DH	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,744,551:77:0
471	96	352	15:54:56.866		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC *1285.42 +/-	2R5	4	1	3,744,551:84:1
472	96	352	15:54:58.133	175DH176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	3,744,551:86:0
473	96	352	15:54:58.333		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC 1285.31 +/-	2R5	4	1	3,744,551:86:3
474	96	352	15:54:58.333		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *1285.31 +/-	2R5	4	1	3,744,551:86:3
475	**96**	**352**	**15:55:01.032**	**E4JNFEA05502-**	**NIMPBK**	**301DL**	**JUPITER CAMP. FEAT. 55 DEG. PHAS**	**2R5**	**4**	**1**	**: :**
476	96	352	15:55:01.466	117DH105A106A4A	7STRP	-0.047536,0.0,0,	Slew =,0.12	2R5	4	1	3,744,552:00:0
477	96	352	15:57:46.133	488L6B	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	2R5	4	1	3,744,554:65:0
478	**96**	**352**	**16:01:37.699**	**E4JNFEA05502-**	**DESELC**	**300DL**	**JUPITER CAMP. FEAT. 55 DEG. PHAS**	**2R5**	**4**	**1**	**: :**
479	96	352	16:01:38.733	117DH11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,744,558:50:0
480	96	352	16:01:52.733	175DH6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,744,558:71:0
481	96	352	16:01:52.733	175DH422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,744,558:71:0
482	96	352	16:01:52.733		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *1188.18 +/-	2R5	4	1	3,744,558:71:0
483	**96**	**352**	**16:02:10.067**	**E4JNFEA05502-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**
484	96	352	16:07:08.066	165IA4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,744,563:89:0
485	96	352	16:07:08.733	165IA4B	7SCAN	NORM,238.164999,	Check S/P Position	2R5	4	1	3,744,563:90:0
486	96	352	16:07:58.733	175IA422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2R5	4	1	3,744,564:74:0
487	96	352	16:08:02.066	118IA	**SMOS**	GS		2R5	4	1	3,744,564:79:0
488	96	352	16:08:06.800		DMS:	: *RUNUP	R115, TRACK *4, *REV, TIC *1189.52 +/-	2R5	4	1	3,744,564:86:1
489	96	352	16:08:10.733	175IA176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R5	4	1	3,744,565:01:0
490	96	352	16:08:10.800		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC 1183.25 +/-	2R5	4	1	3,744,565:01:1
491	96	352	16:08:10.800		DMS:	**: *RECORD**	R115, TRACK 4, REV, TIC *1183.25 +/-	2R5	4	1	3,744,565:01:1
492	96	352	16:08:12.066	118IA110A111A4A	7STRP	0.0071,0.0,46,0,	Slew =,3.01	2R5	4	1	3,744,565:03:0
493	96	352	16:08:58.066	118IA110A111A4B	7STRP	-0.021503,0.0,0,	Slew =,3.01	2R5	4	1	3,744,565:72:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
494	96	352	16:09:13.400	118IA110A111A4C	7STRP	0.0071,0.0,46,0,	Slew =,3.01	2R5	4	1	3,744,566:04:0	
495	96	352	16:09:59.400	118IA110A111A4D	7STRP	-0.021503,0.0,0,	Slew =,3.01	2R5	4	1	3,744,566:73:0	
496	96	352	16:10:14.733	118IA110A111A4E	7STRP	0.0071,0.0,46,0,	Slew =,3.01	2R5	4	1	3,744,567:05:0	
497	96	352	16:11:00.733	118IA110A111A4F	7STRP	-0.021503,0.0,0,	Slew =,3.01	2R5	4	1	3,744,567:74:0	
498	96	352	16:11:16.066	118IA110A111A4G	7STRP	0.0071,0.0,46,0,	Slew =,3.01	2R5	4	1	3,744,568:06:0	
499	96	352	16:12:02.066	118IA11A	**SMOS**	GE		2R5	4	1	3,744,568:75:0	
500	96	352	16:12:03.400	117AC	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,744,568:77:0	
501	96	352	16:12:12.733		DMS:	**: *RUNDOWN**	R115, TRACK 4, REV, TIC * 332.70 +/-	2R5	4	1	3,744,569:00:0	
502	96	352	16:12:12.733	175IA422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,744,569:00:0	
503	96	352	16:12:12.733	117AC105A106A4A	7STRP	0.0,0.0,0,0,0,0,	Slew =,1.01	2R5	4	1	3,744,569:00:0	
504	96	352	16:13:43.400	117AC105A106A4B	7STRP	-0.0057,0.0,0,0,	Slew =12.01	2R5	4	1	3,744,570:45:0	
505	96	352	16:14:14.066	117AC105A106A4C	7STRP	0.0,0.0,0,0,0,0,	Slew =,1.01	2R5	4	1	3,744,571:00:0	
506	96	352	16:15:44.733	117AC105A106A4D	7STRP	-0.0057,0.0,0,0,	Slew =12.01	2R5	4	1	3,744,572:45:0	
507	96	352	16:16:15.400	117AC105A106A4E	7STRP	0.0,0.0,0,0,0,0,	Slew =,1.01	2R5	4	1	3,744,573:00:0	
508	96	352	16:17:09.400	465KA6A	6DTRN	CMD,6DTRN,465KA6	DMS TRACK TURNAROUND	2R5	4	1	3,744,573:81:0	
509	96	352	16:17:46.066	117AC11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,744,574:45:0	
510	96	352	16:26:20.733	165IB4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,744,582:89:0	
511	96	352	16:26:21.400	165IB4B	7SCAN	NORM,238.556,-21	Check S/P Position	2R5	4	1	3,744,582:90:0	
512	96	352	16:26:26.066	118IB	**SMOS**	GS		2R5	4	1	3,744,583:06:0	
513	96	352	16:26:41.400	175IB422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2R5	4	1	3,744,583:29:0	
514	96	352	16:26:53.400	175IB176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R5	4	1	3,744,583:47:0	
515	96	352	16:26:54.733	118IB110A111A4A	7STRP	0.0071,0.0,46,0,	Slew =,3.01	2R5	4	1	3,744,583:49:0	
516	96	352	16:27:25.400	118IB110A111A4B	7STRP	-0.014301,0.0,0,	Slew =,3.01	2R5	4	1	3,744,584:04:0	
517	96	352	16:27:40.733	118IB110A111A4C	7STRP	0.0071,0.0,46,0,	Slew =,3.01	2R5	4	1	3,744,584:27:0	
518	96	352	16:28:11.400	118IB11A	**SMOS**	GE		2R5	4	1	3,744,584:73:0	
519	96	352	16:28:14.066	117AD	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,744,584:77:0	
520	96	352	16:28:23.400	175IB422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,744,585:00:0	
521	96	352	16:28:23.400	117AD105A106A4A	7STRP	0.0,0.0,0,0,0,0,	Slew =,1.01	2R5	4	1	3,744,585:00:0	
522	96	352	16:29:54.066	117AD105A106A4B	7STRP	-0.0074,0.0,0,0,	Slew =12.01	2R5	4	1	3,744,586:45:0	
523	96	352	16:30:24.733	117AD105A106A4C	7STRP	0.0,0.0,0,0,0,0,	Slew =,1.01	2R5	4	1	3,744,587:00:0	
524	96	352	16:31:55.400	117AD105A106A4D	7STRP	-0.0074,0.0,0,0,	Slew =12.01	2R5	4	1	3,744,588:45:0	
525	96	352	16:32:26.066	117AD105A106A4E	7STRP	0.0,0.0,0,0,0,0,	Slew =,1.01	2R5	4	1	3,744,589:00:0	
526	96	352	16:33:56.733	117AD11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,744,590:45:0	
527	96	352	16:34:26.066	165IC4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,744,590:89:0	
528	96	352	16:34:26.733	165IC4B	7SCAN	NORM,238.811998,	Check S/P Position	2R5	4	1	3,744,590:90:0	
529	96	352	16:35:16.733	175IC422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2R5	4	1	3,744,591:74:0	
530	96	352	16:35:20.066	118IC	**SMOS**	GS		2R5	4	1	3,744,591:79:0	
531	96	352	16:35:23.400		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 201.62 +/-	2R5	4	1	3,744,591:84:0	
532	96	352	16:35:27.400		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 207.89 +/-	2R5	4	1	3,744,591:90:0	
533	96	352	16:35:27.400		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC * 207.89 +/-	2R5	4	1	3,744,591:90:0	
534	96	352	16:35:28.733	175IC176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R5	4	1	3,744,592:01:0	
535	96	352	16:35:30.066	118IC110A111A4A	7STRP	0.0,-0.0071,46,0	Slew =,3.01	2R5	4	1	3,744,592:03:0	
536	96	352	16:35:45.400	118IC110A111B4A	7STRP	0.0071,0.0071,0,	Slew =,3.01	2R5	4	1	3,744,592:26:0	
537	96	352	16:36:00.733	118IC110A111B4B	7STRP	0.0,-0.0071,46,0	Slew =,3.01	2R5	4	1	3,744,592:49:0	
538	96	352	16:36:16.066	118IC110A111A4B	7STRP	-0.0072,0.0071,0	Slew =,3.01	2R5	4	1	3,744,592:72:0	
539	96	352	16:36:31.400	118IC110A111A4C	7STRP	0.0,-0.0071,46,0	Slew =,3.01	2R5	4	1	3,744,593:04:0	
540	96	352	16:36:46.733	118IC110A111B4C	7STRP	0.0071,0.0071,0,	Slew =,3.01	2R5	4	1	3,744,593:27:0	
541	96	352	16:37:02.066	118IC110A111B4D	7STRP	0.0,-0.0071,46,0	Slew =,3.01	2R5	4	1	3,744,593:50:0	
542	96	352	16:37:17.400	118IC11A	**SMOS**	GE		2R5	4	1	3,744,593:73:0	
543	96	352	16:37:28.066	165AN4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,744,593:89:0	
544	96	352	16:37:28.733	165AN4B	7SCAN	NORM,238.490999,	Check S/P Position	2R5	4	1	3,744,593:90:0	
545	96	352	16:37:29.400		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC * 636.80 +/-	2R5	4	1	3,744,594:00:0	
546	96	352	16:37:29.400	175IC422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,744,594:00:0	
547	96	352	16:40:51.400	411JH6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,744,597:30:0	
548	96	352	16:40:58.066		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 637.71 +/-	2R5	4	1	3,744,597:40:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
549	96	352	16:40:59.533		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC * 637.83 +/-	2R5	4	1	3,744,597:42:2	
550	96	352	16:40:59.533		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 637.83 +/-	2R5	4	1	3,744,597:42:2	
551	96	352	16:41:01.400	411JH6B	6TMREC	BDT	7.68 KBPS BUFFER DUMP TO TAPE Record Mode	2R5	4	1	3,744,597:45:0	
552	96	352	16:43:02.733	411JH6C	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,744,599:45:0	
553	96	352	16:43:03.400	411JH6D	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,744,599:46:0	
554	96	352	16:43:03.400		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC * 666.86 +/-	2R5	4	1	3,744,599:46:0	
555	96	352	16:46:34.066	165AC4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,744,602:89:0	
556	96	352	16:46:34.733	165AC4B	7SCAN	NORM,239.058998,	Check S/P Position	2R5	4	1	3,744,602:90:0	
557	**96**	**352**	**16:58:47.400**	**E4JNFEA05503-**		**-----START------**		**2R5**	**4**	**1**	**: :**	
558	96	352	16:59:42.733	165DI4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,744,615:89:0	
559	96	352	16:59:43.400	165DI4B	7SCAN	NORM,239.778999,	Check S/P Position	2R5	4	1	3,744,615:90:0	
560	96	352	17:02:41.400	127DI	NIMSTAB	GS	%%%%% GROUP START TAB	2R5	4	1	3,744,618:84:0	
561	**96**	**352**	**17:02:41.400**	**127DI4A**	**37IOP**	**5,1**	**Short Map, Grating Start Position =01**	**2R5**	**4**	**1**	**3,744,618:84:0**	
562	**96**	**352**	**17:02:42.066**	**127DI4B**	**37ETB**	**,CD,02,00,00,05,**	**Loads wavelength edit table**	**2R5**	**4**	**1**	**3,744,618:85:0**	
563	96	352	17:02:50.066	127DI11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R5	4	1	3,744,619:06:0	
564	96	352	17:03:27.400	175KA422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	2R5	4	1	3,744,619:62:0	
565	96	352	17:03:34.066		DMS:	: *RUNUP	R28, TRACK 1, FWD, TIC 666.92 +/-	2R5	4	1	3,744,619:72:0	
566	96	352	17:03:37.400	117DI	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,744,619:77:0	
567	96	352	17:03:38.066		DMS:	**: *RECORD**	R28, TRACK 1, FWD, TIC * 668.42 +/-	2R5	4	1	3,744,619:78:0	
568	96	352	17:03:38.066		DMS:	: *AT_SPD	R28, TRACK 1, FWD, TIC 668.42 +/-	2R5	4	1	3,744,619:78:0	
569	96	352	17:03:39.400	175KA176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	2R5	4	1	3,744,619:80:0	
570	96	352	17:03:40.733		DMS:	**: *RUNDOWN**	R28, TRACK 1, FWD, TIC * 670.77 +/-	2R5	4	1	3,744,619:82:0	
571	96	352	17:03:40.733	175DI422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,744,619:82:0	
572	96	352	17:03:42.133		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC * 670.99 +/-	2R5	4	1	3,744,619:84:1	
573	96	352	17:03:43.400	175DI176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	3,744,619:86:0	
574	96	352	17:03:43.600		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 671.11 +/-	2R5	4	1	3,744,619:86:3	
575	96	352	17:03:43.600		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC * 671.11 +/-	2R5	4	1	3,744,619:86:3	
576	**96**	**352**	**17:03:46.364**	**E4JNFEA05503-**	**NIMPBK**	**301DM**	**JUPITER CAMP. FEAT. 55 DEG. PHAS**	**2R5**	**4**	**1**	**: :**	
577	96	352	17:03:46.733	117DI105A106A4A	7STRP	-0.047536,0.0,0,	Slew =,0.12	2R5	4	1	3,744,620:00:0	
578	**96**	**352**	**17:10:23.029**	**E4JNFEA05503-**	**DESELC**	**300DM**	**JUPITER CAMP. FEAT. 55 DEG. PHAS**	**2R5**	**4**	**1**	**: :**	
579	96	352	17:10:24.066	117DI11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,744,626:50:0	
580	96	352	17:10:25.400	175DI422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,744,626:52:0	
581	96	352	17:10:25.400	175DI6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,744,626:52:0	
582	96	352	17:10:25.400		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC * 765.28 +/-	2R5	4	1	3,744,626:52:0	
583	96	352	17:10:50.066	165ID4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,744,626:89:0	
584	96	352	17:10:50.733	165ID4B	7SCAN	NORM,237.575998,	Check S/P Position	2R5	4	1	3,744,626:90:0	
585	**96**	**352**	**17:10:55.400**	**E4JNFEA05503-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**	
586	96	352	17:11:40.733	175ID422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2R5	4	1	3,744,627:74:0	
587	96	352	17:11:44.066	118ID	**SMOS**	GS		2R5	4	1	3,744,627:79:0	
588	96	352	17:11:47.400		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 765.34 +/-	2R5	4	1	3,744,627:84:0	
589	96	352	17:11:51.400		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC * 771.61 +/-	2R5	4	1	3,744,627:90:0	
590	96	352	17:11:51.400		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 771.61 +/-	2R5	4	1	3,744,627:90:0	
591	96	352	17:11:52.733	175ID176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R5	4	1	3,744,628:01:0	
592	96	352	17:11:54.066	118ID110A111A4A	7STRP	0.0071,0.0,46,0,	Slew =,3.01	2R5	4	1	3,744,628:03:0	
593	96	352	17:12:40.066	118ID110A111A4B	7STRP	-0.021403,0.0,0,	Slew =,3.01	2R5	4	1	3,744,628:72:0	
594	96	352	17:12:55.400	118ID110A111A4C	7STRP	0.0071,0.0,46,0,	Slew =,3.01	2R5	4	1	3,744,629:04:0	
595	96	352	17:13:41.400	118ID110A111A4D	7STRP	-0.021403,0.0,0,	Slew =,3.01	2R5	4	1	3,744,629:73:0	
596	96	352	17:13:56.733	118ID110A111A4E	7STRP	0.0071,0.0,46,0,	Slew =,3.01	2R5	4	1	3,744,630:05:0	
597	96	352	17:14:42.733	118ID110A111A4F	7STRP	-0.021403,0.0,0,	Slew =,3.01	2R5	4	1	3,744,630:74:0	
598	96	352	17:14:58.066	118ID110A111A4G	7STRP	0.0071,0.0,46,0,	Slew =,3.01	2R5	4	1	3,744,631:06:0	
599	96	352	17:15:44.066	118ID11A	**SMOS**	GE		2R5	4	1	3,744,631:75:0	
600	96	352	17:15:45.400	117AF	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,744,631:77:0	
601	96	352	17:15:54.733	175ID422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,744,632:00:0	
602	96	352	17:15:54.733	117AF105A106A4A	7STRP	0.0,0.0,0,0,0,0,	Slew =,1.01	2R5	4	1	3,744,632:00:0	
603	96	352	17:15:54.733		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *1627.08 +/-	2R5	4	1	3,744,632:00:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
604	96	352	17:16:42.066	488L6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	2R5	4	1	3,744,632	71:0
605	96	352	17:17:25.400	117AF105A106A4B	7STRP	-0.0057,0.0,0,0,	Slew =12.01	2R5	4	1	3,744,633	45:0
606	96	352	17:17:56.066	117AF105A106A4C	7STRP	0.0,0.0,0,0,0,0,	Slew =,1.01	2R5	4	1	3,744,634	00:0
607	96	352	17:19:26.733	117AF105A106A4D	7STRP	-0.0057,0.0,0,0,	Slew =12.01	2R5	4	1	3,744,635	45:0
608	96	352	17:19:57.400	117AF105A106A4E	7STRP	0.0,0.0,0,0,0,0,	Slew =,1.01	2R5	4	1	3,744,636	00:0
609	96	352	17:21:28.066	117AF11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,744,637	45:0
610	96	352	17:23:58.733	165IE4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,744,639	89:0
611	96	352	17:23:59.400	165IE4B	7SCAN	NORM,237.976999,	Check S/P Position	2R5	4	1	3,744,639	90:0
612	96	352	17:24:04.066	118IE	**SMOS**	GS		2R5	4	1	3,744,640	06:0
613	96	352	17:24:19.400	175IE422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2R5	4	1	3,744,640	29:0
614	96	352	17:24:26.066		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 1627.99 +/-	2R5	4	1	3,744,640	39:0
615	96	352	17:24:30.066		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 1634.26 +/-	2R5	4	1	3,744,640	45:0
616	96	352	17:24:30.066		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *1634.26 +/-	2R5	4	1	3,744,640	45:0
617	96	352	17:24:31.400	175IE176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R5	4	1	3,744,640	47:0
618	96	352	17:24:32.733	118IE110A111A4A	7STRP	0.0071,0.0,46,0,	Slew =,3.01	2R5	4	1	3,744,640	49:0
619	96	352	17:25:03.400	118IE110A111A4B	7STRP	-0.014301,0.0,0,	Slew =,3.01	2R5	4	1	3,744,641	04:0
620	96	352	17:25:18.733	118IE110A111A4C	7STRP	0.0071,0.0,46,0,	Slew =,3.01	2R5	4	1	3,744,641	27:0
621	96	352	17:25:49.400	118IE11A	**SMOS**	GE		2R5	4	1	3,744,641	73:0
622	96	352	17:25:52.066	117AG	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,744,641	77:0
623	96	352	17:26:01.400	175IE422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,744,642	00:0
624	96	352	17:26:01.400		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *1955.35 +/-	2R5	4	1	3,744,642	00:0
625	96	352	17:26:01.400	117AG105A106A4A	7STRP	0.0,0.0,0,0,0,0,	Slew =,1.01	2R5	4	1	3,744,642	00:0
626	96	352	17:27:32.066	117AG105A106A4B	7STRP	-0.0074,0.0,0,0,	Slew =12.01	2R5	4	1	3,744,643	45:0
627	96	352	17:28:02.733	117AG105A106A4C	7STRP	0.0,0.0,0,0,0,0,	Slew =,1.01	2R5	4	1	3,744,644	00:0
628	96	352	17:29:33.400	117AG105A106A4D	7STRP	-0.0074,0.0,0,0,	Slew =12.01	2R5	4	1	3,744,645	45:0
629	96	352	17:30:04.066	117AG105A106A4E	7STRP	0.0,0.0,0,0,0,0,	Slew =,1.01	2R5	4	1	3,744,646	00:0
630	96	352	17:31:34.733	117AG11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,744,647	45:0
631	96	352	17:32:04.066	165IF4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,744,647	89:0
632	96	352	17:32:04.733	165IF4B	7SCAN	NORM,238.344999,	Check S/P Position	2R5	4	1	3,744,647	90:0
633	96	352	17:32:54.733	175IF422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2R5	4	1	3,744,648	74:0
634	96	352	17:32:58.066	118IF	**SMOS**	GS		2R5	4	1	3,744,648	79:0
635	96	352	17:33:01.400		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 1956.27 +/-	2R5	4	1	3,744,648	84:0
636	96	352	17:33:05.400		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 1962.54 +/-	2R5	4	1	3,744,648	90:0
637	96	352	17:33:05.400		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *1962.54 +/-	2R5	4	1	3,744,648	90:0
638	96	352	17:33:06.733	175IF176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R5	4	1	3,744,649	01:0
639	96	352	17:33:08.066	118IF110A111A4A	7STRP	0.0,-0.0071,46,0	Slew =,3.01	2R5	4	1	3,744,649	03:0
640	96	352	17:33:23.400	118IF110A111B4A	7STRP	0.0071,0.0071,0,	Slew =,3.01	2R5	4	1	3,744,649	26:0
641	96	352	17:33:38.733	118IF110A111B4B	7STRP	0.0,-0.0071,46,0	Slew =,3.01	2R5	4	1	3,744,649	49:0
642	96	352	17:33:54.066	118IF110A111A4B	7STRP	-0.0072,0.0071,0	Slew =,3.01	2R5	4	1	3,744,649	72:0
643	96	352	17:34:09.400	118IF110A111A4C	7STRP	0.0,-0.0071,46,0	Slew =,3.01	2R5	4	1	3,744,650	04:0
644	96	352	17:34:24.733	118IF110A111B4C	7STRP	0.0071,0.0071,0,	Slew =,3.01	2R5	4	1	3,744,650	27:0
645	96	352	17:34:40.066	118IF110A111B4D	7STRP	0.0,-0.0071,46,0	Slew =,3.01	2R5	4	1	3,744,650	50:0
646	96	352	17:34:55.400	118IF11A	**SMOS**	GE		2R5	4	1	3,744,650	73:0
647	96	352	17:35:06.066	165AO4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,744,650	89:0
648	96	352	17:35:06.733	165AO4B	7SCAN	NORM,238.007,-21	Check S/P Position	2R5	4	1	3,744,650	90:0
649	96	352	17:35:07.400		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *2391.45 +/-	2R5	4	1	3,744,651	00:0
650	96	352	17:35:07.400	175IF422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,744,651	00:0
651	96	352	17:44:49.400	165AD4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,744,660	54:0
652	96	352	17:44:50.066	165AD4B	7SCAN	NORM,238.523998,	Check S/P Position	2R5	4	1	3,744,660	55:0
653	96	352	18:01:23.400	165AW4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,744,676	89:0
654	96	352	18:01:24.066	165AW4B	7SCAN	NORM,238.662998,	Check S/P Position	2R5	4	1	3,744,676	90:0
655	96	352	18:05:18.066	117AI	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,744,680	77:0
656	96	352	18:05:27.400	117AI105A106A4A	7STRP	0.0,0.0,0,0,0,0,	Slew =,1.01	2R5	4	1	3,744,681	00:0
657	96	352	18:06:58.066	117AI105A106A4B	7STRP	-0.0055,0.0,0,0,	Slew =12.01	2R5	4	1	3,744,682	45:0
658	96	352	18:07:28.733	117AI105A106A4C	7STRP	0.0,0.0,0,0,0,0,	Slew =,1.01	2R5	4	1	3,744,683	00:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
659	96	352	18:08:59.400	117AI105A106A4D	7STRP	-0.0055,0.0,0,0,	Slew =12.01	2R5	4	1	3,744,684:45:0	
660	96	352	18:09:30.066	117AI105A106A4E	7STRP	0.0,0.0,0,0,0,0,	Slew =,1.01	2R5	4	1	3,744,685:00:0	
661	96	352	18:11:00.733	117AI11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,744,686:45:0	
662	96	352	18:11:06.733	165AF4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,744,686:54:0	
663	96	352	18:11:07.400	165AF4B	7SCAN	NORM,238.188,-21	Check S/P Position	2R5	4	1	3,744,686:55:0	
664	96	352	18:11:22.066	117AJ	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,744,686:77:0	
665	96	352	18:11:31.400	117AJ105A106A4A	7STRP	0.0,0.0,0,0,0,0,	Slew =,1.01	2R5	4	1	3,744,687:00:0	
666	96	352	18:13:02.066	117AJ105A106A4B	7STRP	0.011,0.0,0,0,0,	Slew =12.01	2R5	4	1	3,744,688:45:0	
667	96	352	18:13:32.733	117AJ105A106A4C	7STRP	0.0,0.0,0,0,0,0,	Slew =,1.01	2R5	4	1	3,744,689:00:0	
668	96	352	18:15:03.400	117AJ11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,744,690:45:0	
669	96	352	18:15:09.400	165AP4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,744,690:54:0	
670	96	352	18:15:10.066	165AP4B	7SCAN	NORM,238.040998,	Check S/P Position	2R5	4	1	3,744,690:55:0	
671	96	352	18:21:13.400	165AE4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,744,696:54:0	
672	96	352	18:21:14.066	165AE4B	7SCAN	NORM,238.627998,	Check S/P Position	2R5	4	1	3,744,696:55:0	
673	96	352	18:30:42.733	165IG4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,744,705:89:0	
674	96	352	18:30:43.400	165IG4B	7SCAN	NORM,238.181999,	Check S/P Position	2R5	4	1	3,744,705:90:0	
675	96	352	18:31:33.400	175IG422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2R5	4	1	3,744,706:74:0	
676	96	352	18:31:36.733	118IG	**SMOS**	GS		2R5	4	1	3,744,706:79:0	
677	96	352	18:31:40.066		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 2392.36 +/-	2R5	4	1	3,744,706:84:0	
678	96	352	18:31:44.066		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *2398.63 +/-	2R5	4	1	3,744,706:90:0	
679	96	352	18:31:44.066		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 2398.63 +/-	2R5	4	1	3,744,706:90:0	
680	96	352	18:31:45.400	175IG176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R5	4	1	3,744,707:01:0	
681	96	352	18:31:46.733	118IG110A111A4A	7STRP	0.0071,0.0,46,0,	Slew =,3.01	2R5	4	1	3,744,707:03:0	
682	96	352	18:32:17.400	118IG110A111A4B	7STRP	-0.014101,0.0,0,	Slew =,3.01	2R5	4	1	3,744,707:49:0	
683	96	352	18:32:32.733	118IG110A111A4C	7STRP	0.0071,0.0,46,0,	Slew =,3.01	2R5	4	1	3,744,707:72:0	
684	96	352	18:33:03.400	118IG110A111A4D	7STRP	-0.014101,0.0,0,	Slew =,3.01	2R5	4	1	3,744,708:27:0	
685	96	352	18:33:18.733	118IG110A111A4E	7STRP	0.0071,0.0,46,0,	Slew =,3.01	2R5	4	1	3,744,708:50:0	
686	96	352	18:33:49.400	118IG110A111A4F	7STRP	-0.014101,0.0,0,	Slew =,3.01	2R5	4	1	3,744,709:05:0	
687	96	352	18:34:04.733	118IG110A111A4G	7STRP	0.0071,0.0,46,0,	Slew =,3.01	2R5	4	1	3,744,709:28:0	
688	96	352	18:34:35.400	118IG11A	**SMOS**	GE		2R5	4	1	3,744,709:74:0	
689	96	352	18:34:45.400	165IH4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,744,709:89:0	
690	96	352	18:34:46.066	165IH4B	7SCAN	NORM,238.407,-21	Check S/P Position	2R5	4	1	3,744,709:90:0	
691	96	352	18:34:46.733	175IG422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,744,710:00:0	
692	96	352	18:34:46.733		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *3040.82 +/-	2R5	4	1	3,744,710:00:0	
693	96	352	18:35:36.066	175IH422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2R5	4	1	3,744,710:74:0	
694	96	352	18:35:39.400	118IH	**SMOS**	GS		2R5	4	1	3,744,710:79:0	
695	96	352	18:35:42.733		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 3041.73 +/-	2R5	4	1	3,744,710:84:0	
696	96	352	18:35:46.733		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 3048.00 +/-	2R5	4	1	3,744,710:90:0	
697	96	352	18:35:46.733		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *3048.00 +/-	2R5	4	1	3,744,710:90:0	
698	96	352	18:35:48.066	175IH176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R5	4	1	3,744,711:01:0	
699	96	352	18:35:49.400	118IH110A111A4A	7STRP	0.0071,0.0,46,0,	Slew =,3.01	2R5	4	1	3,744,711:03:0	
700	96	352	18:36:04.733	118IH110A111A4B	7STRP	-0.0071,0.0,0,0,	Slew =,3.01	2R5	4	1	3,744,711:26:0	
701	96	352	18:36:20.066	118IH110A111A4C	7STRP	0.0071,0.0,46,0,	Slew =,3.01	2R5	4	1	3,744,711:49:0	
702	96	352	18:36:35.400	118IH11A	**SMOS**	GE		2R5	4	1	3,744,711:72:0	
703	96	352	18:36:46.733	165II4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,744,711:89:0	
704	96	352	18:36:47.400	165II4B	7SCAN	NORM,238.976999,	Check S/P Position	2R5	4	1	3,744,711:90:0	
705	96	352	18:36:48.066		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *3263.63 +/-	2R5	4	1	3,744,712:00:0	
706	96	352	18:36:48.066	175IH422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,744,712:00:0	
707	96	352	18:37:37.400	175II422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2R5	4	1	3,744,712:74:0	
708	96	352	18:37:40.733	118II	**SMOS**	GS		2R5	4	1	3,744,712:79:0	
709	96	352	18:37:44.066		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 3264.54 +/-	2R5	4	1	3,744,712:84:0	
710	96	352	18:37:48.066		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 3270.81 +/-	2R5	4	1	3,744,712:90:0	
711	96	352	18:37:48.066		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *3270.81 +/-	2R5	4	1	3,744,712:90:0	
712	96	352	18:37:49.400	175II176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R5	4	1	3,744,713:01:0	
713	96	352	18:37:50.733	118II110A111A4A	7STRP	-0.00325,-0.0071	Slew =,3.01	2R5	4	1	3,744,713:03:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
714	96	352	18:38:06.066	118II110A111A4B	7STRP	0.00325,0.0071,0	Slew =12.01	2R5	4	1	3,744,713:26:0	
715	96	352	18:38:21.400	118II110A111A4C	7STRP	-0.00325,-0.0071	Slew =,3.01	2R5	4	1	3,744,713:49:0	
716	96	352	18:38:36.733	118II11A	**SMOS**	GE		2R5	4	1	3,744,713:72:0	
717	96	352	18:38:49.400	175II422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,744,714:00:0	
718	96	352	18:38:49.400		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *3486.44 +/-	2R5	4	1	3,744,714:00:0	
719	96	352	18:41:50.066	165CK4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,744,716:89:0	
720	96	352	18:41:50.733	165CK4B	7SCAN	NORM,250.727999,	Check S/P Position	2R5	4	1	3,744,716:90:0	
721	96	352	18:50:34.066	488L6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2R5	4	1	3,744,725:56:0	
722	**96**	**352**	**19:05:10.733**	**E4INCOOLCV01-**		**-----START------**		**2R5**	**4**	**1**	**: :**	
723	96	352	19:06:06.066	165DK4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,744,740:89:0	
724	96	352	19:06:06.733	165DK4B	7SCAN	NORM,251.577999,	Check S/P Position	2R5	4	1	3,744,740:90:0	
725	96	352	19:08:04.066	125DK11A	NIMSINIT	GE	##### GROUP END INIT	2R5	4	1	3,744,742:84:0	
726	96	352	19:08:04.066	125DK	NIMSINIT	GS	##### GROUP START INIT	2R5	4	1	3,744,742:84:0	
727	**96**	**352**	**19:08:04.066**	**125DK4A**	**37IST**	**0,2,0,OFF,0,1,1**	**Gain State 4**	**4R5**	**4**	**1**	**3,744,742:84:0**	
728	96	352	19:09:04.733	127DK	NIMSTAB	GS	%%%%% GROUP START TAB	4R5	4	1	3,744,743:84:0	
729	**96**	**352**	**19:09:04.733**	**127DK4A**	**37IOP**	**7,21**	**Fixed Map, Grating Start Position =21**	**4R7**	**4**	**21**	**3,744,743:84:0**	
730	**96**	**352**	**19:09:05.400**	**127DK4B**	**37ETB**	**07,C7,19,55,5D,0**	**Loads wavelength edit table**	**4R7**	**4**	**21**	**3,744,743:85:0**	
731	96	352	19:09:13.400	127DK11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R7	4	21	3,744,744:06:0	
732	96	352	19:09:50.733	175KB422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	4R7	4	21	3,744,744:62:0	
733	96	352	19:09:57.400		DMS:	: *RUNUP	R28, TRACK 1, FWD, TIC 3487.35 +/-	4R7	4	21	3,744,744:72:0	
734	96	352	19:10:00.733	117DK	**CSMOS**	GS	***** GROUP START CSMOS	4R7	4	21	3,744,744:77:0	
735	96	352	19:10:01.400		DMS:	: *AT_SPD	R28, TRACK 1, FWD, TIC 3488.85 +/-	4R7	4	21	3,744,744:78:0	
736	96	352	19:10:01.400		DMS:	**: *RECORD**	R28, TRACK 1, FWD, TIC *3488.85 +/-	4R7	4	21	3,744,744:78:0	
737	96	352	19:10:02.733	175KB176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	4R7	4	21	3,744,744:80:0	
738	96	352	19:10:04.066		DMS:	**: *RUNDOWN**	R28, TRACK 1, FWD, TIC *3491.20 +/-	4R7	4	21	3,744,744:82:0	
739	96	352	19:10:04.066	175DK422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R7	4	21	3,744,744:82:0	
740	96	352	19:10:05.466		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC *3491.42 +/-	4R7	4	21	3,744,744:84:1	
741	96	352	19:10:06.733	175DK176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	4R7	4	21	3,744,744:86:0	
742	96	352	19:10:06.933		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 3491.53 +/-	4R7	4	21	3,744,744:86:3	
743	96	352	19:10:06.933		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *3491.53 +/-	4R7	4	21	3,744,744:86:3	
744	96	352	19:10:10.066	117DK105A106A4A	7STRP	0.0028,0.0,0,0,0	Slew =,0.76	4R7	4	21	3,744,745:00:0	
745	96	352	19:10:18.733	117DK105A106A4B	7STRP	-0.00261,0.0,0,0	Slew =0,1.4	4R7	4	21	3,744,745:13:0	
746	**96**	**352**	**19:10:23.692**	**E4INCOOLCV01-**	**NIMPBK**	**301DO**	**NIMS IO ECLIPSE OBSERVATION (ING**	**4R7**	**4**	**21**	**: :**	
747	96	352	19:10:24.066	117DK105A106A4C	7STRP	0.0028,0.0,0,0,0	Slew =,0.76	4R7	4	21	3,744,745:21:0	
748	96	352	19:10:32.733	117DK105A106A4D	7STRP	-0.00261,0.0,0,0	Slew =0,1.4	4R7	4	21	3,744,745:34:0	
749	**96**	**352**	**19:10:33.025**	**E4INCOOLCV01-**	**DESELC**	**300DO**	**NIMS IO ECLIPSE OBSERVATION (ING**	**4R7**	**4**	**21**	**: :**	
750	96	352	19:10:38.066	117DK105A106A4E	7STRP	0.0028,0.0,0,0,0	Slew =,0.76	4R7	4	21	3,744,745:42:0	
751	96	352	19:10:46.733	117DK105A106A4F	7STRP	-0.00261,0.0,0,0	Slew =0,1.4	4R7	4	21	3,744,745:55:0	
752	96	352	19:10:52.066	117DK105A106A4G	7STRP	0.0028,0.0,0,0,0	Slew =,0.76	4R7	4	21	3,744,745:63:0	
753	96	352	19:11:00.733	117DK105A106A4H	7STRP	-0.00261,0.0,0,0	Slew =0,1.4	4R7	4	21	3,744,745:76:0	
754	**96**	**352**	**19:11:05.692**	**E4INCOOLCV01-**	**NIMPBK**	**301ED**	**NIMS IO ECLIPSE OBSERVATION (ING**	**4R7**	**4**	**21**	**: :**	
755	96	352	19:11:06.066	117DK105A106A4I	7STRP	0.0028,0.0,0,0,0	Slew =,0.76	4R7	4	21	3,744,745:84:0	
756	96	352	19:11:14.733	117DK105A106A4J	7STRP	-0.00261,0.0,0,0	Slew =0,1.4	4R7	4	21	3,744,746:06:0	
757	**96**	**352**	**19:11:15.025**	**E4INCOOLCV01-**	**DESELC**	**300ED**	**NIMS IO ECLIPSE OBSERVATION (ING**	**4R7**	**4**	**21**	**: :**	
758	96	352	19:11:20.066	117DK105A106A4K	7STRP	0.0028,0.0,0,0,0	Slew =,0.76	4R7	4	21	3,744,746:14:0	
759	96	352	19:11:20.733		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *3508.83 +/-	4R7	4	21	3,744,746:15:0	
760	96	352	19:11:20.733	175DK6A	6TMREC	**NRC**	NO RECORD Record Mode Change	4R7	4	21	3,744,746:15:0	
761	96	352	19:11:20.733	175DK422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R7	4	21	3,744,746:15:0	
762	96	352	19:11:28.733	117DK105A106A4L	7STRP	-0.00261,0.0,0,0	Slew =0,1.4	4R7	4	21	3,744,746:27:0	
763	96	352	19:11:34.066	117DK105A106A4M	7STRP	0.0028,0.0,0,0,0	Slew =,0.76	4R7	4	21	3,744,746:35:0	
764	96	352	19:11:42.733	117DK105A106A4N	7STRP	-0.00261,0.0,0,0	Slew =0,1.4	4R7	4	21	3,744,746:48:0	
765	96	352	19:11:48.066	117DK105A106A4O	7STRP	0.0028,0.0,0,0,0	Slew =,0.76	4R7	4	21	3,744,746:56:0	
766	96	352	19:11:56.733	117DK105A106A4P	7STRP	-0.00261,0.0,0,0	Slew =0,1.4	4R7	4	21	3,744,746:69:0	
767	96	352	19:11:58.733	175FU422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R7	4	21	3,744,746:72:0	
768	96	352	19:12:02.066	117DK105A106A4Q	7STRP	0.0028,0.0,0,0,0	Slew =,0.76	4R7	4	21	3,744,746:77:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
769	96	352	19:12:05.400		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 3508.89 +/-	4R7	4	21	3,744,746:82:0	
770	96	352	19:12:06.866		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *3509.01 +/-	4R7	4	21	3,744,746:84:2	
771	96	352	19:12:06.866		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 3509.01 +/-	4R7	4	21	3,744,746:84:2	
772	96	352	19:12:08.066	175FU176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	4R7	4	21	3,744,746:86:0	
773	96	352	19:12:10.733	117DK105A106A4R	7STRP	-0.00261,0.0,0,0	Slew =0,1.4	4R7	4	21	3,744,746:90:0	
774	**96**	**352**	**19:12:15.692**	**E4INCOOLCV01-**	**NIMPBK**	**301EH**	**NIMS IO ECLIPSE OBSERVATION (ING**	**4R7**	**4**	**21**	**: :**	
775	96	352	19:12:16.066	117DK105A106A4S	7STRP	0.0028,0.0,0,0	Slew =,0.76	4R7	4	21	3,744,747:07:0	
776	96	352	19:12:24.733	117DK105A106A4T	7STRP	-0.00261,0.0,0,0	Slew =0,1.4	4R7	4	21	3,744,747:20:0	
777	**96**	**352**	**19:12:25.025**	**E4INCOOLCV01-**	**DESELC**	**300EH**	**NIMS IO ECLIPSE OBSERVATION (ING**	**4R7**	**4**	**21**	**: :**	
778	96	352	19:12:30.066	117DK105A106A4U	7STRP	0.0028,0.0,0,0	Slew =,0.76	4R7	4	21	3,744,747:28:0	
779	96	352	19:12:38.733	117DK105A106A4V	7STRP	-0.00261,0.0,0,0	Slew =0,1.4	4R7	4	21	3,744,747:41:0	
780	96	352	19:12:44.066	117DK105A106A4W	7STRP	0.0028,0.0,0,0	Slew =,0.76	4R7	4	21	3,744,747:49:0	
781	96	352	19:12:52.733	117DK105A106A4X	7STRP	-0.00261,0.0,0,0	Slew =0,1.4	4R7	4	21	3,744,747:62:0	
782	96	352	19:12:58.066	117DK105A106A4Y	7STRP	0.0028,0.0,0,0	Slew =,0.76	4R7	4	21	3,744,747:70:0	
783	96	352	19:13:06.733	117DK105A106A4Z	7STRP	-0.00261,0.0,0,0	Slew =0,1.4	4R7	4	21	3,744,747:83:0	
784	96	352	19:13:12.066	117DK105A106A4AA	7STRP	0.0028,0.0,0,0	Slew =,0.76	4R7	4	21	3,744,748:00:0	
785	96	352	19:13:20.733	117DK105A106A4AB	7STRP	-0.00261,0.0,0,0	Slew =0,1.4	4R7	4	21	3,744,748:13:0	
786	96	352	19:13:22.066		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *3526.63 +/-	4R7	4	21	3,744,748:15:0	
787	96	352	19:13:22.066	175FU6A	6TMREC	**NRC**	NO RECORD Record Mode Change	4R7	4	21	3,744,748:15:0	
788	96	352	19:13:22.066	175FU422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R7	4	21	3,744,748:15:0	
789	96	352	19:13:26.066	117DK105A106A4AC	7STRP	0.0028,0.0,0,0	Slew =,0.76	4R7	4	21	3,744,748:21:0	
790	96	352	19:13:34.733	117DK105A106A4AD	7STRP	-0.00261,0.0,0,0	Slew =0,1.4	4R7	4	21	3,744,748:34:0	
791	96	352	19:13:40.066	117DK105A106A4AE	7STRP	0.0028,0.0,0,0	Slew =,0.76	4R7	4	21	3,744,748:42:0	
792	96	352	19:13:48.733	117DK105A106A4AF	7STRP	-0.00261,0.0,0,0	Slew =0,1.4	4R7	4	21	3,744,748:55:0	
793	96	352	19:13:54.066	117DK105A106A4AG	7STRP	0.0028,0.0,0,0	Slew =,0.76	4R7	4	21	3,744,748:63:0	
794	96	352	19:14:00.066	175FV422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R7	4	21	3,744,748:72:0	
795	96	352	19:14:02.733	117DK105A106A4AH	7STRP	-0.00261,0.0,0,0	Slew =0,1.4	4R7	4	21	3,744,748:76:0	
796	96	352	19:14:06.733		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 3526.69 +/-	4R7	4	21	3,744,748:82:0	
797	96	352	19:14:08.066	117DK105A106A4AI	7STRP	0.0028,0.0,0,0	Slew =,0.76	4R7	4	21	3,744,748:84:0	
798	96	352	19:14:08.200		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *3526.81 +/-	4R7	4	21	3,744,748:84:2	
799	96	352	19:14:08.200		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 3526.81 +/-	4R7	4	21	3,744,748:84:2	
800	96	352	19:14:09.400	175FV176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	4R7	4	21	3,744,748:86:0	
801	96	352	19:14:16.733	117DK105A106A4AJ	7STRP	-0.00261,0.0,0,0	Slew =0,1.4	4R7	4	21	3,744,749:06:0	
802	**96**	**352**	**19:14:21.692**	**E4INCOOLCV01-**	**NIMPBK**	**301ET**	**NIMS IO ECLIPSE OBSERVATION (ING**	**4R7**	**4**	**21**	**: :**	
803	96	352	19:14:22.066	117DK105A106A4AK	7STRP	0.0028,0.0,0,0	Slew =,0.76	4R7	4	21	3,744,749:14:0	
804	96	352	19:14:30.733	117DK105A106A4AL	7STRP	-0.00261,0.0,0,0	Slew =0,1.4	4R7	4	21	3,744,749:27:0	
805	**96**	**352**	**19:14:31.025**	**E4INCOOLCV01-**	**DESELC**	**300ET**	**NIMS IO ECLIPSE OBSERVATION (ING**	**4R7**	**4**	**21**	**: :**	
806	96	352	19:14:36.066	117DK105A106A4AM	7STRP	0.0028,0.0,0,0	Slew =,0.76	4R7	4	21	3,744,749:35:0	
807	96	352	19:14:44.733	117DK105A106A4AN	7STRP	-0.00261,0.0,0,0	Slew =0,1.4	4R7	4	21	3,744,749:48:0	
808	96	352	19:14:50.066	117DK105A106A4AO	7STRP	0.0028,0.0,0,0	Slew =,0.76	4R7	4	21	3,744,749:56:0	
809	96	352	19:14:58.733	117DK105A106A4AP	7STRP	-0.00261,0.0,0,0	Slew =0,1.4	4R7	4	21	3,744,749:69:0	
810	96	352	19:15:04.066	117DK105A106A4AQ	7STRP	0.0028,0.0,0,0	Slew =,0.76	4R7	4	21	3,744,749:77:0	
811	96	352	19:15:12.733	117DK105A106A4AR	7STRP	-0.00261,0.0,0,0	Slew =0,1.4	4R7	4	21	3,744,749:90:0	
812	96	352	19:15:18.066	117DK105A106A4AS	7STRP	0.0028,0.0,0,0	Slew =,0.76	4R7	4	21	3,744,750:07:0	
813	96	352	19:15:23.400	175FV422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R7	4	21	3,744,750:15:0	
814	96	352	19:15:23.400	175FV6A	6TMREC	**NRC**	NO RECORD Record Mode Change	4R7	4	21	3,744,750:15:0	
815	96	352	19:15:23.400		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *3544.44 +/-	4R7	4	21	3,744,750:15:0	
816	96	352	19:15:26.733	117DK105A106A4AT	7STRP	-0.00261,0.0,0,0	Slew =0,1.4	4R7	4	21	3,744,750:20:0	
817	96	352	19:15:30.066	175FZ422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R7	4	21	3,744,750:25:0	
818	96	352	19:15:32.066	117DK105A106A4AU	7STRP	0.0028,0.0,0,0	Slew =,0.76	4R7	4	21	3,744,750:28:0	
819	96	352	19:15:36.733		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 3544.50 +/-	4R7	4	21	3,744,750:35:0	
820	96	352	19:15:38.200		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 3544.62 +/-	4R7	4	21	3,744,750:37:2	
821	96	352	19:15:38.200		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *3544.62 +/-	4R7	4	21	3,744,750:37:2	
822	96	352	19:15:39.400	175FZ176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	4R7	4	21	3,744,750:39:0	
823	96	352	19:15:40.733	117DK105A106A4AV	7STRP	-0.00261,0.0,0,0	Slew =0,1.4	4R7	4	21	3,744,750:41:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
824	96	352	19:15:46.066	117DK105A106A4AW	7STRP	0.0028,0.0,0,0,0	Slew =,0.76	4R7	4	21	3,744,750:49:0	
825	96	352	19:15:54.733	117DK105A106A4AX	7STRP	-0.00261,0.0,0,0	Slew =0,1.4	4R7	4	21	3,744,750:62:0	
826	96	352	19:16:00.066	117DK105A106A4AY	7STRP	0.0028,0.0,0,0,0	Slew =,0.76	4R7	4	21	3,744,750:70:0	
827	96	352	19:16:08.733	117DK105A106A4AZ	7STRP	-0.00261,0.0,0,0	Slew =0,1.4	4R7	4	21	3,744,750:83:0	
828	**96**	**352**	**19:16:13.692**	**E4INCOOLCV01-**	**NIMPBK**	**301FF**	**NIMS IO ECLIPSE OBSERVATION (ING**	**4R7**	**4**	**21**	**: :**	
829	96	352	19:16:14.066	117DK105A106A4BA	7STRP	0.0028,0.0,0,0,0	Slew =,0.76	4R7	4	21	3,744,751:00:0	
830	96	352	19:16:22.733	117DK105A106A4BB	7STRP	-0.00261,0.0,0,0	Slew =0,1.4	4R7	4	21	3,744,751:13:0	
831	**96**	**352**	**19:16:23.025**	**E4INCOOLCV01-**	**DESELC**	**300FF**	**NIMS IO ECLIPSE OBSERVATION (ING**	**4R7**	**4**	**21**	**: :**	
832	96	352	19:16:28.066	117DK105A106A4BC	7STRP	0.0028,0.0,0,0,0	Slew =,0.76	4R7	4	21	3,744,751:21:0	
833	96	352	19:16:36.733	117DK11A	**CSMOS**	GE	***** GROUP END CSMOS	4R7	4	21	3,744,751:34:0	
834	96	352	19:16:53.400	175FZ422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R7	4	21	3,744,751:59:0	
835	96	352	19:16:53.400	175FZ6A	6TMREC	**NRC**	NO RECORD Record Mode Change	4R7	4	21	3,744,751:59:0	
836	96	352	19:16:53.400		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *3562.24 +/-	4R7	4	21	3,744,751:59:0	
837	**96**	**352**	**19:19:20.066**	**E4INCOOLCV01-**		**-----STOP-------**		**4R7**	**4**	**21**	**: :**	
838	96	352	19:26:19.400	165CL4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R7	4	21	3,744,760:89:0	
839	96	352	19:26:20.066	165CL4B	7SCAN	NORM,253.004999,	Check S/P Position	4R7	4	21	3,744,760:90:0	
840	96	352	19:44:31.400	165IJ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R7	4	21	3,744,778:89:0	
841	96	352	19:44:32.066	165IJ4B	7SCAN	NORM,253.594,-24	Check S/P Position	4R7	4	21	3,744,778:90:0	
842	96	352	19:45:32.066	165IJ4C	7VECT		Inert vect update UTC	4R7	4	21	3,744,779:89:0	
843	96	352	19:45:32.733	165IJ4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	4R7	4	21	3,744,779:90:0	
844	96	352	19:45:37.400	118IJ	**SMOS**	GS		4R7	4	21	3,744,780:06:0	
845	96	352	19:45:54.066	118IJ110A111A4A	7STRP	-0.0031,0.0,92,0	Slew =,2.01	4R7	4	21	3,744,780:31:0	
846	96	352	19:46:24.733	175IJ422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	4R7	4	21	3,744,780:77:0	
847	96	352	19:46:24.733	118IJ11A	**SMOS**	GE		4R7	4	21	3,744,780:77:0	
848	96	352	19:46:31.400		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 3562.30 +/-	4R7	4	21	3,744,780:87:0	
849	96	352	19:46:35.400		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 3568.57 +/-	4R7	4	21	3,744,781:02:0	
850	96	352	19:46:35.400		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *3568.57 +/-	4R7	4	21	3,744,781:02:0	
851	96	352	19:46:36.733	175IJ176A6A	6TMREC	HMA	115.2 KBPS IMAGE(1-400)RECORD Record Mode	4R7	4	21	3,744,781:04:0	
852	96	352	19:47:04.733		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *3671.70 +/-	4R7	4	21	3,744,781:46:0	
853	96	352	19:47:04.733	175IJ422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R7	4	21	3,744,781:46:0	
854	96	352	19:47:33.400	118IK	**SMOS**	GS		4R7	4	21	3,744,781:89:0	
855	96	352	19:47:43.400	118IK110A111A4A	7STRP	0.0031,0.0,46,0,	Slew =,2.01	4R7	4	21	3,744,782:13:0	
856	96	352	19:47:58.733	118IK110A111A4B	7STRP	-0.0031,-0.0031,	Slew =,3.01	4R7	4	21	3,744,782:36:0	
857	96	352	19:48:14.066	118IK110A111A4C	7STRP	0.0031,0.0,46,0,	Slew =,2.01	4R7	4	21	3,744,782:59:0	
858	96	352	19:48:24.066	175JG422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	4R7	4	21	3,744,782:74:0	
859	96	352	19:48:29.400	118IK11A	**SMOS**	GE		4R7	4	21	3,744,782:82:0	
860	96	352	19:48:30.733		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 3672.61 +/-	4R7	4	21	3,744,782:84:0	
861	96	352	19:48:34.733		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *3678.88 +/-	4R7	4	21	3,744,782:90:0	
862	96	352	19:48:34.733		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 3678.88 +/-	4R7	4	21	3,744,782:90:0	
863	96	352	19:48:36.066	175JG176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	4R7	4	21	3,744,783:01:0	
864	96	352	19:48:50.733	175JG422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R7	4	21	3,744,783:23:0	
865	96	352	19:48:50.733		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *3735.13 +/-	4R7	4	21	3,744,783:23:0	
866	**96**	**352**	**20:14:56.733**	**E4INRTIMON01-**		**-----START------**		**4R7**	**4**	**21**	**: :**	
867	96	352	20:15:52.066	165FR4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R7	4	21	3,744,809:89:0	
868	96	352	20:15:52.733	165FR4B	7SCAN	NORM,255.353998,	Check S/P Position	4R7	4	21	3,744,809:90:0	
869	96	352	20:16:49.400	125FR	NIMSINIT	GS	##### GROUP START INIT	4R7	4	21	3,744,810:84:0	
870	**96**	**352**	**20:16:49.400**	**125FR4A**	**37IST**	**0,0,0,OFF,0,1,0**	**Gain State 2**	**2R7**	**4**	**21**	**3,744,810:84:0**	
871	96	352	20:17:50.066	125FR11A	NIMSINIT	GE	##### GROUP END INIT	2R7	4	21	3,744,811:84:0	
872	**96**	**352**	**20:17:50.066**	**125FR4B**	**37MB**	**1C,07,0,0,0,0**	**Selects mirror (spatial) edit table**	**2R7**	**4**	**21**	**3,744,811:84:0**	
873	**96**	**352**	**20:18:50.733**	**127FR4A**	**37IOP**	**7,21**	**Fixed Map, Grating Start Position =21**	**2R7**	**4**	**21**	**3,744,812:84:0**	
874	96	352	20:18:50.733	127FR	NIMSTAB	GS	%%%%% GROUP START TAB	2R7	4	21	3,744,812:84:0	
875	**96**	**352**	**20:18:51.400**	**127FR4B**	**37ETB**	**07,C7,19,2A,95,0**	**Loads wavelength edit table**	**2R7**	**4**	**21**	**3,744,812:85:0**	
876	96	352	20:18:59.400	127FR11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R7	4	21	3,744,813:06:0	
877	**96**	**352**	**20:19:15.400**	**432DA6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**	**NIMS R/T SELECT**	**2R7**	**4**	**21**	**3,744,813:30:0**	
878	96	352	20:19:46.733	117FR	**CSMOS**	GS	***** GROUP START CSMOS	2R7	4	21	3,744,813:77:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
879	96	352	20:19:56.066	117FR105A106A4A	7STRP	-0.002,0.0,0,0,0	Slew =,0.76	2R7	4	21	3,744,814:00:0	
880	96	352	20:20:02.733	117FR11A	**CSMOS**	GE	***** GROUP END CSMOS	2R7	4	21	3,744,814:10:0	
881	**96**	**352**	**20:20:14.733**	**432DB6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**2R7**	**4**	**21**	**3,744,814:28:0**	
882	**96**	**352**	**20:22:53.400**	**125FU4A**	**37MB**	**0,0,0,0,0,0**	**Selects mirror (spatial) edit table**	**2R7**	**4**	**21**	**3,744,816:84:0**	
883	96	352	20:22:53.400	125FU11A	NIMSINIT	GE	##### GROUP END INIT	2R7	4	21	3,744,816:84:0	
884	96	352	20:22:53.400	125FU	NIMSINIT	GS	##### GROUP START INIT	2R7	4	21	3,744,816:84:0	
885	**96**	**352**	**20:23:02.066**	**E4INRTIMON01-**		**-----STOP-------**		**2R7**	**4**	**21**	**: :**	
886	96	352	20:41:30.066	488L6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2R7	4	21	3,744,835:30:0	
887	96	352	20:59:20.733	165CM4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R7	4	21	3,744,852:89:0	
888	96	352	20:59:21.400	165CM4B	7SCAN	NORM,257.870998,	Check S/P Position	2R7	4	21	3,744,852:90:0	
889	96	352	21:17:32.733	165HB4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R7	4	21	3,744,870:89:0	
890	96	352	21:17:33.400	165HB4B	7SCAN	NORM,258.429996,	Check S/P Position	2R7	4	21	3,744,870:90:0	
891	96	352	21:18:25.400	117HB	**CSMOS**	GS	***** GROUP START CSMOS	2R7	4	21	3,744,871:77:0	
892	96	352	21:18:34.733	117HB105A106A4A	7STRP	-0.0014,0.0,0,0,	Slew =,0.03	2R7	4	21	3,744,872:00:0	
893	96	352	21:18:34.733	176HB6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R7	4	21	3,744,872:00:0	
894	96	352	21:19:24.066	117HB105A106A4B	7STRP	0.0019,-0.0005,0	Slew =,1.31	2R7	4	21	3,744,872:74:0	
895	96	352	21:19:29.400	117HB105A106A4C	7STRP	-0.0014,0.0,0,0,	Slew =,0.03	2R7	4	21	3,744,872:82:0	
896	96	352	21:20:18.733	117HB105A106A4D	7STRP	0.0019,-0.0005,0	Slew =,1.31	2R7	4	21	3,744,873:65:0	
897	96	352	21:20:24.066	117HB105A106A4E	7STRP	-0.0014,0.0,0,0,	Slew =,0.03	2R7	4	21	3,744,873:73:0	
898	96	352	21:21:13.400	176HB6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R7	4	21	3,744,874:56:0	
899	96	352	21:21:13.400	117HB11A	**CSMOS**	GE	***** GROUP END CSMOS	2R7	4	21	3,744,874:56:0	
900	96	352	21:21:22.066		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 3736.05 +/-	2R7	4	21	3,744,874:69:0	
901	96	352	21:21:23.533		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC *3736.16 +/-	2R7	4	21	3,744,874:71:2	
902	96	352	21:21:25.400		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *3736.60 +/-	2R7	4	21	3,744,874:74:0	
903	96	352	21:21:34.733		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *3738.79 +/-	2R7	4	21	3,744,874:88:0	
904	**96**	**352**	**21:22:41.400**	**E4INWARMCV01-**		**-----START------**		**2R7**	**4**	**21**	**: :**	
905	96	352	21:23:36.733	165DL4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R7	4	21	3,744,876:89:0	
906	96	352	21:23:37.400	165DL4B	7SCAN	NORM,258.742996,	Check S/P Position	2R7	4	21	3,744,876:90:0	
907	96	352	21:25:34.733	125DL	NIMSINIT	GS	##### GROUP START INIT	2R7	4	21	3,744,878:84:0	
908	**96**	**352**	**21:25:34.733**	**125DL4A**	**37IST**	**0,2,0,OFF,0,1,0**	**Gain State 2**	**2R7**	**4**	**21**	**3,744,878:84:0**	
909	96	352	21:25:34.733	125DL11A	NIMSINIT	GE	##### GROUP END INIT	2R7	4	21	3,744,878:84:0	
910	96	352	21:26:35.400	127DL	NIMSTAB	GS	%%%%% GROUP START TAB	2R7	4	21	3,744,879:84:0	
911	**96**	**352**	**21:26:35.400**	**127DL4A**	**37IOP**	**7,21**	**Fixed Map, Grating Start Position =21**	**2R7**	**4**	**21**	**3,744,879:84:0**	
912	**96**	**352**	**21:26:36.066**	**127DL4B**	**37ETB**	**07,C7,19,55,5D,0**	**Loads wavelength edit table**	**2R7**	**4**	**21**	**3,744,879:85:0**	
913	96	352	21:26:44.066	127DL11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R7	4	21	3,744,880:06:0	
914	96	352	21:27:21.400	175KD422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	2R7	4	21	3,744,880:62:0	
915	96	352	21:27:28.066		DMS:	: *RUNUP	R28, TRACK 1, FWD, TIC 3738.85 +/-	2R7	4	21	3,744,880:72:0	
916	96	352	21:27:31.400	117DL	**CSMOS**	GS	***** GROUP START CSMOS	2R7	4	21	3,744,880:77:0	
917	96	352	21:27:32.066		DMS:	**: *RECORD**	R28, TRACK 1, FWD, TIC *3740.35 +/-	2R7	4	21	3,744,880:78:0	
918	96	352	21:27:32.066		DMS:	: *AT_SPD	R28, TRACK 1, FWD, TIC 3740.35 +/-	2R7	4	21	3,744,880:78:0	
919	96	352	21:27:33.400	175KD176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	2R7	4	21	3,744,880:80:0	
920	96	352	21:27:34.733		DMS:	**: *RUNDOWN**	R28, TRACK 1, FWD, TIC *3742.69 +/-	2R7	4	21	3,744,880:82:0	
921	96	352	21:27:34.733	175DL422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R7	4	21	3,744,880:82:0	
922	96	352	21:27:36.133		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC *3742.91 +/-	2R7	4	21	3,744,880:84:1	
923	96	352	21:27:37.400	175DL176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R7	4	21	3,744,880:86:0	
924	96	352	21:27:37.600		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *3743.03 +/-	2R7	4	21	3,744,880:86:3	
925	96	352	21:27:37.600		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 3743.03 +/-	2R7	4	21	3,744,880:86:3	
926	96	352	21:27:40.733	117DL105A106A4A	7STRP	0.0035,0.0,0,0,0	Slew =,0.76	2R7	4	21	3,744,881:00:0	
927	96	352	21:27:50.733	117DL105A106A4B	7STRP	-0.0033,0.0,0,0,	Slew =0,1.4	2R7	4	21	3,744,881:15:0	
928	**96**	**352**	**21:27:57.020**	**E4INWARMCV01-**	**NIMPBK**	**301DQ**	**NIMS IO ECLIPSE OBSERVATION (EGR**	**2R7**	**4**	**21**	**: :**	
929	96	352	21:27:57.400	117DL105A106A4C	7STRP	0.0035,0.0,0,0,0	Slew =,0.76	2R7	4	21	3,744,881:25:0	
930	96	352	21:28:07.400	117DL105A106A4D	7STRP	-0.0033,0.0,0,0,	Slew =0,1.4	2R7	4	21	3,744,881:40:0	
931	**96**	**352**	**21:28:07.687**	**E4INWARMCV01-**	**DESELC**	**300DQ**	**NIMS IO ECLIPSE OBSERVATION (EGR**	**2R7**	**4**	**21**	**: :**	
932	96	352	21:28:14.066	117DL105A106A4E	7STRP	0.0035,0.0,0,0,0	Slew =,0.76	2R7	4	21	3,744,881:50:0	
933	96	352	21:28:24.066	117DL105A106A4F	7STRP	-0.0033,0.0,0,0,	Slew =0,1.4	2R7	4	21	3,744,881:65:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
934	96	352	21:28:30.733	117DL105A106A4G	7STRP	0.0035,0.0,0,0,0	Slew =,0.76	2R7	4	21	3,744,881:75:0	
935	96	352	21:28:40.733	117DL105A106A4H	7STRP	-0.0033,0.0,0,0,	Slew =0,1.4	2R7	4	21	3,744,881:90:0	
936	**96**	**352**	**21:28:47.020**	**E4INWARMCV01-**	**NIMPBK**	**301ER**	**NIMS IO ECLIPSE OBSERVATION (EGR**	**2R7**	**4**	**21**	**: :**	
937	96	352	21:28:47.400	117DL105A106A4I	7STRP	0.0035,0.0,0,0,0	Slew =,0.76	2R7	4	21	3,744,882:09:0	
938	96	352	21:28:57.400	117DL105A106A4J	7STRP	-0.0033,0.0,0,0,	Slew =0,1.4	2R7	4	21	3,744,882:24:0	
939	**96**	**352**	**21:28:57.687**	**E4INWARMCV01-**	**DESELC**	**300ER**	**NIMS IO ECLIPSE OBSERVATION (EGR**	**2R7**	**4**	**21**	**: :**	
940	96	352	21:29:04.066	117DL105A106A4K	7STRP	0.0035,0.0,0,0,0	Slew =,0.76	2R7	4	21	3,744,882:34:0	
941	96	352	21:29:14.066	117DL105A106A4L	7STRP	-0.0033,0.0,0,0,	Slew =0,1.4	2R7	4	21	3,744,882:49:0	
942	96	352	21:29:20.733	117DL105A106A4M	7STRP	0.0035,0.0,0,0,0	Slew =,0.76	2R7	4	21	3,744,882:59:0	
943	96	352	21:29:30.733	117DL105A106A4N	7STRP	-0.0033,0.0,0,0,	Slew =0,1.4	2R7	4	21	3,744,882:74:0	
944	**96**	**352**	**21:29:37.020**	**E4INWARMCV01-**	**NIMPBK**	**301EZ**	**NIMS IO ECLIPSE OBSERVATION (EGR**	**2R7**	**4**	**21**	**: :**	
945	96	352	21:29:37.400	117DL105A106A4O	7STRP	0.0035,0.0,0,0,0	Slew =,0.76	2R7	4	21	3,744,882:84:0	
946	96	352	21:29:47.400	117DL105A106A4P	7STRP	-0.0033,0.0,0,0,	Slew =0,1.4	2R7	4	21	3,744,883:08:0	
947	**96**	**352**	**21:29:47.687**	**E4INWARMCV01-**	**DESELC**	**300EZ**	**NIMS IO ECLIPSE OBSERVATION (EGR**	**2R7**	**4**	**21**	**: :**	
948	96	352	21:29:54.066	117DL105A106A4Q	7STRP	0.0035,0.0,0,0,0	Slew =,0.76	2R7	4	21	3,744,883:18:0	
949	96	352	21:30:00.066	488M6A	6TMSED	NORM,EL4	Sci, Eng, and D/L Chan	2R7	4	21	3,744,883:27:0	
950	96	352	21:30:04.066	117DL105A106A4R	7STRP	-0.0033,0.0,0,0,	Slew =0,1.4	2R7	4	21	3,744,883:33:0	
951	96	352	21:30:10.733	117DL105A106A4S	7STRP	0.0035,0.0,0,0,0	Slew =,0.76	2R7	4	21	3,744,883:43:0	
952	96	352	21:30:20.733	117DL105A106A4T	7STRP	-0.0033,0.0,0,0,	Slew =0,1.4	2R7	4	21	3,744,883:58:0	
953	**96**	**352**	**21:30:27.020**	**E4INWARMCV01-**	**NIMPBK**	**301FV**	**NIMS IO ECLIPSE OBSERVATION (EGR**	**2R7**	**4**	**21**	**: :**	
954	96	352	21:30:27.400	117DL105A106A4U	7STRP	0.0035,0.0,0,0,0	Slew =,0.76	2R7	4	21	3,744,883:68:0	
955	96	352	21:30:34.066	488M6B	6TMSED	NORM,EL5	Sci, Eng, and D/L Chan	2R7	4	21	3,744,883:78:0	
956	96	352	21:30:37.400	117DL105A106A4V	7STRP	-0.0033,0.0,0,0,	Slew =0,1.4	2R7	4	21	3,744,883:83:0	
957	**96**	**352**	**21:30:37.687**	**E4INWARMCV01-**	**DESELC**	**300FV**	**NIMS IO ECLIPSE OBSERVATION (EGR**	**2R7**	**4**	**21**	**: :**	
958	96	352	21:30:44.066	117DL105A106A4W	7STRP	0.0035,0.0,0,0,0	Slew =,0.76	2R7	4	21	3,744,884:02:0	
959	96	352	21:30:54.066	117DL105A106A4X	7STRP	-0.0033,0.0,0,0,	Slew =0,1.4	2R7	4	21	3,744,884:17:0	
960	96	352	21:31:00.733	117DL105A106A4Y	7STRP	0.0035,0.0,0,0,0	Slew =,0.76	2R7	4	21	3,744,884:27:0	
961	96	352	21:31:10.733	117DL105A106A4Z	7STRP	-0.0033,0.0,0,0,	Slew =0,1.4	2R7	4	21	3,744,884:42:0	
962	96	352	21:31:17.400	117DL105A106A4AA	7STRP	0.0035,0.0,0,0,0	Slew =,0.76	2R7	4	21	3,744,884:52:0	
963	96	352	21:31:27.400	117DL105A106A4AB	7STRP	-0.0033,0.0,0,0,	Slew =0,1.4	2R7	4	21	3,744,884:67:0	
964	**96**	**352**	**21:31:33.687**	**E4INWARMCV01-**	**NIMPBK**	**301DZ**	**NIMS IO ECLIPSE OBSERVATION (EGR**	**2R7**	**4**	**21**	**: :**	
965	96	352	21:31:34.066	117DL105A106A4AC	7STRP	0.0035,0.0,0,0,0	Slew =,0.76	2R7	4	21	3,744,884:77:0	
966	96	352	21:31:44.066	117DL105A106A4AD	7STRP	-0.0033,0.0,0,0,	Slew =0,1.4	2R7	4	21	3,744,885:01:0	
967	**96**	**352**	**21:31:44.354**	**E4INWARMCV01-**	**DESELC**	**300DZ**	**NIMS IO ECLIPSE OBSERVATION (EGR**	**2R7**	**4**	**21**	**: :**	
968	96	352	21:31:50.733	117DL105A106A4AE	7STRP	0.0035,0.0,0,0,0	Slew =,0.76	2R7	4	21	3,744,885:11:0	
969	96	352	21:32:00.733	117DL105A106A4AF	7STRP	-0.0033,0.0,0,0,	Slew =0,1.4	2R7	4	21	3,744,885:26:0	
970	96	352	21:32:07.400	117DL105A106A4AG	7STRP	0.0035,0.0,0,0,0	Slew =,0.76	2R7	4	21	3,744,885:36:0	
971	96	352	21:32:17.400	117DL105A106A4AH	7STRP	-0.0033,0.0,0,0,	Slew =0,1.4	2R7	4	21	3,744,885:51:0	
972	96	352	21:32:24.066	117DL105A106A4AI	7STRP	0.0035,0.0,0,0,0	Slew =,0.76	2R7	4	21	3,744,885:61:0	
973	96	352	21:32:34.066	117DL105A106A4AJ	7STRP	-0.0033,0.0,0,0,	Slew =0,1.4	2R7	4	21	3,744,885:76:0	
974	96	352	21:32:40.733	117DL105A106A4AK	7STRP	0.0035,0.0,0,0,0	Slew =,0.76	2R7	4	21	3,744,885:86:0	
975	96	352	21:32:50.733	117DL105A106A4AL	7STRP	-0.0033,0.0,0,0,	Slew =0,1.4	2R7	4	21	3,744,886:10:0	
976	96	352	21:32:57.400	117DL105A106A4AM	7STRP	0.0035,0.0,0,0,0	Slew =,0.76	2R7	4	21	3,744,886:20:0	
977	96	352	21:33:07.400	117DL105A106A4AN	7STRP	-0.0033,0.0,0,0,	Slew =0,1.4	2R7	4	21	3,744,886:35:0	
978	96	352	21:33:14.066	117DL105A106A4AO	7STRP	0.0035,0.0,0,0,0	Slew =,0.76	2R7	4	21	3,744,886:45:0	
979	96	352	21:33:24.066	117DL105A106A4AP	7STRP	-0.0033,0.0,0,0,	Slew =0,1.4	2R7	4	21	3,744,886:60:0	
980	96	352	21:33:30.733	117DL105A106A4AQ	7STRP	0.0035,0.0,0,0,0	Slew =,0.76	2R7	4	21	3,744,886:70:0	
981	96	352	21:33:40.733	117DL105A106A4AR	7STRP	-0.0033,0.0,0,0,	Slew =0,1.4	2R7	4	21	3,744,886:85:0	
982	**96**	**352**	**21:33:47.020**	**E4INWARMCV01-**	**NIMPBK**	**301FT**	**NIMS IO ECLIPSE OBSERVATION (EGR**	**2R7**	**4**	**21**	**: :**	
983	96	352	21:33:47.400	117DL105A106A4AS	7STRP	0.0035,0.0,0,0,0	Slew =,0.76	2R7	4	21	3,744,887:04:0	
984	96	352	21:33:57.400	117DL105A106A4AT	7STRP	-0.0033,0.0,0,0,	Slew =0,1.4	2R7	4	21	3,744,887:19:0	
985	**96**	**352**	**21:33:57.687**	**E4INWARMCV01-**	**DESELC**	**300FT**	**NIMS IO ECLIPSE OBSERVATION (EGR**	**2R7**	**4**	**21**	**: :**	
986	96	352	21:33:59.400		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *3832.51 +/-	2R7	4	21	3,744,887:22:0	
987	96	352	21:33:59.400	175DL422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R7	4	21	3,744,887:22:0	
988	96	352	21:33:59.400	175DL6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R7	4	21	3,744,887:22:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
989	96	352	21:34:04.066	117DL105A106A4AU	7STRP	0.0035,0.0,0,0,0	Slew =,0.76	2R7	4	21	3,744,887:29:0	
990	96	352	21:34:14.066	117DL11A	**CSMOS**	GE	***** GROUP END CSMOS	2R7	4	21	3,744,887:44:0	
991	**96**	**352**	**21:36:50.733**	**E4INWARMCV01-**		**-----STOP-------**		**2R7**	**4**	**21**	**: :**	
992	96	352	21:43:50.066	165CN4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R7	4	21	3,744,896:89:0	
993	96	352	21:43:50.733	165CN4B	7SCAN	NORM,260.217999,	Check S/P Position	2R7	4	21	3,744,896:90:0	
994	**96**	**352**	**22:01:06.733**	**E4INWARMCV02-**		**-----START------**		**2R7**	**4**	**21**	**: :**	
995	96	352	22:01:58.733	127DM	NIMSTAB	GS	%%%%% GROUP START TAB	2R7	4	21	3,744,914:84:0	
996	**96**	**352**	**22:01:58.733**	**127DM4A**	**37IOP**	**7,21**	**Fixed Map, Grating Start Position =21**	**2R7**	**4**	**21**	**3,744,914:84:0**	
997	**96**	**352**	**22:01:59.400**	**127DM4B**	**37ETB**	**07,C7,19,55,5D,0**	**Loads wavelength edit table**	**2R7**	**4**	**21**	**3,744,914:85:0**	
998	96	352	22:02:02.066	165DM4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R7	4	21	3,744,914:89:0	
999	96	352	22:02:02.733	165DM4B	7SCAN	NORM,260.574997,	Check S/P Position	2R7	4	21	3,744,914:90:0	
1000	96	352	22:02:06.733	175KE422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	2R7	4	21	3,744,915:05:0	
1001	96	352	22:02:07.400	117DM	**CSMOS**	GS	***** GROUP START CSMOS	2R7	4	21	3,744,915:06:0	
1002	96	352	22:02:07.400	127DM11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R7	4	21	3,744,915:06:0	
1003	96	352	22:02:13.400		DMS:	: *RUNUP	R28, TRACK 1, FWD, TIC 3832.57 +/-	2R7	4	21	3,744,915:15:0	
1004	96	352	22:02:17.400		DMS:	**: *RECORD**	R28, TRACK 1, FWD, TIC *3834.07 +/-	2R7	4	21	3,744,915:21:0	
1005	96	352	22:02:17.400		DMS:	: *AT_SPD	R28, TRACK 1, FWD, TIC 3834.07 +/-	2R7	4	21	3,744,915:21:0	
1006	96	352	22:02:18.733	175KE176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	2R7	4	21	3,744,915:23:0	
1007	96	352	22:02:20.066	175DM422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R7	4	21	3,744,915:25:0	
1008	96	352	22:02:20.066		DMS:	**: *RUNDOWN**	R28, TRACK 1, FWD, TIC *3836.42 +/-	2R7	4	21	3,744,915:25:0	
1009	96	352	22:02:21.466		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC *3836.64 +/-	2R7	4	21	3,744,915:27:1	
1010	96	352	22:02:22.733	175DM176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R7	4	21	3,744,915:29:0	
1011	96	352	22:02:22.933		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 3836.76 +/-	2R7	4	21	3,744,915:29:3	
1012	96	352	22:02:22.933		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *3836.76 +/-	2R7	4	21	3,744,915:29:3	
1013	96	352	22:02:23.400	117DM105A106A4A	7STRP	0.003,0.0,0,0,0,	Slew =,0.76	2R7	4	21	3,744,915:30:0	
1014	96	352	22:02:32.733	117DM105A106A4B	7STRP	-0.00275,0.0,0,0	Slew =0,1.4	2R7	4	21	3,744,915:44:0	
1015	**96**	**352**	**22:02:36.353**	**E4INWARMCV02-**	**NIMPBK**	**301DR**	**NIMS IO ECLIPSE OBS. (POST-EGRES**	**2R7**	**4**	**21**	**: :**	
1016	96	352	22:02:38.066	117DM105A106A4C	7STRP	0.003,0.0,0,0,0,	Slew =,0.76	2R7	4	21	3,744,915:52:0	
1017	**96**	**352**	**22:02:47.019**	**E4INWARMCV02-**	**DESELC**	**300DR**	**NIMS IO ECLIPSE OBS. (POST-EGRES**	**2R7**	**4**	**21**	**: :**	
1018	96	352	22:02:47.400	117DM105A106A4D	7STRP	-0.00275,0.0,0,0	Slew =0,1.4	2R7	4	21	3,744,915:66:0	
1019	96	352	22:02:52.733	117DM105A106A4E	7STRP	0.003,0.0,0,0,0,	Slew =,0.76	2R7	4	21	3,744,915:74:0	
1020	96	352	22:03:02.066	117DM105A106A4F	7STRP	-0.00275,0.0,0,0	Slew =0,1.4	2R7	4	21	3,744,915:88:0	
1021	**96**	**352**	**22:03:05.686**	**E4INWARMCV02-**	**NIMPBK**	**301LY**	**NIMS IO ECLIPSE OBS. (POST-EGRES**	**2R7**	**4**	**21**	**: :**	
1022	96	352	22:03:07.400	117DM105A106A4G	7STRP	0.003,0.0,0,0,0,	Slew =,0.76	2R7	4	21	3,744,916:05:0	
1023	**96**	**352**	**22:03:16.352**	**E4INWARMCV02-**	**DESELC**	**300LY**	**NIMS IO ECLIPSE OBS. (POST-EGRES**	**2R7**	**4**	**21**	**: :**	
1024	96	352	22:03:16.733	117DM105A106A4H	7STRP	-0.00275,0.0,0,0	Slew =0,1.4	2R7	4	21	3,744,916:19:0	
1025	96	352	22:03:22.066	117DM105A106A4I	7STRP	0.003,0.0,0,0,0,	Slew =,0.76	2R7	4	21	3,744,916:27:0	
1026	96	352	22:03:31.400	117DM11A	**CSMOS**	GE	***** GROUP END CSMOS	2R7	4	21	3,744,916:41:0	
1027	96	352	22:03:36.733		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *3854.05 +/-	2R7	4	21	3,744,916:49:0	
1028	96	352	22:03:36.733	175DM422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R7	4	21	3,744,916:49:0	
1029	96	352	22:03:36.733	175DM6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R7	4	21	3,744,916:49:0	
1030	**96**	**352**	**22:04:08.733**	**E4INWARMCV02-**		**-----STOP-------**		**2R7**	**4**	**21**	**: :**	
1031	96	352	22:18:12.733	165IL4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R7	4	21	3,744,930:89:0	
1032	96	352	22:18:13.400	165IL4B	7SCAN	NORM,261.848,-25	Check S/P Position	2R7	4	21	3,744,930:90:0	
1033	96	352	22:22:10.733	118IL	**SMOS**	GS		2R7	4	21	3,744,934:82:0	
1034	96	352	22:22:20.733	118IL110A111A4A	7STRP	-0.0033,0.0,92,0	Slew =,3.01	2R7	4	21	3,744,935:06:0	
1035	96	352	22:22:38.066	175IK422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2R7	4	21	3,744,935:32:0	
1036	96	352	22:22:44.733		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 3854.11 +/-	2R7	4	21	3,744,935:42:0	
1037	96	352	22:22:48.733		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 3860.38 +/-	2R7	4	21	3,744,935:48:0	
1038	96	352	22:22:48.733		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *3860.38 +/-	2R7	4	21	3,744,935:48:0	
1039	96	352	22:22:50.066	175IK176A6A	6TMREC	HMA	115.2 KBPS IMAGE(1-400)RECORD Record Mode	2R7	4	21	3,744,935:50:0	
1040	96	352	22:22:51.400	118IL110A111A4B	7STRP	0.00415,0.0,0,0,	Slew =0,5.0	2R7	4	21	3,744,935:52:0	
1041	96	352	22:23:17.400		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *3961.16 +/-	2R7	4	21	3,744,936:00:0	
1042	96	352	22:23:17.400	175IK422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R7	4	21	3,744,936:00:0	
1043	96	352	22:23:22.066	118IL110A111A4C	7STRP	-0.0033,0.0,92,0	Slew =,3.01	2R7	4	21	3,744,936:07:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1044	96	352	22:23:38.733	175JE422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2R7	4	21	3,744,936:32:0	
1045	96	352	22:23:45.400		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 3962.08 +/-	2R7	4	21	3,744,936:42:0	
1046	96	352	22:23:49.400		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *3968.35 +/-	2R7	4	21	3,744,936:48:0	
1047	96	352	22:23:49.400		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 3968.35 +/- 1	2R7	4	21	3,744,936:48:0	
1048	96	352	22:23:50.733	175JE176A6A	6TMREC	HMA	115.2 KBPS IMAGE(1-400)RECORD Record Mode	2R7	4	21	3,744,936:50:0	
1049	96	352	22:23:52.733	118IL11A	**SMOS**	GE		2R7	4	21	3,744,936:53:0	
1050	96	352	22:24:18.066	175JE422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R7	4	21	3,744,937:00:0	
1051	96	352	22:24:18.066		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *4069.13 +/- 1	2R7	4	21	3,744,937:00:0	
1052	96	352	22:29:23.400	488M6C	6TMSED	FILL,EL5	Sci, Eng, and D/L Chan	2R7	4	21	3,744,942:03:0	
1053	96	352	22:45:14.066	488M6D	6TMSED	FILL,EL6	Sci, Eng, and D/L Chan	2R7	4	21	3,744,957:64:0	
1054	96	352	22:49:03.400	488M6E	6TMSED	NORM,EL6	Sci, Eng, and D/L Chan	2R7	4	21	3,744,961:44:0	
1055	96	353	00:38:18.066	488N6A	6TMSED	NORM,EL4	Sci, Eng, and D/L Chan	2R7	4	21	3,745,069:48:0	
1056	**96**	**353**	**01:24:20.733**	**E4JNFEA04101-**		**-----START------**		**2R7**	**4**	**21**	**: :**	
1057	96	353	01:25:16.066	165DO4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R7	4	21	3,745,115:89:0	
1058	96	353	01:25:16.733	165DO4B	7SCAN	NORM,251.726999,	Check S/P Position	2R7	4	21	3,745,115:90:0	
1059	**96**	**353**	**01:28:14.733**	**127DO4A**	**37IOP**	**5,1**	**Short Map, Grating Start Position =01**	**2R5**	**4**	**1**	**3,745,118:84:0**	
1060	96	353	01:28:14.733	127DO	NIMSTAB	GS	%%%%% GROUP START TAB	2R5	4	1	3,745,118:84:0	
1061	**96**	**353**	**01:28:15.400**	**127DO4B**	**37ETB**	**,CD,02,00,00,05,**	**Loads wavelength edit table**	**2R5**	**4**	**1**	**3,745,118:85:0**	
1062	96	353	01:28:23.400	127DO11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R5	4	1	3,745,119:06:0	
1063	96	353	01:29:00.733	175KF422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	2R5	4	1	3,745,119:62:0	
1064	96	353	01:29:07.400		DMS:	: *RUNUP	R28, TRACK 1, FWD, TIC 4070.05 +/- 1	2R5	4	1	3,745,119:72:0	
1065	96	353	01:29:10.733	117DO	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,745,119:77:0	
1066	96	353	01:29:11.400		DMS:	**: *RECORD**	R28, TRACK 1, FWD, TIC *4071.55 +/- 1	2R5	4	1	3,745,119:78:0	
1067	96	353	01:29:11.400		DMS:	: *AT_SPD	R28, TRACK 1, FWD, TIC 4071.55 +/- 1	2R5	4	1	3,745,119:78:0	
1068	96	353	01:29:12.733	175KF176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	2R5	4	1	3,745,119:80:0	
1069	96	353	01:29:14.066		DMS:	**: *RUNDOWN**	R28, TRACK 1, FWD, TIC *4073.89 +/- 1	2R5	4	1	3,745,119:82:0	
1070	96	353	01:29:14.066	175DO422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,745,119:82:0	
1071	96	353	01:29:15.466		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC *4074.11 +/- 1	2R5	4	1	3,745,119:84:1	
1072	96	353	01:29:16.733	175DO176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	3,745,119:86:0	
1073	96	353	01:29:16.933		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 4074.23 +/- 1	2R5	4	1	3,745,119:86:3	
1074	96	353	01:29:16.933		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *4074.23 +/- 1	2R5	4	1	3,745,119:86:3	
1075	**96**	**353**	**01:29:19.678**	**E4JNFEA04101-**	**NIMPBK**	**301DT**	**JUPITER CAMP. FEAT. 41 DEG. PHAS**	**2R5**	**4**	**1**	**: :**	
1076	96	353	01:29:20.066	117DO105A106A4A	7STRP	0.043527,0.0,0,0	Slew =,0.11	2R5	4	1	3,745,120:00:0	
1077	96	353	01:30:00.066	488N6B	6TMSED	NORM,BL4	Sci, Eng, and D/L Chan	2R5	4	1	3,745,120:60:0	
1078	**96**	**353**	**01:35:56.345**	**E4JNFEA04101-**	**DESELC**	**300DT**	**JUPITER CAMP. FEAT. 41 DEG. PHAS**	**2R5**	**4**	**1**	**: :**	
1079	96	353	01:35:57.400	117DO11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,745,126:50:0	
1080	96	353	01:35:58.733	175DO422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,745,126:52:0	
1081	96	353	01:35:58.733	175DO6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,745,126:52:0	
1082	96	353	01:35:58.733		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *4168.40 +/- 1	2R5	4	1	3,745,126:52:0	
1083	**96**	**353**	**01:36:28.733**	**E4JNFEA04101-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**	
1084	**96**	**353**	**01:37:29.400**	**E4JNPFTA4101-**		**-----START------**		**2R5**	**4**	**1**	**: :**	
1085	96	353	01:38:24.733	165DP4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,745,128:89:0	
1086	96	353	01:38:25.400	165DP4B	7SCAN	NORM,254.952999,	Check S/P Position	2R5	4	1	3,745,128:90:0	
1087	**96**	**353**	**01:39:22.066**	**127DP4A**	**37IOP**	**5,1**	**Short Map, Grating Start Position =01**	**2R5**	**4**	**1**	**3,745,129:84:0**	
1088	96	353	01:39:22.066	127DP	NIMSTAB	GS	%%%%% GROUP START TAB	2R5	4	1	3,745,129:84:0	
1089	**96**	**353**	**01:39:22.733**	**127DP4B**	**37ETB**		**Loads wavelength edit table**	**2R5**	**4**	**1**	**3,745,129:85:0**	
1090	96	353	01:39:30.733	127DP11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R5	4	1	3,745,130:06:0	
1091	96	353	01:40:08.066	175KG422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	2R5	4	1	3,745,130:62:0	
1092	96	353	01:40:14.733		DMS:	: *RUNUP	R28, TRACK 1, FWD, TIC 4168.46 +/- 1	2R5	4	1	3,745,130:72:0	
1093	96	353	01:40:18.066	117DP	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,745,130:77:0	
1094	96	353	01:40:18.733		DMS:	: *AT_SPD	R28, TRACK 1, FWD, TIC 4169.96 +/- 1	2R5	4	1	3,745,130:78:0	
1095	96	353	01:40:18.733		DMS:	**: *RECORD**	R28, TRACK 1, FWD, TIC *4169.96 +/- 1	2R5	4	1	3,745,130:78:0	
1096	96	353	01:40:20.066	175KG176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	2R5	4	1	3,745,130:80:0	
1097	96	353	01:40:21.400		DMS:	**: *RUNDOWN**	R28, TRACK 1, FWD, TIC *4172.30 +/- 1	2R5	4	1	3,745,130:82:0	
1098	96	353	01:40:21.400	175DP422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,745,130:82:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1099	96	353	01:40:22.800		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC *4172.52 +/- 1	2R5	4	1	3,745,130:84:1	
1100	96	353	01:40:24.066	175DP176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	3,745,130:86:0	
1101	96	353	01:40:24.266		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 4172.64 +/- 1	2R5	4	1	3,745,130:86:3	
1102	96	353	01:40:24.266		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *4172.64 +/- 1	2R5	4	1	3,745,130:86:3	
1103	96	353	01:40:27.400	117DP105A106A4A	7STRP	-0.025806,0.0,0,	Slew =,0.11	2R5	4	1	3,745,131:00:0	
1104	96	353	01:44:23.400	117DP105A106A4B	7STRP	0.026006,-0.0080	Slew =12.01	2R5	4	1	3,745,134:81:0	
1105	96	353	01:44:36.733	117DP105A106A4C	7STRP	-0.025806,0.0,0,	Slew =,0.11	2R5	4	1	3,745,135:10:0	
1106	96	353	01:48:32.733	117DP11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,745,139:00:0	
1107	96	353	01:48:34.066		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *4287.44 +/- 1	2R5	4	1	3,745,139:02:0	
1108	96	353	01:48:34.066	175DP422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,745,139:02:0	
1109	96	353	01:48:34.066	175DP6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,745,139:02:0	
1110	**96**	**353**	**01:48:35.400**	**E4JNPFTA4101-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**	
1111	**96**	**353**	**01:48:36.733**	**E4JNFEA04102-**		**-----START------**		**2R5**	**4**	**1**	**: :**	
1112	96	353	01:49:28.733	127DQ	NIMSTAB	GS	%%%%% GROUP START TAB	2R5	4	1	3,745,139:84:0	
1113	**96**	**353**	**01:49:28.733**	**127DQ4A**	**37IOP**	**5,1**	**Short Map, Grating Start Position =01**	**2R5**	**4**	**1**	**3,745,139:84:0**	
1114	**96**	**353**	**01:49:29.400**	**127DQ4B**	**37ETB**	**,CD,02,00,00,05,**	**Loads wavelength edit table**	**2R5**	**4**	**1**	**3,745,139:85:0**	
1115	96	353	01:49:32.066	165DQ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,745,139:89:0	
1116	96	353	01:49:32.733	165DQ4B	7SCAN	NORM,254.997,-24	Check S/P Position	2R5	4	1	3,745,139:90:0	
1117	96	353	01:49:37.400	127DQ11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R5	4	1	3,745,140:06:0	
1118	96	353	01:50:14.733	175KH422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	2R5	4	1	3,745,140:62:0	
1119	96	353	01:50:21.400		DMS:	: *RUNUP	R28, TRACK 1, FWD, TIC 4287.50 +/- 1	2R5	4	1	3,745,140:72:0	
1120	96	353	01:50:24.733	117DQ	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,745,140:77:0	
1121	96	353	01:50:25.400		DMS:	**: *RECORD**	R28, TRACK 1, FWD, TIC *4289.00 +/- 1	2R5	4	1	3,745,140:78:0	
1122	96	353	01:50:25.400		DMS:	: *AT_SPD	R28, TRACK 1, FWD, TIC 4289.00 +/- 1	2R5	4	1	3,745,140:78:0	
1123	96	353	01:50:26.733	175KH176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	2R5	4	1	3,745,140:80:0	
1124	96	353	01:50:28.066		DMS:	**: *RUNDOWN**	R28, TRACK 1, FWD, TIC *4291.34 +/- 1	2R5	4	1	3,745,140:82:0	
1125	96	353	01:50:28.066	175DQ422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,745,140:82:0	
1126	96	353	01:50:29.466		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC *4291.56 +/- 1	2R5	4	1	3,745,140:84:1	
1127	96	353	01:50:30.733	175DQ176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	3,745,140:86:0	
1128	96	353	01:50:30.933		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 4291.68 +/- 1	2R5	4	1	3,745,140:86:3	
1129	96	353	01:50:30.933		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *4291.68 +/- 1	2R5	4	1	3,745,140:86:3	
1130	**96**	**353**	**01:50:33.677**	**E4JNFEA04102-**	**NIMPBK**	**301DV**	**JUPITER CAMP. FEAT. 41 DEG. PHAS**	**2R5**	**4**	**1**	**: :**	
1131	96	353	01:50:34.066	117DQ105A106A4A	7STRP	-0.047736,0.0,0,	Slew =,0.12	2R5	4	1	3,745,141:00:0	
1132	**96**	**353**	**01:50:49.011**	**E4JNFEA04102-**	**DESELC**	**300DV**	**JUPITER CAMP. FEAT. 41 DEG. PHAS**	**2R5**	**4**	**1**	**: :**	
1133	96	353	01:50:58.733	175DQ6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,745,141:37:0	
1134	96	353	01:50:58.733		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *4298.19 +/- 1	2R5	4	1	3,745,141:37:0	
1135	96	353	01:50:58.733	175DQ422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,745,141:37:0	
1136	96	353	01:57:13.400	117DQ11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,745,147:53:0	
1137	**96**	**353**	**01:57:42.733**	**E4JNFEA04102-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**	
1138	96	353	01:58:38.066	165GB4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,745,148:89:0	
1139	96	353	01:58:38.733	165GB4B	7SCAN	NORM,253.116999,	Check S/P Position	2R5	4	1	3,745,148:90:0	
1140	96	353	01:59:30.733	117GB	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,745,149:77:0	
1141	96	353	01:59:40.066	176GB6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R5	4	1	3,745,150:00:0	
1142	96	353	01:59:40.066	117GB105A106A4A	7STRP	0.03101,0.0,0,0,	Slew =0,0.1	2R5	4	1	3,745,150:00:0	
1143	96	353	02:04:54.066	117GB105A106A4B	7STRP	-0.032011,-0.001	Slew =12.01	2R5	4	1	3,745,155:16:0	
1144	96	353	02:05:00.733	117GB105A106A4C	7STRP	0.03101,0.0,0,0,	Slew =0,0.1	2R5	4	1	3,745,155:26:0	
1145	96	353	02:10:14.733	117GB105A106A4D	7STRP	-0.032011,-0.001	Slew =12.01	2R5	4	1	3,745,160:42:0	
1146	96	353	02:10:21.400	117GB105A106A4E	7STRP	0.03101,0.0,0,0,	Slew =0,0.1	2R5	4	1	3,745,160:52:0	
1147	96	353	02:12:22.066		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 4298.25 +/- 1	2R5	4	1	3,745,162:51:0	
1148	96	353	02:12:23.533		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC *4298.37 +/- 1	2R5	4	1	3,745,162:53:2	
1149	96	353	02:12:40.066		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *4302.25 +/- 1	2R5	4	1	3,745,162:78:0	
1150	96	353	02:13:00.066		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *4306.94 +/- 1	2R5	4	1	3,745,163:17:0	
1151	96	353	02:15:35.400	117GB105A106A4F	7STRP	-0.032011,-0.001	Slew =12.01	2R5	4	1	3,745,165:68:0	
1152	96	353	02:15:42.066	117GB105A106A4G	7STRP	0.03101,0.0,0,0,	Slew =0,0.1	2R5	4	1	3,745,165:78:0	
1153	96	353	02:20:56.066	117GB105A106A4H	7STRP	-0.032011,-0.001	Slew =12.01	2R5	4	1	3,745,171:03:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1154	96	353	02:21:02.733	117GB105A106A4I	7STRP	0.03101,0.0,0,0,	Slew =0,0.1	2R5	4	1	3,745,171:13:0	
1155	96	353	02:25:24.066		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 4307.00 +/- 1	2R5	4	1	3,745,175:41:0	
1156	96	353	02:25:25.533		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC *4307.11 +/- 1	2R5	4	1	3,745,175:43:2	
1157	96	353	02:25:42.066		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *4310.99 +/- 1	2R5	4	1	3,745,175:68:0	
1158	96	353	02:26:02.066		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *4315.68 +/- 1	2R5	4	1	3,745,176:07:0	
1159	96	353	02:26:16.733	117GB11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,745,176:29:0	
1160	96	353	02:28:32.066	165GC4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,745,178:50:0	
1161	96	353	02:28:32.733	165GC4B	7SCAN	NORM,252.942999,	Check S/P Position	2R5	4	1	3,745,178:51:0	
1162	96	353	02:28:50.066	117GC	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,745,178:77:0	
1163	96	353	02:28:59.400	117GC105A106A4A	7STRP	0.03101,0.0,0,0,	Slew =,0.11	2R5	4	1	3,745,179:00:0	
1164	96	353	02:33:44.066	117GC105A106A4B	7STRP	-0.031711,-0.001	Slew =12.01	2R5	4	1	3,745,183:63:0	
1165	96	353	02:33:51.400	117GC105A106A4C	7STRP	0.03101,0.0,0,0,	Slew =,0.11	2R5	4	1	3,745,183:74:0	
1166	96	353	02:38:26.066		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 4315.74 +/- 1	2R5	4	1	3,745,188:31:0	
1167	96	353	02:38:27.533		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC *4315.85 +/- 1	2R5	4	1	3,745,188:33:2	
1168	96	353	02:38:36.066	117GC105A106A4D	7STRP	-0.031711,-0.001	Slew =12.01	2R5	4	1	3,745,188:46:0	
1169	96	353	02:38:43.400	117GC105A106A4E	7STRP	0.03101,0.0,0,0,	Slew =,0.11	2R5	4	1	3,745,188:57:0	
1170	96	353	02:38:44.066		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *4319.73 +/- 1	2R5	4	1	3,745,188:58:0	
1171	96	353	02:39:04.066		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *4324.42 +/- 1	2R5	4	1	3,745,188:88:0	
1172	96	353	02:43:28.066	117GC105A106A4F	7STRP	-0.031711,-0.001	Slew =12.01	2R5	4	1	3,745,193:29:0	
1173	96	353	02:43:35.400	117GC105A106A4G	7STRP	0.03101,0.0,0,0,	Slew =,0.11	2R5	4	1	3,745,193:40:0	
1174	96	353	02:48:20.066	117GC105A106A4H	7STRP	-0.031711,-0.001	Slew =12.01	2R5	4	1	3,745,198:12:0	
1175	96	353	02:48:27.400	117GC105A106A4I	7STRP	0.03101,0.0,0,0,	Slew =,0.11	2R5	4	1	3,745,198:23:0	
1176	96	353	02:51:28.733		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 4324.48 +/- 1	2R5	4	1	3,745,201:22:0	
1177	96	353	02:51:30.200		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC *4324.59 +/- 1	2R5	4	1	3,745,201:24:2	
1178	96	353	02:51:46.066		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *4328.31 +/- 1	2R5	4	1	3,745,201:48:0	
1179	96	353	02:52:06.066		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *4333.00 +/- 1	2R5	4	1	3,745,201:78:0	
1180	96	353	02:53:12.066	176GB6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,745,202:86:0	
1181	96	353	02:53:12.066	117GC11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,745,202:86:0	
1182	96	353	02:53:20.733		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 4333.06 +/- 1	2R5	4	1	3,745,203:08:0	
1183	96	353	02:53:22.200		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC *4333.18 +/- 1	2R5	4	1	3,745,203:10:2	
1184	96	353	02:53:24.066		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *4333.62 +/- 1	2R5	4	1	3,745,203:13:0	
1185	96	353	02:53:32.066		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *4335.49 +/- 1	2R5	4	1	3,745,203:25:0	
1186	96	353	02:56:16.066	165IM4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,745,205:89:0	
1187	96	353	02:56:16.733	165IM4B	7SCAN	NORM,253.412998,	Check S/P Position	2R5	4	1	3,745,205:90:0	
1188	96	353	02:57:06.733	175IL422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2R5	4	1	3,745,206:74:0	
1189	96	353	02:57:10.066	118IM	**SMOS**	GS		2R5	4	1	3,745,206:79:0	
1190	96	353	02:57:13.400		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 4335.55 +/- 1	2R5	4	1	3,745,206:84:0	
1191	96	353	02:57:17.400		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 4341.82 +/- 1	2R5	4	1	3,745,206:90:0	
1192	96	353	02:57:17.400		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *4341.82 +/- 1	2R5	4	1	3,745,206:90:0	
1193	96	353	02:57:18.733	175IL176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R5	4	1	3,745,207:01:0	
1194	96	353	02:57:20.066	118IM110A111A4A	7STRP	0.0071,0.0,46,0,	Slew =,3.01	2R5	4	1	3,745,207:03:0	
1195	96	353	02:58:06.066	118IM110A111A4B	7STRP	-0.021403,0.0,0,	Slew =,3.01	2R5	4	1	3,745,207:72:0	
1196	96	353	02:58:21.400	118IM110A111A4C	7STRP	0.0071,0.0,46,0,	Slew =,3.01	2R5	4	1	3,745,208:04:0	
1197	96	353	02:59:07.400	118IM11A	**SMOS**	GE		2R5	4	1	3,745,208:73:0	
1198	96	353	02:59:19.400	175IL422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,745,209:00:0	
1199	96	353	02:59:19.400		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *4770.73 +/- 1	2R5	4	1	3,745,209:00:0	
1200	96	353	03:03:20.733	165IN4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,745,212:89:0	
1201	96	353	03:03:21.400	165IN4B	7SCAN	NORM,253.865,-23	Check S/P Position	2R5	4	1	3,745,212:90:0	
1202	96	353	03:03:26.066	118IN	**SMOS**	GS		2R5	4	1	3,745,213:06:0	
1203	96	353	03:03:41.400	175IM422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2R5	4	1	3,745,213:29:0	
1204	96	353	03:03:48.066		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 4771.64 +/- 1	2R5	4	1	3,745,213:39:0	
1205	96	353	03:03:52.066		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *4777.91 +/- 1	2R5	4	1	3,745,213:45:0	
1206	96	353	03:03:52.066		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 4777.91 +/- 1	2R5	4	1	3,745,213:45:0	
1207	96	353	03:03:53.400	175IM176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R5	4	1	3,745,213:47:0	
1208	96	353	03:03:54.733	118IN110A111A4A	7STRP	0.0071,0.0,46,0,	Slew =,3.01	2R5	4	1	3,745,213:49:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1209	96	353	03:04:25.400	118IN110A111A4B	7STRP	-0.014301,0.0,0,	Slew =,3.01	2R5	4	1	3,745,214:04:0	
1210	96	353	03:04:40.733	118IN110A111A4C	7STRP	0.0071,0.0,46,0,	Slew =,3.01	2R5	4	1	3,745,214:27:0	
1211	96	353	03:05:11.400	118IN11A	**SMOS**	GE		2R5	4	1	3,745,214:73:0	
1212	96	353	03:05:23.400		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *5099.01 +/- 1	2R5	4	1	3,745,215:00:0	
1213	96	353	03:05:23.400	175IM422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,745,215:00:0	
1214	96	353	03:09:24.733	165IO4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,745,218:89:0	
1215	96	353	03:09:25.400	165IO4B	7SCAN	NORM,254.198999,	Check S/P Position	2R5	4	1	3,745,218:90:0	
1216	96	353	03:10:15.400	175IN422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2R5	4	1	3,745,219:74:0	
1217	96	353	03:10:18.733	118IO	**SMOS**	GS		2R5	4	1	3,745,219:79:0	
1218	96	353	03:10:22.066		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 5099.92 +/- 1	2R5	4	1	3,745,219:84:0	
1219	96	353	03:10:26.066		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 5106.19 +/- 1	2R5	4	1	3,745,219:90:0	
1220	96	353	03:10:26.066		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *5106.19 +/- 1	2R5	4	1	3,745,219:90:0	
1221	96	353	03:10:27.400	175IN176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R5	4	1	3,745,220:01:0	
1222	96	353	03:10:28.733	118IO110A111A4A	7STRP	0.0,-0.0071,46,0	Slew =,3.01	2R5	4	1	3,745,220:03:0	
1223	96	353	03:10:44.066	118IO110A111B4A	7STRP	0.0071,0.0071,0,	Slew =,3.01	2R5	4	1	3,745,220:26:0	
1224	96	353	03:10:59.400	118IO110A111B4B	7STRP	0.0,-0.0071,46,0	Slew =,3.01	2R5	4	1	3,745,220:49:0	
1225	96	353	03:11:14.733	118IO110A111A4B	7STRP	-0.0072,0.0071,0	Slew =,3.01	2R5	4	1	3,745,220:72:0	
1226	96	353	03:11:30.066	118IO110A111A4C	7STRP	0.0,-0.0071,46,0	Slew =,3.01	2R5	4	1	3,745,221:04:0	
1227	96	353	03:11:45.400	118IO110A111B4C	7STRP	0.0071,0.0071,0,	Slew =,3.01	2R5	4	1	3,745,221:27:0	
1228	96	353	03:12:00.733	118IO110A111B4D	7STRP	0.0,-0.0071,46,0	Slew =,3.01	2R5	4	1	3,745,221:50:0	
1229	96	353	03:12:16.066	118IO11A	**SMOS**	GE		2R5	4	1	3,745,221:73:0	
1230	96	353	03:12:28.066	175IN422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,745,222:00:0	
1231	96	353	03:12:28.066		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *5535.10 +/- 1	2R5	4	1	3,745,222:00:0	
1232	**96**	**353**	**03:12:32.066**	**E4JNFEA04103-**		**-----START------**		**2R5**	**4**	**1**	**: :**	
1233	96	353	03:15:25.400	127DR	NIMSTAB	GS	%%%%% GROUP START TAB	2R5	4	1	3,745,224:84:0	
1234	**96**	**353**	**03:15:25.400**	**127DR4A**	**37IOP**	**5,1**	**Short Map, Grating Start Position =01**	**2R5**	**4**	**1**	**3,745,224:84:0**	
1235	**96**	**353**	**03:15:26.066**	**127DR4B**	**37ETB**	**,CD,02,00,00,05,**	**Loads wavelength edit table**	**2R5**	**4**	**1**	**3,745,224:85:0**	
1236	96	353	03:15:28.733	165DU4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,745,224:89:0	
1237	96	353	03:15:29.400	165DU4B	7SCAN	NORM,254.844999,	Check S/P Position	2R5	4	1	3,745,224:90:0	
1238	96	353	03:15:34.066	127DR11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R5	4	1	3,745,225:06:0	
1239	96	353	03:16:18.066	175DR422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,745,225:72:0	
1240	96	353	03:16:21.400	117DU	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,745,225:77:0	
1241	96	353	03:16:24.733		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 5536.01 +/- 1	2R5	4	1	3,745,225:82:0	
1242	96	353	03:16:26.200		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *5536.13 +/- 1	2R5	4	1	3,745,225:84:2	
1243	96	353	03:16:26.200		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 5536.13 +/- 1	2R5	4	1	3,745,225:84:2	
1244	96	353	03:16:27.400	175DR176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	3,745,225:86:0	
1245	**96**	**353**	**03:16:30.341**	**E4JNFEA04103-**	**NIMPBK**	**301DX**	**JUPITER CAMP. FEAT. 41 DEG. PHAS**	**2R5**	**4**	**1**	**: :**	
1246	96	353	03:16:30.733	117DU105A106A4A	7STRP	-0.037017,0.0,0,	Slew =,0.12	2R5	4	1	3,745,226:00:0	
1247	**96**	**353**	**03:21:40.341**	**E4JNFEA04103-**	**DESELC**	**300DX**	**JUPITER CAMP. FEAT. 41 DEG. PHAS**	**2R5**	**4**	**1**	**: :**	
1248	96	353	03:21:40.733	117DU11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,745,231:10:0	
1249	96	353	03:23:12.066		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *5631.26 +/- 1	2R5	4	1	3,745,232:56:0	
1250	96	353	03:23:12.066	175DR6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,745,232:56:0	
1251	96	353	03:23:12.066	175DR422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,745,232:56:0	
1252	96	353	03:28:32.066	465KB6A	6DTRN	CMD,6DTRN,465KB6	DMS TRACK TURNAROUND	2R5	4	1	3,745,237:81:0	
1253	96	353	03:43:20.066	175DU422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,745,252:48:0	
1254	96	353	03:43:29.400	175DU176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	3,745,252:62:0	
1255	**96**	**353**	**03:43:44.066**	**127DU4A**	**37IOP**	**5,1**	**Short Map, Grating Start Position =01**	**2R5**	**4**	**1**	**3,745,252:84:0**	
1256	96	353	03:43:44.066	127DU	NIMSTAB	GS	%%%%% GROUP START TAB	2R5	4	1	3,745,252:84:0	
1257	**96**	**353**	**03:43:44.733**	**127DU4B**	**37ETB**		**Loads wavelength edit table**	**2R5**	**4**	**1**	**3,745,252:85:0**	
1258	96	353	03:43:47.400	165DR4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,745,252:89:0	
1259	96	353	03:43:48.066	165DR4B	7SCAN	NORM,254.844,-24	Check S/P Position	2R5	4	1	3,745,252:90:0	
1260	96	353	03:43:52.733	127DU11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R5	4	1	3,745,253:06:0	
1261	96	353	03:44:40.066	117DR	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,745,253:77:0	
1262	96	353	03:44:49.400	117DR105A106A4A	7STRP	-0.037017,0.0,0,	Slew =,0.12	2R5	4	1	3,745,254:00:0	
1263	96	353	03:49:40.733	175DU422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,745,258:73:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1264	96	353	03:49:40.733	175DU6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,745,258:73:0	
1265	96	353	03:49:59.400	117DR11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,745,259:10:0	
1266	**96**	**353**	**03:50:57.399**	**E4JNFEA04103-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**	
1267	**96**	**353**	**03:51:30.733**	**E4JNPFTA4102-**		**-----START------**		**2R5**	**4**	**1**	**: :**	
1268	96	353	03:51:52.733	165DS4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,745,260:89:0	
1269	96	353	03:51:53.400	165DS4B	7SCAN	NORM,254.602999,	Check S/P Position	2R5	4	1	3,745,260:90:0	
1270	96	353	03:52:50.066	127DS	NIMSTAB	GS	%%%%% GROUP START TAB	2R5	4	1	3,745,261:84:0	
1271	**96**	**353**	**03:52:50.066**	**127DS4A**	**37IOP**	**5,1**	**Short Map, Grating Start Position =01**	**2R5**	**4**	**1**	**3,745,261:84:0**	
1272	**96**	**353**	**03:52:50.733**	**127DS4B**	**37ETB**		**Loads wavelength edit table**	**2R5**	**4**	**1**	**3,745,261:85:0**	
1273	96	353	03:52:58.733	127DS11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R5	4	1	3,745,262:06:0	
1274	96	353	03:53:42.733	175DS422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,745,262:72:0	
1275	96	353	03:53:46.066	117DS	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,745,262:77:0	
1276	96	353	03:53:52.066	175DS176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	3,745,262:86:0	
1277	96	353	03:53:55.400	117DS105A106A4A	7STRP	-0.026506,0.0,0,	Slew =,0.11	2R5	4	1	3,745,263:00:0	
1278	96	353	03:57:58.066	117DS105A106A4B	7STRP	0.026506,-0.0080	Slew =12.01	2R5	4	1	3,745,267:00:0	
1279	96	353	03:58:11.400	117DS105A106A4C	7STRP	-0.026506,0.0,0,	Slew =,0.11	2R5	4	1	3,745,267:20:0	
1280	96	353	04:02:14.066	117DS11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,745,271:20:0	
1281	96	353	04:02:25.400	175DS422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,745,271:37:0	
1282	96	353	04:02:25.400	175DS6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,745,271:37:0	
1283	**96**	**353**	**04:02:28.066**	**E4JNPFTA4102-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**	
1284	**96**	**353**	**04:02:45.334**	**E4NNHEALTH02-**		**-----START------**		**2R5**	**4**	**1**	**: :**	
1285	96	353	04:02:56.733	125FX11A	NIMSINIT	GE	##### GROUP END INIT	2R5	4	1	3,745,271:84:0	
1286	96	353	04:02:56.733	125FX	NIMSINIT	GS	##### GROUP START INIT	2R5	4	1	3,745,271:84:0	
1287	**96**	**353**	**04:02:56.733**	**125FX4A**	**37IST**	**0,2,0,OFF,0,1,0**	**Gain State 2**	**2R5**	**4**	**1**	**3,745,271:84:0**	
1288	96	353	04:03:00.066	165GD4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,745,271:89:0	
1289	96	353	04:03:00.733	165GD4B	7SCAN	NORM,252.853998,	Check S/P Position	2R5	4	1	3,745,271:90:0	
1290	**96**	**353**	**04:03:57.400**	**127FX4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**3,745,272:84:0**	
1291	96	353	04:03:57.400	127FX	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	3,745,272:84:0	
1292	**96**	**353**	**04:03:58.066**	**127FX4B**	**37ETB**	**07,C7,02,80,44,3**	**Loads wavelength edit table**	**2R3**	**4**	**0**	**3,745,272:85:0**	
1293	96	353	04:04:06.066	127FX11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	3,745,273:06:0	
1294	**96**	**353**	**04:04:22.066**	**432EC6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**	**NIMS R/T SELECT**	**2R3**	**4**	**0**	**3,745,273:30:0**	
1295	**96**	**353**	**04:05:21.400**	**432ED6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**2R3**	**4**	**0**	**3,745,274:28:0**	
1296	**96**	**353**	**04:06:07.334**	**E4NNHEALTH02-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**	
1297	96	353	04:06:54.733	117GD	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	3,745,275:77:0	
1298	96	353	04:07:04.066	176GD6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R3	4	0	3,745,276:00:0	
1299	96	353	04:07:04.066	117GD105A106A4A	7STRP	0.0,-0.008401,0,	Slew =,0.21	2R3	4	0	3,745,276:00:0	
1300	96	353	04:08:22.733	117GD105A106A4B	7STRP	0.0014,0.008401,	Slew =12.01	2R3	4	0	3,745,277:27:0	
1301	96	353	04:08:34.733	117GD105A106A4C	7STRP	0.0,-0.008401,0,	Slew =,0.21	2R3	4	0	3,745,277:45:0	
1302	96	353	04:09:53.400	117GD105A106A4D	7STRP	0.0014,0.008401,	Slew =12.01	2R3	4	0	3,745,278:72:0	
1303	96	353	04:10:05.400	117GD105A106A4E	7STRP	0.0,-0.008401,0,	Slew =,0.21	2R3	4	0	3,745,278:90:0	
1304	96	353	04:11:24.066	117GD105A106A4F	7STRP	0.0014,0.008401,	Slew =12.01	2R3	4	0	3,745,280:26:0	
1305	96	353	04:11:36.066	117GD105A106A4G	7STRP	0.0,-0.008401,0,	Slew =,0.21	2R3	4	0	3,745,280:44:0	
1306	96	353	04:12:54.733	117GD105A106A4H	7STRP	0.0014,0.008401,	Slew =12.01	2R3	4	0	3,745,281:71:0	
1307	96	353	04:13:06.733	117GD105A106A4I	7STRP	0.0,-0.008401,0,	Slew =,0.21	2R3	4	0	3,745,281:89:0	
1308	96	353	04:14:25.400	117GD105A106A4J	7STRP	0.0014,0.008401,	Slew =12.01	2R3	4	0	3,745,283:25:0	
1309	96	353	04:14:37.400	117GD105A106A4K	7STRP	0.0,-0.008401,0,	Slew =,0.21	2R3	4	0	3,745,283:43:0	
1310	96	353	04:15:56.066	117GD105A106A4L	7STRP	0.0014,0.008401,	Slew =12.01	2R3	4	0	3,745,284:70:0	
1311	96	353	04:16:08.066	117GD105A106A4M	7STRP	0.0,-0.008401,0,	Slew =,0.21	2R3	4	0	3,745,284:88:0	
1312	96	353	04:17:26.733	117GD105A106A4N	7STRP	0.0014,0.008401,	Slew =12.01	2R3	4	0	3,745,286:24:0	
1313	96	353	04:17:38.733	117GD105A106A4O	7STRP	0.0,-0.008401,0,	Slew =,0.21	2R3	4	0	3,745,286:42:0	
1314	96	353	04:18:57.400	117GD105A106A4P	7STRP	0.0014,0.008401,	Slew =12.01	2R3	4	0	3,745,287:69:0	
1315	96	353	04:19:09.400	117GD105A106A4Q	7STRP	0.0,-0.008401,0,	Slew =,0.21	2R3	4	0	3,745,287:87:0	
1316	96	353	04:19:47.466		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *6026.77 +/-	2R3	4	0	3,745,288:53:1	
1317	96	353	04:19:48.933		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *6026.65 +/-	2R3	4	0	3,745,288:55:3	
1318	96	353	04:20:04.066		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *6023.11 +/-	2R3	4	0	3,745,288:78:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1319	96	353	04:20:24.066		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *6018.42 +/-	2R3	4	0	3,745,289:17:0	
1320	96	353	04:20:28.066	117GD105A106A4R	7STRP	0.0014,0.008401,	Slew =12.01	2R3	4	0	3,745,289:23:0	
1321	96	353	04:20:40.066	117GD105A106A4S	7STRP	0.0,-0.008401,0,	Slew =,0.21	2R3	4	0	3,745,289:41:0	
1322	96	353	04:21:58.733	117GD105A106A4T	7STRP	0.0014,0.008401,	Slew =12.01	2R3	4	0	3,745,290:68:0	
1323	96	353	04:22:10.733	117GD105A106A4U	7STRP	0.0,-0.008401,0,	Slew =,0.21	2R3	4	0	3,745,290:86:0	
1324	96	353	04:23:29.400	117GD105A106A4V	7STRP	0.0014,0.008401,	Slew =12.01	2R3	4	0	3,745,292:22:0	
1325	96	353	04:23:41.400	117GD105A106A4W	7STRP	0.0,-0.008401,0,	Slew =,0.21	2R3	4	0	3,745,292:40:0	
1326	96	353	04:25:00.066	117GD105A106A4X	7STRP	0.0014,0.008401,	Slew =12.01	2R3	4	0	3,745,293:67:0	
1327	96	353	04:25:12.066	117GD105A106A4Y	7STRP	0.0,-0.008401,0,	Slew =,0.21	2R3	4	0	3,745,293:85:0	
1328	96	353	04:26:30.733	117GD105A106A4Z	7STRP	0.0014,0.008401,	Slew =12.01	2R3	4	0	3,745,295:21:0	
1329	96	353	04:26:42.733	117GD105A106A4AA	7STRP	0.0,-0.008401,0,	Slew =,0.21	2R3	4	0	3,745,295:39:0	
1330	96	353	04:28:01.400	117GD105A106A4AB	7STRP	0.0014,0.008401,	Slew =12.01	2R3	4	0	3,745,296:66:0	
1331	96	353	04:28:13.400	117GD105A106A4AC	7STRP	0.0,-0.008401,0,	Slew =,0.21	2R3	4	0	3,745,296:84:0	
1332	96	353	04:29:32.066	117GD105A106A4AD	7STRP	0.0014,0.008401,	Slew =12.01	2R3	4	0	3,745,298:20:0	
1333	96	353	04:29:44.066	117GD105A106A4AE	7STRP	0.0,-0.008401,0,	Slew =,0.21	2R3	4	0	3,745,298:38:0	
1334	**96**	**353**	**04:30:23.334**	**E4NNRELOAD01-**		**-----START------**		**2R3**	**4**	**0**	**: :**	
1335	96	353	04:31:02.733	117GD105A106A4AF	7STRP	0.0014,0.008401,	Slew =12.01	2R3	4	0	3,745,299:65:0	
1336	96	353	04:31:14.733	117GD105A106A4AG	7STRP	0.0,-0.008401,0,	Slew =,0.21	2R3	4	0	3,745,299:83:0	
1337	**96**	**353**	**04:31:24.066**	**20EB6A**	**6CKSUM**	**NIMS**	**NIMS,1000,14BC**	**2R3**	**4**	**0**	**3,745,300:06:0**	
1338	**96**	**353**	**04:32:24.733**	**20EB5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**2R3**	**4**	**0**	**3,745,301:06:0**	
1339	96	353	04:32:33.400	117GD105A106A4AH	7STRP	0.0014,0.008401,	Slew =12.01	2R3	4	0	3,745,301:19:0	
1340	96	353	04:32:45.400	117GD105A106A4AI	7STRP	0.0,-0.008401,0,	Slew =,0.21	2R3	4	0	3,745,301:37:0	
1341	96	353	04:32:49.466		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *6019.75 +/-	2R3	4	0	3,745,301:43:1	
1342	96	353	04:32:50.933		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *6019.63 +/-	2R3	4	0	3,745,301:45:3	
1343	96	353	04:33:06.066		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *6016.09 +/-	2R3	4	0	3,745,301:68:0	
1344	**96**	**353**	**04:33:25.400**	**20EB5B**	**37MRL**		**Memory Realocate (software operates from R**	**2R3**	**4**	**0**	**3,745,302:06:0**	
1345	96	353	04:33:26.066		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *6011.40 +/-	2R3	4	0	3,745,302:07:0	
1346	96	353	04:34:04.066	117GD105A106B4A	7STRP	-0.012001,0.0,0,	Slew =12.01	2R3	4	0	3,745,302:64:0	
1347	96	353	04:34:10.066	117GD105A106B4B	7STRP	0.0,0.0,0,0,0,0,	Slew =,0.21	2R3	4	0	3,745,302:73:0	
1348	**96**	**353**	**04:34:26.066**	**20EB6B**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**2R3**	**4**	**0**	**3,745,303:06:0**	
1349	96	353	04:34:56.733	117GD105A106C4A	7STRP	0.0014,0.008401,	Slew =12.01	2R3	4	0	3,745,303:52:0	
1350	96	353	04:35:08.733	117GD105A106C4B	7STRP	0.0,-0.008401,0,	Slew =,0.21	2R3	4	0	3,745,303:70:0	
1351	**96**	**353**	**04:35:26.733**	**20EB6C**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**2R3**	**4**	**0**	**3,745,304:06:0**	
1352	96	353	04:36:27.400	117GD105A106C4C	7STRP	0.0014,0.008401,	Slew =12.01	2R3	4	0	3,745,305:06:0	
1353	**96**	**353**	**04:36:27.400**	**20EB5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**3,745,305:06:0**	
1354	96	353	04:36:39.400	117GD105A106C4D	7STRP	0.0,-0.008401,0,	Slew =,0.21	260	4	0	3,745,305:24:0	
1355	**96**	**353**	**04:37:28.066**	**20EB5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**3,745,306:06:0**	
1356	96	353	04:37:58.066	117GD105A106C4E	7STRP	0.0014,0.008401,	Slew =12.01	260	4	0	3,745,306:51:0	
1357	96	353	04:38:10.066	117GD105A106C4F	7STRP	0.0,-0.008401,0,	Slew =,0.21	260	4	0	3,745,306:69:0	
1358	**96**	**353**	**04:38:28.733**	**20EB4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**3,745,307:06:0**	
1359	96	353	04:39:28.733	117GD105A106C4G	7STRP	0.0014,0.008401,	Slew =12.01	2R0	4	0	3,745,308:05:0	
1360	**96**	**353**	**04:39:29.400**	**20EB4B**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**3,745,308:06:0**	
1361	96	353	04:39:40.733	117GD105A106C4H	7STRP	0.0,-0.008401,0,	Slew =,0.21	2R3	4	0	3,745,308:23:0	
1362	96	353	04:40:59.400	117GD105A106C4I	7STRP	0.0014,0.008401,	Slew =12.01	2R3	4	0	3,745,309:50:0	
1363	96	353	04:41:11.400	117GD105A106C4J	7STRP	0.0,-0.008401,0,	Slew =,0.21	2R3	4	0	3,745,309:68:0	
1364	96	353	04:42:30.066	117GD105A106C4K	7STRP	0.0014,0.008401,	Slew =12.01	2R3	4	0	3,745,311:04:0	
1365	96	353	04:42:42.066	117GD105A106C4L	7STRP	0.0,-0.008401,0,	Slew =,0.21	2R3	4	0	3,745,311:22:0	
1366	96	353	04:44:00.733	117GD105A106C4M	7STRP	0.0014,0.008401,	Slew =12.01	2R3	4	0	3,745,312:49:0	
1367	96	353	04:44:12.733	117GD105A106C4N	7STRP	0.0,-0.008401,0,	Slew =,0.21	2R3	4	0	3,745,312:67:0	
1368	96	353	04:45:31.400	117GD105A106C4O	7STRP	0.0014,0.008401,	Slew =12.01	2R3	4	0	3,745,314:03:0	
1369	**96**	**353**	**04:45:33.334**	**E4NNRELOAD01-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**	
1370	96	353	04:45:43.400	117GD105A106C4P	7STRP	0.0,-0.008401,0,	Slew =,0.21	2R3	4	0	3,745,314:21:0	
1371	96	353	04:45:51.466		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *6012.73 +/-	2R3	4	0	3,745,314:33:1	
1372	96	353	04:45:52.933		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *6012.62 +/-	2R3	4	0	3,745,314:35:3	
1373	96	353	04:46:08.066		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *6009.07 +/-	2R3	4	0	3,745,314:58:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1374	96	353	04:46:28.066		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *6004.38 +/-	2R3	4	0	3,745,314:88:0	
1375	96	353	04:47:02.066	117GD105A106C4Q	7STRP	0.0014,0.008401,	Slew =12.01	2R3	4	0	3,745,315:48:0	
1376	96	353	04:47:14.066	117GD105A106C4R	7STRP	0.0,-0.008401,0,	Slew =,0.21	2R3	4	0	3,745,315:66:0	
1377	96	353	04:48:32.733	117GD105A106C4S	7STRP	0.0014,0.008401,	Slew =12.01	2R3	4	0	3,745,317:02:0	
1378	96	353	04:48:44.733	117GD105A106C4T	7STRP	0.0,-0.008401,0,	Slew =,0.21	2R3	4	0	3,745,317:20:0	
1379	96	353	04:50:03.400	117GD105A106C4U	7STRP	0.0014,0.008401,	Slew =12.01	2R3	4	0	3,745,318:47:0	
1380	96	353	04:50:15.400	117GD105A106C4V	7STRP	0.0,-0.008401,0,	Slew =,0.21	2R3	4	0	3,745,318:65:0	
1381	96	353	04:51:34.066	117GD105A106C4W	7STRP	0.0014,0.008401,	Slew =12.01	2R3	4	0	3,745,320:01:0	
1382	96	353	04:51:46.066	117GD105A106C4X	7STRP	0.0,-0.008401,0,	Slew =,0.21	2R3	4	0	3,745,320:19:0	
1383	96	353	04:53:04.733	176GD6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	3,745,321:46:0	
1384	96	353	04:53:04.733	117GD11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	3,745,321:46:0	
1385	96	353	04:53:14.800		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *6005.71 +/-	2R3	4	0	3,745,321:61:1	
1386	96	353	04:53:16.266		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *6005.60 +/-	2R3	4	0	3,745,321:63:3	
1387	96	353	04:53:16.733		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *6005.49 +/-	2R3	4	0	3,745,321:64:0	
1388	96	353	04:53:30.066		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *6002.36 +/-	2R3	4	0	3,745,321:84:0	
1389	**96**	**353**	**05:32:04.066**	**E4INCHEMIS01-**		**-----START------**		**2R3**	**4**	**0**	**: :**	
1390	96	353	05:32:59.400	165DT4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,745,360:89:0	
1391	96	353	05:33:00.066	165DT4B	7SCAN	NORM,283.884998,	Check S/P Position	2R3	4	0	3,745,360:90:0	
1392	**96**	**353**	**05:35:58.066**	**127DT4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**3,745,363:84:0**	
1393	96	353	05:35:58.066	127DT	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	3,745,363:84:0	
1394	**96**	**353**	**05:35:58.733**	**127DT4B**	**37ETB**	**07,C7,02,01,80,0**	**Loads wavelength edit table**	**2R3**	**4**	**0**	**3,745,363:85:0**	
1395	96	353	05:36:06.733	127DT11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	3,745,364:06:0	
1396	96	353	05:36:50.733	175DT422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	3,745,364:72:0	
1397	96	353	05:36:54.066	117DT	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	3,745,364:77:0	
1398	96	353	05:36:58.800		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *6003.70 +/-	2R3	4	0	3,745,364:84:1	
1399	96	353	05:37:00.066	175DT176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R3	4	0	3,745,364:86:0	
1400	96	353	05:37:00.266		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC 6003.58 +/-	2R3	4	0	3,745,364:86:3	
1401	96	353	05:37:00.266		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *6003.58 +/-	2R3	4	0	3,745,364:86:3	
1402	96	353	05:37:03.400	117DT105A106A4A	7STRP	0.0064,0.0,0,0,0	Slew =,0.04	2R3	4	0	3,745,365:00:0	
1403	96	353	05:39:44.733	117DT11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	3,745,367:60:0	
1404	96	353	05:39:46.066	175DT6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	3,745,367:62:0	
1405	96	353	05:39:46.066		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *5964.72 +/-	2R3	4	0	3,745,367:62:0	
1406	96	353	05:39:46.066	175DT422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,745,367:62:0	
1407	**96**	**353**	**05:39:48.733**	**E4INCHEMIS01-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**	
1408	96	353	06:02:00.066	488P6A	6TMSED	NORM,BL4	Sci, Eng, and D/L Chan	2R3	4	0	3,745,389:61:0	
1409	96	353	07:09:02.733	165IP4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,745,455:89:0	
1410	96	353	07:09:03.400	165IP4B	7SCAN	NORM,258.017998,	Check S/P Position	2R3	4	0	3,745,455:90:0	
1411	96	353	07:12:58.733	118IP	**SMOS**	GS		2R3	4	0	3,745,459:79:0	
1412	96	353	07:13:05.400	165IP4C	7VECT		Inert vect update UTC	2R3	4	0	3,745,459:89:0	
1413	96	353	07:13:06.066	165IP4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	2R3	4	0	3,745,459:90:0	
1414	96	353	07:13:08.733	118IP110A111A4A	7STRP	0.00065,0.0,26,0	Slew =,2.01	2R3	4	0	3,745,460:03:0	
1415	96	353	07:13:21.400	175JD422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	2R3	4	0	3,745,460:22:0	
1416	96	353	07:13:29.466		DMS:	: *RUNUP	R806, TRACK *2, *REV, TIC *5966.05 +/-	2R3	4	0	3,745,460:34:1	
1417	96	353	07:13:34.066	175JD176A6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	2R3	4	0	3,745,460:41:0	
1418	96	353	07:13:34.666		DMS:	: *AT_SPD	R806, TRACK 2, REV, TIC 5902.04 +/-	2R3	4	0	3,745,460:41:9	
1419	96	353	07:13:34.666		DMS:	**: *RECORD**	R806, TRACK 2, REV, TIC *5902.04 +/-	2R3	4	0	3,745,460:41:9	
1420	96	353	07:13:34.733	118IP11A	**SMOS**	GE		2R3	4	0	3,745,460:42:0	
1421	96	353	07:13:36.733	175JD422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,745,460:45:0	
1422	96	353	07:13:36.733		DMS:	**: *RUNDOWN**	R806, TRACK 2, REV, TIC *5851.18 +/-	2R3	4	0	3,745,460:45:0	
1423	96	353	07:23:38.066	488P6B	6TMSED	NORM,BL2	Sci, Eng, and D/L Chan	2R3	4	0	3,745,470:37:0	
1424	96	353	08:05:40.066	165IQ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,745,511:89:0	
1425	96	353	08:05:40.733	165IQ4B	7SCAN	NORM,270.853996,	Check S/P Position	2R3	4	0	3,745,511:90:0	
1426	96	353	08:09:36.733	118IQ	**SMOS**	GS		2R3	4	0	3,745,515:80:0	
1427	96	353	08:09:42.733	165IQ4C	7VECT		Inert vect update UTC	2R3	4	0	3,745,515:89:0	
1428	96	353	08:09:43.400	165IQ4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	2R3	4	0	3,745,515:90:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
1429	96	353	08:09:46.733	118IQ110A111A4A	7STRP	0.00053,0.0,26,0	Slew =,2.01	2R3	4	0	3,745,516:04:0
1430	96	353	08:09:50.066	175IO422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	2R3	4	0	3,745,516:09:0
1431	96	353	08:09:58.133		DMS:	: *RUNUP	R806, TRACK *2, *REV, TIC *5841.57 +/-	2R3	4	0	3,745,516:21:1
1432	96	353	08:10:02.733	175IO176A6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	2R3	4	0	3,745,516:28:0
1433	96	353	08:10:03.333		DMS:	: *AT_SPD	R806, TRACK 2, REV, TIC 5777.55 +/-	2R3	4	0	3,745,516:28:9
1434	96	353	08:10:03.333		DMS:	**: *RECORD**	R806, TRACK 2, REV, TIC *5777.55 +/-	2R3	4	0	3,745,516:28:9
1435	96	353	08:10:04.066	118IQ11A	**SMOS**	GE		2R3	4	0	3,745,516:30:0
1436	96	353	08:10:05.400		DMS:	**: *RUNDOWN**	R806, TRACK 2, REV, TIC *5726.69 +/-	2R3	4	0	3,745,516:32:0
1437	96	353	08:10:05.400	175IO422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,745,516:32:0
1438	96	353	08:15:00.066	488P6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	2R3	4	0	3,745,521:19:0
1439	96	353	08:39:02.066	488P6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	2R3	4	0	3,745,544:89:0
1440	96	353	08:42:34.066	488P6E	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	2R3	4	0	3,745,548:43:0
1441	**96**	**353**	**08:46:12.066**	**E4JNAWGWIN01-**		**-----START------**		**2R3**	**4**	**0**	**: :**
1442	96	353	10:59:34.733	165GE4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,745,683:89:0
1443	96	353	10:59:35.400	165GE4B	7SCAN	NORM,247.980999,	Check S/P Position	2R3	4	0	3,745,683:90:0
1444	96	353	11:03:29.400	117GE	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	3,745,687:77:0
1445	96	353	11:03:38.733	176GE6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R3	4	0	3,745,688:00:0
1446	96	353	11:03:38.733	117GE105A106A4A	7STRP	0.0,0.003,0,0,0,	Slew =,0.29	2R3	4	0	3,745,688:00:0
1447	96	353	11:04:00.733	117GE11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	3,745,688:33:0
1448	96	353	11:04:12.066	176GE6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	3,745,688:50:0
1449	96	353	11:04:22.133		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *5717.09 +/-	2R3	4	0	3,745,688:65:1
1450	96	353	11:04:23.600		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *5716.97 +/-	2R3	4	0	3,745,688:67:3
1451	96	353	11:04:24.066		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *5716.86 +/-	2R3	4	0	3,745,688:68:0
1452	96	353	11:04:31.400		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *5715.14 +/-	2R3	4	0	3,745,688:79:0
1453	**96**	**353**	**11:25:57.399**	**E4JNRTHOTS01-**		**-----START------**		**2R3**	**4**	**0**	**: :**
1454	96	353	11:26:01.400	165DY4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,745,710:12:0
1455	96	353	11:26:02.066	165DY4B	7SCAN	NORM,275.011997,	Check S/P Position	2R3	4	0	3,745,710:13:0
1456	96	353	11:26:49.400	125DY	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	3,745,710:84:0
1457	96	353	11:26:49.400	125DY11A	NIMSINIT	GE	##### GROUP END INIT	2R3	4	0	3,745,710:84:0
1458	**96**	**353**	**11:26:49.400**	**125DY4A**	**37MB**	**1B,1B,0,0,0,0**	**Selects mirror (spatial) edit table**	**2R3**	**4**	**0**	**3,745,710:84:0**
1459	96	353	11:27:50.066	127DY	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	3,745,711:84:0
1460	**96**	**353**	**11:27:50.066**	**127DY4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**3,745,711:84:0**
1461	**96**	**353**	**11:27:50.733**	**127DY4B**	**37ETB**	**04,C4,35,FF,FF**	**Loads wavelength edit table**	**2R3**	**4**	**0**	**3,745,711:85:0**
1462	96	353	11:27:58.733	127DY11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	3,745,712:06:0
1463	**96**	**353**	**11:28:14.733**	**432DE6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**	**NIMS R/T SELECT**	**2R3**	**4**	**0**	**3,745,712:30:0**
1464	96	353	11:28:46.066	117DY	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	3,745,712:77:0
1465	96	353	11:28:55.400	117DY105A106A4A	7STRP	0.0017,0.0,0,0,0	Slew =,0.03	2R3	4	0	3,745,713:00:0
1466	**96**	**353**	**11:29:14.066**	**432DF6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**2R3**	**4**	**0**	**3,745,713:28:0**
1467	96	353	11:29:56.066	117DY11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	3,745,714:00:0
1468	96	353	11:30:52.066	125DX	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	3,745,714:84:0
1469	**96**	**353**	**11:30:52.066**	**125DX4A**	**37MB**	**0,0,0,0,0,0**	**Selects mirror (spatial) edit table**	**2R3**	**4**	**0**	**3,745,714:84:0**
1470	96	353	11:30:52.066	125DX11A	NIMSINIT	GE	##### GROUP END INIT	2R3	4	0	3,745,714:84:0
1471	**96**	**353**	**11:31:00.733**	**E4JNRTHOTS01-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**
1472	**96**	**353**	**11:45:10.066**	**E4JNFEA01601-**		**-----START------**		**2R3**	**4**	**0**	**: :**
1473	96	353	11:46:05.400	165DV4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,745,729:89:0
1474	96	353	11:46:06.066	165DV4B	7SCAN	NORM,280.66,-24.	Check S/P Position	2R3	4	0	3,745,729:90:0
1475	**96**	**353**	**11:47:02.733**	**127DV4A**	**37IOP**	**5,1**	**Short Map, Grating Start Position =01**	**2R5**	**4**	**1**	**3,745,730:84:0**
1476	96	353	11:47:02.733	127DV	NIMSTAB	GS	%%%%% GROUP START TAB	2R5	4	1	3,745,730:84:0
1477	**96**	**353**	**11:47:03.400**	**127DV4B**	**37ETB**		**Loads wavelength edit table**	**2R5**	**4**	**1**	**3,745,730:85:0**
1478	96	353	11:47:11.400	127DV11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R5	4	1	3,745,731:06:0
1479	96	353	11:47:55.400	175DV422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,745,731:72:0
1480	96	353	11:47:58.733	117DV	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,745,731:77:0
1481	96	353	11:48:03.466		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *5716.48 +/-	2R5	4	1	3,745,731:84:1
1482	96	353	11:48:04.733	175DV176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	3,745,731:86:0
1483	96	353	11:48:04.933		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *5716.36 +/-	2R5	4	1	3,745,731:86:3

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
1484	96	353	11:48:04.933		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC 5716.36 +/-	2R5	4	1	3,745,731:86:3
1485	**96**	**353**	**11:48:07.655**	**E4JNFEA01601-**	**NIMPBK**	**301EE**	**JUPITER CAMP. FEAT. 16 DEG. PHAS**	**2R5**	**4**	**1**	**: :**
1486	96	353	11:48:08.066	117DV105A106A4A	7STRP	-0.043828,0.0,0,	Slew =,0.11	2R5	4	1	3,745,732:00:0
1487	**96**	**353**	**11:49:26.322**	**E4JNFEA01601-**	**DESELC**	**300EE**	**JUPITER CAMP. FEAT. 16 DEG. PHAS**	**2R5**	**4**	**1**	**: :**
1488	96	353	11:49:36.733	175DV422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,745,733:42:0
1489	96	353	11:49:36.733		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *5694.84 +/-	2R5	4	1	3,745,733:42:0
1490	96	353	11:49:36.733	175DV6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,745,733:42:0
1491	96	353	11:54:48.066	117DV11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,745,738:54:0
1492	**96**	**353**	**11:54:49.399**	**E4JNFEA01601-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**
1493	96	353	11:54:58.066	165DW4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,745,738:69:0
1494	96	353	11:54:58.733	165DW4B	7SCAN	NORM,281.507,-23	Check S/P Position	2R5	4	1	3,745,738:70:0
1495	**96**	**353**	**11:54:59.399**	**E4JNFEA01602-**		**-----START------**		**2R5**	**4**	**1**	**: :**
1496	96	353	11:55:08.066	127DW	NIMSTAB	GS	%%%%% GROUP START TAB	2R5	4	1	3,745,738:84:0
1497	**96**	**353**	**11:55:08.066**	**127DW4A**	**37IOP**	**5,1**	**Short Map, Grating Start Position =01**	**2R5**	**4**	**1**	**3,745,738:84:0**
1498	**96**	**353**	**11:55:08.733**	**127DW4B**	**37ETB**		**Loads wavelength edit table**	**2R5**	**4**	**1**	**3,745,738:85:0**
1499	96	353	11:55:16.733	127DW11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R5	4	1	3,745,739:06:0
1500	96	353	11:56:00.733	175DW422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,745,739:72:0
1501	96	353	11:56:04.066	117DW	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,745,739:77:0
1502	96	353	11:56:08.800		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *5696.18 +/-	2R5	4	1	3,745,739:84:1
1503	96	353	11:56:10.066	175DW176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	3,745,739:86:0
1504	96	353	11:56:10.266		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC 5696.06 +/-	2R5	4	1	3,745,739:86:3
1505	96	353	11:56:10.266		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *5696.06 +/-	2R5	4	1	3,745,739:86:3
1506	**96**	**353**	**11:56:12.989**	**E4JNFEA01602-**	**NIMPBK**	**301EF**	**JUPITER CAMP. FEAT. 16 DEG. PHAS**	**2R5**	**4**	**1**	**: :**
1507	96	353	11:56:13.400	117DW105A106A4A	7STRP	-0.043728,0.0,0,	Slew =,0.11	2R5	4	1	3,745,740:00:0
1508	**96**	**353**	**12:02:08.988**	**E4JNFEA01602-**	**DESELC**	**300EF**	**JUPITER CAMP. FEAT. 16 DEG. PHAS**	**2R5**	**4**	**1**	**: :**
1509	96	353	12:02:53.400	117DW105A106B4A	7STRP	0.041023,0.00800	Slew =12.01	2R5	4	1	3,745,746:54:0
1510	96	353	12:03:06.733	117DW105A106B4B	7STRP	-0.032712,0.0,0,	Slew =,0.11	2R5	4	1	3,745,746:74:0
1511	96	353	12:08:06.733	117DW11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,745,751:69:0
1512	96	353	12:08:18.066		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *5525.48 +/-	2R5	4	1	3,745,751:86:0
1513	96	353	12:08:18.066	175DW422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,745,751:86:0
1514	96	353	12:08:18.066	175DW6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,745,751:86:0
1515	**96**	**353**	**12:08:20.733**	**E4JNFEA01602-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**
1516	96	353	12:12:22.733	165IR4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,745,755:89:0
1517	96	353	12:12:23.400	165IR4B	7SCAN	OVER,297.949997,	Check S/P Position	2R5	4	1	3,745,755:90:0
1518	96	353	12:14:16.066	175IP422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2R5	4	1	3,745,757:77:0
1519	96	353	12:14:19.400	118IR	**SMOS**	GS		2R5	4	1	3,745,757:82:0
1520	96	353	12:14:24.066	165IR4C	7VECT		Inert vect update UTC	2R5	4	1	3,745,757:89:0
1521	96	353	12:14:24.133		DMS:	: *RUNUP	R115, TRACK *2, *REV, TIC *5526.81 +/-	2R5	4	1	3,745,757:89:1
1522	96	353	12:14:24.733	165IR4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	2R5	4	1	3,745,757:90:0
1523	96	353	12:14:28.066	175IP176A6A	6TMREC	HMA	115.2 KBPS IMAGE(1-400)RECORD Record Mode	2R5	4	1	3,745,758:04:0
1524	96	353	12:14:28.133		DMS:	**: *RECORD**	R115, TRACK 2, REV, TIC *5520.54 +/-	2R5	4	1	3,745,758:04:1
1525	96	353	12:14:28.133		DMS:	: *AT_SPD	R115, TRACK 2, REV, TIC 5520.54 +/-	2R5	4	1	3,745,758:04:1
1526	96	353	12:14:29.400	118IR110A111A4A	7STRP	0.0,-0.003401,92	Slew =,2.01	2R5	4	1	3,745,758:06:0
1527	96	353	12:15:00.066	118IR11A	**SMOS**	GE		2R5	4	1	3,745,758:52:0
1528	96	353	12:15:08.733	116IS4A	7STRP	0.0,-0.0003,0,0,	Slew =0,5.0	2R5	4	1	3,745,758:65:0
1529	96	353	12:15:27.400	176IA6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R5	4	1	3,745,759:02:0
1530	96	353	12:16:33.400	175IP422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,745,760:10:0
1531	96	353	12:16:33.400		DMS:	**: *RUNDOWN**	R115, TRACK 2, REV, TIC *5080.15 +/-	2R5	4	1	3,745,760:10:0
1532	**96**	**353**	**12:18:32.066**	**E4INVOLCAN05-**		**-----START------**		**2R5**	**4**	**1**	**: :**
1533	**96**	**353**	**12:19:24.066**	**125FD4A**	**37IST**	**0,2,0,OFF,0,1,0**	**Gain State 2**	**2R5**	**4**	**1**	**3,745,762:84:0**
1534	96	353	12:19:24.066	125FD11A	NIMSINIT	GE	##### GROUP END INIT	2R5	4	1	3,745,762:84:0
1535	96	353	12:19:24.066	125FD	NIMSINIT	GS	##### GROUP START INIT	2R5	4	1	3,745,762:84:0
1536	96	353	12:20:24.733	127FD	NIMSTAB	GS	%%%%% GROUP START TAB	2R5	4	1	3,745,763:84:0
1537	**96**	**353**	**12:20:24.733**	**127FD4A**	**37IOP**	**7,21**	**Fixed Map, Grating Start Position =21**	**2R7**	**4**	**21**	**3,745,763:84:0**
1538	**96**	**353**	**12:20:25.400**	**127FD4B**	**37ETB**	**07,C7,19,55,5D,0**	**Loads wavelength edit table**	**2R7**	**4**	**21**	**3,745,763:85:0**

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
1539	96	353	12:20:33.400	127FD11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R7	4	21	3,745,764:06:0
1540	96	353	12:21:28.733	165FD4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R7	4	21	3,745,764:89:0
1541	96	353	12:21:29.400	165FD4B	7SCAN	OVER,297.897999,	Check S/P Position	2R7	4	21	3,745,764:90:0
1542	96	353	12:21:34.066	117FD	**CSMOS**	GS	***** GROUP START CSMOS	2R7	4	21	3,745,765:06:0
1543	96	353	12:21:46.733	175FD422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R7	4	21	3,745,765:25:0
1544	96	353	12:21:54.800		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *5080.63 +/-	2R7	4	21	3,745,765:37:1
1545	96	353	12:21:56.066	175FD176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R7	4	21	3,745,765:39:0
1546	96	353	12:21:56.266		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *5080.51 +/-	2R7	4	21	3,745,765:39:3
1547	96	353	12:21:56.266		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC 5080.51 +/-	2R7	4	21	3,745,765:39:3
1548	96	353	12:21:56.733	117FD105A106A4A	7STRP	0.008,0.0,0,0,0,	Slew =,0.38	2R7	4	21	3,745,765:40:0
1549	96	353	12:22:21.400	117FD11A	**CSMOS**	GE	***** GROUP END CSMOS	2R7	4	21	3,745,765:77:0
1550	96	353	12:22:24.066	165DX4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R7	4	21	3,745,765:81:0
1551	96	353	12:22:24.733	165DX4B	7SCAN	NORM,281.436996,	Check S/P Position	2R7	4	21	3,745,765:82:0
1552	96	353	12:22:32.733		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *5071.97 +/-	2R7	4	21	3,745,766:03:0
1553	96	353	12:22:32.733	175FD422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R7	4	21	3,745,766:03:0
1554	96	353	12:22:32.733	175FD6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R7	4	21	3,745,766:03:0
1555	96	353	12:25:23.400	117DX	**CSMOS**	GS	***** GROUP START CSMOS	2R7	4	21	3,745,768:77:0
1556	96	353	12:25:32.733	117DX105A106A4A	7STRP	-0.022204,0.0,0,	Slew =,0.11	2R7	4	21	3,745,769:00:0
1557	96	353	12:28:55.400	117DX105A106A4B	7STRP	0.023004,-0.0080	Slew =12.01	2R7	4	21	3,745,772:31:0
1558	96	353	12:29:08.733	117DX105A106A4C	7STRP	-0.022204,0.0,0,	Slew =,0.11	2R7	4	21	3,745,772:51:0
1559	96	353	12:32:31.400	117DX11A	**CSMOS**	GE	***** GROUP END CSMOS	2R7	4	21	3,745,775:82:0
1560	**96**	**353**	**12:32:41.399**	**E4INVOLCAN05-**		**-----STOP-------**		**2R7**	**4**	**21**	**: :**
1561	96	353	12:35:39.400	411JA6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R7	4	21	3,745,779:00:0
1562	96	353	12:35:47.466		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *5073.30 +/-	2R7	4	21	3,745,779:12:1
1563	96	353	12:35:48.933		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *5073.18 +/-	2R7	4	21	3,745,779:14:3
1564	96	353	12:35:48.933		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC 5073.18 +/-	2R7	4	21	3,745,779:14:3
1565	96	353	12:35:49.400	411JA6B	6TMREC	BDT	7.68 KBPS BUFFER DUMP TO TAPE Record Mode	2R7	4	21	3,745,779:15:0
1566	96	353	12:37:50.733	411JA6C	6TMREC	**NRC**	NO RECORD Record Mode Change	2R7	4	21	3,745,781:15:0
1567	96	353	12:37:53.400	175TG176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	2R7	4	21	3,745,781:19:0
1568	96	353	12:37:54.066	175TG422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R7	4	21	3,745,781:20:0
1569	96	353	12:38:00.733		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *5042.29 +/-	2R7	4	21	3,745,781:30:0
1570	96	353	12:38:00.733	175TG422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R7	4	21	3,745,781:30:0
1571	96	353	12:40:41.400	165GG4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R7	4	21	3,745,783:89:0
1572	96	353	12:40:42.066	165GG4B	7SCAN	NORM,280.994999,	Check S/P Position	2R7	4	21	3,745,783:90:0
1573	96	353	12:44:36.066	117GG	**CSMOS**	GS	***** GROUP START CSMOS	2R7	4	21	3,745,787:77:0
1574	96	353	12:44:45.400	117GG105A106A4A	7STRP	0.01,-0.035878,0	Slew =,0.76	2R7	4	21	3,745,788:00:0
1575	96	353	12:44:45.400	176GG6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R7	4	21	3,745,788:00:0
1576	96	353	12:51:39.400	117GG105A106A4B	7STRP	-0.0076,0.036957	Slew =12.01	2R7	4	21	3,745,794:75:0
1577	96	353	12:52:14.733	117GG105A106A4C	7STRP	0.01,-0.035878,0	Slew =,0.76	2R7	4	21	3,745,795:37:0
1578	96	353	12:57:28.800		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *5043.63 +/-	2R7	4	21	3,745,800:53:1
1579	96	353	12:57:30.266		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *5043.51 +/-	2R7	4	21	3,745,800:55:3
1580	96	353	12:57:45.400		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *5039.96 +/-	2R7	4	21	3,745,800:78:0
1581	96	353	12:58:05.400		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *5035.27 +/-	2R7	4	21	3,745,801:17:0
1582	96	353	12:59:08.733	117GG105A106A4D	7STRP	-0.0076,0.036957	Slew =12.01	2R7	4	21	3,745,802:21:0
1583	96	353	12:59:44.066	117GG105A106A4E	7STRP	0.01,-0.035878,0	Slew =,0.76	2R7	4	21	3,745,802:74:0
1584	**96**	**353**	**12:59:59.334**	**E4NNRELOAD02-**		**-----START------**		**2R7**	**4**	**21**	**: :**
1585	**96**	**353**	**13:01:00.066**	**20EC6A**	**6CKSUM**	**NIMS**	**NIMS,1000,14BC**	**2R7**	**4**	**21**	**3,745,804:06:0**
1586	**96**	**353**	**13:02:00.733**	**20EC5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**2R7**	**4**	**21**	**3,745,805:06:0**
1587	96	353	13:02:36.066	488Q6A	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	2R7	4	21	3,745,805:59:0
1588	**96**	**353**	**13:03:01.400**	**20EC5B**	**37MRL**		**Memory Realocate (software operates from R**	**2R7**	**4**	**21**	**3,745,806:06:0**
1589	**96**	**353**	**13:04:02.066**	**20EC6B**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**2R7**	**4**	**21**	**3,745,807:06:0**
1590	**96**	**353**	**13:05:02.733**	**20EC6C**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**2R7**	**4**	**21**	**3,745,808:06:0**
1591	**96**	**353**	**13:06:03.400**	**20EC5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**3,745,809:06:0**
1592	96	353	13:06:38.066	117GG105A106A4F	7STRP	-0.0076,0.036957	Slew =12.01	260	4	0	3,745,809:58:0
1593	**96**	**353**	**13:07:04.066**	**20EC5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**3,745,810:06:0**

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
1594	96	353	13:07:13.400	117GG105A106A4G	7STRP	0.01,-0.035878,0	Slew =,0.76	260	4	0	3,745,810:20:0
1595	**96**	**353**	**13:08:04.733**	**20EC4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**3,745,811:06:0**
1596	**96**	**353**	**13:09:05.400**	**20EC4B**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**3,745,812:06:0**
1597	96	353	13:10:30.800		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *5036.61 +/-	2R3	4	0	3,745,813:43:1
1598	96	353	13:10:32.266		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *5036.49 +/-	2R3	4	0	3,745,813:45:3
1599	96	353	13:10:47.400		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *5032.94 +/-	2R3	4	0	3,745,813:68:0
1600	96	353	13:11:07.400		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *5028.25 +/-	2R3	4	0	3,745,814:07:0
1601	96	353	13:14:07.400	117GG11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	3,745,817:04:0
1602	**96**	**353**	**13:15:09.334**	**E4NNRELOAD02-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**
1603	96	353	13:15:22.733	176GG6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	3,745,818:26:0
1604	96	353	13:15:32.800		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *5029.59 +/-	2R3	4	0	3,745,818:41:1
1605	96	353	13:15:34.266		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *5029.47 +/-	2R3	4	0	3,745,818:43:3
1606	96	353	13:15:34.733		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *5029.36 +/-	2R3	4	0	3,745,818:44:0
1607	96	353	13:15:46.066		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *5026.70 +/-	2R3	4	0	3,745,818:61:0
1608	**96**	**353**	**13:22:14.066**	**E4JNPFTA1602-**		**-----START------**		**2R3**	**4**	**0**	**: :**
1609	**96**	**353**	**13:23:06.066**	**125DZ4A**	**37IST**	**0,2,0,OFF,0,1,0**	**Gain State 2**	**2R3**	**4**	**0**	**3,745,825:84:0**
1610	96	353	13:23:06.066	125DZ	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	3,745,825:84:0
1611	96	353	13:23:06.066	125DZ11A	NIMSINIT	GE	##### GROUP END INIT	2R3	4	0	3,745,825:84:0
1612	**96**	**353**	**13:24:06.733**	**127DZ4A**	**37IOP**	**5,1**	**Short Map, Grating Start Position =01**	**2R5**	**4**	**1**	**3,745,826:84:0**
1613	96	353	13:24:06.733	127DZ	NIMSTAB	GS	%%%%% GROUP START TAB	2R5	4	1	3,745,826:84:0
1614	**96**	**353**	**13:24:07.400**	**127DZ4B**	**37ETB**		**Loads wavelength edit table**	**2R5**	**4**	**1**	**3,745,826:85:0**
1615	96	353	13:24:10.066	165DZ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,745,826:89:0
1616	96	353	13:24:10.733	165DZ4B	7SCAN	NORM,281.971996,	Check S/P Position	2R5	4	1	3,745,826:90:0
1617	96	353	13:24:15.400	127DZ11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R5	4	1	3,745,827:06:0
1618	96	353	13:24:59.400	175DZ422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,745,827:72:0
1619	96	353	13:25:02.733	117DZ	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,745,827:77:0
1620	96	353	13:25:07.466		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *5028.04 +/-	2R5	4	1	3,745,827:84:1
1621	96	353	13:25:08.733	175DZ176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	3,745,827:86:0
1622	96	353	13:25:08.933		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC 5027.92 +/-	2R5	4	1	3,745,827:86:3
1623	96	353	13:25:08.933		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *5027.92 +/-	2R5	4	1	3,745,827:86:3
1624	96	353	13:25:12.066	117DZ105A106A4A	7STRP	-0.022104,0.0,0,	Slew =,0.11	2R5	4	1	3,745,828:00:0
1625	96	353	13:28:34.733	117DZ105A106A4B	7STRP	0.023004,-0.0080	Slew =12.01	2R5	4	1	3,745,831:31:0
1626	96	353	13:28:48.066	117DZ105A106A4C	7STRP	-0.022104,0.0,0,	Slew =,0.11	2R5	4	1	3,745,831:51:0
1627	96	353	13:32:10.733	117DZ11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,745,834:82:0
1628	96	353	13:32:22.066	175DZ6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,745,835:08:0
1629	96	353	13:32:22.066	175DZ422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,745,835:08:0
1630	96	353	13:32:22.066		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *4926.40 +/-	2R5	4	1	3,745,835:08:0
1631	**96**	**353**	**13:33:21.399**	**E4JNPFTA1602-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**
1632	**96**	**353**	**13:34:22.066**	**E4JNFEA01604-**		**-----START------**		**2R5**	**4**	**1**	**: :**
1633	96	353	13:35:17.400	165EA4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,745,837:89:0
1634	96	353	13:35:18.066	165EA4B	7SCAN	NORM,282.346996,	Check S/P Position	2R5	4	1	3,745,837:90:0
1635	**96**	**353**	**13:36:14.733**	**127EA4A**	**37IOP**	**5,1**	**Short Map, Grating Start Position =01**	**2R5**	**4**	**1**	**3,745,838:84:0**
1636	96	353	13:36:14.733	127EA	NIMSTAB	GS	%%%%% GROUP START TAB	2R5	4	1	3,745,838:84:0
1637	**96**	**353**	**13:36:15.400**	**127EA4B**	**37ETB**		**Loads wavelength edit table**	**2R5**	**4**	**1**	**3,745,838:85:0**
1638	96	353	13:36:23.400	127EA11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R5	4	1	3,745,839:06:0
1639	96	353	13:37:07.400	175EA422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,745,839:72:0
1640	96	353	13:37:10.733	117EA	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,745,839:77:0
1641	96	353	13:37:15.466		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *4927.74 +/-	2R5	4	1	3,745,839:84:1
1642	96	353	13:37:16.733	175EA176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	3,745,839:86:0
1643	96	353	13:37:16.933		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *4927.62 +/-	2R5	4	1	3,745,839:86:3
1644	96	353	13:37:16.933		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC 4927.62 +/-	2R5	4	1	3,745,839:86:3
1645	96	353	13:37:20.066	117EA105A106A4A	7STRP	-0.043828,0.0,0,	Slew =,0.11	2R5	4	1	3,745,840:00:0
1646	96	353	13:44:00.066	117EA105A106B4A	7STRP	0.03902,-0.00800	Slew =12.01	2R5	4	1	3,745,846:54:0
1647	96	353	13:44:13.400	117EA105A106B4B	7STRP	-0.032912,0.0,0,	Slew =,0.11	2R5	4	1	3,745,846:74:0
1648	**96**	**353**	**13:44:15.651**	**E4JNFEA01604-**	**NIMPBK**	**301EJ**	**JUPITER CAMP. FEAT. 16 DEG. PHAS**	**2R5**	**4**	**1**	**: :**

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1649	**96**	**353**	**13:49:12.985**	**E4JNFEA01604-**	**DESELC**	**300EJ**	**JUPITER CAMP. FEAT. 16 DEG. PHAS**	**2R5**	**4**	**1**	**: :**	
1650	96	353	13:49:13.400	117EA11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,745,851:69:0	
1651	96	353	13:49:24.733		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *4757.04 +/-	2R5	4	1	3,745,851:86:0	
1652	96	353	13:49:24.733	175EA422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,745,851:86:0	
1653	96	353	13:49:24.733	175EA6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,745,851:86:0	
1654	**96**	**353**	**13:49:32.066**	**E4JNFEA01604-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**	
1655	**96**	**353**	**13:51:33.399**	**E4JNFEASUB01-**		**-----START------**		**2R5**	**4**	**1**	**: :**	
1656	96	353	13:52:28.733	165EB4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,745,854:89:0	
1657	96	353	13:52:29.400	165EB4B	7SCAN	NORM,282.841999,	Check S/P Position	2R5	4	1	3,745,854:90:0	
1658	**96**	**353**	**13:55:27.400**	**127EB4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**3,745,857:84:0**	
1659	96	353	13:55:27.400	127EB	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	3,745,857:84:0	
1660	**96**	**353**	**13:55:28.066**	**127EB4B**	**37ETB**		**Loads wavelength edit table**	**2R3**	**4**	**0**	**3,745,857:85:0**	
1661	96	353	13:55:36.066	127EB11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	3,745,858:06:0	
1662	96	353	13:56:20.066	175EB422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	3,745,858:72:0	
1663	96	353	13:56:23.400	117EB	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	3,745,858:77:0	
1664	96	353	13:56:28.133		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *4758.38 +/-	2R3	4	0	3,745,858:84:1	
1665	96	353	13:56:29.400	175EB176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R3	4	0	3,745,858:86:0	
1666	96	353	13:56:29.600		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC 4758.26 +/-	2R3	4	0	3,745,858:86:3	
1667	96	353	13:56:29.600		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *4758.26 +/-	2R3	4	0	3,745,858:86:3	
1668	**96**	**353**	**13:56:32.317**	**E4JNFEASUB01-**	**NIMPBK**	**301EK**	**JUPITER CAMPAIGN FEATURE SUB- SP**	**2R3**	**4**	**0**	**: :**	
1669	96	353	13:56:32.733	117EB105A106A4A	7STRP	-0.043027,0.0,0,	Slew =,0.03	2R3	4	0	3,745,859:00:0	
1670	**96**	**353**	**14:07:51.650**	**E4JNFEASUB01-**	**NIMPBK**	**301EW**	**JUPITER CAMPAIGN FEATURE SUB- SP**	**2R3**	**4**	**0**	**: :**	
1671	**96**	**353**	**14:08:00.317**	**E4JNFEASUB01-**	**DESELC**	**300EK**	**JUPITER CAMPAIGN FEATURE SUB- SP**	**2R3**	**4**	**0**	**: :**	
1672	**96**	**353**	**14:20:29.649**	**E4JNFEASUB01-**	**DESELC**	**300EW**	**JUPITER CAMPAIGN FEATURE SUB- SP**	**2R3**	**4**	**0**	**: :**	
1673	96	353	14:20:30.066	117EB11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	3,745,882:63:0	
1674	96	353	14:20:41.400	175EB6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	3,745,882:80:0	
1675	96	353	14:20:41.400	175EB422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,745,882:80:0	
1676	96	353	14:20:41.400		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *4417.99 +/-	2R3	4	0	3,745,882:80:0	
1677	**96**	**353**	**14:20:52.733**	**E4JNFEASUB01-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**	
1678	**96**	**353**	**14:21:53.399**	**E4INCHEMIS02-**		**-----START------**		**2R3**	**4**	**0**	**: :**	
1679	96	353	14:22:00.066	165EC4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,745,884:16:0	
1680	96	353	14:22:00.733	165EC4B	7SCAN	NORM,299.607998,	Check S/P Position	2R3	4	0	3,745,884:17:0	
1681	**96**	**353**	**14:24:46.733**	**127EC4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**3,745,886:84:0**	
1682	96	353	14:24:46.733	127EC	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	3,745,886:84:0	
1683	**96**	**353**	**14:24:47.400**	**127EC4B**	**37ETB**	**07,C7,02,01,80,0**	**Loads wavelength edit table**	**2R3**	**4**	**0**	**3,745,886:85:0**	
1684	96	353	14:24:55.400	127EC11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	3,745,887:06:0	
1685	96	353	14:25:54.066	175EC422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	3,745,888:03:0	
1686	96	353	14:25:54.733	117EC	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	3,745,888:04:0	
1687	96	353	14:26:02.133		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *4419.33 +/-	2R3	4	0	3,745,888:15:1	
1688	96	353	14:26:03.400	175EC176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R3	4	0	3,745,888:17:0	
1689	96	353	14:26:03.600		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC 4419.21 +/-	2R3	4	0	3,745,888:17:3	
1690	96	353	14:26:03.600		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *4419.21 +/-	2R3	4	0	3,745,888:17:3	
1691	96	353	14:26:04.066	117EC105A106A4A	7STRP	0.009,0.0,0,0,0,	Slew =,0.03	2R3	4	0	3,745,888:18:0	
1692	96	353	14:31:05.400	117EC11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	3,745,893:15:0	
1693	96	353	14:31:16.733	175EC6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	3,745,893:32:0	
1694	96	353	14:31:16.733	175EC422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,745,893:32:0	
1695	96	353	14:31:16.733		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *4345.82 +/-	2R3	4	0	3,745,893:32:0	
1696	**96**	**353**	**14:32:00.066**	**E4INCHEMIS02-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**	
1697	96	353	14:32:00.066	117GF	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	3,745,894:06:0	
1698	96	353	14:32:01.400	165GF4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,745,894:08:0	
1699	96	353	14:32:02.066	165GF4B	7SCAN	NORM,299.565998,	Check S/P Position	2R3	4	0	3,745,894:09:0	
1700	96	353	14:32:29.400	117GF105A106A4A	7STRP	0.0091,0.0,0,0,0	Slew =,0.11	2R3	4	0	3,745,894:50:0	
1701	96	353	14:32:29.400	176GF6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R3	4	0	3,745,894:50:0	
1702	96	353	14:33:56.733	117GF105A106A4B	7STRP	-0.009,0.0012,0,	Slew =,2.01	2R3	4	0	3,745,895:90:0	
1703	96	353	14:34:04.733	117GF105A106A4C	7STRP	0.0091,0.0,0,0,0	Slew =,0.11	2R3	4	0	3,745,896:11:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1704	96	353	14:35:32.066	117GF105A106A4D	7STRP	-0.009,0.0012,0,	Slew =,2.01	2R3	4	0	3,745,897:51:0	
1705	96	353	14:35:40.066	117GF105A106A4E	7STRP	0.0091,0.0,0,0,0	Slew =,0.11	2R3	4	0	3,745,897:63:0	
1706	96	353	14:37:07.400	117GF105A106A4F	7STRP	-0.009,0.0012,0,	Slew =,2.01	2R3	4	0	3,745,899:12:0	
1707	96	353	14:37:15.400	117GF105A106A4G	7STRP	0.0091,0.0,0,0,0	Slew =,0.11	2R3	4	0	3,745,899:24:0	
1708	96	353	14:38:42.733	117GF105A106A4H	7STRP	-0.009,0.0012,0,	Slew =,2.01	2R3	4	0	3,745,900:64:0	
1709	96	353	14:38:50.733	117GF105A106A4I	7STRP	0.0091,0.0,0,0,0	Slew =,0.11	2R3	4	0	3,745,900:76:0	
1710	96	353	14:40:18.066	117GF105A106A4J	7STRP	-0.009,0.0012,0,	Slew =,2.01	2R3	4	0	3,745,902:25:0	
1711	96	353	14:40:26.066	117GF105A106A4K	7STRP	0.0091,0.0,0,0,0	Slew =,0.11	2R3	4	0	3,745,902:37:0	
1712	96	353	14:41:53.400	117GF105A106A4L	7STRP	-0.009,0.0012,0,	Slew =,2.01	2R3	4	0	3,745,903:77:0	
1713	96	353	14:42:01.400	117GF105A106A4M	7STRP	0.0091,0.0,0,0,0	Slew =,0.11	2R3	4	0	3,745,903:89:0	
1714	96	353	14:43:28.733	176GF6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	3,745,905:38:0	
1715	96	353	14:43:28.733	117GF11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	3,745,905:38:0	
1716	96	353	14:43:38.800		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *4347.15 +/-	2R3	4	0	3,745,905:53:1	
1717	96	353	14:43:40.266		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *4347.03 +/-	2R3	4	0	3,745,905:55:3	
1718	96	353	14:43:40.733		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *4346.92 +/-	2R3	4	0	3,745,905:56:0	
1719	96	353	14:43:58.066		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *4342.86 +/-	2R3	4	0	3,745,905:82:0	
1720	**96**	**353**	**15:03:20.733**	**E4JNPFTB1603-**		**-----START------**		**2R3**	**4**	**0**	**: :**	
1721	96	353	15:04:02.066	165ED4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,745,925:68:0	
1722	96	353	15:04:02.733	165ED4B	7SCAN	NORM,284.134998,	Check S/P Position	2R3	4	0	3,745,925:69:0	
1723	96	353	15:07:14.733	127ED	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	3,745,928:84:0	
1724	**96**	**353**	**15:07:14.733**	**127ED4A**	**37IOP**	**5,1**	**Short Map, Grating Start Position =01**	**2R5**	**4**	**1**	**3,745,928:84:0**	
1725	**96**	**353**	**15:07:15.400**	**127ED4B**	**37ETB**		**Loads wavelength edit table**	**2R5**	**4**	**1**	**3,745,928:85:0**	
1726	96	353	15:07:23.400	127ED11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R5	4	1	3,745,929:06:0	
1727	96	353	15:08:07.400	175ED422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,745,929:72:0	
1728	96	353	15:08:10.733	117ED	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,745,929:77:0	
1729	96	353	15:08:15.466		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *4344.19 +/-	2R5	4	1	3,745,929:84:1	
1730	96	353	15:08:16.733	175ED176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	3,745,929:86:0	
1731	96	353	15:08:16.933		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *4344.08 +/-	2R5	4	1	3,745,929:86:3	
1732	96	353	15:08:16.933		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC 4344.08 +/-	2R5	4	1	3,745,929:86:3	
1733	**96**	**353**	**15:08:19.648**	**E4JNPFTB1603,**	**NIMPBK**	**301EM**	**JUP. PARTIAL FEAT. TR. FOR FEAT.**	**2R5**	**4**	**1**	**: :**	
1734	96	353	15:08:20.066	117ED105A106A4A	7STRP	-0.019502,0.0,0,	Slew =,0.11	2R5	4	1	3,745,930:00:0	
1735	**96**	**353**	**15:08:44.982**	**E4JNPFTB1603,**	**DESELC**	**300EM**	**JUP. PARTIAL FEAT. TR. FOR FEAT.**	**2R5**	**4**	**1**	**: :**	
1736	96	353	15:08:54.733	175ED422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,745,930:52:0	
1737	96	353	15:08:54.733	175ED6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,745,930:52:0	
1738	96	353	15:08:54.733		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *4335.22 +/-	2R5	4	1	3,745,930:52:0	
1739	96	353	15:11:18.733	117ED11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,745,932:86:0	
1740	**96**	**353**	**15:11:26.066**	**E4JNPFTB1603-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**	
1741	**96**	**353**	**15:11:32.733**	**E4JNPFTA1603-**		**-----START------**		**2R5**	**4**	**1**	**: :**	
1742	96	353	15:11:41.400	165EE4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,745,933:29:0	
1743	96	353	15:11:42.066	165EE4B	7SCAN	NORM,284.209,-22	Check S/P Position	2R5	4	1	3,745,933:30:0	
1744	96	353	15:12:18.066	127EE	NIMSTAB	GS	%%%%% GROUP START TAB	2R5	4	1	3,745,933:84:0	
1745	**96**	**353**	**15:12:18.066**	**127EE4A**	**37IOP**	**5,1**	**Short Map, Grating Start Position =01**	**2R5**	**4**	**1**	**3,745,933:84:0**	
1746	**96**	**353**	**15:12:18.733**	**127EE4B**	**37ETB**		**Loads wavelength edit table**	**2R5**	**4**	**1**	**3,745,933:85:0**	
1747	96	353	15:12:26.733	127EE11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R5	4	1	3,745,934:06:0	
1748	96	353	15:13:10.733	175EE422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,745,934:72:0	
1749	96	353	15:13:14.066	117EE	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,745,934:77:0	
1750	96	353	15:13:18.800		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *4336.55 +/-	2R5	4	1	3,745,934:84:1	
1751	96	353	15:13:20.066	175EE176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	3,745,934:86:0	
1752	96	353	15:13:20.266		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *4336.43 +/-	2R5	4	1	3,745,934:86:3	
1753	96	353	15:13:20.266		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC 4336.43 +/-	2R5	4	1	3,745,934:86:3	
1754	96	353	15:13:23.400	117EE105A106A4A	7STRP	-0.018002,0.0,0,	Slew =,0.11	2R5	4	1	3,745,935:00:0	
1755	96	353	15:17:04.066	117EE105A106A4B	7STRP	0.020003,-0.0080	Slew =12.01	2R5	4	1	3,745,938:58:0	
1756	96	353	15:17:20.066	117EE105A106A4C	7STRP	-0.018002,0.0,0,	Slew =,0.11	2R5	4	1	3,745,938:82:0	
1757	96	353	15:20:34.733	175EE422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,745,942:10:0	
1758	96	353	15:20:34.733		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *4234.60 +/-	2R5	4	1	3,745,942:10:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1759	96	353	15:20:34.733	175EE6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,745,942:10:0	
1760	96	353	15:21:00.733	117EE11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,745,942:49:0	
1761	**96**	**353**	**15:23:34.066**	**E4JNPFTA1603-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**	
1762	96	353	15:24:29.400	165EF4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,745,945:89:0	
1763	96	353	15:24:30.066	165EF4B	7SCAN	NORM,285.703999,	Check S/P Position	2R5	4	1	3,745,945:90:0	
1764	**96**	**353**	**15:24:34.733**	**E4JNFEA01605-**		**-----START------**		**2R5**	**4**	**1**	**: :**	
1765	**96**	**353**	**15:25:26.733**	**127EF4A**	**37IOP**	**5,1**	**Short Map, Grating Start Position =01**	**2R5**	**4**	**1**	**3,745,946:84:0**	
1766	96	353	15:25:26.733	127EF	NIMSTAB	GS	%%%%% GROUP START TAB	2R5	4	1	3,745,946:84:0	
1767	**96**	**353**	**15:25:27.400**	**127EF4B**	**37ETB**		**Loads wavelength edit table**	**2R5**	**4**	**1**	**3,745,946:85:0**	
1768	96	353	15:25:35.400	127EF11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R5	4	1	3,745,947:06:0	
1769	96	353	15:26:19.400	175EF422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,745,947:72:0	
1770	96	353	15:26:22.733	117EF	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,745,947:77:0	
1771	96	353	15:26:27.466		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *4235.94 +/-	2R5	4	1	3,745,947:84:1	
1772	96	353	15:26:28.733	175EF176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	3,745,947:86:0	
1773	96	353	15:26:28.933		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC 4235.82 +/-	2R5	4	1	3,745,947:86:3	
1774	96	353	15:26:28.933		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *4235.82 +/-	2R5	4	1	3,745,947:86:3	
1775	96	353	15:26:32.066	117EF105A106A4A	7STRP	-0.032011,0.0,0,	Slew =,0.11	2R5	4	1	3,745,948:00:0	
1776	96	353	15:33:41.400	117EF105A106B4A	7STRP	0.023004,-0.0070	Slew =12.01	2R5	4	1	3,745,955:07:0	
1777	96	353	15:33:59.400	117EF105A106B4B	7STRP	-0.017002,0.0,0,	Slew =,0.11	2R5	4	1	3,745,955:34:0	
1778	96	353	15:35:20.733		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *4111.18 +/-	2R5	4	1	3,745,956:65:0	
1779	96	353	15:35:20.733	175EF6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,745,956:65:0	
1780	96	353	15:35:20.733	175EF422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,745,956:65:0	
1781	96	353	15:39:25.400	117EF11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,745,960:68:0	
1782	**96**	**353**	**15:39:44.733**	**E4JNFEA01605-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**	
1783	96	353	15:53:26.066	488Q6B	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	2R5	4	1	3,745,974:55:0	
1784	**96**	**353**	**16:41:25.399**	**E4JNAWGWIN01-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**	
1785	**96**	**353**	**16:59:37.334**	**E4NNRELOAD03-**		**-----START------**		**2R5**	**4**	**1**	**: :**	
1786	**96**	**353**	**17:00:38.066**	**20ED6A**	**6CKSUM**	**NIMS**	**NIMS,1000,14BC**	**2R5**	**4**	**1**	**3,746,041:06:0**	
1787	**96**	**353**	**17:01:38.733**	**20ED5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**2R5**	**4**	**1**	**3,746,042:06:0**	
1788	**96**	**353**	**17:02:39.400**	**20ED5B**	**37MRL**		**Memory Realocate (software operates from R**	**2R5**	**4**	**1**	**3,746,043:06:0**	
1789	**96**	**353**	**17:03:40.066**	**20ED6B**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**2R5**	**4**	**1**	**3,746,044:06:0**	
1790	**96**	**353**	**17:04:40.733**	**20ED6C**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**2R5**	**4**	**1**	**3,746,045:06:0**	
1791	**96**	**353**	**17:05:41.400**	**20ED5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**3,746,046:06:0**	
1792	**96**	**353**	**17:06:42.066**	**20ED5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**3,746,047:06:0**	
1793	**96**	**353**	**17:07:42.733**	**20ED4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**3,746,048:06:0**	
1794	**96**	**353**	**17:08:43.400**	**20ED4B**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**3,746,049:06:0**	
1795	96	353	17:11:42.066	488Q6C	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	2R3	4	0	3,746,052:01:0	
1796	**96**	**353**	**17:14:47.334**	**E4NNRELOAD03-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**	
1797	96	353	17:31:53.400	165EG4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,746,071:89:0	
1798	96	353	17:31:54.066	165EG4B	7SCAN	NORM,297.811996,	Check S/P Position	2R3	4	0	3,746,071:90:0	
1799	**96**	**353**	**17:31:58.733**	**E4INCHEMIS03-**		**-----START------**		**2R3**	**4**	**0**	**: :**	
1800	96	353	17:35:52.733	127EG	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	3,746,075:84:0	
1801	**96**	**353**	**17:35:52.733**	**127EG4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**3,746,075:84:0**	
1802	**96**	**353**	**17:35:53.400**	**127EG4B**	**37ETB**	**07,C7,02,01,80,0**	**Loads wavelength edit table**	**2R3**	**4**	**0**	**3,746,075:85:0**	
1803	96	353	17:36:01.400	127EG11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	3,746,076:06:0	
1804	96	353	17:36:45.400	175EG422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	3,746,076:72:0	
1805	96	353	17:36:48.733	117EG	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	3,746,076:77:0	
1806	96	353	17:36:53.466		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *4112.51 +/-	2R3	4	0	3,746,076:84:1	
1807	96	353	17:36:54.733	175EG176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R3	4	0	3,746,076:86:0	
1808	96	353	17:36:54.933		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC 4112.39 +/-	2R3	4	0	3,746,076:86:3	
1809	96	353	17:36:54.933		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *4112.39 +/-	2R3	4	0	3,746,076:86:3	
1810	96	353	17:36:58.066	117EG105A106A4A	7STRP	0.013201,0.0,0,0	Slew =,0.03	2R3	4	0	3,746,077:00:0	
1811	96	353	17:44:19.400	117EG11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	3,746,084:25:0	
1812	96	353	17:44:30.733	175EG422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,746,084:42:0	
1813	96	353	17:44:30.733	175EG6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	3,746,084:42:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
1814	96	353	17:44:30.733		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *4005.57 +/-	2R3	4	0	3,746,084:42:0
1815	**96**	**353**	**17:45:07.400**	**E4INCHEMIS03-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**
1816	96	353	17:49:33.400	488Q6D	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	2R3	4	0	3,746,089:41:0
1817	**96**	**353**	**17:50:10.667**	**E4NNFULMRO01-**		**-----START------**		**2R3**	**4**	**0**	**: :**
1818	**96**	**353**	**17:50:10.733**	**480EA6A**	**6MROH**	**37,1000,29,A2**	**read from NIMS37,1000,29,A**	**2R3**	**4**	**0**	**3,746,090:06:0**
1819	96	353	18:20:42.066	488Q6E	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	2R3	4	0	3,746,120:23:0
1820	96	353	18:31:32.733	165GH4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,746,130:89:0
1821	96	353	18:31:33.400	165GH4B	7SCAN	NORM,300.533997,	Check S/P Position	2R3	4	0	3,746,130:90:0
1822	96	353	18:35:27.400	117GH	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	3,746,134:77:0
1823	96	353	18:35:36.733	117GH105A106A4A	7STRP	0.033012,0.17370	Slew =,0.45	2R3	4	0	3,746,135:00:0
1824	96	353	18:35:36.733	176GH6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R3	4	0	3,746,135:00:0
1825	96	353	18:48:20.133		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *4006.90 +/-	2R3	4	0	3,746,147:53:1
1826	96	353	18:48:21.600		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *4006.78 +/-	2R3	4	0	3,746,147:55:3
1827	96	353	18:48:36.733		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *4003.24 +/-	2R3	4	0	3,746,147:78:0
1828	96	353	18:48:56.733		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *3998.55 +/-	2R3	4	0	3,746,148:17:0
1829	96	353	19:01:22.133		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *3999.88 +/-	2R3	4	0	3,746,160:43:1
1830	96	353	19:01:23.600		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *3999.76 +/-	2R3	4	0	3,746,160:45:3
1831	96	353	19:01:38.733		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *3996.22 +/-	2R3	4	0	3,746,160:68:0
1832	96	353	19:01:58.733		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *3991.53 +/-	2R3	4	0	3,746,161:07:0
1833	96	353	19:02:54.733	117GH11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	3,746,162:00:0
1834	96	353	19:06:11.400	176GH6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	3,746,165:22:0
1835	96	353	19:06:21.466		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *3992.86 +/-	2R3	4	0	3,746,165:37:1
1836	96	353	19:06:22.933		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *3992.74 +/-	2R3	4	0	3,746,165:39:3
1837	96	353	19:06:23.400		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *3992.64 +/-	2R3	4	0	3,746,165:40:0
1838	96	353	19:06:34.733		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *3989.98 +/-	2R3	4	0	3,746,165:57:0
1839	96	353	19:10:38.066	488R6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	2R3	4	0	3,746,169:58:0
1840	96	353	19:50:24.733	165GI4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,746,208:89:0
1841	96	353	19:50:25.400	165GI4B	7SCAN	NORM,237.016998,	Check S/P Position	2R3	4	0	3,746,208:90:0
1842	96	353	19:54:19.400	117GI	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	3,746,212:77:0
1843	96	353	19:54:28.733	117GI105A106A4A	7STRP	0.018002,0.0,0,0	Slew =0,0.1	2R3	4	0	3,746,213:00:0
1844	96	353	19:54:28.733	176GI6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R3	4	0	3,746,213:00:0
1845	96	353	19:57:31.400	117GI105A106A4B	7STRP	-0.018252,-0.001	Slew =,8.51	2R3	4	0	3,746,216:01:0
1846	96	353	19:57:38.066	117GI105A106A4C	7STRP	0.018002,0.0,0,0	Slew =0,0.1	2R3	4	0	3,746,216:11:0
1847	96	353	20:00:40.733	117GI105A106A4D	7STRP	-0.018252,-0.001	Slew =,8.51	2R3	4	0	3,746,219:12:0
1848	96	353	20:00:47.400	117GI105A106A4E	7STRP	0.018002,0.0,0,0	Slew =0,0.1	2R3	4	0	3,746,219:22:0
1849	96	353	20:03:50.066	117GI105A106A4F	7STRP	-0.018252,-0.001	Slew =,8.51	2R3	4	0	3,746,222:23:0
1850	96	353	20:03:56.733	117GI105A106A4G	7STRP	0.018002,0.0,0,0	Slew =0,0.1	2R3	4	0	3,746,222:33:0
1851	96	353	20:06:59.400	117GI105A106A4H	7STRP	-0.018252,-0.001	Slew =,8.51	2R3	4	0	3,746,225:34:0
1852	96	353	20:07:06.066	117GI105A106A4I	7STRP	0.018002,0.0,0,0	Slew =0,0.1	2R3	4	0	3,746,225:44:0
1853	96	353	20:07:12.133		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *3991.31 +/-	2R3	4	0	3,746,225:53:1
1854	96	353	20:07:13.600		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *3991.20 +/-	2R3	4	0	3,746,225:55:3
1855	96	353	20:07:28.733		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *3987.65 +/-	2R3	4	0	3,746,225:78:0
1856	96	353	20:07:48.733		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *3982.96 +/-	2R3	4	0	3,746,226:17:0
1857	96	353	20:10:08.733	117GI105A106A4J	7STRP	-0.018252,-0.001	Slew =,8.51	2R3	4	0	3,746,228:45:0
1858	96	353	20:10:15.400	117GI105A106A4K	7STRP	0.018002,0.0,0,0	Slew =0,0.1	2R3	4	0	3,746,228:55:0
1859	96	353	20:13:18.066	117GI105A106A4L	7STRP	-0.018252,-0.001	Slew =,8.51	2R3	4	0	3,746,231:56:0
1860	96	353	20:13:24.733	117GI105A106A4M	7STRP	0.018002,0.0,0,0	Slew =0,0.1	2R3	4	0	3,746,231:66:0
1861	96	353	20:16:27.400	117GI105A106A4N	7STRP	-0.018252,-0.001	Slew =,8.51	2R3	4	0	3,746,234:67:0
1862	96	353	20:16:34.066	117GI105A106A4O	7STRP	0.018002,0.0,0,0	Slew =0,0.1	2R3	4	0	3,746,234:77:0
1863	96	353	20:19:36.733	117GI105A106A4P	7STRP	-0.018252,-0.001	Slew =,8.51	2R3	4	0	3,746,237:78:0
1864	96	353	20:19:43.400	117GI105A106A4Q	7STRP	0.018002,0.0,0,0	Slew =0,0.1	2R3	4	0	3,746,237:88:0
1865	96	353	20:20:14.133		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *3984.29 +/-	2R3	4	0	3,746,238:43:1
1866	96	353	20:20:15.600		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *3984.18 +/-	2R3	4	0	3,746,238:45:3
1867	96	353	20:20:30.733		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *3980.63 +/-	2R3	4	0	3,746,238:68:0
1868	96	353	20:20:50.733		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *3975.94 +/-	2R3	4	0	3,746,239:07:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1869	96	353	20:22:46.066	117GI105A106A4R	7STRP	-0.018252,-0.001	Slew =,8.51	2R3	4	0	3,746,240:89:0	
1870	96	353	20:22:52.733	117GI105A106A4S	7STRP	0.018002,0.0,0,0	Slew =0,0.1	2R3	4	0	3,746,241:08:0	
1871	96	353	20:25:55.400	117GI105A106A4T	7STRP	-0.018252,-0.001	Slew =,8.51	2R3	4	0	3,746,244:09:0	
1872	96	353	20:26:02.066	117GI105A106A4U	7STRP	0.018002,0.0,0,0	Slew =0,0.1	2R3	4	0	3,746,244:19:0	
1873	96	353	20:29:04.733	117GI105A106A4V	7STRP	-0.018252,-0.001	Slew =,8.51	2R3	4	0	3,746,247:20:0	
1874	96	353	20:29:11.400	117GI105A106A4W	7STRP	0.018002,0.0,0,0	Slew =0,0.1	2R3	4	0	3,746,247:30:0	
1875	96	353	20:32:14.066	117GI105A106A4X	7STRP	-0.018252,-0.001	Slew =,8.51	2R3	4	0	3,746,250:31:0	
1876	96	353	20:32:20.733	117GI105A106A4Y	7STRP	0.018002,0.0,0,0	Slew =0,0.1	2R3	4	0	3,746,250:41:0	
1877	96	353	20:33:16.133		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *3977.28 +/- 1	2R3	4	0	3,746,251:33:1	
1878	96	353	20:33:17.600		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *3977.16 +/- 1	2R3	4	0	3,746,251:35:3	
1879	96	353	20:33:32.733		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *3973.61 +/- 1	2R3	4	0	3,746,251:58:0	
1880	96	353	20:33:52.733		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *3968.92 +/- 1	2R3	4	0	3,746,251:88:0	
1881	96	353	20:35:06.066	488R6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2R3	4	0	3,746,253:16:0	
1882	96	353	20:35:23.400	117GI11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	3,746,253:42:0	
1883	96	353	20:38:13.400	176GI6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	3,746,256:24:0	
1884	96	353	20:38:23.466		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *3970.26 +/- 1	2R3	4	0	3,746,256:39:1	
1885	96	353	20:38:24.933		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *3970.14 +/- 1	2R3	4	0	3,746,256:41:3	
1886	96	353	20:38:25.400		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *3970.03 +/- 1	2R3	4	0	3,746,256:42:0	
1887	96	353	20:38:36.733		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *3967.37 +/- 1	2R3	4	0	3,746,256:59:0	
1888	96	353	21:07:06.066	488R6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2R3	4	0	3,746,284:75:0	
1889	**96**	**353**	**21:10:22.667**	**E4NNFULMRO01-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**	
1890	**96**	**353**	**21:14:25.400**	**E4INHRSPEC01-**		**-----START------**		**2R3**	**4**	**0**	**: :**	
1891	96	353	21:14:52.066	165EH4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,746,292:46:0	
1892	96	353	21:14:52.733	165EH4B	7SCAN	NORM,294.498997,	Check S/P Position	2R3	4	0	3,746,292:47:0	
1893	96	353	21:18:19.400	127EH	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	3,746,295:84:0	
1894	**96**	**353**	**21:18:19.400**	**127EH4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**3,746,295:84:0**	
1895	**96**	**353**	**21:18:20.066**	**127EH4B**	**37ETB**	**07,C7,02,01,80,0**	**Loads wavelength edit table**	**2R3**	**4**	**0**	**3,746,295:85:0**	
1896	96	353	21:18:28.066	117EH	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	3,746,296:06:0	
1897	96	353	21:18:28.066	127EH11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	3,746,296:06:0	
1898	96	353	21:18:46.066	175EH422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	3,746,296:33:0	
1899	96	353	21:18:54.133		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *3968.71 +/- 1	2R3	4	0	3,746,296:45:1	
1900	96	353	21:18:55.400	175EH176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R3	4	0	3,746,296:47:0	
1901	96	353	21:18:55.600		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *3968.59 +/- 1	2R3	4	0	3,746,296:47:3	
1902	96	353	21:18:55.600		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC 3968.59 +/- 1	2R3	4	0	3,746,296:47:3	
1903	96	353	21:18:56.066	117EH105A106A4A	7STRP	-0.012801,0.0,0,	Slew =,0.03	2R3	4	0	3,746,296:48:0	
1904	**96**	**353**	**21:18:56.301**	**E4INHRSPEC01-**	**NIMPBK**	**301ES**	**HIGH SPATIAL & SPECTRAL OBS. OF**	**2R3**	**4**	**0**	**: :**	
1905	**96**	**353**	**21:19:56.301**	**E4INHRSPEC01-**	**DESELC**	**300ES**	**HIGH SPATIAL & SPECTRAL OBS. OF**	**2R3**	**4**	**0**	**: :**	
1906	96	353	21:26:04.066	117EH105A106A4B	7STRP	0.011901,0.00300	Slew =,3.01	2R3	4	0	3,746,303:53:0	
1907	96	353	21:26:20.066	117EH105A106A4C	7STRP	-0.012801,0.0,0,	Slew =,0.03	2R3	4	0	3,746,303:77:0	
1908	**96**	**353**	**21:27:20.968**	**E4INHRSPEC01-**	**NIMPBK**	**301DH**	**HIGH SPATIAL & SPECTRAL OBS. OF**	**2R3**	**4**	**0**	**: :**	
1909	**96**	**353**	**21:32:45.634**	**E4INHRSPEC01-**	**DESELC**	**300DH**	**HIGH SPATIAL & SPECTRAL OBS. OF**	**2R3**	**4**	**0**	**: :**	
1910	96	353	21:33:28.066	117EH105A106A4D	7STRP	0.011901,0.00300	Slew =,3.01	2R3	4	0	3,746,310:82:0	
1911	96	353	21:33:44.066	117EH105A106A4E	7STRP	-0.012801,0.0,0,	Slew =,0.03	2R3	4	0	3,746,311:15:0	
1912	96	353	21:40:52.066	117EH11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	3,746,318:20:0	
1913	96	353	21:41:03.400	175EH6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	3,746,318:37:0	
1914	96	353	21:41:03.400	175EH422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,746,318:37:0	
1915	96	353	21:41:03.400		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *3657.39 +/- 1	2R3	4	0	3,746,318:37:0	
1916	**96**	**353**	**21:50:49.399**	**E4INHRSPEC01-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**	
1917	96	353	22:02:52.000	165GJ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,746,339:89:0	
1918	96	353	22:02:52.666	165GJ4B	7SCAN	NORM,295.552998,	Check S/P Position	2R3	4	0	3,746,339:90:0	
1919	96	353	22:06:46.666	117GJ	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	3,746,343:77:0	
1920	96	353	22:06:56.000	176GJ6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R3	4	0	3,746,344:00:0	
1921	96	353	22:06:56.000	117GJ105A106A4A	7STRP	0.01,0.0,0,0,0,0	Slew =,0.08	2R3	4	0	3,746,344:00:0	
1922	96	353	22:09:03.333	117GJ105A106A4B	7STRP	-0.01075,0.00148	Slew =,4.01	2R3	4	0	3,746,346:09:0	
1923	96	353	22:09:10.000	117GJ105A106A4C	7STRP	0.01,0.0,0,0,0,0	Slew =,0.08	2R3	4	0	3,746,346:19:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
1924	96	353	22:11:17.333	117GJ105A106A4D	7STRP	-0.01075,0.00148	Slew =,4.01	2R3	4	0	3,746,348:28:0
1925	96	353	22:11:24.000	117GJ105A106A4E	7STRP	0.01,0.0,0,0,0,0	Slew =,0.08	2R3	4	0	3,746,348:38:0
1926	96	353	22:13:31.333	117GJ105A106A4F	7STRP	-0.01075,0.00148	Slew =,4.01	2R3	4	0	3,746,350:47:0
1927	96	353	22:13:38.000	117GJ105A106A4G	7STRP	0.01,0.0,0,0,0,0	Slew =,0.08	2R3	4	0	3,746,350:57:0
1928	96	353	22:15:45.333	117GJ105A106A4H	7STRP	-0.01075,0.00148	Slew =,4.01	2R3	4	0	3,746,352:66:0
1929	96	353	22:15:52.000	117GJ105A106A4I	7STRP	0.01,0.0,0,0,0,0	Slew =,0.08	2R3	4	0	3,746,352:76:0
1930	96	353	22:17:59.333	117GJ105A106A4J	7STRP	-0.01075,0.00148	Slew =,4.01	2R3	4	0	3,746,354:85:0
1931	96	353	22:18:06.000	117GJ105A106A4K	7STRP	0.01,0.0,0,0,0,0	Slew =,0.08	2R3	4	0	3,746,355:04:0
1932	96	353	22:19:39.400		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *3658.72 +/- 1	2R3	4	0	3,746,356:53:1
1933	96	353	22:19:40.866		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *3658.60 +/- 1	2R3	4	0	3,746,356:55:3
1934	96	353	22:19:56.000		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *3655.05 +/- 1	2R3	4	0	3,746,356:78:0
1935	96	353	22:20:13.333	117GJ105A106A4L	7STRP	-0.01075,0.00148	Slew =,4.01	2R3	4	0	3,746,357:13:0
1936	96	353	22:20:16.000		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *3650.37 +/- 1	2R3	4	0	3,746,357:17:0
1937	96	353	22:20:20.000	117GJ105A106A4M	7STRP	0.01,0.0,0,0,0,0	Slew =,0.08	2R3	4	0	3,746,357:23:0
1938	96	353	22:21:41.333	488R6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2R3	4	0	3,746,358:54:0
1939	96	353	22:22:27.333	117GJ105A106A4N	7STRP	-0.01075,0.00148	Slew =,4.01	2R3	4	0	3,746,359:32:0
1940	96	353	22:22:34.000	117GJ105A106A4O	7STRP	0.01,0.0,0,0,0,0	Slew =,0.08	2R3	4	0	3,746,359:42:0
1941	96	353	22:24:41.333	117GJ105A106A4P	7STRP	-0.01075,0.00148	Slew =,4.01	2R3	4	0	3,746,361:51:0
1942	96	353	22:24:48.000	117GJ105A106A4Q	7STRP	0.01,0.0,0,0,0,0	Slew =,0.08	2R3	4	0	3,746,361:61:0
1943	96	353	22:26:55.333	117GJ105A106A4R	7STRP	-0.01075,0.00148	Slew =,4.01	2R3	4	0	3,746,363:70:0
1944	96	353	22:27:02.000	117GJ105A106A4S	7STRP	0.01,0.0,0,0,0,0	Slew =,0.08	2R3	4	0	3,746,363:80:0
1945	96	353	22:29:09.333	176GJ6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	3,746,365:89:0
1946	96	353	22:29:09.333	117GJ11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	3,746,365:89:0
1947	96	353	22:29:19.400		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *3651.70 +/- 1	2R3	4	0	3,746,366:13:1
1948	96	353	22:29:20.866		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *3651.58 +/- 1	2R3	4	0	3,746,366:15:3
1949	96	353	22:29:21.333		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *3651.47 +/- 1	2R3	4	0	3,746,366:16:0
1950	96	353	22:29:37.333		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *3647.72 +/- 1	2R3	4	0	3,746,366:40:0
1951	96	353	22:30:00.000	488R6E	6TMSED	FILL,BL4	Sci, Eng, and D/L Chan	2R3	4	0	3,746,366:74:0
1952	96	353	22:45:14.000	488S6A	6TMSED	FILL,BL5	Sci, Eng, and D/L Chan	2R3	4	0	3,746,381:80:0
1953	96	353	22:49:34.666	488S6B	6TMSED	NORM,BL5	Sci, Eng, and D/L Chan	2R3	4	0	3,746,386:16:0
1954	**96**	**353**	**22:59:34.667**	**E4NNCHKSUM01-**		**-----START------**		**2R3**	**4**	**0**	**: :**
1955	**96**	**353**	**23:00:35.333**	**20EJ5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**2R3**	**4**	**0**	**3,746,397:06:0**
1956	**96**	**353**	**23:00:36.666**	**20EJ6A**	**6CKSUM**	**NIMS**	**NIMS,1000,10FF**	**2R3**	**4**	**0**	**3,746,397:08:0**
1957	**96**	**353**	**23:00:42.666**	**20EJ6B**	**6MCOPY**	**NIMS**	**NIMS,14FA,LLM1A,2282,2283**	**2R3**	**4**	**0**	**3,746,397:17:0**
1958	**96**	**353**	**23:00:44.000**	**20EJ6C**	**6CKSUM**	**NIMS**	**NIMS,1100,11FF**	**2R3**	**4**	**0**	**3,746,397:19:0**
1959	**96**	**353**	**23:00:50.000**	**20EJ6D**	**6MCOPY**	**NIMS**	**NIMS,14FB,LLM1A,2282,2283**	**2R3**	**4**	**0**	**3,746,397:28:0**
1960	**96**	**353**	**23:00:51.333**	**20EJ6E**	**6CKSUM**	**NIMS**	**NIMS,1200,12FF**	**2R3**	**4**	**0**	**3,746,397:30:0**
1961	**96**	**353**	**23:00:57.333**	**20EJ6F**	**6MCOPY**	**NIMS**	**NIMS,14FC,LLM1A,2282,2283**	**2R3**	**4**	**0**	**3,746,397:39:0**
1962	**96**	**353**	**23:00:58.666**	**20EJ6G**	**6CKSUM**	**NIMS**	**NIMS,1300,13FF**	**2R3**	**4**	**0**	**3,746,397:41:0**
1963	**96**	**353**	**23:01:04.666**	**20EJ6H**	**6MCOPY**	**NIMS**	**NIMS,14FD,LLM1A,2282,2283**	**2R3**	**4**	**0**	**3,746,397:50:0**
1964	**96**	**353**	**23:01:06.000**	**20EJ6I**	**6CKSUM**	**NIMS**	**NIMS,1400,14B3**	**2R3**	**4**	**0**	**3,746,397:52:0**
1965	**96**	**353**	**23:01:12.000**	**20EJ6J**	**6MCOPY**	**NIMS**	**NIMS,14FE,LLM1A,2282,2283**	**2R3**	**4**	**0**	**3,746,397:61:0**
1966	**96**	**353**	**23:01:13.333**	**20EJ6K**	**6CKSUM**	**NIMS**	**NIMS,1598,15BD**	**2R3**	**4**	**0**	**3,746,397:63:0**
1967	**96**	**353**	**23:01:19.333**	**20EJ6L**	**6MCOPY**	**NIMS**	**NIMS,14FF,LLM1A,2282,2283**	**2R3**	**4**	**0**	**3,746,397:72:0**
1968	**96**	**353**	**23:01:20.666**	**20EJ6M**	**6MROH**	**37,14FA,1,A2**	**read from NIMS37,14FA,1,A2**	**2R3**	**4**	**0**	**3,746,397:74:0**
1969	**96**	**353**	**23:14:44.667**	**E4NNCHKSUM01-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**
1970	**96**	**354**	**00:10:21.334**	**E4NNRELOAD04-**		**-----START------**		**2R3**	**4**	**0**	**: :**
1971	**96**	**354**	**00:11:22.000**	**20EE6A**	**6CKSUM**	**NIMS**	**NIMS,1000,14BC**	**2R3**	**4**	**0**	**3,746,467:06:0**
1972	**96**	**354**	**00:12:22.666**	**20EE5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**2R3**	**4**	**0**	**3,746,468:06:0**
1973	**96**	**354**	**00:13:23.333**	**20EE5B**	**37MRL**		**Memory Realocate (software operates from R**	**2R3**	**4**	**0**	**3,746,469:06:0**
1974	**96**	**354**	**00:14:24.000**	**20EE6B**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**2R3**	**4**	**0**	**3,746,470:06:0**
1975	**96**	**354**	**00:15:24.666**	**20EE6C**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**2R3**	**4**	**0**	**3,746,471:06:0**
1976	**96**	**354**	**00:16:25.333**	**20EE5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**3,746,472:06:0**
1977	**96**	**354**	**00:17:26.000**	**20EE5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**3,746,473:06:0**
1978	**96**	**354**	**00:18:26.666**	**20EE4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**3,746,474:06:0**

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
1979	**96**	**354**	**00:19:27.333**	**20EE4B**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**3,746,475:06:0**
1980	**96**	**354**	**00:25:31.334**	**E4NNRELOAD04-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**
1981	96	354	00:29:28.666	165IT4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,746,484:89:0
1982	96	354	00:29:29.333	165IT4B	7SCAN	NORM,237.959,-22	Check S/P Position	2R3	4	0	3,746,484:90:0
1983	96	354	00:34:22.000	175IQ422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	2R3	4	0	3,746,489:74:0
1984	96	354	00:34:25.333	118IT	**SMOS**	GS		2R3	4	0	3,746,489:79:0
1985	96	354	00:34:30.066		DMS:	: *RUNUP	R806, TRACK *2, *REV, TIC *3649.06 +/- 1	2R3	4	0	3,746,489:86:1
1986	96	354	00:34:34.666	175IQ176A6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	2R3	4	0	3,746,490:02:0
1987	96	354	00:34:35.266		DMS:	**: *RECORD**	R806, TRACK 2, REV, TIC *3585.04 +/- 1	2R3	4	0	3,746,490:02:9
1988	96	354	00:34:35.266		DMS:	: *AT_SPD	R806, TRACK 2, REV, TIC 3585.04 +/- 1	2R3	4	0	3,746,490:02:9
1989	96	354	00:34:35.333	118IT110A111A4A	7STRP	-0.00725,0.0,26,	Slew =,3.01	2R3	4	0	3,746,490:03:0
1990	96	354	00:34:44.000	118IT110A111A4B	7STRP	0.008,0.006,0,0,	Slew =,8.01	2R3	4	0	3,746,490:16:0
1991	96	354	00:34:52.666	118IT110A111A4C	7STRP	-0.00725,0.0,26,	Slew =,3.01	2R3	4	0	3,746,490:29:0
1992	96	354	00:35:01.333	118IT110A111B4A	7STRP	0.0064,0.00625,0	Slew =,8.01	2R3	4	0	3,746,490:42:0
1993	96	354	00:35:10.000	118IT110A111B4B	7STRP	-0.00725,0.0,26,	Slew =,3.01	2R3	4	0	3,746,490:55:0
1994	96	354	00:35:16.666	175IQ422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,746,490:65:0
1995	96	354	00:35:16.666		DMS:	**: *RUNDOWN**	R806, TRACK 2, REV, TIC *2566.21 +/- 1	2R3	4	0	3,746,490:65:0
1996	96	354	00:35:18.666	118IT11A	**SMOS**	GE		2R3	4	0	3,746,490:68:0
1997	**96**	**354**	**00:44:44.000**	**E4ENXDARLI01-**		**-----START------**		**2R3**	**4**	**0**	**: :**
1998	96	354	00:45:39.333	165EI4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,746,500:89:0
1999	96	354	00:45:40.000	165EI4B	7SCAN	NORM,237.195,-21	Check S/P Position	2R3	4	0	3,746,500:90:0
2000	**96**	**354**	**00:47:37.333**	**125EI4A**	**37IST**	**0,2,0,OFF,0,1,2**	**Gain State 3**	**3R3**	**4**	**0**	**3,746,502:84:0**
2001	96	354	00:47:37.333	125EI11A	NIMSINIT	GE	##### GROUP END INIT	3R3	4	0	3,746,502:84:0
2002	96	354	00:47:37.333	125EI	NIMSINIT	GS	##### GROUP START INIT	3R3	4	0	3,746,502:84:0
2003	96	354	00:48:38.000	127EI	NIMSTAB	GS	%%%%% GROUP START TAB	3R3	4	0	3,746,503:84:0
2004	**96**	**354**	**00:48:38.000**	**127EI4A**	**37IOP**	**1,0**	**Full Map, Grating Start Position =00**	**3R1**	**4**	**0**	**3,746,503:84:0**
2005	**96**	**354**	**00:48:38.666**	**127EI4B**	**37ETB**	**04,C4,1B,FF,FF**	**Loads wavelength edit table**	**3R1**	**4**	**0**	**3,746,503:85:0**
2006	96	354	00:48:46.666	127EI11A	NIMSTAB	GE	%%%%% GROUP END TAB	3R1	4	0	3,746,504:06:0
2007	96	354	00:48:58.000	488S6C	6TMSED	NORM,BL4	Sci, Eng, and D/L Chan	3R1	4	0	3,746,504:23:0
2008	96	354	00:49:28.000	175EI422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	3R1	4	0	3,746,504:68:0
2009	96	354	00:49:34.000	117EI	**CSMOS**	GS	***** GROUP START CSMOS	3R1	4	0	3,746,504:77:0
2010	96	354	00:49:36.066		DMS:	: *RUNUP	R28, TRACK *2, *REV, TIC *2556.61 +/- 1	3R1	4	0	3,746,504:80:1
2011	96	354	00:49:40.000	175EI176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	3R1	4	0	3,746,504:86:0
2012	96	354	00:49:40.066		DMS:	: *AT_SPD	R28, TRACK 2, REV, TIC 2555.11 +/- 1	3R1	4	0	3,746,504:86:1
2013	96	354	00:49:40.066		DMS:	**: *RECORD**	R28, TRACK 2, REV, TIC *2555.11 +/- 1	3R1	4	0	3,746,504:86:1
2014	96	354	00:49:43.333	117EI105A106A4A	7STRP	0.014001,0.0,0,0	Slew =,0.06	3R1	4	0	3,746,505:00:0
2015	96	354	00:53:38.000	117EI105A106A4B	7STRP	-0.013801,-0.007	Slew =,4.01	3R1	4	0	3,746,508:79:0
2016	96	354	00:53:41.333	125EQ11A	NIMSINIT	GE	##### GROUP END INIT	3R1	4	0	3,746,508:84:0
2017	96	354	00:53:41.333	125EQ	NIMSINIT	GS	##### GROUP START INIT	3R1	4	0	3,746,508:84:0
2018	**96**	**354**	**00:53:41.333**	**125EQ4A**	**37IST**	**0,2,0,OFF,0,1,0**	**Gain State 2**	**2R1**	**4**	**0**	**3,746,508:84:0**
2019	96	354	00:53:44.666	117EI105A106A4C	7STRP	0.014001,0.0,0,0	Slew =,0.06	2R1	4	0	3,746,508:89:0
2020	96	354	00:57:39.333	117EI105A106A4D	7STRP	-0.013801,-0.007	Slew =,4.01	2R1	4	0	3,746,512:77:0
2021	96	354	00:57:46.000	117EI105A106A4E	7STRP	0.014001,0.0,0,0	Slew =,0.06	2R1	4	0	3,746,512:87:0
2022	**96**	**354**	**00:59:02.293**	**E4ENXDARLI01-**	**NIMPBK**	**301EV**	**EUROPA LINEA REGION OBSERVATION**	**2R1**	**4**	**0**	**: :**
2023	96	354	01:01:40.666	117EI105A106A4F	7STRP	-0.013801,-0.007	Slew =,4.01	2R1	4	0	3,746,516:75:0
2024	96	354	01:01:46.666	125EX11A	NIMSINIT	GE	##### GROUP END INIT	2R1	4	0	3,746,516:84:0
2025	**96**	**354**	**01:01:46.666**	**125EX4A**	**37IST**	**0,2,0,OFF,0,1,2**	**Gain State 3**	**3R1**	**4**	**0**	**3,746,516:84:0**
2026	96	354	01:01:46.666	125EX	NIMSINIT	GS	##### GROUP START INIT	3R1	4	0	3,746,516:84:0
2027	96	354	01:01:47.333	117EI105A106A4G	7STRP	0.014001,0.0,0,0	Slew =,0.06	3R1	4	0	3,746,516:85:0
2028	**96**	**354**	**01:05:40.293**	**E4ENXDARLI01-**	**DESELC**	**300EV**	**EUROPA LINEA REGION OBSERVATION**	**3R1**	**4**	**0**	**: :**
2029	96	354	01:05:42.000	117EI11A	**CSMOS**	GE	***** GROUP END CSMOS	3R1	4	0	3,746,520:73:0
2030	96	354	01:05:46.000	175EI422A6B	6DMSC	RDY,0	DMS Control Tape stop	3R1	4	0	3,746,520:79:0
2031	96	354	01:05:46.000		DMS:	**: *RUNDOWN**	R28, TRACK 2, REV, TIC *1706.14 +/- 1	3R1	4	0	3,746,520:79:0
2032	**96**	**354**	**01:05:58.000**	**E4ENXDARLI01-**		**-----STOP-------**		**3R1**	**4**	**0**	**: :**
2033	**96**	**354**	**01:17:05.334**	**E4ENASTERI01-**		**-----START------**		**3R1**	**4**	**0**	**: :**

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2034	96	354	01:18:00.666	165EJ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	3R1	4	0	3,746,532:89:0	
2035	96	354	01:18:01.333	165EJ4B	7SCAN	NORM,238.460999,	Check S/P Position	3R1	4	0	3,746,532:90:0	
2036	96	354	01:18:58.000	127EJ	NIMSTAB	GS	%%%%% GROUP START TAB	3R1	4	0	3,746,533:84:0	
2037	**96**	**354**	**01:18:58.000**	**127EJ4A**	**37IOP**	**1,0**	**Full Map, Grating Start Position =00**	**3R1**	**4**	**0**	**3,746,533:84:0**	
2038	**96**	**354**	**01:18:58.666**	**127EJ4B**	**37ETB**		**Loads wavelength edit table**	**3R1**	**4**	**0**	**3,746,533:85:0**	
2039	96	354	01:19:06.666	127EJ11A	NIMSTAB	GE	%%%%% GROUP END TAB	3R1	4	0	3,746,534:06:0	
2040	96	354	01:19:50.666	175EJ422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	3R1	4	0	3,746,534:72:0	
2041	96	354	01:19:54.000	117EJ	**CSMOS**	GS	***** GROUP START CSMOS	3R1	4	0	3,746,534:77:0	
2042	96	354	01:19:58.733		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *1707.32 +/- 1	3R1	4	0	3,746,534:84:1	
2043	96	354	01:20:00.000	175EJ176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	3R1	4	0	3,746,534:86:0	
2044	96	354	01:20:00.200		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC 1707.20 +/- 1	3R1	4	0	3,746,534:86:3	
2045	96	354	01:20:00.200		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *1707.20 +/- 1	3R1	4	0	3,746,534:86:3	
2046	96	354	01:20:03.333	117EJ105A106A4A	7STRP	-0.014001,0.0,0,	Slew =,0.06	3R1	4	0	3,746,535:00:0	
2047	96	354	01:23:58.000	117EJ105A106A4B	7STRP	0.014301,-0.0074	Slew =0,4.5	3R1	4	0	3,746,538:79:0	
2048	**96**	**354**	**01:24:01.333**	**125EW4A**	**37IST**	**0,2,0,OFF,0,1,0**	**Gain State 2**	**2R1**	**4**	**0**	**3,746,538:84:0**	
2049	96	354	01:24:01.333	125EW11A	NIMSINIT	GE	##### GROUP END INIT	2R1	4	0	3,746,538:84:0	
2050	96	354	01:24:01.333	125EW	NIMSINIT	GS	##### GROUP START INIT	2R1	4	0	3,746,538:84:0	
2051	96	354	01:24:04.666	117EJ105A106A4C	7STRP	-0.014001,0.0,0,	Slew =,0.06	2R1	4	0	3,746,538:89:0	
2052	96	354	01:27:59.333	117EJ105A106A4D	7STRP	0.014301,-0.0074	Slew =0,4.5	2R1	4	0	3,746,542:77:0	
2053	96	354	01:28:06.000	117EJ105A106A4E	7STRP	-0.014001,0.0,0,	Slew =,0.06	2R1	4	0	3,746,542:87:0	
2054	96	354	01:32:00.666	117EJ105A106A4F	7STRP	0.014301,-0.0074	Slew =0,4.5	2R1	4	0	3,746,546:75:0	
2055	**96**	**354**	**01:32:06.666**	**125ER4A**	**37IST**	**0,2,0,OFF,0,1,2**	**Gain State 3**	**3R1**	**4**	**0**	**3,746,546:84:0**	
2056	96	354	01:32:06.666	125ER	NIMSINIT	GS	##### GROUP START INIT	3R1	4	0	3,746,546:84:0	
2057	96	354	01:32:06.666	125ER11A	NIMSINIT	GE	##### GROUP END INIT	3R1	4	0	3,746,546:84:0	
2058	96	354	01:32:07.333	117EJ105A106A4G	7STRP	-0.014001,0.0,0,	Slew =,0.06	3R1	4	0	3,746,546:85:0	
2059	96	354	01:36:02.000	117EJ11A	**CSMOS**	GE	***** GROUP END CSMOS	3R1	4	0	3,746,550:73:0	
2060	96	354	01:36:13.333		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *1479.12 +/- 1	3R1	4	0	3,746,550:90:0	
2061	96	354	01:36:13.333	175EJ422A6B	6DMSC	RDY,0	DMS Control Tape stop	3R1	4	0	3,746,550:90:0	
2062	96	354	01:36:13.333	175EJ6A	6TMREC	**NRC**	NO RECORD Record Mode Change	3R1	4	0	3,746,550:90:0	
2063	96	354	01:36:14.000	165GK4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	3R1	4	0	3,746,551:00:0	
2064	96	354	01:36:14.666	165GK4B	7SCAN	NORM,304.257,-20	Check S/P Position	3R1	4	0	3,746,551:01:0	
2065	**96**	**354**	**01:36:18.000**	**E4ENASTERI01-**		**-----STOP-------**		**3R1**	**4**	**0**	**: :**	
2066	96	354	01:39:20.000	117GK	**CSMOS**	GS	***** GROUP START CSMOS	3R1	4	0	3,746,554:06:0	
2067	96	354	01:39:50.666	117GK105A106A4A	7STRP	0.0,0.003,0,0,0,	Slew =,0.66	3R1	4	0	3,746,554:52:0	
2068	96	354	01:39:50.666	176GK6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	3R1	4	0	3,746,554:52:0	
2069	96	354	01:40:12.666	117GK11A	**CSMOS**	GE	***** GROUP END CSMOS	3R1	4	0	3,746,554:85:0	
2070	**96**	**354**	**01:40:20.732**	**E4INCHEMIS04-**		**-----START------**		**3R1**	**4**	**0**	**: :**	
2071	96	354	01:40:24.000	176GK6B	6TMREC	**NRC**	NO RECORD Record Mode Change	3R1	4	0	3,746,555:11:0	
2072	96	354	01:40:34.066		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *1480.45 +/- 1	3R1	4	0	3,746,555:26:1	
2073	96	354	01:40:35.533		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *1480.33 +/- 1	3R1	4	0	3,746,555:28:3	
2074	96	354	01:40:36.000		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *1480.23 +/- 1	3R1	4	0	3,746,555:29:0	
2075	96	354	01:40:43.333		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *1478.51 +/- 1	3R1	4	0	3,746,555:40:0	
2076	96	354	01:41:16.000	165EK4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	3R1	4	0	3,746,555:89:0	
2077	96	354	01:41:16.666	165EK4B	7SCAN	NORM,304.321999,	Check S/P Position	3R1	4	0	3,746,555:90:0	
2078	**96**	**354**	**01:43:14.000**	**125ES4A**	**37IST**	**0,2,0,OFF,0,1,0**	**Gain State 2**	**2R1**	**4**	**0**	**3,746,557:84:0**	
2079	96	354	01:43:14.000	125ES	NIMSINIT	GS	##### GROUP START INIT	2R1	4	0	3,746,557:84:0	
2080	96	354	01:43:14.000	125ES11A	NIMSINIT	GE	##### GROUP END INIT	2R1	4	0	3,746,557:84:0	
2081	**96**	**354**	**01:44:14.666**	**127EK4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**3,746,558:84:0**	
2082	96	354	01:44:14.666	127EK	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	3,746,558:84:0	
2083	**96**	**354**	**01:44:15.333**	**127EK4B**	**37ETB**	**07,C7,02,01,80,0**	**Loads wavelength edit table**	**2R3**	**4**	**0**	**3,746,558:85:0**	
2084	96	354	01:44:23.333	127EK11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	3,746,559:06:0	
2085	96	354	01:45:07.333	175EK422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	3,746,559:72:0	
2086	96	354	01:45:10.666	117EK	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	3,746,559:77:0	
2087	96	354	01:45:15.400		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *1479.84 +/- 1	2R3	4	0	3,746,559:84:1	
2088	96	354	01:45:16.666	175EK176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R3	4	0	3,746,559:86:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
2089	96	354	01:45:16.866		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC 1479.72 +/- 1	2R3	4	0	3,746,559:86:3
2090	96	354	01:45:16.866		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *1479.72 +/- 1	2R3	4	0	3,746,559:86:3
2091	96	354	01:45:20.000	117EK105A106A4A	7STRP	-0.021003,0.0,0,	Slew =,0.04	2R3	4	0	3,746,560:00:0
2092	96	354	01:54:06.666	117EK11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	3,746,568:62:0
2093	96	354	01:54:18.000		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *1352.89 +/- 1	2R3	4	0	3,746,568:79:0
2094	96	354	01:54:18.000	175EK422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,746,568:79:0
2095	96	354	01:54:18.000	175EK6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	3,746,568:79:0
2096	96	354	01:54:24.666	165GL4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,746,568:89:0
2097	96	354	01:54:25.333	165GL4B	7SCAN	NORM,239.502998,	Check S/P Position	2R3	4	0	3,746,568:90:0
2098	**96**	**354**	**01:54:30.066**	**E4INCHEMIS04-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**
2099	**96**	**354**	**01:57:32.000**	**E4NNFULMRO02-**		**-----START------**		**2R3**	**4**	**0**	**: :**
2100	96	354	01:58:19.333	117GL	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	3,746,572:77:0
2101	96	354	01:58:28.666	176GL6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R3	4	0	3,746,573:00:0
2102	96	354	01:58:28.666	117GL105A106A4A	7STRP	-0.035014,0.0,0,	Slew =,0.31	2R3	4	0	3,746,573:00:0
2103	**96**	**354**	**01:58:32.666**	**20EL5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**2R3**	**4**	**0**	**3,746,573:06:0**
2104	**96**	**354**	**01:59:33.333**	**480EB6A**	**6MROH**	**37,13C0,17,A2**	**read from NIMS37,13C0,17,A**	**2R3**	**4**	**0**	**3,746,574:06:0**
2105	96	354	02:00:25.333	117GL105A106A4B	7STRP	0.035014,-0.0012	Slew =,10.2	2R3	4	0	3,746,574:84:0
2106	96	354	02:00:32.666	117GL105A106A4C	7STRP	-0.035014,0.0,0,	Slew =,0.31	2R3	4	0	3,746,575:04:0
2107	96	354	02:02:29.333	117GL105A106A4D	7STRP	0.035014,-0.0012	Slew =,10.2	2R3	4	0	3,746,576:88:0
2108	96	354	02:02:36.666	117GL105A106A4E	7STRP	-0.035014,0.0,0,	Slew =,0.31	2R3	4	0	3,746,577:08:0
2109	96	354	02:04:33.333	117GL105A106A4F	7STRP	0.035014,-0.0012	Slew =,10.2	2R3	4	0	3,746,579:01:0
2110	96	354	02:04:40.666	117GL105A106A4G	7STRP	-0.035014,0.0,0,	Slew =,0.31	2R3	4	0	3,746,579:12:0
2111	96	354	02:06:37.333	117GL105A106A4H	7STRP	0.035014,-0.0012	Slew =,10.2	2R3	4	0	3,746,581:05:0
2112	96	354	02:06:44.666	117GL105A106A4I	7STRP	-0.035014,0.0,0,	Slew =,0.31	2R3	4	0	3,746,581:16:0
2113	96	354	02:08:41.333	117GL105A106A4J	7STRP	0.035014,-0.0012	Slew =,10.2	2R3	4	0	3,746,583:09:0
2114	96	354	02:08:48.666	117GL105A106A4K	7STRP	-0.035014,0.0,0,	Slew =,0.31	2R3	4	0	3,746,583:20:0
2115	96	354	02:10:45.333	117GL105A106A4L	7STRP	0.035014,-0.0012	Slew =,10.2	2R3	4	0	3,746,585:13:0
2116	96	354	02:10:52.666	117GL105A106A4M	7STRP	-0.035014,0.0,0,	Slew =,0.31	2R3	4	0	3,746,585:24:0
2117	96	354	02:11:12.066		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *1354.23 +/- 1	2R3	4	0	3,746,585:53:1
2118	96	354	02:11:13.533		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *1354.11 +/- 1	2R3	4	0	3,746,585:55:3
2119	96	354	02:11:28.666		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *1350.56 +/- 1	2R3	4	0	3,746,585:78:0
2120	96	354	02:11:48.666		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *1345.88 +/- 1	2R3	4	0	3,746,586:17:0
2121	96	354	02:12:49.333	117GL105A106A4N	7STRP	0.035014,-0.0012	Slew =,10.2	2R3	4	0	3,746,587:17:0
2122	96	354	02:12:56.666	117GL105A106A4O	7STRP	-0.035014,0.0,0,	Slew =,0.31	2R3	4	0	3,746,587:28:0
2123	96	354	02:14:53.333	117GL105A106A4P	7STRP	0.035014,-0.0012	Slew =,10.2	2R3	4	0	3,746,589:21:0
2124	96	354	02:15:00.666	117GL105A106A4Q	7STRP	-0.035014,0.0,0,	Slew =,0.31	2R3	4	0	3,746,589:32:0
2125	96	354	02:16:57.333	117GL105A106A4R	7STRP	0.035014,-0.0012	Slew =,10.2	2R3	4	0	3,746,591:25:0
2126	96	354	02:17:04.666	117GL105A106A4S	7STRP	-0.035014,0.0,0,	Slew =,0.31	2R3	4	0	3,746,591:36:0
2127	96	354	02:19:01.333	117GL105A106A4T	7STRP	0.035014,-0.0012	Slew =,10.2	2R3	4	0	3,746,593:29:0
2128	96	354	02:19:08.666	117GL105A106A4U	7STRP	-0.035014,0.0,0,	Slew =,0.31	2R3	4	0	3,746,593:40:0
2129	96	354	02:21:05.333	117GL105A106A4V	7STRP	0.035014,-0.0012	Slew =,10.2	2R3	4	0	3,746,595:33:0
2130	96	354	02:21:12.666	117GL105A106A4W	7STRP	-0.035014,0.0,0,	Slew =,0.31	2R3	4	0	3,746,595:44:0
2131	96	354	02:23:09.333	117GL105A106A4X	7STRP	0.035014,-0.0012	Slew =,10.2	2R3	4	0	3,746,597:37:0
2132	96	354	02:23:16.666	117GL105A106A4Y	7STRP	-0.035014,0.0,0,	Slew =,0.31	2R3	4	0	3,746,597:48:0
2133	96	354	02:24:14.066		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *1347.21 +/- 1	2R3	4	0	3,746,598:43:1
2134	96	354	02:24:15.533		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *1347.09 +/- 1	2R3	4	0	3,746,598:45:3
2135	96	354	02:24:30.666		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *1343.54 +/- 1	2R3	4	0	3,746,598:68:0
2136	96	354	02:24:50.666		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *1338.86 +/- 1	2R3	4	0	3,746,599:07:0
2137	96	354	02:25:13.333	117GL105A106A4Z	7STRP	0.035014,-0.0012	Slew =,10.2	2R3	4	0	3,746,599:41:0
2138	96	354	02:25:20.666	117GL105A106A4AA	7STRP	-0.035014,0.0,0,	Slew =,0.31	2R3	4	0	3,746,599:52:0
2139	96	354	02:27:17.333	117GL105A106A4AB	7STRP	0.035014,-0.0012	Slew =,10.2	2R3	4	0	3,746,601:45:0
2140	96	354	02:27:24.666	117GL105A106A4AC	7STRP	-0.035014,0.0,0,	Slew =,0.31	2R3	4	0	3,746,601:56:0
2141	96	354	02:29:21.333	117GL105A106A4AD	7STRP	0.035014,-0.0012	Slew =,10.2	2R3	4	0	3,746,603:49:0
2142	96	354	02:29:28.666	117GL105A106A4AE	7STRP	-0.035014,0.0,0,	Slew =,0.31	2R3	4	0	3,746,603:60:0
2143	96	354	02:31:25.333	117GL105A106A4AF	7STRP	0.035014,-0.0012	Slew =,10.2	2R3	4	0	3,746,605:53:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2144	96	354	02:31:32.666	117GL105A106A4AG	7STRP	-0.035014,0.0,0,	Slew =,0.31	2R3	4	0	3,746,605:64:0	
2145	96	354	02:33:29.333	117GL105A106A4AH	7STRP	0.035014,-0.0012	Slew =,10.2	2R3	4	0	3,746,607:57:0	
2146	96	354	02:33:36.666	117GL105A106A4AI	7STRP	-0.035014,0.0,0,	Slew =,0.31	2R3	4	0	3,746,607:68:0	
2147	96	354	02:35:33.333	117GL105A106A4AJ	7STRP	0.035014,-0.0012	Slew =,10.2	2R3	4	0	3,746,609:61:0	
2148	96	354	02:35:40.666	117GL105A106A4AK	7STRP	-0.035014,0.0,0,	Slew =,0.31	2R3	4	0	3,746,609:72:0	
2149	96	354	02:37:16.066		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *1340.19 +/- 1	2R3	4	0	3,746,611:33:1	
2150	96	354	02:37:17.533		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *1340.07 +/- 1	2R3	4	0	3,746,611:35:3	
2151	96	354	02:37:32.666		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *1336.53 +/- 1	2R3	4	0	3,746,611:58:0	
2152	96	354	02:37:37.333	117GL105A106A4AL	7STRP	0.035014,-0.0012	Slew =,10.2	2R3	4	0	3,746,611:65:0	
2153	96	354	02:37:44.666	117GL105A106A4AM	7STRP	-0.035014,0.0,0,	Slew =,0.31	2R3	4	0	3,746,611:76:0	
2154	96	354	02:37:52.666		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *1331.84 +/- 1	2R3	4	0	3,746,611:88:0	
2155	96	354	02:39:41.333	117GL105A106A4AN	7STRP	0.035014,-0.0012	Slew =,10.2	2R3	4	0	3,746,613:69:0	
2156	96	354	02:39:48.666	117GL105A106A4AO	7STRP	-0.035014,0.0,0,	Slew =,0.31	2R3	4	0	3,746,613:80:0	
2157	96	354	02:41:45.333	117GL105A106A4AP	7STRP	0.035014,-0.0012	Slew =,10.2	2R3	4	0	3,746,615:73:0	
2158	96	354	02:41:52.666	117GL105A106A4AQ	7STRP	-0.035014,0.0,0,	Slew =,0.31	2R3	4	0	3,746,615:84:0	
2159	96	354	02:43:49.333	117GL105A106A4AR	7STRP	0.035014,-0.0012	Slew =,10.2	2R3	4	0	3,746,617:77:0	
2160	96	354	02:43:56.666	117GL105A106A4AS	7STRP	-0.035014,0.0,0,	Slew =,0.31	2R3	4	0	3,746,617:88:0	
2161	96	354	02:45:53.333	117GL105A106A4AT	7STRP	0.035014,-0.0012	Slew =,10.2	2R3	4	0	3,746,619:81:0	
2162	96	354	02:46:00.666	117GL105A106A4AU	7STRP	-0.035014,0.0,0,	Slew =,0.31	2R3	4	0	3,746,620:01:0	
2163	96	354	02:47:57.333	117GL105A106A4AV	7STRP	0.035014,-0.0012	Slew =,10.2	2R3	4	0	3,746,621:85:0	
2164	96	354	02:48:04.666	117GL105A106A4AW	7STRP	-0.035014,0.0,0,	Slew =,0.31	2R3	4	0	3,746,622:05:0	
2165	96	354	02:50:01.333	117GL105A106A4AX	7STRP	0.035014,-0.0012	Slew =,10.2	2R3	4	0	3,746,623:89:0	
2166	96	354	02:50:08.666	117GL105A106A4AY	7STRP	-0.035014,0.0,0,	Slew =,0.31	2R3	4	0	3,746,624:09:0	
2167	96	354	02:50:18.733		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *1333.17 +/- 1	2R3	4	0	3,746,624:24:1	
2168	96	354	02:50:20.200		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *1333.05 +/- 1	2R3	4	0	3,746,624:26:3	
2169	96	354	02:50:34.666		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *1329.66 +/- 1	2R3	4	0	3,746,624:48:0	
2170	96	354	02:50:54.666		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *1324.98 +/- 1	2R3	4	0	3,746,624:78:0	
2171	96	354	02:52:05.333	117GL105A106A4AZ	7STRP	0.035014,-0.0012	Slew =,10.2	2R3	4	0	3,746,626:02:0	
2172	96	354	02:52:12.666	117GL105A106A4BA	7STRP	-0.035014,0.0,0,	Slew =,0.31	2R3	4	0	3,746,626:13:0	
2173	96	354	02:54:09.333	117GL105A106A4BB	7STRP	0.035014,-0.0012	Slew =,10.2	2R3	4	0	3,746,628:06:0	
2174	96	354	02:54:16.666	117GL105A106A4BC	7STRP	-0.035014,0.0,0,	Slew =,0.31	2R3	4	0	3,746,628:17:0	
2175	96	354	02:56:13.333	117GL105A106A4BD	7STRP	0.035014,-0.0012	Slew =,10.2	2R3	4	0	3,746,630:10:0	
2176	96	354	02:56:20.666	117GL105A106A4BE	7STRP	-0.035014,0.0,0,	Slew =,0.31	2R3	4	0	3,746,630:21:0	
2177	96	354	02:58:17.333	117GL105A106A4BF	7STRP	0.035014,-0.0012	Slew =,10.2	2R3	4	0	3,746,632:14:0	
2178	96	354	02:58:24.666	117GL105A106A4BG	7STRP	-0.035014,0.0,0,	Slew =,0.31	2R3	4	0	3,746,632:25:0	
2179	96	354	03:00:21.333	117GL105A106A4BH	7STRP	0.035014,-0.0012	Slew =,10.2	2R3	4	0	3,746,634:18:0	
2180	96	354	03:00:28.666	117GL105A106A4BI	7STRP	-0.035014,0.0,0,	Slew =,0.31	2R3	4	0	3,746,634:29:0	
2181	96	354	03:02:25.333	176GL6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	3,746,636:22:0	
2182	96	354	03:02:25.333	117GL11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	3,746,636:22:0	
2183	96	354	03:02:35.400		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *1326.31 +/- 1	2R3	4	0	3,746,636:37:1	
2184	96	354	03:02:36.866		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *1326.19 +/- 1	2R3	4	0	3,746,636:39:3	
2185	96	354	03:02:37.333		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *1326.08 +/- 1	2R3	4	0	3,746,636:40:0	
2186	96	354	03:02:55.333		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *1321.86 +/- 1	2R3	4	0	3,746,636:67:0	
2187	96	354	03:25:24.666	165IU4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,746,658:89:0	
2188	96	354	03:25:25.333	165IU4B	7SCAN	NORM,342.931999,	Check S/P Position	2R3	4	0	3,746,658:90:0	
2189	96	354	03:29:17.333	175IR422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	2R3	4	0	3,746,662:74:0	
2190	96	354	03:29:25.400		DMS:	: *RUNUP	R806, TRACK *2, *REV, TIC *1323.20 +/- 1	2R3	4	0	3,746,662:86:1	
2191	96	354	03:29:30.000	175IR176A6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	2R3	4	0	3,746,663:02:0	
2192	96	354	03:29:30.600		DMS:	**: *RECORD**	R806, TRACK 2, REV, TIC *1259.18 +/- 1	2R3	4	0	3,746,663:02:9	
2193	96	354	03:29:30.600		DMS:	: *AT_SPD	R806, TRACK 2, REV, TIC 1259.18 +/- 1	2R3	4	0	3,746,663:02:9	
2194	96	354	03:29:32.666		DMS:	**: *RUNDOWN**	R806, TRACK 2, REV, TIC *1208.32 +/- 1	2R3	4	0	3,746,663:06:0	
2195	96	354	03:29:32.666	175IR422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,746,663:06:0	
2196	96	354	03:35:31.333	165IV4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,746,668:89:0	
2197	96	354	03:35:32.000	165IV4B	7SCAN	NORM,238.827999,	Check S/P Position	2R3	4	0	3,746,668:90:0	
2198	96	354	03:39:24.000	175IS422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	2R3	4	0	3,746,672:74:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
2199	96	354	03:39:32.066		DMS:	: *RUNUP	R806, TRACK *2, *REV, TIC *1198.71 +/- 1	2R3	4	0	3,746,672:86:1
2200	96	354	03:39:36.666	175IS176A6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	2R3	4	0	3,746,673:02:0
2201	96	354	03:39:37.266		DMS:	: *AT_SPD	R806, TRACK 2, REV, TIC 1134.70 +/- 2	2R3	4	0	3,746,673:02:9
2202	96	354	03:39:37.266		DMS:	**: *RECORD**	R806, TRACK 2, REV, TIC *1134.70 +/- 1	2R3	4	0	3,746,673:02:9
2203	96	354	03:39:44.000		DMS:	**: *RUNDOWN**	R806, TRACK 2, REV, TIC * 969.00 +/- 2	2R3	4	0	3,746,673:13:0
2204	96	354	03:39:44.000	175IS422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,746,673:13:0
2205	**96**	**354**	**03:59:52.667**	**E4NNFULMRO02-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**
2206	96	354	04:00:00.666	481UB4A	7VECT		Inert vect update UTC	2R3	4	0	3,746,693:18:0
2207	96	354	04:30:00.000	488S6D	6TMSED	NORM,DL4	Sci, Eng, and D/L Chan	2R3	4	0	3,746,722:78:0
2208	**96**	**354**	**04:30:12.667**	**E4NNRELOAD05-**		**-----START------**		**2R3**	**4**	**0**	**: :**
2209	**96**	**354**	**04:31:13.333**	**20EF6A**	**6CKSUM**	**NIMS**	**NIMS,1000,14BC**	**2R3**	**4**	**0**	**3,746,724:06:0**
2210	**96**	**354**	**04:33:14.666**	**20EF5B**	**37MRL**		**Memory Realocate (software operates from R**	**2R3**	**4**	**0**	**3,746,726:06:0**
2211	**96**	**354**	**04:34:15.333**	**20EF6B**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**2R3**	**4**	**0**	**3,746,727:06:0**
2212	**96**	**354**	**04:35:16.000**	**20EF6C**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**2R3**	**4**	**0**	**3,746,728:06:0**
2213	**96**	**354**	**04:36:16.666**	**20EF5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**3,746,729:06:0**
2214	**96**	**354**	**04:37:17.333**	**20EF5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**3,746,730:06:0**
2215	**96**	**354**	**04:38:18.000**	**20EF4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**3,746,731:06:0**
2216	**96**	**354**	**04:39:18.666**	**20EF4B**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**3,746,732:06:0**
2217	96	354	04:44:16.666	165IW4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,746,736:89:0
2218	96	354	04:44:17.333	165IW4B	7SCAN	NORM,344.709,-6.	Check S/P Position	2R3	4	0	3,746,736:90:0
2219	**96**	**354**	**04:45:22.667**	**E4NNRELOAD05-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**
2220	96	354	04:48:09.333	175IT422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	2R3	4	0	3,746,740:74:0
2221	96	354	04:48:17.400		DMS:	: *RUNUP	R806, TRACK *2, *REV, TIC * 959.39 +/- 2	2R3	4	0	3,746,740:86:1
2222	96	354	04:48:22.000	175IT176A6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	2R3	4	0	3,746,741:02:0
2223	96	354	04:48:22.600		DMS:	**: *RECORD**	R806, TRACK 2, REV, TIC * 895.37 +/- 2	2R3	4	0	3,746,741:02:9
2224	96	354	04:48:22.600		DMS:	: *AT_SPD	R806, TRACK 2, REV, TIC 895.37 +/- 2	2R3	4	0	3,746,741:02:9
2225	96	354	04:48:24.666		DMS:	**: *RUNDOWN**	R806, TRACK 2, REV, TIC * 844.51 +/- 2	2R3	4	0	3,746,741:06:0
2226	96	354	04:48:24.666	175IT422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,746,741:06:0
2227	96	354	05:06:55.333	165EM4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,746,759:34:0
2228	96	354	05:06:56.000	165EM4B	7SCAN	NORM,237.436998,	Check S/P Position	2R3	4	0	3,746,759:35:0
2229	**96**	**354**	**05:08:38.000**	**E4ENSUCOMP02-**		**-----START------**		**2R3**	**4**	**0**	**: :**
2230	**96**	**354**	**05:09:30.000**	**125EM4A**	**37IST**	**0,2,0,OFF,0,1,2**	**Gain State 3**	**3R3**	**4**	**0**	**3,746,761:84:0**
2231	96	354	05:09:30.000	125EM11A	NIMSINIT	GE	##### GROUP END INIT	3R3	4	0	3,746,761:84:0
2232	96	354	05:09:30.000	125EM	NIMSINIT	GS	##### GROUP START INIT	3R3	4	0	3,746,761:84:0
2233	**96**	**354**	**05:10:30.666**	**127EM4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**3R3**	**4**	**0**	**3,746,762:84:0**
2234	96	354	05:10:30.666	127EM	NIMSTAB	GS	%%%%% GROUP START TAB	3R3	4	0	3,746,762:84:0
2235	**96**	**354**	**05:10:31.333**	**127EM4B**	**37ETB**	**07,C7,02,0C,00,0**	**Loads wavelength edit table**	**3R3**	**4**	**0**	**3,746,762:85:0**
2236	96	354	05:10:39.333	117EM	**CSMOS**	GS	***** GROUP START CSMOS	3R3	4	0	3,746,763:06:0
2237	96	354	05:10:39.333	127EM11A	NIMSTAB	GE	%%%%% GROUP END TAB	3R3	4	0	3,746,763:06:0
2238	96	354	05:10:49.333	175EM422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	3R3	4	0	3,746,763:21:0
2239	96	354	05:10:57.400		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC * 834.91 +/- 2	3R3	4	0	3,746,763:33:1
2240	96	354	05:10:58.000	165EM4C	7VECT		Inert vect update UTC	3R3	4	0	3,746,763:34:0
2241	96	354	05:10:58.666	175EM176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	3R3	4	0	3,746,763:35:0
2242	96	354	05:10:58.666	165EM4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	3R3	4	0	3,746,763:35:0
2243	96	354	05:10:58.866		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC * 834.79 +/- 2	3R3	4	0	3,746,763:35:3
2244	96	354	05:10:58.866		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC 834.79 +/- 2	3R3	4	0	3,746,763:35:3
2245	96	354	05:10:59.333	117EM105A106A4A	7STRP	-0.016602,0.0,0,	Slew =,0.03	3R3	4	0	3,746,763:36:0
2246	**96**	**354**	**05:10:59.617**	**E4ENSUCOMP02-**	**NIMPBK**	**301EB**	**SURFACE COMPOSITION / DARK ICE**	**3R3**	**4**	**0**	**: :**
2247	**96**	**354**	**05:13:48.283**	**E4ENSUCOMP02-**	**NIMPBK**	**301FB**	**SURFACE COMPOSITION / DARK ICE**	**3R3**	**4**	**0**	**: :**
2248	**96**	**354**	**05:13:57.617**	**E4ENSUCOMP02-**	**DESELC**	**300EB**	**SURFACE COMPOSITION / DARK ICE**	**3R3**	**4**	**0**	**: :**
2249	96	354	05:20:18.000	117EM105A106A4B	7STRP	0.016501,-0.0085	Slew =0,5.0	3R3	4	0	3,746,772:55:0
2250	**96**	**354**	**05:20:18.283**	**E4ENSUCOMP02-**	**DESELC**	**300FB**	**SURFACE COMPOSITION / DARK ICE**	**3R3**	**4**	**0**	**: :**
2251	96	354	05:20:24.666	117EM105A106A4C	7STRP	-0.016602,0.0,0,	Slew =,0.03	3R3	4	0	3,746,772:65:0
2252	**96**	**354**	**05:20:24.950**	**E4ENSUCOMP02-**	**NIMPBK**	**301FZ**	**SURFACE COMPOSITION / DARK ICE**	**3R3**	**4**	**0**	**: :**
2253	**96**	**354**	**05:29:35.617**	**E4ENSUCOMP02-**	**DESELC**	**300FZ**	**SURFACE COMPOSITION / DARK ICE**	**3R3**	**4**	**0**	**: :**

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
2254	96	354	05:29:43.333	117EM11A	**CSMOS**	GE	***** GROUP END CSMOS	3R3	4	0	3,746,781:84:0
2255	96	354	05:29:45.333		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC * 570.77 +/- 2	3R3	4	0	3,746,781:87:0
2256	96	354	05:29:45.333	175EM422A6B	6DMSC	RDY,0	DMS Control Tape stop	3R3	4	0	3,746,781:87:0
2257	96	354	05:29:45.333	175EM6A	6TMREC	**NRC**	NO RECORD Record Mode Change	3R3	4	0	3,746,781:87:0
2258	**96**	**354**	**05:32:44.667**	**E4ENSUCOMP02-**		**-----STOP-------**		**3R3**	**4**	**0**	**: :**
2259	96	354	05:34:44.666	465KC6A	6DTRN	CMD,6DTRN,465KC6	DMS TRACK TURNAROUND	3R3	4	0	3,746,786:81:0
2260	96	354	05:52:58.000	175EN422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	3R3	4	0	3,746,804:83:0
2261	**96**	**354**	**05:52:58.666**	**127EN4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**3R3**	**4**	**0**	**3,746,804:84:0**
2262	96	354	05:52:58.666	127EN	NIMSTAB	GS	%%%%% GROUP START TAB	3R3	4	0	3,746,804:84:0
2263	**96**	**354**	**05:52:59.333**	**127EN4B**	**37ETB**	**04,C4,35,FF,FF**	**Loads wavelength edit table**	**3R3**	**4**	**0**	**3,746,804:85:0**
2264	96	354	05:53:00.000	165EN4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	3R3	4	0	3,746,804:86:0
2265	96	354	05:53:00.666	165EN4B	7SCAN	NORM,233.884998,	Check S/P Position	3R3	4	0	3,746,804:87:0
2266	96	354	05:53:07.333	117EN	**CSMOS**	GS	***** GROUP START CSMOS	3R3	4	0	3,746,805:06:0
2267	96	354	05:53:07.333	127EN11A	NIMSTAB	GE	%%%%% GROUP END TAB	3R3	4	0	3,746,805:06:0
2268	96	354	05:53:10.000	175EN176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	3R3	4	0	3,746,805:10:0
2269	96	354	05:53:23.333	165EN4C	7VECT		Inert vect update UTC	3R3	4	0	3,746,805:30:0
2270	96	354	05:53:24.000	165EN4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	3R3	4	0	3,746,805:31:0
2271	96	354	05:53:24.666	117EN105A106A4A	7STRP	-0.016401,0.0,0,	Slew =,0.03	3R3	4	0	3,746,805:32:0
2272	**96**	**354**	**05:53:24.949**	**E4ENSUCOMP01-**	**NIMPBK**	**301FC**	**SURFACE COMPOSITION / LIGHT ICE**	**3R3**	**4**	**0**	**: :**
2273	**96**	**354**	**05:54:08.000**	**E4ENSUCOMP01-**		**-----START------**		**3R3**	**4**	**0**	**: :**
2274	**96**	**354**	**05:57:24.949**	**E4ENSUCOMP01-**	**NIMPBK**	**301DW**	**SURFACE COMPOSITION / LIGHT ICE**	**3R3**	**4**	**0**	**: :**
2275	**96**	**354**	**05:57:34.949**	**E4ENSUCOMP01-**	**DESELC**	**300FC**	**SURFACE COMPOSITION / LIGHT ICE**	**3R3**	**4**	**0**	**: :**
2276	96	354	05:58:50.000	488T6A	6TMSED	FILL,DL4	Sci, Eng, and D/L Chan	3R3	4	0	3,746,810:65:0
2277	96	354	06:02:32.666	117EN105A106A4B	7STRP	0.015701,-0.0085	Slew =,3.01	3R3	4	0	3,746,814:35:0
2278	96	354	06:02:41.333	117EN105A106A4C	7STRP	-0.016401,0.0,0,	Slew =,0.03	3R3	4	0	3,746,814:48:0
2279	96	354	06:06:50.000	488T6B	6TMSED	FILL,DL2	Sci, Eng, and D/L Chan	3R3	4	0	3,746,818:57:0
2280	96	354	06:11:49.333	117EN11A	**CSMOS**	GE	***** GROUP END CSMOS	3R3	4	0	3,746,823:51:0
2281	**96**	**354**	**06:11:49.615**	**E4ENSUCOMP01-**	**DESELC**	**300DW**	**SURFACE COMPOSITION / LIGHT ICE**	**3R3**	**4**	**0**	**: :**
2282	96	354	06:11:50.666	175EN422A6B	6DMSC	RDY,0	DMS Control Tape stop	3R3	4	0	3,746,823:53:0
2283	96	354	06:12:14.666	165IX4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	3R3	4	0	3,746,823:89:0
2284	96	354	06:12:15.333	165IX4B	7SCAN	NORM,233.251999,	Check S/P Position	3R3	4	0	3,746,823:90:0
2285	96	354	06:13:05.333	175IU422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	3R3	4	0	3,746,824:74:0
2286	96	354	06:13:08.666	118IX	**SMOS**	GS		3R3	4	0	3,746,824:79:0
2287	96	354	06:13:12.000		DMS:	: *RUNUP	R806, TRACK *3, FWD, TIC 201.62 +/-	3R3	4	0	3,746,824:84:0
2288	96	354	06:13:15.333	165IX4C	7VECT		Inert vect update UTC	3R3	4	0	3,746,824:89:0
2289	96	354	06:13:16.000	165IX4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	3R3	4	0	3,746,824:90:0
2290	96	354	06:13:17.200		DMS:	: *AT_SPD	R806, TRACK 3, FWD, TIC 265.64 +/-	3R3	4	0	3,746,825:00:8
2291	96	354	06:13:17.200		DMS:	**: *RECORD**	R806, TRACK 3, FWD, TIC * 265.64 +/-	3R3	4	0	3,746,825:00:8
2292	96	354	06:13:18.000	175IU176A6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	3R3	4	0	3,746,825:02:0
2293	96	354	06:13:18.666	118IX110A111A4A	7STRP	-0.007,0.0,26,0,	Slew =,3.01	3R3	4	0	3,746,825:03:0
2294	96	354	06:13:36.000	118IX11A	**SMOS**	GE		3R3	4	0	3,746,825:29:0
2295	96	354	06:13:42.666		DMS:	**: *RUNDOWN**	R806, TRACK 3, FWD, TIC * 892.36 +/-	3R3	4	0	3,746,825:39:0
2296	96	354	06:13:42.666	175TA422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	3R3	4	0	3,746,825:39:0
2297	96	354	06:13:45.800		DMS:	: *RUNUP	R7, TRACK 3, FWD, TIC * 903.36 +/-	3R3	4	0	3,746,825:43:7
2298	96	354	06:13:46.666	175TA176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	3R3	4	0	3,746,825:45:0
2299	96	354	06:13:47.266		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC 903.48 +/-	3R3	4	0	3,746,825:45:9
2300	96	354	06:13:47.266		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC * 903.48 +/-	3R3	4	0	3,746,825:45:9
2301	**96**	**354**	**06:14:21.334**	**E4ENSUCOMP01-**		**-----STOP-------**		**3R3**	**4**	**0**	**: :**
2302	96	354	06:24:54.000	165EO4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	3R3	4	0	3,746,836:45:0
2303	96	354	06:24:54.666	165EO4B	7SCAN	NORM,229.029999,	Check S/P Position	3R3	4	0	3,746,836:46:0
2304	96	354	06:25:20.000	127EO	NIMSTAB	GS	%%%%% GROUP START TAB	3R3	4	0	3,746,836:84:0
2305	**96**	**354**	**06:25:20.000**	**127EO4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**3R3**	**4**	**0**	**3,746,836:84:0**
2306	**96**	**354**	**06:25:20.666**	**127EO4B**	**37ETB**	**04,C4,35,FF,FF**	**Loads wavelength edit table**	**3R3**	**4**	**0**	**3,746,836:85:0**
2307	96	354	06:25:28.666	117EO	**CSMOS**	GS	***** GROUP START CSMOS	3R3	4	0	3,746,837:06:0
2308	96	354	06:25:28.666	127EO11A	NIMSTAB	GE	%%%%% GROUP END TAB	3R3	4	0	3,746,837:06:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2309	96	354	06:25:36.666		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *1069.74 +/-	3R3	4	0	3,746,837:18:0	
2310	96	354	06:25:36.666	175EO422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	3R3	4	0	3,746,837:18:0	
2311	96	354	06:25:38.066		DMS:	: *RUNUP	R28, TRACK 3, FWD, TIC *1069.80 +/-	3R3	4	0	3,746,837:20:1	
2312	96	354	06:25:41.333	165EO4C	7VECT		Inert vect update UTC	3R3	4	0	3,746,837:25:0	
2313	96	354	06:25:42.000	165EO4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	3R3	4	0	3,746,837:26:0	
2314	96	354	06:25:42.000	175EO176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	3R3	4	0	3,746,837:26:0	
2315	96	354	06:25:42.066		DMS:	: *AT_SPD	R28, TRACK 3, FWD, TIC 1071.30 +/-	3R3	4	0	3,746,837:26:1	
2316	96	354	06:25:42.066		DMS:	**: *RECORD**	R28, TRACK 3, FWD, TIC *1071.30 +/-	3R3	4	0	3,746,837:26:1	
2317	96	354	06:25:42.666	117EO105A106A4A	7STRP	-0.023004,0.0,0,	Slew =,0.03	3R3	4	0	3,746,837:27:0	
2318	**96**	**354**	**06:25:42.948**	**E4ENSUCOMP03-**	**NIMPBK**	**301FD**	**SURFACE COMPOSITION OF DOUBLE LI**	**3R3**	**4**	**0**	**: :**	
2319	96	354	06:26:22.666	282NA431A6A	6RCSEL	DDSNCG,PLSSEL,EP	Record Select (DDS onl	3R3	4	0	3,746,837:87:0	
2320	96	354	06:26:25.333	431OA6A	6RCSEL	DDSSEL,PLSNCG,EP	Record Select (DDS onl	3R3	4	0	3,746,838:00:0	
2321	**96**	**354**	**06:26:29.334**	**E4ENSUCOMP03-**		**-----START------**		**3R3**	**4**	**0**	**: :**	
2322	**96**	**354**	**06:28:45.615**	**E4ENSUCOMP03-**	**NIMPBK**	**301DU**	**SURFACE COMPOSITION OF DOUBLE LI**	**3R3**	**4**	**0**	**: :**	
2323	**96**	**354**	**06:28:54.948**	**E4ENSUCOMP03-**	**DESELC**	**300FD**	**SURFACE COMPOSITION OF DOUBLE LI**	**3R3**	**4**	**0**	**: :**	
2324	96	354	06:32:28.666	428PC6A	6RCCLR			3R3	4	0	3,746,843:90:0	
2325	96	354	06:32:29.333	428PC6B	6RCSET	8		3R3	4	0	3,746,844:00:0	
2326	96	354	06:38:31.333	117EO11A	**CSMOS**	GE	***** GROUP END CSMOS	3R3	4	0	3,746,849:88:0	
2327	**96**	**354**	**06:38:31.614**	**E4ENSUCOMP03-**	**DESELC**	**300DU**	**SURFACE COMPOSITION OF DOUBLE LI**	**3R3**	**4**	**0**	**: :**	
2328	96	354	06:38:32.000	165IY4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	3R3	4	0	3,746,849:89:0	
2329	96	354	06:38:32.666	165IY4B	7SCAN	NORM,211.264999,	Check S/P Position	3R3	4	0	3,746,849:90:0	
2330	96	354	06:38:33.333	175TB422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	3R3	4	0	3,746,850:00:0	
2331	96	354	06:38:33.333		DMS:	**: *RUNDOWN**	R28, TRACK 3, FWD, TIC *1749.17 +/-	3R3	4	0	3,746,850:00:0	
2332	96	354	06:38:34.733		DMS:	: *RUNUP	R7, TRACK 3, FWD, TIC *1749.39 +/-	3R3	4	0	3,746,850:02:1	
2333	96	354	06:38:36.000	175TB176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	3R3	4	0	3,746,850:04:0	
2334	96	354	06:38:36.200		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC 1749.51 +/-	3R3	4	0	3,746,850:04:3	
2335	96	354	06:38:36.200		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *1749.51 +/-	3R3	4	0	3,746,850:04:3	
2336	96	354	06:39:02.000	428PD6A	6RCCLR			3R3	4	0	3,746,850:43:0	
2337	96	354	06:39:02.666	428PD6B	6RCSET	14		3R3	4	0	3,746,850:44:0	
2338	96	354	06:39:26.000	118IY	**SMOS**	GS		3R3	4	0	3,746,850:79:0	
2339	96	354	06:39:29.333	175IV422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	3R3	4	0	3,746,850:84:0	
2340	96	354	06:39:29.333		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *1761.96 +/-	3R3	4	0	3,746,850:84:0	
2341	96	354	06:39:30.733		DMS:	: *RUNUP	R806, TRACK 3, FWD, TIC *1762.02 +/-	3R3	4	0	3,746,850:86:1	
2342	96	354	06:39:32.666	165IY4C	7VECT		Inert vect update UTC	3R3	4	0	3,746,850:89:0	
2343	96	354	06:39:33.333	165IY4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	3R3	4	0	3,746,850:90:0	
2344	96	354	06:39:35.333	175IV176A6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	3R3	4	0	3,746,851:02:0	
2345	96	354	06:39:35.933		DMS:	: *AT_SPD	R806, TRACK 3, FWD, TIC 1826.04 +/-	3R3	4	0	3,746,851:02:9	
2346	96	354	06:39:35.933		DMS:	**: *RECORD**	R806, TRACK 3, FWD, TIC *1826.04 +/-	3R3	4	0	3,746,851:02:9	
2347	96	354	06:39:36.000	118IY110A111A4A	7STRP	-0.0072,0.0,26,0	Slew =,3.01	3R3	4	0	3,746,851:03:0	
2348	96	354	06:39:44.666	118IY110A111A4B	7STRP	0.0,0.006,0,0,0,	Slew =,8.01	3R3	4	0	3,746,851:16:0	
2349	96	354	06:39:51.333	428PE6A	6RCCLR			3R3	4	0	3,746,851:26:0	
2350	96	354	06:39:52.000	428PE6B	6RCSET	11		3R3	4	0	3,746,851:27:0	
2351	96	354	06:39:53.333	118IY110A111A4C	7STRP	-0.0072,0.0,26,0	Slew =,3.01	3R3	4	0	3,746,851:29:0	
2352	96	354	06:40:02.000	118IY11A	**SMOS**	GE		3R3	4	0	3,746,851:42:0	
2353	96	354	06:40:08.666	175TC422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	3R3	4	0	3,746,851:52:0	
2354	96	354	06:40:08.666		DMS:	**: *RUNDOWN**	R806, TRACK 3, FWD, TIC *2631.59 +/-	3R3	4	0	3,746,851:52:0	
2355	96	354	06:40:11.800		DMS:	: *RUNUP	R7, TRACK 3, FWD, TIC *2642.59 +/-	3R3	4	0	3,746,851:56:7	
2356	96	354	06:40:12.666	175TC176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	3R3	4	0	3,746,851:58:0	
2357	96	354	06:40:13.266		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC 2642.70 +/-	3R3	4	0	3,746,851:58:9	
2358	96	354	06:40:13.266		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *2642.70 +/-	3R3	4	0	3,746,851:58:9	
2359	**96**	**354**	**06:40:38.667**	**E4ENSUCOMP03-**		**-----STOP-------**		**3R3**	**4**	**0**	**: :**	
2360	96	354	06:41:21.333	428PF6A	6RCCLR			3R3	4	0	3,746,852:70:0	
2361	96	354	06:41:22.000	428PF6B	6RCSET	14		3R3	4	0	3,746,852:71:0	
2362	96	354	06:41:34.000	165IZ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	3R3	4	0	3,746,852:89:0	
2363	96	354	06:41:34.666	165IZ4B	7SCAN	NORM,202.094999,	Check S/P Position	3R3	4	0	3,746,852:90:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
2364	96	354	06:42:28.000	118IZ	**SMOS**	GS		3R3	4	0	3,746,853:79:0
2365	96	354	06:42:31.333		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *2675.06 +/-	3R3	4	0	3,746,853:84:0
2366	96	354	06:42:31.333	175IW422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	3R3	4	0	3,746,853:84:0
2367	96	354	06:42:32.733		DMS:	: *RUNUP	R806, TRACK 3, FWD, TIC *2675.12 +/-	3R3	4	0	3,746,853:86:1
2368	96	354	06:42:34.666	165IZ4C	7VECT		Inert vect update UTC	3R3	4	0	3,746,853:89:0
2369	96	354	06:42:35.333	165IZ4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	3R3	4	0	3,746,853:90:0
2370	96	354	06:42:37.333	175IW176A6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	3R3	4	0	3,746,854:02:0
2371	96	354	06:42:37.933		DMS:	: *AT_SPD	R806, TRACK 3, FWD, TIC 2739.14 +/- 1	3R3	4	0	3,746,854:02:9
2372	96	354	06:42:37.933		DMS:	**: *RECORD**	R806, TRACK 3, FWD, TIC *2739.14 +/-	3R3	4	0	3,746,854:02:9
2373	96	354	06:42:38.000	118IZ110A111A4A	7STRP	-0.007,0.0,26,0,	Slew =,3.01	3R3	4	0	3,746,854:03:0
2374	96	354	06:42:55.333	118IZ110A111A4B	7STRP	0.0,0.0062,0,0,0	Slew =,3.01	3R3	4	0	3,746,854:29:0
2375	96	354	06:42:58.000	428PG6A	6RCCLR			3R3	4	0	3,746,854:33:0
2376	96	354	06:42:58.666	428PG6B	6RCSET	11		3R3	4	0	3,746,854:34:0
2377	96	354	06:43:04.000	118IZ110A111A4C	7STRP	-0.007,0.0,26,0,	Slew =,3.01	3R3	4	0	3,746,854:42:0
2378	96	354	06:43:19.333	175TD422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	3R3	4	0	3,746,854:65:0
2379	96	354	06:43:19.333		DMS:	**: *RUNDOWN**	R806, TRACK 3, FWD, TIC *3757.97 +/- 1	3R3	4	0	3,746,854:65:0
2380	96	354	06:43:21.333	118IZ11A	**SMOS**	GE		3R3	4	0	3,746,854:68:0
2381	96	354	06:43:22.466		DMS:	: *RUNUP	R7, TRACK 3, FWD, TIC *3768.97 +/- 1	3R3	4	0	3,746,854:69:7
2382	96	354	06:43:23.333	175TD176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	3R3	4	0	3,746,854:71:0
2383	96	354	06:43:23.933		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *3769.09 +/- 1	3R3	4	0	3,746,854:71:9
2384	96	354	06:43:23.933		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC 3769.09 +/- 1	3R3	4	0	3,746,854:71:9
2385	**96**	**354**	**06:59:51.333**	**E4NNCHKSUM02-**		**-----START------**		**3R3**	**4**	**0**	**: :**
2386	96	354	07:00:00.666	481UA4A	7VECT	BB1	Inert vect update UTC	3R3	4	0	3,746,871:20:0
2387	**96**	**354**	**07:00:53.333**	**20EK6A**	**6CKSUM**	**NIMS**	**NIMS,1000,10FF**	**3R3**	**4**	**0**	**3,746,872:08:0**
2388	**96**	**354**	**07:00:59.333**	**20EK6B**	**6MCOPY**	**NIMS**	**NIMS,14FA,LLM1A,2282,2283**	**3R3**	**4**	**0**	**3,746,872:17:0**
2389	**96**	**354**	**07:01:00.666**	**20EK6C**	**6CKSUM**	**NIMS**	**NIMS,1100,11FF**	**3R3**	**4**	**0**	**3,746,872:19:0**
2390	**96**	**354**	**07:01:06.666**	**20EK6D**	**6MCOPY**	**NIMS**	**NIMS,14FB,LLM1A,2282,2283**	**3R3**	**4**	**0**	**3,746,872:28:0**
2391	**96**	**354**	**07:01:08.000**	**20EK6E**	**6CKSUM**	**NIMS**	**NIMS,1200,12FF**	**3R3**	**4**	**0**	**3,746,872:30:0**
2392	**96**	**354**	**07:01:14.000**	**20EK6F**	**6MCOPY**	**NIMS**	**NIMS,14FC,LLM1A,2282,2283**	**3R3**	**4**	**0**	**3,746,872:39:0**
2393	**96**	**354**	**07:01:15.333**	**20EK6G**	**6CKSUM**	**NIMS**	**NIMS,1300,13FF**	**3R3**	**4**	**0**	**3,746,872:41:0**
2394	**96**	**354**	**07:01:21.333**	**20EK6H**	**6MCOPY**	**NIMS**	**NIMS,14FD,LLM1A,2282,2283**	**3R3**	**4**	**0**	**3,746,872:50:0**
2395	**96**	**354**	**07:01:22.666**	**20EK6I**	**6CKSUM**	**NIMS**	**NIMS,1400,14B3**	**3R3**	**4**	**0**	**3,746,872:52:0**
2396	**96**	**354**	**07:01:28.666**	**20EK6J**	**6MCOPY**	**NIMS**	**NIMS,14FE,LLM1A,2282,2283**	**3R3**	**4**	**0**	**3,746,872:61:0**
2397	**96**	**354**	**07:01:30.000**	**20EK6K**	**6CKSUM**	**NIMS**	**NIMS,1598,15BD**	**3R3**	**4**	**0**	**3,746,872:63:0**
2398	**96**	**354**	**07:01:36.000**	**20EK6L**	**6MCOPY**	**NIMS**	**NIMS,14FF,LLM1A,2282,2283**	**3R3**	**4**	**0**	**3,746,872:72:0**
2399	**96**	**354**	**07:01:37.333**	**20EK6M**	**6MROH**	**37,14FA,1,A2**	**read from NIMS37,14FA,1,A2**	**3R3**	**4**	**0**	**3,746,872:74:0**
2400	96	354	07:03:40.666	428PH6A	6RCCLR			3R3	4	0	3,746,874:77:0
2401	96	354	07:03:41.333	428PH6B	6RCSET	14		3R3	4	0	3,746,874:78:0
2402	**96**	**354**	**07:15:01.333**	**E4NNCHKSUM02-**		**-----STOP-------**		**3R3**	**4**	**0**	**: :**
2403	96	354	07:19:59.333	165JA4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	3R3	4	0	3,746,890:89:0
2404	96	354	07:20:00.000	165JA4B	7SCAN	NORM,356.050999,	Check S/P Position	3R3	4	0	3,746,890:90:0
2405	96	354	07:23:58.666		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *4339.73 +/- 1	3R3	4	0	3,746,894:84:0
2406	96	354	07:23:58.666	175IX422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	3R3	4	0	3,746,894:84:0
2407	96	354	07:24:00.066		DMS:	: *RUNUP	R806, TRACK 3, FWD, TIC *4339.79 +/- 1	3R3	4	0	3,746,894:86:1
2408	96	354	07:24:03.333	432MD6A	6RTSL1		R/T Select of DDS and	3R3	4	0	3,746,895:00:0
2409	96	354	07:24:04.666	175IX176A6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	3R3	4	0	3,746,895:02:0
2410	96	354	07:24:05.266		DMS:	**: *RECORD**	R806, TRACK 3, FWD, TIC *4403.80 +/- 1	3R3	4	0	3,746,895:02:9
2411	96	354	07:24:05.266		DMS:	: *AT_SPD	R806, TRACK 3, FWD, TIC 4403.80 +/- 1	3R3	4	0	3,746,895:02:9
2412	96	354	07:24:09.333	175TE422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	3R3	4	0	3,746,895:09:0
2413	96	354	07:24:09.333		DMS:	**: *RUNDOWN**	R806, TRACK 3, FWD, TIC *4503.88 +/- 1	3R3	4	0	3,746,895:09:0
2414	96	354	07:24:12.466		DMS:	: *RUNUP	R7, TRACK 3, FWD, TIC *4514.88 +/- 1	3R3	4	0	3,746,895:13:7
2415	96	354	07:24:13.333	175TE176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	3R3	4	0	3,746,895:15:0
2416	96	354	07:24:13.933		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *4515.00 +/- 1	3R3	4	0	3,746,895:15:9
2417	96	354	07:24:13.933		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC 4515.00 +/- 1	3R3	4	0	3,746,895:15:9
2418	96	354	07:26:04.666	428PJ6A	6RCCLR			3R3	4	0	3,746,897:00:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2419	96	354	07:27:03.333	432MB431A6A	6RCDSL	DDSDSL,PLSNCG,EP	Record Deselect (DDS o	3R3	4	0	3,746,897:88:0	
2420	96	354	07:27:04.000	432MB6A	6RTSL1		R/T Select of DDS and	3R3	4	0	3,746,897:89:0	
2421	96	354	07:27:07.333	432OJ431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	3R3	4	0	3,746,898:03:0	
2422	96	354	07:27:08.000	432OJ6A	6RTSL1		R/T Select of DDS and	3R3	4	0	3,746,898:04:0	
2423	96	354	07:27:11.333	282NB431A6A	6RCDSL	DDSNCG,PLSDSL,EP	Record Deselect (DDS o	3R3	4	0	3,746,898:09:0	
2424	96	354	07:28:00.000	282NB432A431A6A	6RCDSL	DDSNCG,PLSDSL,EP	Record Deselect (DDS o	3R3	4	0	3,746,898:82:0	
2425	96	354	07:28:00.666	282NB432A6A	6RTSL1		R/T Select of DDS and	3R3	4	0	3,746,898:83:0	
2426	96	354	07:28:08.000		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *4569.86 +/- 1	3R3	4	0	3,746,899:03:0	
2427	96	354	07:28:08.000	175TE422A6B	6DMSC	RDY,0	DMS Control Tape stop	3R3	4	0	3,746,899:03:0	
2428	96	354	07:42:14.000	165GM4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	3R3	4	0	3,746,912:89:0	
2429	96	354	07:42:14.666	165GM4B	7SCAN	NORM,68.183999,2	Check S/P Position	3R3	4	0	3,746,912:90:0	
2430	96	354	07:46:08.666	117GM	**CSMOS**	GS	***** GROUP START CSMOS	3R3	4	0	3,746,916:77:0	
2431	96	354	07:46:18.000	176GM6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	3R3	4	0	3,746,917:00:0	
2432	96	354	07:46:18.000	117GM105A106A4A	7STRP	0.0,0.003,0,0,0,	Slew =,0.28	3R3	4	0	3,746,917:00:0	
2433	96	354	07:46:40.000	117GM11A	**CSMOS**	GE	***** GROUP END CSMOS	3R3	4	0	3,746,917:33:0	
2434	96	354	07:46:51.333	176GM6B	6TMREC	**NRC**	NO RECORD Record Mode Change	3R3	4	0	3,746,917:50:0	
2435	96	354	07:47:00.000		DMS:	: *RUNUP	R7, TRACK *3, FWD, TIC 4569.92 +/- 1	3R3	4	0	3,746,917:63:0	
2436	96	354	07:47:01.466		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC *4570.04 +/- 1	3R3	4	0	3,746,917:65:2	
2437	96	354	07:47:03.333		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *4570.47 +/- 1	3R3	4	0	3,746,917:68:0	
2438	96	354	07:47:10.666		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *4572.19 +/- 1	3R3	4	0	3,746,917:79:0	
2439	96	354	08:01:48.666	488T6C	6TMSED	NORM,DL2	Sci, Eng, and D/L Chan	3R3	4	0	3,746,932:31:0	
2440	**96**	**354**	**08:14:40.732**	**E4INCHEMIS05-**		**-----START------**		**3R3**	**4**	**0**	**: :**	
2441	96	354	08:14:53.333	165EL4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	3R3	4	0	3,746,945:25:0	
2442	96	354	08:14:54.000	165EL4B	7SCAN	NORM,338.608997,	Check S/P Position	3R3	4	0	3,746,945:26:0	
2443	96	354	08:17:34.000	125EL11A	NIMSINIT	GE	##### GROUP END INIT	3R3	4	0	3,746,947:84:0	
2444	**96**	**354**	**08:17:34.000**	**125EL4A**	**37IST**	**0,2,0,OFF,0,1,0**	**Gain State 2**	**2R3**	**4**	**0**	**3,746,947:84:0**	
2445	96	354	08:17:34.000	125EL	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	3,746,947:84:0	
2446	96	354	08:18:34.666	127EL	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	3,746,948:84:0	
2447	**96**	**354**	**08:18:34.666**	**127EL4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**3,746,948:84:0**	
2448	**96**	**354**	**08:18:35.333**	**127EL4B**	**37ETB**	**07,C7,02,01,80,0**	**Loads wavelength edit table**	**2R3**	**4**	**0**	**3,746,948:85:0**	
2449	96	354	08:18:43.333	127EL11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	3,746,949:06:0	
2450	96	354	08:18:43.333	117EL	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	3,746,949:06:0	
2451	96	354	08:18:47.333	175EL422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	3,746,949:12:0	
2452	96	354	08:18:54.000		DMS:	: *RUNUP	R7, TRACK *3, FWD, TIC 4572.25 +/- 1	2R3	4	0	3,746,949:22:0	
2453	96	354	08:18:55.466		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *4572.37 +/- 1	2R3	4	0	3,746,949:24:2	
2454	96	354	08:18:55.466		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC 4572.37 +/- 1	2R3	4	0	3,746,949:24:2	
2455	96	354	08:18:56.666	175EL176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R3	4	0	3,746,949:26:0	
2456	96	354	08:18:57.333	117EL105A106A4A	7STRP	-0.018502,0.0,0,	Slew =,0.06	2R3	4	0	3,746,949:27:0	
2457	96	354	08:23:18.666	175EL6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	3,746,953:55:0	
2458	96	354	08:23:18.666	175EL422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,746,953:55:0	
2459	96	354	08:23:18.666		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *4634.06 +/- 1	2R3	4	0	3,746,953:55:0	
2460	96	354	08:24:07.333	117EL11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	3,746,954:37:0	
2461	**96**	**354**	**08:24:47.399**	**E4INCHEMIS05-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**	
2462	96	354	08:29:46.666	411JB6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	3,746,960:00:0	
2463	96	354	08:29:53.333		DMS:	: *RUNUP	R7, TRACK *3, FWD, TIC 4634.12 +/- 1	2R3	4	0	3,746,960:10:0	
2464	96	354	08:29:54.800		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC 4634.24 +/- 1	2R3	4	0	3,746,960:12:2	
2465	96	354	08:29:54.800		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *4634.24 +/- 1	2R3	4	0	3,746,960:12:2	
2466	96	354	08:29:56.666	411JB6B	6TMREC	BDT	7.68 KBPS BUFFER DUMP TO TAPE Record Mode	2R3	4	0	3,746,960:15:0	
2467	96	354	08:30:00.000	488T6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	2R3	4	0	3,746,960:20:0	
2468	96	354	08:31:58.000	411JB6C	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	3,746,962:15:0	
2469	96	354	08:31:58.666		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *4663.27 +/- 1	2R3	4	0	3,746,962:16:0	
2470	96	354	08:31:58.666	411JB6D	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,746,962:16:0	
2471	96	354	08:33:48.000	165GN4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,746,963:89:0	
2472	96	354	08:33:48.666	165GN4B	7SCAN	NORM,340.678997,	Check S/P Position	2R3	4	0	3,746,963:90:0	
2473	96	354	08:34:26.000	488T6E	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	2R3	4	0	3,746,964:55:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2474	96	354	08:37:42.666	117GN	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	3,746,967	77:0
2475	96	354	08:37:52.000	117GN105A106A4A	7STRP	0.0045,0.0,0,0,0	Slew =,0.08	2R3	4	0	3,746,968	00:0
2476	96	354	08:37:52.000	176GN6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R3	4	0	3,746,968	00:0
2477	96	354	08:38:18.000	488U6A	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	2R3	4	0	3,746,968	39:0
2478	96	354	08:39:04.666	117GN105A106A4B	7STRP	-0.0068,0.0012,0	Slew =0,2.5	2R3	4	0	3,746,969	18:0
2479	96	354	08:39:11.333	117GN105A106A4C	7STRP	0.0045,0.0,0,0,0	Slew =,0.08	2R3	4	0	3,746,969	28:0
2480	96	354	08:40:24.000	117GN105A106A4D	7STRP	-0.0068,0.0012,0	Slew =0,2.5	2R3	4	0	3,746,970	46:0
2481	96	354	08:40:30.666	117GN105A106A4E	7STRP	0.0045,0.0,0,0,0	Slew =,0.08	2R3	4	0	3,746,970	56:0
2482	96	354	08:41:43.333	117GN105A106A4F	7STRP	-0.0068,0.0012,0	Slew =0,2.5	2R3	4	0	3,746,971	74:0
2483	96	354	08:41:50.000	117GN105A106A4G	7STRP	0.0045,0.0,0,0,0	Slew =,0.08	2R3	4	0	3,746,971	84:0
2484	96	354	08:43:02.666	117GN105A106A4H	7STRP	-0.0068,0.0012,0	Slew =0,2.5	2R3	4	0	3,746,973	11:0
2485	96	354	08:43:09.333	117GN105A106A4I	7STRP	0.0045,0.0,0,0,0	Slew =,0.08	2R3	4	0	3,746,973	21:0
2486	96	354	08:44:22.000	117GN105A106A4J	7STRP	-0.0068,0.0012,0	Slew =0,2.5	2R3	4	0	3,746,974	39:0
2487	96	354	08:44:28.666	117GN105A106A4K	7STRP	0.0045,0.0,0,0,0	Slew =,0.08	2R3	4	0	3,746,974	49:0
2488	96	354	08:45:41.333	117GN105A106A4L	7STRP	-0.0068,0.0012,0	Slew =0,2.5	2R3	4	0	3,746,975	67:0
2489	96	354	08:45:48.000	117GN105A106A4M	7STRP	0.0045,0.0,0,0,0	Slew =,0.08	2R3	4	0	3,746,975	77:0
2490	96	354	08:47:00.666	117GN11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	3,746,977	04:0
2491	96	354	08:47:00.666	176GN6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	3,746,977	04:0
2492	96	354	08:47:09.333		DMS:	: *RUNUP	R7, TRACK *3, FWD, TIC 4663.33 +/- 1	2R3	4	0	3,746,977	17:0
2493	96	354	08:47:10.800		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC *4663.44 +/- 1	2R3	4	0	3,746,977	19:2
2494	96	354	08:47:12.666		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *4663.88 +/- 1	2R3	4	0	3,746,977	22:0
2495	96	354	08:47:28.666		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *4667.63 +/- 1	2R3	4	0	3,746,977	46:0
2496	96	354	09:12:13.333	165GO4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,747,001	89:0
2497	96	354	09:12:14.000	165GO4B	7SCAN	NORM,59.945,24.4	Check S/P Position	2R3	4	0	3,747,001	90:0
2498	96	354	09:16:08.000	117GO	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	3,747,005	77:0
2499	96	354	09:16:17.333	117GO105A106A4A	7STRP	0.027007,0.0,0,0	Slew =,1.91	2R3	4	0	3,747,006	00:0
2500	96	354	09:16:17.333	176GO6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R3	4	0	3,747,006	00:0
2501	96	354	09:16:34.666	117GO105A106A4B	7STRP	-0.026806,0.0012	Slew =12.01	2R3	4	0	3,747,006	26:0
2502	96	354	09:16:40.666	117GO105A106A4C	7STRP	0.027007,0.0,0,0	Slew =,1.91	2R3	4	0	3,747,006	35:0
2503	96	354	09:16:58.000	117GO105A106A4D	7STRP	-0.026806,0.0012	Slew =12.01	2R3	4	0	3,747,006	61:0
2504	96	354	09:17:04.000	117GO105A106A4E	7STRP	0.027007,0.0,0,0	Slew =,1.91	2R3	4	0	3,747,006	70:0
2505	96	354	09:17:21.333	117GO105A106A4F	7STRP	-0.026806,0.0012	Slew =12.01	2R3	4	0	3,747,007	05:0
2506	96	354	09:17:27.333	117GO105A106A4G	7STRP	0.027007,0.0,0,0	Slew =,1.91	2R3	4	0	3,747,007	14:0
2507	96	354	09:17:44.666	117GO105A106A4H	7STRP	-0.026806,0.0012	Slew =12.01	2R3	4	0	3,747,007	40:0
2508	96	354	09:17:50.666	117GO105A106A4I	7STRP	0.027007,0.0,0,0	Slew =,1.91	2R3	4	0	3,747,007	49:0
2509	96	354	09:18:08.000	117GO105A106A4J	7STRP	-0.026806,0.0012	Slew =12.01	2R3	4	0	3,747,007	75:0
2510	96	354	09:18:14.000	117GO105A106A4K	7STRP	0.027007,0.0,0,0	Slew =,1.91	2R3	4	0	3,747,007	84:0
2511	96	354	09:18:31.333	117GO105A106A4L	7STRP	-0.026806,0.0012	Slew =12.01	2R3	4	0	3,747,008	19:0
2512	96	354	09:18:37.333	117GO105A106A4M	7STRP	0.027007,0.0,0,0	Slew =,1.91	2R3	4	0	3,747,008	28:0
2513	96	354	09:18:54.666	117GO105A106A4N	7STRP	-0.026806,0.0012	Slew =12.01	2R3	4	0	3,747,008	54:0
2514	96	354	09:19:00.666	117GO105A106A4O	7STRP	0.027007,0.0,0,0	Slew =,1.91	2R3	4	0	3,747,008	63:0
2515	96	354	09:19:18.000	117GO105A106A4P	7STRP	-0.026806,0.0012	Slew =12.01	2R3	4	0	3,747,008	89:0
2516	96	354	09:19:24.000	117GO105A106A4Q	7STRP	0.027007,0.0,0,0	Slew =,1.91	2R3	4	0	3,747,009	07:0
2517	96	354	09:19:41.333	117GO105A106A4R	7STRP	-0.026806,0.0012	Slew =12.01	2R3	4	0	3,747,009	33:0
2518	96	354	09:19:47.333	117GO105A106A4S	7STRP	0.027007,0.0,0,0	Slew =,1.91	2R3	4	0	3,747,009	42:0
2519	96	354	09:20:04.666	117GO105A106A4T	7STRP	-0.026806,0.0012	Slew =12.01	2R3	4	0	3,747,009	68:0
2520	96	354	09:20:10.666	117GO105A106A4U	7STRP	0.027007,0.0,0,0	Slew =,1.91	2R3	4	0	3,747,009	77:0
2521	96	354	09:20:28.000	117GO105A106A4V	7STRP	-0.026806,0.0012	Slew =12.01	2R3	4	0	3,747,010	12:0
2522	96	354	09:20:34.000	117GO105A106A4W	7STRP	0.027007,0.0,0,0	Slew =,1.91	2R3	4	0	3,747,010	21:0
2523	96	354	09:20:51.333	117GO105A106A4X	7STRP	-0.026806,0.0012	Slew =12.01	2R3	4	0	3,747,010	47:0
2524	96	354	09:20:57.333	117GO105A106A4Y	7STRP	0.027007,0.0,0,0	Slew =,1.91	2R3	4	0	3,747,010	56:0
2525	96	354	09:21:14.666	117GO105A106A4Z	7STRP	-0.026806,0.0012	Slew =12.01	2R3	4	0	3,747,010	82:0
2526	96	354	09:21:20.666	117GO105A106A4AA	7STRP	0.027007,0.0,0,0	Slew =,1.91	2R3	4	0	3,747,011	00:0
2527	96	354	09:21:38.000	117GO105A106A4AB	7STRP	-0.026806,0.0012	Slew =12.01	2R3	4	0	3,747,011	26:0
2528	96	354	09:21:44.000	117GO105A106A4AC	7STRP	0.027007,0.0,0,0	Slew =,1.91	2R3	4	0	3,747,011	35:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2529	96	354	09:22:01.333	117GO105A106A4AD	7STRP	-0.026806,0.0012	Slew =12.01	2R3	4	0	3,747,011:61:0	
2530	96	354	09:22:07.333	117GO105A106A4AE	7STRP	0.027007,0.0,0,0	Slew =,1.91	2R3	4	0	3,747,011:70:0	
2531	96	354	09:22:24.666	117GO105A106A4AF	7STRP	-0.026806,0.0012	Slew =12.01	2R3	4	0	3,747,012:05:0	
2532	96	354	09:22:30.666	117GO105A106A4AG	7STRP	0.027007,0.0,0,0	Slew =,1.91	2R3	4	0	3,747,012:14:0	
2533	96	354	09:22:48.000	117GO105A106A4AH	7STRP	-0.026806,0.0012	Slew =12.01	2R3	4	0	3,747,012:40:0	
2534	96	354	09:22:54.000	117GO105A106A4AI	7STRP	0.027007,0.0,0,0	Slew =,1.91	2R3	4	0	3,747,012:49:0	
2535	96	354	09:23:11.333	117GO105A106A4AJ	7STRP	-0.026806,0.0012	Slew =12.01	2R3	4	0	3,747,012:75:0	
2536	96	354	09:23:17.333	117GO105A106A4AK	7STRP	0.027007,0.0,0,0	Slew =,1.91	2R3	4	0	3,747,012:84:0	
2537	96	354	09:23:34.666	117GO105A106A4AL	7STRP	-0.026806,0.0012	Slew =12.01	2R3	4	0	3,747,013:19:0	
2538	96	354	09:23:40.666	117GO105A106A4AM	7STRP	0.027007,0.0,0,0	Slew =,1.91	2R3	4	0	3,747,013:28:0	
2539	96	354	09:23:58.000	117GO105A106A4AN	7STRP	-0.026806,0.0012	Slew =12.01	2R3	4	0	3,747,013:54:0	
2540	96	354	09:24:04.000	117GO105A106A4AO	7STRP	0.027007,0.0,0,0	Slew =,1.91	2R3	4	0	3,747,013:63:0	
2541	96	354	09:24:21.333	117GO105A106A4AP	7STRP	-0.026806,0.0012	Slew =12.01	2R3	4	0	3,747,013:89:0	
2542	96	354	09:24:27.333	117GO105A106A4AQ	7STRP	0.027007,0.0,0,0	Slew =,1.91	2R3	4	0	3,747,014:07:0	
2543	96	354	09:24:44.666	117GO105A106A4AR	7STRP	-0.026806,0.0012	Slew =12.01	2R3	4	0	3,747,014:33:0	
2544	96	354	09:24:50.666	117GO105A106A4AS	7STRP	0.027007,0.0,0,0	Slew =,1.91	2R3	4	0	3,747,014:42:0	
2545	96	354	09:25:08.000	117GO105A106A4AT	7STRP	-0.026806,0.0012	Slew =12.01	2R3	4	0	3,747,014:68:0	
2546	96	354	09:25:14.000	117GO105A106A4AU	7STRP	0.027007,0.0,0,0	Slew =,1.91	2R3	4	0	3,747,014:77:0	
2547	96	354	09:25:31.333	117GO105A106A4AV	7STRP	-0.026806,0.0012	Slew =12.01	2R3	4	0	3,747,015:12:0	
2548	96	354	09:25:37.333	117GO105A106A4AW	7STRP	0.027007,0.0,0,0	Slew =,1.91	2R3	4	0	3,747,015:21:0	
2549	96	354	09:25:54.666	117GO105A106A4AX	7STRP	-0.026806,0.0012	Slew =12.01	2R3	4	0	3,747,015:47:0	
2550	96	354	09:26:00.666	117GO105A106A4AY	7STRP	0.027007,0.0,0,0	Slew =,1.91	2R3	4	0	3,747,015:56:0	
2551	96	354	09:26:18.000	117GO105A106A4AZ	7STRP	-0.026806,0.0012	Slew =12.01	2R3	4	0	3,747,015:82:0	
2552	96	354	09:26:24.000	117GO105A106A4BA	7STRP	0.027007,0.0,0,0	Slew =,1.91	2R3	4	0	3,747,016:00:0	
2553	96	354	09:26:41.333	117GO105A106A4BB	7STRP	-0.026806,0.0012	Slew =12.01	2R3	4	0	3,747,016:26:0	
2554	96	354	09:26:47.333	117GO105A106A4BC	7STRP	0.027007,0.0,0,0	Slew =,1.91	2R3	4	0	3,747,016:35:0	
2555	96	354	09:27:04.666	117GO105A106A4BD	7STRP	-0.026806,0.0012	Slew =12.01	2R3	4	0	3,747,016:61:0	
2556	96	354	09:27:10.666	117GO105A106A4BE	7STRP	0.027007,0.0,0,0	Slew =,1.91	2R3	4	0	3,747,016:70:0	
2557	96	354	09:27:28.000	117GO105A106A4BF	7STRP	-0.026806,0.0012	Slew =12.01	2R3	4	0	3,747,017:05:0	
2558	96	354	09:27:34.000	117GO105A106A4BG	7STRP	0.027007,0.0,0,0	Slew =,1.91	2R3	4	0	3,747,017:14:0	
2559	96	354	09:27:51.333	117GO105A106A4BH	7STRP	-0.026806,0.0012	Slew =12.01	2R3	4	0	3,747,017:40:0	
2560	96	354	09:27:57.333	117GO105A106A4BI	7STRP	0.027007,0.0,0,0	Slew =,1.91	2R3	4	0	3,747,017:49:0	
2561	96	354	09:28:14.666	117GO105A106A4BJ	7STRP	-0.026806,0.0012	Slew =12.01	2R3	4	0	3,747,017:75:0	
2562	96	354	09:28:20.666	117GO105A106A4BK	7STRP	0.027007,0.0,0,0	Slew =,1.91	2R3	4	0	3,747,017:84:0	
2563	96	354	09:28:38.000	117GO105A106A4BL	7STRP	-0.026806,0.0012	Slew =12.01	2R3	4	0	3,747,018:19:0	
2564	96	354	09:28:44.000	117GO105A106A4BM	7STRP	0.027007,0.0,0,0	Slew =,1.91	2R3	4	0	3,747,018:28:0	
2565	96	354	09:28:59.333		DMS:	: *RUNUP	R7, TRACK *3, FWD, TIC 4667.69 +/- 1	2R3	4	0	3,747,018:51:0	
2566	96	354	09:29:00.800		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC *4667.81 +/- 1	2R3	4	0	3,747,018:53:2	
2567	96	354	09:29:01.333	117GO105A106A4BN	7STRP	-0.026806,0.0012	Slew =12.01	2R3	4	0	3,747,018:54:0	
2568	96	354	09:29:07.333	117GO105A106A4BO	7STRP	0.027007,0.0,0,0	Slew =,1.91	2R3	4	0	3,747,018:63:0	
2569	96	354	09:29:17.333		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *4671.69 +/- 1	2R3	4	0	3,747,018:78:0	
2570	96	354	09:29:24.666	117GO105A106A4BP	7STRP	-0.026806,0.0012	Slew =12.01	2R3	4	0	3,747,018:89:0	
2571	**96**	**354**	**09:29:30.000**	**E4NNRELOAD06-**		**-----START------**		**2R3**	**4**	**0**	**: :**	
2572	96	354	09:29:30.666	117GO105A106A4BQ	7STRP	0.027007,0.0,0,0	Slew =,1.91	2R3	4	0	3,747,019:07:0	
2573	96	354	09:29:37.333		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *4676.37 +/- 1	2R3	4	0	3,747,019:17:0	
2574	96	354	09:29:48.000	117GO105A106A4BR	7STRP	-0.026806,0.0012	Slew =12.01	2R3	4	0	3,747,019:33:0	
2575	96	354	09:29:54.000	117GO105A106A4BS	7STRP	0.027007,0.0,0,0	Slew =,1.91	2R3	4	0	3,747,019:42:0	
2576	96	354	09:30:11.333	117GO105A106A4BT	7STRP	-0.026806,0.0012	Slew =12.01	2R3	4	0	3,747,019:68:0	
2577	96	354	09:30:17.333	117GO105A106A4BU	7STRP	0.027007,0.0,0,0	Slew =,1.91	2R3	4	0	3,747,019:77:0	
2578	**96**	**354**	**09:30:30.666**	**20EG6A**	**6CKSUM**	**NIMS**	**NIMS,1000,14BC**	**2R3**	**4**	**0**	**3,747,020:06:0**	
2579	96	354	09:30:34.666	117GO105A106A4BV	7STRP	-0.026806,0.0012	Slew =12.01	2R3	4	0	3,747,020:12:0	
2580	96	354	09:30:40.666	117GO105A106A4BW	7STRP	0.027007,0.0,0,0	Slew =,1.91	2R3	4	0	3,747,020:21:0	
2581	96	354	09:30:58.000	117GO105A106A4BX	7STRP	-0.026806,0.0012	Slew =12.01	2R3	4	0	3,747,020:47:0	
2582	96	354	09:31:04.000	117GO105A106A4BY	7STRP	0.027007,0.0,0,0	Slew =,1.91	2R3	4	0	3,747,020:56:0	
2583	96	354	09:31:21.333	117GO105A106A4BZ	7STRP	-0.026806,0.0012	Slew =12.01	2R3	4	0	3,747,020:82:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2584	96	354	09:31:27.333	117GO105A106A4CA	7STRP	0.027007,0.0,0,0	Slew =,1.91	2R3	4	0	3,747,021:00:0	
2585	**96**	**354**	**09:31:31.333**	**20EG5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**2R3**	**4**	**0**	**3,747,021:06:0**	
2586	96	354	09:31:44.666	117GO105A106A4CB	7STRP	-0.026806,0.0012	Slew =12.01	2R3	4	0	3,747,021:26:0	
2587	96	354	09:31:50.666	117GO105A106A4CC	7STRP	0.027007,0.0,0,0	Slew =,1.91	2R3	4	0	3,747,021:35:0	
2588	96	354	09:32:08.000	117GO105A106A4CD	7STRP	-0.026806,0.0012	Slew =12.01	2R3	4	0	3,747,021:61:0	
2589	96	354	09:32:14.000	117GO105A106A4CE	7STRP	0.027007,0.0,0,0	Slew =,1.91	2R3	4	0	3,747,021:70:0	
2590	96	354	09:32:31.333	117GO105A106A4CF	7STRP	-0.026806,0.0012	Slew =12.01	2R3	4	0	3,747,022:05:0	
2591	**96**	**354**	**09:32:32.000**	**20EG5B**	**37MRL**		**Memory Realocate (software operates from R**	**2R3**	**4**	**0**	**3,747,022:06:0**	
2592	96	354	09:32:37.333	117GO105A106A4CG	7STRP	0.027007,0.0,0,0	Slew =,1.91	2R3	4	0	3,747,022:14:0	
2593	96	354	09:32:54.666	117GO105A106A4CH	7STRP	-0.026806,0.0012	Slew =12.01	2R3	4	0	3,747,022:40:0	
2594	96	354	09:33:00.666	117GO105A106A4CI	7STRP	0.027007,0.0,0,0	Slew =,1.91	2R3	4	0	3,747,022:49:0	
2595	96	354	09:33:18.000	117GO105A106A4CJ	7STRP	-0.026806,0.0012	Slew =12.01	2R3	4	0	3,747,022:75:0	
2596	96	354	09:33:24.000	117GO105A106A4CK	7STRP	0.027007,0.0,0,0	Slew =,1.91	2R3	4	0	3,747,022:84:0	
2597	**96**	**354**	**09:33:32.666**	**20EG6B**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**2R3**	**4**	**0**	**3,747,023:06:0**	
2598	96	354	09:33:41.333	117GO105A106A4CL	7STRP	-0.026806,0.0012	Slew =12.01	2R3	4	0	3,747,023:19:0	
2599	96	354	09:33:47.333	117GO105A106A4CM	7STRP	0.027007,0.0,0,0	Slew =,1.91	2R3	4	0	3,747,023:28:0	
2600	96	354	09:34:04.666	117GO105A106A4CN	7STRP	-0.026806,0.0012	Slew =12.01	2R3	4	0	3,747,023:54:0	
2601	96	354	09:34:10.666	117GO105A106A4CO	7STRP	0.027007,0.0,0,0	Slew =,1.91	2R3	4	0	3,747,023:63:0	
2602	96	354	09:34:28.000	117GO105A106A4CP	7STRP	-0.026806,0.0012	Slew =12.01	2R3	4	0	3,747,023:89:0	
2603	**96**	**354**	**09:34:33.333**	**20EG6C**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**2R3**	**4**	**0**	**3,747,024:06:0**	
2604	96	354	09:34:34.000	117GO105A106A4CQ	7STRP	0.027007,0.0,0,0	Slew =,1.91	2R3	4	0	3,747,024:07:0	
2605	96	354	09:34:51.333	117GO105A106A4CR	7STRP	-0.026806,0.0012	Slew =12.01	2R3	4	0	3,747,024:33:0	
2606	96	354	09:34:57.333	117GO105A106A4CS	7STRP	0.027007,0.0,0,0	Slew =,1.91	2R3	4	0	3,747,024:42:0	
2607	96	354	09:35:14.666	117GO105A106A4CT	7STRP	-0.026806,0.0012	Slew =12.01	2R3	4	0	3,747,024:68:0	
2608	96	354	09:35:20.666	117GO105A106A4CU	7STRP	0.027007,0.0,0,0	Slew =,1.91	2R3	4	0	3,747,024:77:0	
2609	**96**	**354**	**09:35:34.000**	**20EG5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**3,747,025:06:0**	
2610	96	354	09:35:38.000	117GO105A106A4CV	7STRP	-0.026806,0.0012	Slew =12.01	260	4	0	3,747,025:12:0	
2611	96	354	09:35:44.000	117GO105A106A4CW	7STRP	0.027007,0.0,0,0	Slew =,1.91	260	4	0	3,747,025:21:0	
2612	96	354	09:36:01.333	117GO105A106A4CX	7STRP	-0.026806,0.0012	Slew =12.01	260	4	0	3,747,025:47:0	
2613	96	354	09:36:07.333	117GO105A106A4CY	7STRP	0.027007,0.0,0,0	Slew =,1.91	260	4	0	3,747,025:56:0	
2614	96	354	09:36:24.666	117GO11A	**CSMOS**	GE	***** GROUP END CSMOS	260	4	0	3,747,025:82:0	
2615	96	354	09:36:24.666	176GO6B	6TMREC	**NRC**	NO RECORD Record Mode Change	260	4	0	3,747,025:82:0	
2616	96	354	09:36:33.333		DMS:	: *RUNUP	R7, TRACK *3, FWD, TIC 4676.43 +/- 1	260	4	0	3,747,026:04:0	
2617	**96**	**354**	**09:36:34.666**	**20EG5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**3,747,026:06:0**	
2618	96	354	09:36:34.800		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC *4676.55 +/- 1	260	4	0	3,747,026:06:2	
2619	96	354	09:36:36.666		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *4676.99 +/- 1	260	4	0	3,747,026:09:0	
2620	96	354	09:36:50.000		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *4680.11 +/- 1	260	4	0	3,747,026:29:0	
2621	**96**	**354**	**09:37:35.333**	**20EG4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**3,747,027:06:0**	
2622	**96**	**354**	**09:38:36.000**	**20EG4B**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**3,747,028:06:0**	
2623	96	354	09:41:32.666	165GP4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,747,030:89:0	
2624	96	354	09:41:33.333	165GP4B	7SCAN	NORM,57.265,23.5	Check S/P Position	2R3	4	0	3,747,030:90:0	
2625	96	354	09:43:26.000	117GP	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	3,747,032:77:0	
2626	96	354	09:43:35.333	176GP6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R3	4	0	3,747,033:00:0	
2627	96	354	09:43:35.333	117GP105A106A4A	7STRP	0.024005,0.0,0,0	Slew =,0.31	2R3	4	0	3,747,033:00:0	
2628	**96**	**354**	**09:44:40.000**	**E4NNRELOAD06-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**	
2629	96	354	09:44:56.000	117GP105A106A4B	7STRP	-0.023504,0.0011	Slew =,11.0	2R3	4	0	3,747,034:30:0	
2630	96	354	09:45:02.000	117GP105A106A4C	7STRP	0.024005,0.0,0,0	Slew =,0.31	2R3	4	0	3,747,034:39:0	
2631	96	354	09:46:22.666	117GP105A106A4D	7STRP	-0.023504,0.0011	Slew =,11.0	2R3	4	0	3,747,035:69:0	
2632	96	354	09:46:28.666	117GP105A106A4E	7STRP	0.024005,0.0,0,0	Slew =,0.31	2R3	4	0	3,747,035:78:0	
2633	96	354	09:47:49.333	117GP105A106A4F	7STRP	-0.023504,0.0011	Slew =,11.0	2R3	4	0	3,747,037:17:0	
2634	96	354	09:47:55.333	117GP105A106A4G	7STRP	0.024005,0.0,0,0	Slew =,0.31	2R3	4	0	3,747,037:26:0	
2635	96	354	09:49:16.000	117GP105A106A4H	7STRP	-0.023504,0.0011	Slew =,11.0	2R3	4	0	3,747,038:56:0	
2636	96	354	09:49:22.000	117GP105A106A4I	7STRP	0.024005,0.0,0,0	Slew =,0.31	2R3	4	0	3,747,038:65:0	
2637	96	354	09:50:42.666	117GP105A106A4J	7STRP	-0.023504,0.0011	Slew =,11.0	2R3	4	0	3,747,040:04:0	
2638	96	354	09:50:48.666	117GP105A106A4K	7STRP	0.024005,0.0,0,0	Slew =,0.31	2R3	4	0	3,747,040:13:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2639	96	354	09:52:09.333	117GP105A106A4L	7STRP	-0.023504,0.0011	Slew =,11.0	2R3	4	0	3,747,041:43:0	
2640	96	354	09:52:15.333	117GP105A106A4M	7STRP	0.024005,0.0,0,0	Slew =,0.31	2R3	4	0	3,747,041:52:0	
2641	96	354	09:53:36.000	117GP105A106A4N	7STRP	-0.023504,0.0011	Slew =,11.0	2R3	4	0	3,747,042:82:0	
2642	96	354	09:53:42.000	117GP105A106A4O	7STRP	0.024005,0.0,0,0	Slew =,0.31	2R3	4	0	3,747,043:00:0	
2643	96	354	09:55:02.666	117GP105A106A4P	7STRP	-0.023504,0.0011	Slew =,11.0	2R3	4	0	3,747,044:30:0	
2644	96	354	09:55:08.666	117GP105A106A4Q	7STRP	0.024005,0.0,0,0	Slew =,0.31	2R3	4	0	3,747,044:39:0	
2645	96	354	09:56:17.333		DMS:	: *RUNUP	R7, TRACK *3, FWD, TIC 4680.17 +/- 1	2R3	4	0	3,747,045:51:0	
2646	96	354	09:56:18.800		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC *4680.29 +/- 1	2R3	4	0	3,747,045:53:2	
2647	96	354	09:56:29.333	117GP105A106A4R	7STRP	-0.023504,0.0011	Slew =,11.0	2R3	4	0	3,747,045:69:0	
2648	96	354	09:56:35.333		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *4684.17 +/- 1	2R3	4	0	3,747,045:78:0	
2649	96	354	09:56:35.333	117GP105A106A4S	7STRP	0.024005,0.0,0,0	Slew =,0.31	2R3	4	0	3,747,045:78:0	
2650	96	354	09:56:55.333		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *4688.85 +/- 1	2R3	4	0	3,747,046:17:0	
2651	96	354	09:57:56.000	117GP105A106A4T	7STRP	-0.023504,0.0011	Slew =,11.0	2R3	4	0	3,747,047:17:0	
2652	96	354	09:58:02.000	117GP105A106A4U	7STRP	0.024005,0.0,0,0	Slew =,0.31	2R3	4	0	3,747,047:26:0	
2653	96	354	09:59:22.666	117GP105A106A4V	7STRP	-0.023504,0.0011	Slew =,11.0	2R3	4	0	3,747,048:56:0	
2654	96	354	09:59:28.666	117GP105A106A4W	7STRP	0.024005,0.0,0,0	Slew =,0.31	2R3	4	0	3,747,048:65:0	
2655	96	354	10:00:49.333	117GP105A106A4X	7STRP	-0.023504,0.0011	Slew =,11.0	2R3	4	0	3,747,050:04:0	
2656	96	354	10:00:55.333	117GP105A106A4Y	7STRP	0.024005,0.0,0,0	Slew =,0.31	2R3	4	0	3,747,050:13:0	
2657	96	354	10:02:16.000	117GP105A106A4Z	7STRP	-0.023504,0.0011	Slew =,11.0	2R3	4	0	3,747,051:43:0	
2658	96	354	10:02:22.000	117GP105A106A4AA	7STRP	0.024005,0.0,0,0	Slew =,0.31	2R3	4	0	3,747,051:52:0	
2659	96	354	10:03:42.666	117GP105A106A4AB	7STRP	-0.023504,0.0011	Slew =,11.0	2R3	4	0	3,747,052:82:0	
2660	96	354	10:03:48.666	117GP105A106A4AC	7STRP	0.024005,0.0,0,0	Slew =,0.31	2R3	4	0	3,747,053:00:0	
2661	96	354	10:05:09.333	117GP105A106A4AD	7STRP	-0.023504,0.0011	Slew =,11.0	2R3	4	0	3,747,054:30:0	
2662	96	354	10:05:15.333	117GP105A106A4AE	7STRP	0.024005,0.0,0,0	Slew =,0.31	2R3	4	0	3,747,054:39:0	
2663	96	354	10:06:36.000	117GP105A106A4AF	7STRP	-0.023504,0.0011	Slew =,11.0	2R3	4	0	3,747,055:69:0	
2664	96	354	10:06:42.000	117GP105A106A4AG	7STRP	0.024005,0.0,0,0	Slew =,0.31	2R3	4	0	3,747,055:78:0	
2665	96	354	10:08:02.666	117GP105A106A4AH	7STRP	-0.023504,0.0011	Slew =,11.0	2R3	4	0	3,747,057:17:0	
2666	96	354	10:08:08.666	117GP105A106A4AI	7STRP	0.024005,0.0,0,0	Slew =,0.31	2R3	4	0	3,747,057:26:0	
2667	96	354	10:09:19.333		DMS:	: *RUNUP	R7, TRACK *3, FWD, TIC 4688.91 +/- 1	2R3	4	0	3,747,058:41:0	
2668	96	354	10:09:20.800		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC *4689.03 +/- 1	2R3	4	0	3,747,058:43:2	
2669	96	354	10:09:29.333	117GP105A106A4AJ	7STRP	-0.023504,0.0011	Slew =,11.0	2R3	4	0	3,747,058:56:0	
2670	96	354	10:09:35.333	117GP105A106A4AK	7STRP	0.024005,0.0,0,0	Slew =,0.31	2R3	4	0	3,747,058:65:0	
2671	96	354	10:09:37.333		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *4692.91 +/- 1	2R3	4	0	3,747,058:68:0	
2672	96	354	10:09:57.333		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *4697.59 +/- 1	2R3	4	0	3,747,059:07:0	
2673	96	354	10:10:56.000	117GP105A106A4AL	7STRP	-0.023504,0.0011	Slew =,11.0	2R3	4	0	3,747,060:04:0	
2674	96	354	10:11:02.000	117GP105A106A4AM	7STRP	0.024005,0.0,0,0	Slew =,0.31	2R3	4	0	3,747,060:13:0	
2675	96	354	10:12:22.666	117GP105A106A4AN	7STRP	-0.023504,0.0011	Slew =,11.0	2R3	4	0	3,747,061:43:0	
2676	96	354	10:12:28.666	117GP105A106A4AO	7STRP	0.024005,0.0,0,0	Slew =,0.31	2R3	4	0	3,747,061:52:0	
2677	96	354	10:13:49.333	117GP105A106A4AP	7STRP	-0.023504,0.0011	Slew =,11.0	2R3	4	0	3,747,062:82:0	
2678	96	354	10:13:55.333	117GP105A106A4AQ	7STRP	0.024005,0.0,0,0	Slew =,0.31	2R3	4	0	3,747,063:00:0	
2679	96	354	10:15:16.000	117GP105A106A4AR	7STRP	-0.023504,0.0011	Slew =,11.0	2R3	4	0	3,747,064:30:0	
2680	96	354	10:15:22.000	117GP105A106A4AS	7STRP	0.024005,0.0,0,0	Slew =,0.31	2R3	4	0	3,747,064:39:0	
2681	96	354	10:16:37.333	488U6B	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	2R3	4	0	3,747,065:61:0	
2682	96	354	10:16:42.666	117GP105A106A4AT	7STRP	-0.023504,0.0011	Slew =,11.0	2R3	4	0	3,747,065:69:0	
2683	96	354	10:16:48.666	117GP105A106A4AU	7STRP	0.024005,0.0,0,0	Slew =,0.31	2R3	4	0	3,747,065:78:0	
2684	96	354	10:18:09.333	117GP105A106A4AV	7STRP	-0.023504,0.0011	Slew =,11.0	2R3	4	0	3,747,067:17:0	
2685	96	354	10:18:15.333	117GP105A106A4AW	7STRP	0.024005,0.0,0,0	Slew =,0.31	2R3	4	0	3,747,067:26:0	
2686	96	354	10:19:36.000	117GP105A106A4AX	7STRP	-0.023504,0.0011	Slew =,11.0	2R3	4	0	3,747,068:56:0	
2687	96	354	10:19:42.000	117GP105A106A4AY	7STRP	0.024005,0.0,0,0	Slew =,0.31	2R3	4	0	3,747,068:65:0	
2688	96	354	10:21:02.666	117GP105A106A4AZ	7STRP	-0.023504,0.0011	Slew =,11.0	2R3	4	0	3,747,070:04:0	
2689	96	354	10:21:08.666	117GP105A106A4BA	7STRP	0.024005,0.0,0,0	Slew =,0.31	2R3	4	0	3,747,070:13:0	
2690	96	354	10:22:21.333		DMS:	: *RUNUP	R7, TRACK *3, FWD, TIC 4697.65 +/- 1	2R3	4	0	3,747,071:31:0	
2691	96	354	10:22:22.800		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC *4697.77 +/- 1	2R3	4	0	3,747,071:33:2	
2692	96	354	10:22:29.333	117GP105A106A4BB	7STRP	-0.023504,0.0011	Slew =,11.0	2R3	4	0	3,747,071:43:0	
2693	96	354	10:22:35.333	117GP105A106A4BC	7STRP	0.024005,0.0,0,0	Slew =,0.31	2R3	4	0	3,747,071:52:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2694	96	354	10:22:39.333		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *4701.65 +/- 1	2R3	4	0	3,747,071:58:0	
2695	96	354	10:22:59.333		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *4706.33 +/- 1	2R3	4	0	3,747,071:88:0	
2696	96	354	10:23:56.000	117GP105A106A4BD	7STRP	-0.023504,0.0011	Slew =,11.0	2R3	4	0	3,747,072:82:0	
2697	96	354	10:24:02.000	117GP105A106A4BE	7STRP	0.024005,0.0,0,0	Slew =,0.31	2R3	4	0	3,747,073:00:0	
2698	96	354	10:25:22.666	117GP105A106A4BF	7STRP	-0.023504,0.0011	Slew =,11.0	2R3	4	0	3,747,074:30:0	
2699	96	354	10:25:28.666	117GP105A106A4BG	7STRP	0.024005,0.0,0,0	Slew =,0.31	2R3	4	0	3,747,074:39:0	
2700	96	354	10:26:49.333	117GP105A106A4BH	7STRP	-0.023504,0.0011	Slew =,11.0	2R3	4	0	3,747,075:69:0	
2701	96	354	10:26:55.333	117GP105A106A4BI	7STRP	0.024005,0.0,0,0	Slew =,0.31	2R3	4	0	3,747,075:78:0	
2702	96	354	10:28:16.000	117GP105A106A4BJ	7STRP	-0.023504,0.0011	Slew =,11.0	2R3	4	0	3,747,077:17:0	
2703	96	354	10:28:22.000	117GP105A106A4BK	7STRP	0.024005,0.0,0,0	Slew =,0.31	2R3	4	0	3,747,077:26:0	
2704	96	354	10:29:42.666	117GP105A106A4BL	7STRP	-0.023504,0.0011	Slew =,11.0	2R3	4	0	3,747,078:56:0	
2705	96	354	10:29:48.666	117GP105A106A4BM	7STRP	0.024005,0.0,0,0	Slew =,0.31	2R3	4	0	3,747,078:65:0	
2706	96	354	10:31:09.333	117GP105A106A4BN	7STRP	-0.023504,0.0011	Slew =,11.0	2R3	4	0	3,747,080:04:0	
2707	96	354	10:31:15.333	117GP105A106A4BO	7STRP	0.024005,0.0,0,0	Slew =,0.31	2R3	4	0	3,747,080:13:0	
2708	96	354	10:32:36.000	117GP105A106A4BP	7STRP	-0.023504,0.0011	Slew =,11.0	2R3	4	0	3,747,081:43:0	
2709	96	354	10:32:42.000	117GP105A106A4BQ	7STRP	0.024005,0.0,0,0	Slew =,0.31	2R3	4	0	3,747,081:52:0	
2710	96	354	10:34:02.666	117GP105A106A4BR	7STRP	-0.023504,0.0011	Slew =,11.0	2R3	4	0	3,747,082:82:0	
2711	96	354	10:34:08.666	117GP105A106A4BS	7STRP	0.024005,0.0,0,0	Slew =,0.31	2R3	4	0	3,747,083:00:0	
2712	96	354	10:35:24.000		DMS:	: *RUNUP	R7, TRACK *3, FWD, TIC 4706.39 +/- 1	2R3	4	0	3,747,084:22:0	
2713	96	354	10:35:25.466		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC *4706.51 +/- 1	2R3	4	0	3,747,084:24:2	
2714	96	354	10:35:29.333	117GP105A106A4BT	7STRP	-0.023504,0.0011	Slew =,11.0	2R3	4	0	3,747,084:30:0	
2715	96	354	10:35:35.333	117GP105A106A4BU	7STRP	0.024005,0.0,0,0	Slew =,0.31	2R3	4	0	3,747,084:39:0	
2716	96	354	10:35:41.333		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *4710.23 +/- 1	2R3	4	0	3,747,084:48:0	
2717	96	354	10:36:01.333		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *4714.92 +/- 1	2R3	4	0	3,747,084:78:0	
2718	96	354	10:36:56.000	117GP105A106A4BV	7STRP	-0.023504,0.0011	Slew =,11.0	2R3	4	0	3,747,085:69:0	
2719	96	354	10:37:02.000	117GP105A106A4BW	7STRP	0.024005,0.0,0,0	Slew =,0.31	2R3	4	0	3,747,085:78:0	
2720	96	354	10:38:22.666	117GP105A106A4BX	7STRP	-0.023504,0.0011	Slew =,11.0	2R3	4	0	3,747,087:17:0	
2721	96	354	10:38:28.666	117GP105A106A4BY	7STRP	0.024005,0.0,0,0	Slew =,0.31	2R3	4	0	3,747,087:26:0	
2722	96	354	10:38:30.000	488U6C	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	2R3	4	0	3,747,087:28:0	
2723	96	354	10:39:49.333	117GP105A106A4BZ	7STRP	-0.023504,0.0011	Slew =,11.0	2R3	4	0	3,747,088:56:0	
2724	96	354	10:39:55.333	117GP105A106A4CA	7STRP	0.024005,0.0,0,0	Slew =,0.31	2R3	4	0	3,747,088:65:0	
2725	96	354	10:41:16.000	117GP105A106A4CB	7STRP	-0.023504,0.0011	Slew =,11.0	2R3	4	0	3,747,090:04:0	
2726	96	354	10:41:22.000	117GP105A106A4CC	7STRP	0.024005,0.0,0,0	Slew =,0.31	2R3	4	0	3,747,090:13:0	
2727	96	354	10:42:42.666	117GP105A106A4CD	7STRP	-0.023504,0.0011	Slew =,11.0	2R3	4	0	3,747,091:43:0	
2728	96	354	10:42:48.666	117GP105A106A4CE	7STRP	0.024005,0.0,0,0	Slew =,0.31	2R3	4	0	3,747,091:52:0	
2729	96	354	10:44:09.333	117GP105A106A4CF	7STRP	-0.023504,0.0011	Slew =,11.0	2R3	4	0	3,747,092:82:0	
2730	96	354	10:44:15.333	117GP105A106A4CG	7STRP	0.024005,0.0,0,0	Slew =,0.31	2R3	4	0	3,747,093:00:0	
2731	96	354	10:45:36.000	117GP105A106A4CH	7STRP	-0.023504,0.0011	Slew =,11.0	2R3	4	0	3,747,094:30:0	
2732	96	354	10:45:42.000	117GP105A106A4CI	7STRP	0.024005,0.0,0,0	Slew =,0.31	2R3	4	0	3,747,094:39:0	
2733	96	354	10:47:02.666	117GP105A106A4CJ	7STRP	-0.023504,0.0011	Slew =,11.0	2R3	4	0	3,747,095:69:0	
2734	96	354	10:47:08.666	117GP105A106A4CK	7STRP	0.024005,0.0,0,0	Slew =,0.31	2R3	4	0	3,747,095:78:0	
2735	96	354	10:48:26.000		DMS:	: *RUNUP	R7, TRACK *3, FWD, TIC 4714.98 +/- 1	2R3	4	0	3,747,097:12:0	
2736	96	354	10:48:27.466		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC *4715.10 +/- 1	2R3	4	0	3,747,097:14:2	
2737	96	354	10:48:29.333	117GP11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	3,747,097:17:0	
2738	96	354	10:48:44.000		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *4718.97 +/- 1	2R3	4	0	3,747,097:39:0	
2739	96	354	10:49:04.000		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *4723.66 +/- 1	2R3	4	0	3,747,097:69:0	
2740	96	354	10:49:12.666	176GP6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	3,747,097:82:0	
2741	96	354	10:49:21.333		DMS:	: *RUNUP	R7, TRACK *3, FWD, TIC 4723.72 +/- 1	2R3	4	0	3,747,098:04:0	
2742	96	354	10:49:22.800		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC *4723.84 +/- 1	2R3	4	0	3,747,098:06:2	
2743	96	354	10:49:24.666		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *4724.27 +/- 1	2R3	4	0	3,747,098:09:0	
2744	96	354	10:49:32.000		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *4725.99 +/- 1	2R3	4	0	3,747,098:20:0	
2745	**96**	**354**	**10:54:26.000**	**E4JNFEA09501-**		**-----START------**		**2R3**	**4**	**0**	**: :**	
2746	96	354	10:55:18.000	127EP	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	3,747,103:84:0	
2747	**96**	**354**	**10:55:18.000**	**127EP4A**	**37IOP**	**5,1**	**Short Map, Grating Start Position =01**	**2R5**	**4**	**1**	**3,747,103:84:0**	
2748	**96**	**354**	**10:55:18.666**	**127EP4B**	**37ETB**	**,CD,02,00,00,05,**	**Loads wavelength edit table**	**2R5**	**4**	**1**	**3,747,103:85:0**	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2749	96	354	10:55:21.333	165EP4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,747,103:89:0	
2750	96	354	10:55:22.000	165EP4B	7SCAN	NORM,28.934,14.5	Check S/P Position	2R5	4	1	3,747,103:90:0	
2751	96	354	10:55:26.666	127EP11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R5	4	1	3,747,104:06:0	
2752	96	354	10:56:10.666	175EP422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,747,104:72:0	
2753	96	354	10:56:14.000	117EP	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,747,104:77:0	
2754	96	354	10:56:17.333		DMS:	: *RUNUP	R7, TRACK *3, FWD, TIC 4726.05 +/- 1	2R5	4	1	3,747,104:82:0	
2755	96	354	10:56:18.800		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *4726.17 +/- 1	2R5	4	1	3,747,104:84:2	
2756	96	354	10:56:18.800		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC 4726.17 +/- 1	2R5	4	1	3,747,104:84:2	
2757	96	354	10:56:20.000	175EP176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	3,747,104:86:0	
2758	**96**	**354**	**10:56:22.938**	**E4JNFEA09501-**	**NIMPBK**	**301FI**	**JUPITER CAMP. FEAT. 95 DEG. PHAS**	**2R5**	**4**	**1**	**: :**	
2759	96	354	10:56:23.333	117EP105A106A4A	7STRP	0.047736,0.0,0,0	Slew =,0.12	2R5	4	1	3,747,105:00:0	
2760	**96**	**354**	**11:03:02.271**	**E4JNFEA09501-**	**DESELC**	**300FI**	**JUPITER CAMP. FEAT. 95 DEG. PHAS**	**2R5**	**4**	**1**	**: :**	
2761	96	354	11:03:02.666	117EP11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,747,111:53:0	
2762	96	354	11:03:04.000	175EP422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,747,111:55:0	
2763	96	354	11:03:04.000		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *4821.14 +/- 1	2R5	4	1	3,747,111:55:0	
2764	96	354	11:03:04.000	175EP6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,747,111:55:0	
2765	**96**	**354**	**11:03:06.666**	**E4JNFEA09501-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**	
2766	96	354	11:04:27.333	165GQ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,747,112:89:0	
2767	96	354	11:04:28.000	165GQ4B	7SCAN	NORM,28.884,14.0	Check S/P Position	2R5	4	1	3,747,112:90:0	
2768	96	354	11:05:20.000	117GQ	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,747,113:77:0	
2769	96	354	11:05:29.333	117GQ105A106A4A	7STRP	-0.028007,0.0,0,	Slew =,0.12	2R5	4	1	3,747,114:00:0	
2770	96	354	11:05:29.333	176GQ6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R5	4	1	3,747,114:00:0	
2771	96	354	11:09:28.000	117GQ105A106A4B	7STRP	0.025305,0.0015,	Slew =12.01	2R5	4	1	3,747,117:85:0	
2772	96	354	11:09:34.000	117GQ105A106A4C	7STRP	-0.028007,0.0,0,	Slew =,0.12	2R5	4	1	3,747,118:03:0	
2773	96	354	11:13:32.666	117GQ105A106A4D	7STRP	0.025305,0.0015,	Slew =12.01	2R5	4	1	3,747,121:88:0	
2774	96	354	11:13:38.666	117GQ105A106A4E	7STRP	-0.028007,0.0,0,	Slew =,0.12	2R5	4	1	3,747,122:06:0	
2775	96	354	11:17:37.333	117GQ105A106A4F	7STRP	0.025305,0.0015,	Slew =12.01	2R5	4	1	3,747,126:00:0	
2776	96	354	11:17:43.333	117GQ105A106A4G	7STRP	-0.028007,0.0,0,	Slew =,0.12	2R5	4	1	3,747,126:09:0	
2777	96	354	11:18:11.333		DMS:	: *RUNUP	R7, TRACK *3, FWD, TIC 4821.20 +/- 1	2R5	4	1	3,747,126:51:0	
2778	96	354	11:18:12.800		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC *4821.32 +/- 1	2R5	4	1	3,747,126:53:2	
2779	96	354	11:18:29.333		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *4825.19 +/- 1	2R5	4	1	3,747,126:78:0	
2780	96	354	11:18:49.333		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *4829.88 +/- 1	2R5	4	1	3,747,127:17:0	
2781	96	354	11:21:42.000	117GQ105A106A4H	7STRP	0.025305,0.0015,	Slew =12.01	2R5	4	1	3,747,130:03:0	
2782	96	354	11:21:48.000	117GQ105A106A4I	7STRP	-0.028007,0.0,0,	Slew =,0.12	2R5	4	1	3,747,130:12:0	
2783	96	354	11:25:46.666	117GQ11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,747,134:06:0	
2784	96	354	11:25:46.666	176GQ6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,747,134:06:0	
2785	96	354	11:25:55.333		DMS:	: *RUNUP	R7, TRACK *3, FWD, TIC 4829.94 +/- 1	2R5	4	1	3,747,134:19:0	
2786	96	354	11:25:56.800		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC *4830.06 +/- 1	2R5	4	1	3,747,134:21:2	
2787	96	354	11:25:58.666		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *4830.50 +/- 1	2R5	4	1	3,747,134:24:0	
2788	96	354	11:26:12.666		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *4833.78 +/- 1	2R5	4	1	3,747,134:45:0	
2789	**96**	**354**	**11:27:48.000**	**E4JNFEA09502-**		**-----START------**		**2R5**	**4**	**1**	**: :**	
2790	96	354	11:28:43.333	165EQ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,747,136:89:0	
2791	96	354	11:28:44.000	165EQ4B	7SCAN	NORM,29.919,14.8	Check S/P Position	2R5	4	1	3,747,136:90:0	
2792	96	354	11:31:42.000	127EQ	NIMSTAB	GS	%%%%% GROUP START TAB	2R5	4	1	3,747,139:84:0	
2793	**96**	**354**	**11:31:42.000**	**127EQ4A**	**37IOP**	**5,1**	**Short Map, Grating Start Position =01**	**2R5**	**4**	**1**	**3,747,139:84:0**	
2794	**96**	**354**	**11:31:42.666**	**127EQ4B**	**37ETB**	**,CD,02,00,00,05,**	**Loads wavelength edit table**	**2R5**	**4**	**1**	**3,747,139:85:0**	
2795	96	354	11:31:50.666	127EQ11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R5	4	1	3,747,140:06:0	
2796	96	354	11:32:34.666	175EQ422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,747,140:72:0	
2797	96	354	11:32:38.000	117EQ	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,747,140:77:0	
2798	96	354	11:32:41.333		DMS:	: *RUNUP	R7, TRACK *3, FWD, TIC 4833.84 +/- 1	2R5	4	1	3,747,140:82:0	
2799	96	354	11:32:42.800		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC 4833.96 +/- 1	2R5	4	1	3,747,140:84:2	
2800	96	354	11:32:42.800		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *4833.96 +/- 1	2R5	4	1	3,747,140:84:2	
2801	96	354	11:32:44.000	175EQ176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	3,747,140:86:0	
2802	**96**	**354**	**11:32:46.936**	**E4JNFEA09502-**	**NIMPBK**	**301FJ**	**JUPITER CAMP. FEAT. 95 DEG. PHAS**	**2R5**	**4**	**1**	**: :**	
2803	96	354	11:32:47.333	117EQ105A106A4A	7STRP	0.047536,0.0,0,0	Slew =,0.12	2R5	4	1	3,747,141:00:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2804	**96**	**354**	**11:39:24.270**	**E4JNFEA09502-**	**DESELC**	**300FJ**	**JUPITER CAMP. FEAT. 95 DEG. PHAS**	**2R5**	**4**	**1**	**: :**	
2805	96	354	11:39:24.666	117EQ11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,747,147:50:0	
2806	96	354	11:39:26.000		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *4928.46 +/- 1	2R5	4	1	3,747,147:52:0	
2807	96	354	11:39:26.000	175EQ422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,747,147:52:0	
2808	96	354	11:39:26.000	175EQ6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,747,147:52:0	
2809	**96**	**354**	**11:39:28.666**	**E4JNFEA09502-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**	
2810	96	354	11:40:51.333	165GR4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,747,148:89:0	
2811	96	354	11:40:52.000	165GR4B	7SCAN	NORM,356.66,-0.5	Check S/P Position	2R5	4	1	3,747,148:90:0	
2812	96	354	11:41:44.000	117GR	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,747,149:77:0	
2813	96	354	11:41:53.333	117GR105A106A4A	7STRP	0.0,0.003,0,0,0,	Slew =,0.19	2R5	4	1	3,747,150:00:0	
2814	96	354	11:41:53.333	176GR6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R5	4	1	3,747,150:00:0	
2815	96	354	11:42:15.333	117GR11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,747,150:33:0	
2816	96	354	11:42:26.666	176GR6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,747,150:50:0	
2817	96	354	11:42:35.333		DMS:	: *RUNUP	R7, TRACK *3, FWD, TIC 4928.52 +/- 1	2R5	4	1	3,747,150:63:0	
2818	96	354	11:42:36.800		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC *4928.63 +/- 1	2R5	4	1	3,747,150:65:2	
2819	96	354	11:42:38.666		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *4929.07 +/- 1	2R5	4	1	3,747,150:68:0	
2820	96	354	11:42:46.000		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *4930.79 +/- 1	2R5	4	1	3,747,150:79:0	
2821	**96**	**354**	**11:46:00.000**	**E4JNFEA09503-**		**-----START------**		**2R5**	**4**	**1**	**: :**	
2822	96	354	11:46:55.333	165ER4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,747,154:89:0	
2823	96	354	11:46:56.000	165ER4B	7SCAN	NORM,31.161,15.2	Check S/P Position	2R5	4	1	3,747,154:90:0	
2824	**96**	**354**	**11:49:54.000**	**127ER4A**	**37IOP**	**5,1**	**Short Map, Grating Start Position =01**	**2R5**	**4**	**1**	**3,747,157:84:0**	
2825	96	354	11:49:54.000	127ER	NIMSTAB	GS	%%%%% GROUP START TAB	2R5	4	1	3,747,157:84:0	
2826	**96**	**354**	**11:49:54.666**	**127ER4B**	**37ETB**	**,CD,02,00,00,05,**	**Loads wavelength edit table**	**2R5**	**4**	**1**	**3,747,157:85:0**	
2827	96	354	11:50:02.666	127ER11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R5	4	1	3,747,158:06:0	
2828	96	354	11:50:46.666	175ER422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,747,158:72:0	
2829	96	354	11:50:50.000	117ER	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,747,158:77:0	
2830	96	354	11:50:53.333		DMS:	: *RUNUP	R7, TRACK *3, FWD, TIC 4930.85 +/- 1	2R5	4	1	3,747,158:82:0	
2831	96	354	11:50:54.800		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC 4930.97 +/- 1	2R5	4	1	3,747,158:84:2	
2832	96	354	11:50:54.800		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *4930.97 +/- 1	2R5	4	1	3,747,158:84:2	
2833	96	354	11:50:56.000	175ER176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	3,747,158:86:0	
2834	**96**	**354**	**11:50:58.936**	**E4JNFEA09503-**	**NIMPBK**	**301FK**	**JUPITER CAMP. FEAT. 95 DEG. PHAS**	**2R5**	**4**	**1**	**: :**	
2835	96	354	11:50:59.333	117ER105A106A4A	7STRP	0.047536,0.0,0,0	Slew =,0.12	2R5	4	1	3,747,159:00:0	
2836	**96**	**354**	**11:51:22.270**	**E4JNFEA09503-**	**DESELC**	**300FK**	**JUPITER CAMP. FEAT. 95 DEG. PHAS**	**2R5**	**4**	**1**	**: :**	
2837	96	354	11:51:24.000		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *4937.81 +/- 1	2R5	4	1	3,747,159:37:0	
2838	96	354	11:51:24.000	175ER422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,747,159:37:0	
2839	96	354	11:51:24.000	175ER6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,747,159:37:0	
2840	96	354	11:57:36.666	117ER11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,747,165:50:0	
2841	**96**	**354**	**11:57:40.666**	**E4JNFEA09503-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**	
2842	96	354	12:57:42.000	488U6D	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	2R5	4	1	3,747,224:89:0	
2843	96	354	13:00:44.000	165GS4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,747,227:89:0	
2844	96	354	13:00:44.666	165GS4B	7SCAN	NORM,319.100998,	Check S/P Position	2R5	4	1	3,747,227:90:0	
2845	96	354	13:04:38.666	117GS	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,747,231:77:0	
2846	96	354	13:04:48.000	176GS6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R5	4	1	3,747,232:00:0	
2847	96	354	13:04:48.000	117GS105A106A4A	7STRP	0.0,0.003,0,0,0,	Slew =,0.34	2R5	4	1	3,747,232:00:0	
2848	96	354	13:05:10.000	117GS11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,747,232:33:0	
2849	96	354	13:05:21.333	176GS6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,747,232:50:0	
2850	96	354	13:05:30.000		DMS:	: *RUNUP	R7, TRACK *3, FWD, TIC 4937.87 +/- 1	2R5	4	1	3,747,232:63:0	
2851	96	354	13:05:31.466		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC *4937.99 +/- 1	2R5	4	1	3,747,232:65:2	
2852	96	354	13:05:33.333		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *4938.43 +/- 1	2R5	4	1	3,747,232:68:0	
2853	96	354	13:05:40.666		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *4940.15 +/- 1	2R5	4	1	3,747,232:79:0	
2854	96	354	13:10:45.333	465KD6A	6DTRN	CMD,6DTRN,465KD6	DMS TRACK TURNAROUND	2R5	4	1	3,747,237:81:0	
2855	**96**	**354**	**13:25:05.399**	**E4INCHEMIS06-**		**-----START------**		**2R5**	**4**	**1**	**: :**	
2856	96	354	13:26:00.666	165ES4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,747,252:89:0	
2857	96	354	13:26:01.333	165ES4B	7SCAN	NORM,5.326,3.407	Check S/P Position	2R5	4	1	3,747,252:90:0	
2858	**96**	**354**	**13:28:59.333**	**127ES4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**3,747,255:84:0**	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2859	96	354	13:28:59.333	127ES	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	3,747,255:84:0	
2860	**96**	**354**	**13:29:00.000**	**127ES4B**	**37ETB**	**04,C4,35,FF,FF**	**Loads wavelength edit table**	**2R3**	**4**	**0**	**3,747,255:85:0**	
2861	96	354	13:29:08.000	127ES11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	3,747,256:06:0	
2862	96	354	13:29:35.333	175ES422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	2R3	4	0	3,747,256:47:0	
2863	96	354	13:29:47.333	175ES176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	2R3	4	0	3,747,256:65:0	
2864	96	354	13:29:55.333	117ES	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	3,747,256:77:0	
2865	96	354	13:30:04.666	117ES105A106A4A	7STRP	-0.01,0.0,0,0,0,	Slew =,0.06	2R3	4	0	3,747,257:00:0	
2866	96	354	13:32:52.666	117ES11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	3,747,259:70:0	
2867	**96**	**354**	**13:33:03.399**	**E4INCHEMIS06-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**	
2868	96	354	13:33:26.666	175ES422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,747,260:30:0	
2869	**96**	**354**	**13:36:12.732**	**E4INCOOLCV02-**		**-----START------**		**2R3**	**4**	**0**	**: :**	
2870	**96**	**354**	**13:37:04.666**	**125EV4A**	**37IST**	**0,2,0,OFF,0,1,1**	**Gain State 4**	**4R3**	**4**	**0**	**3,747,263:84:0**	
2871	96	354	13:37:04.666	125EV	NIMSINIT	GS	##### GROUP START INIT	4R3	4	0	3,747,263:84:0	
2872	96	354	13:37:04.666	125EV11A	NIMSINIT	GE	##### GROUP END INIT	4R3	4	0	3,747,263:84:0	
2873	96	354	13:38:05.333	127EU	NIMSTAB	GS	%%%%% GROUP START TAB	4R3	4	0	3,747,264:84:0	
2874	**96**	**354**	**13:38:05.333**	**127EU4A**	**37IOP**	**7,21**	**Fixed Map, Grating Start Position =21**	**4R7**	**4**	**21**	**3,747,264:84:0**	
2875	**96**	**354**	**13:38:06.000**	**127EU4B**	**37ETB**	**07,C7,19,55,5D,0**	**Loads wavelength edit table**	**4R7**	**4**	**21**	**3,747,264:85:0**	
2876	96	354	13:38:08.666	165EU4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R7	4	21	3,747,264:89:0	
2877	96	354	13:38:09.333	165EU4B	7SCAN	NORM,5.988,3.713	Check S/P Position	4R7	4	21	3,747,264:90:0	
2878	96	354	13:38:14.000	127EU11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R7	4	21	3,747,265:06:0	
2879	96	354	13:38:14.000	117EU	**CSMOS**	GS	***** GROUP START CSMOS	4R7	4	21	3,747,265:06:0	
2880	96	354	13:38:20.000	175EU422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R7	4	21	3,747,265:15:0	
2881	96	354	13:38:29.333	175EU176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	4R7	4	21	3,747,265:29:0	
2882	96	354	13:38:30.000	117EU105A106A4A	7STRP	-0.006,0.0,0,0,0	Slew =,0.76	4R7	4	21	3,747,265:30:0	
2883	96	354	13:38:42.000	117EU105A106A4B	7STRP	0.00553,0.0,0,0,	Slew =,2.58	4R7	4	21	3,747,265:48:0	
2884	**96**	**354**	**13:38:48.266**	**E4INCOOLCV02-**	**NIMPBK**	**301FN**	**NIMS IO ECLIPSE OBSERVATION (ING**	**4R7**	**4**	**21**	**: :**	
2885	96	354	13:38:48.666	117EU105A106A4C	7STRP	-0.006,0.0,0,0,0	Slew =,0.76	4R7	4	21	3,747,265:58:0	
2886	96	354	13:39:00.666	117EU105A106A4D	7STRP	0.00553,0.0,0,0,	Slew =,2.58	4R7	4	21	3,747,265:76:0	
2887	**96**	**354**	**13:39:00.932**	**E4INCOOLCV02-**	**DESELC**	**300FN**	**NIMS IO ECLIPSE OBSERVATION (ING**	**4R7**	**4**	**21**	**: :**	
2888	96	354	13:39:07.333	117EU105A106A4E	7STRP	-0.006,0.0,0,0,0	Slew =,0.76	4R7	4	21	3,747,265:86:0	
2889	96	354	13:39:19.333	117EU105A106A4F	7STRP	0.00553,0.0,0,0,	Slew =,2.58	4R7	4	21	3,747,266:13:0	
2890	**96**	**354**	**13:39:25.599**	**E4INCOOLCV02-**	**NIMPBK**	**301LM**	**NIMS IO ECLIPSE OBSERVATION (ING**	**4R7**	**4**	**21**	**: :**	
2891	96	354	13:39:26.000	117EU105A106A4G	7STRP	-0.006,0.0,0,0,0	Slew =,0.76	4R7	4	21	3,747,266:23:0	
2892	96	354	13:39:38.000	117EU105A106A4H	7STRP	0.00553,0.0,0,0,	Slew =,2.58	4R7	4	21	3,747,266:41:0	
2893	**96**	**354**	**13:39:38.266**	**E4INCOOLCV02-**	**DESELC**	**300LM**	**NIMS IO ECLIPSE OBSERVATION (ING**	**4R7**	**4**	**21**	**: :**	
2894	96	354	13:39:44.666	117EU105A106A4I	7STRP	-0.006,0.0,0,0,0	Slew =,0.76	4R7	4	21	3,747,266:51:0	
2895	96	354	13:39:56.666	117EU105A106A4J	7STRP	0.00553,0.0,0,0,	Slew =,2.58	4R7	4	21	3,747,266:69:0	
2896	96	354	13:40:03.333	117EU105A106A4K	7STRP	-0.006,0.0,0,0,0	Slew =,0.76	4R7	4	21	3,747,266:79:0	
2897	96	354	13:40:15.333	117EU105A106A4L	7STRP	0.00553,0.0,0,0,	Slew =,2.58	4R7	4	21	3,747,267:06:0	
2898	**96**	**354**	**13:40:21.599**	**E4INCOOLCV02-**	**NIMPBK**	**301FR**	**NIMS IO ECLIPSE OBSERVATION (ING**	**4R7**	**4**	**21**	**: :**	
2899	96	354	13:40:22.000	117EU105A106A4M	7STRP	-0.006,0.0,0,0,0	Slew =,0.76	4R7	4	21	3,747,267:16:0	
2900	96	354	13:40:34.000	117EU105A106A4N	7STRP	0.00553,0.0,0,0,	Slew =,2.58	4R7	4	21	3,747,267:34:0	
2901	**96**	**354**	**13:40:34.266**	**E4INCOOLCV02-**	**DESELC**	**300FR**	**NIMS IO ECLIPSE OBSERVATION (ING**	**4R7**	**4**	**21**	**: :**	
2902	96	354	13:40:40.666	117EU105A106A4O	7STRP	-0.006,0.0,0,0,0	Slew =,0.76	4R7	4	21	3,747,267:44:0	
2903	96	354	13:40:52.666	117EU105A106A4P	7STRP	0.00553,0.0,0,0,	Slew =,2.58	4R7	4	21	3,747,267:62:0	
2904	**96**	**354**	**13:40:58.932**	**E4INCOOLCV02-**	**NIMPBK**	**301DS**	**NIMS IO ECLIPSE OBSERVATION (ING**	**4R7**	**4**	**21**	**: :**	
2905	96	354	13:40:59.333	117EU105A106A4Q	7STRP	-0.006,0.0,0,0,0	Slew =,0.76	4R7	4	21	3,747,267:72:0	
2906	96	354	13:41:11.333	117EU105A106A4R	7STRP	0.00553,0.0,0,0,	Slew =,2.58	4R7	4	21	3,747,267:90:0	
2907	**96**	**354**	**13:41:11.599**	**E4INCOOLCV02-**	**DESELC**	**300DS**	**NIMS IO ECLIPSE OBSERVATION (ING**	**4R7**	**4**	**21**	**: :**	
2908	96	354	13:41:18.000	117EU105A106A4S	7STRP	-0.006,0.0,0,0,0	Slew =,0.76	4R7	4	21	3,747,268:09:0	
2909	96	354	13:41:29.333	175EU6A	6TMREC	**NRC**	NO RECORD Record Mode Change	4R7	4	21	3,747,268:26:0	
2910	96	354	13:41:29.333	175EU422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R7	4	21	3,747,268:26:0	
2911	96	354	13:41:30.000	117EU105A106A4T	7STRP	0.00553,0.0,0,0,	Slew =,2.58	4R7	4	21	3,747,268:27:0	
2912	96	354	13:41:36.666	117EU105A106A4U	7STRP	-0.006,0.0,0,0,0	Slew =,0.76	4R7	4	21	3,747,268:37:0	
2913	96	354	13:41:48.666	117EU105A106A4V	7STRP	0.00553,0.0,0,0,	Slew =,2.58	4R7	4	21	3,747,268:55:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2914	96	354	13:41:55.333	117EU105A106A4W	7STRP	-0.006,0.0,0,0,0	Slew =,0.76	4R7	4	21	3,747,268:65:0	
2915	96	354	13:42:07.333	117EU105A106A4X	7STRP	0.00553,0.0,0,0,	Slew =,2.58	4R7	4	21	3,747,268:83:0	
2916	96	354	13:42:14.000	117EU105A106A4Y	7STRP	-0.006,0.0,0,0,0	Slew =,0.76	4R7	4	21	3,747,269:02:0	
2917	96	354	13:42:26.000	117EU11A	**CSMOS**	GE	***** GROUP END CSMOS	4R7	4	21	3,747,269:20:0	
2918	96	354	13:46:05.333	175FY422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R7	4	21	3,747,272:76:0	
2919	96	354	13:46:14.666	175FY176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	4R7	4	21	3,747,272:90:0	
2920	96	354	13:49:14.666	175FY6A	6TMREC	**NRC**	NO RECORD Record Mode Change	4R7	4	21	3,747,275:87:0	
2921	96	354	13:49:14.666	175FY422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R7	4	21	3,747,275:87:0	
2922	**96**	**354**	**13:51:22.732**	**E4INCOOLCV02-**		**-----STOP-------**		**4R7**	**4**	**21**	**: :**	
2923	**96**	**354**	**13:51:56.066**	**E4INTHRMAL01-**		**-----START------**		**4R7**	**4**	**21**	**: :**	
2924	96	354	13:52:18.000	165EV4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R7	4	21	3,747,278:89:0	
2925	96	354	13:52:18.666	165EV4B	7SCAN	NORM,7.425,4.376	Check S/P Position	4R7	4	21	3,747,278:90:0	
2926	**96**	**354**	**13:55:16.666**	**127EV4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**4R3**	**4**	**0**	**3,747,281:84:0**	
2927	96	354	13:55:16.666	127EV	NIMSTAB	GS	%%%%% GROUP START TAB	4R3	4	0	3,747,281:84:0	
2928	**96**	**354**	**13:55:17.333**	**127EV4B**	**37ETB**	**07,C7,03,80,00,0**	**Loads wavelength edit table**	**4R3**	**4**	**0**	**3,747,281:85:0**	
2929	96	354	13:55:25.333	127EV11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	3,747,282:06:0	
2930	96	354	13:56:09.333	175EV422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	3,747,282:72:0	
2931	96	354	13:56:12.666	117EV	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	3,747,282:77:0	
2932	96	354	13:56:18.666	175EV176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	4R3	4	0	3,747,282:86:0	
2933	96	354	13:56:22.000	117EV105A106A4A	7STRP	-0.0034,0.0,0,0,	Slew =,0.06	4R3	4	0	3,747,283:00:0	
2934	96	354	13:57:20.000	117EV11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	3,747,283:87:0	
2935	**96**	**354**	**13:57:26.732**	**E4INTHRMAL01-**		**-----STOP-------**		**4R3**	**4**	**0**	**: :**	
2936	96	354	13:57:31.333	175EV422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,747,284:13:0	
2937	96	354	13:57:31.333	175EV6A	6TMREC	**NRC**	NO RECORD Record Mode Change	4R3	4	0	3,747,284:13:0	
2938	96	354	14:02:24.666	165GT4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,747,288:89:0	
2939	96	354	14:02:25.333	165GT4B	7SCAN	NORM,53.842,21.2	Check S/P Position	4R3	4	0	3,747,288:90:0	
2940	96	354	14:06:19.333	117GT	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	3,747,292:77:0	
2941	96	354	14:06:28.666	176GT6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	4R3	4	0	3,747,293:00:0	
2942	96	354	14:06:28.666	117GT105A106A4A	7STRP	0.0,0.003,0,0,0,	Slew =,0.21	4R3	4	0	3,747,293:00:0	
2943	96	354	14:06:50.666	117GT11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	3,747,293:33:0	
2944	96	354	14:07:02.000	176GT6B	6TMREC	**NRC**	NO RECORD Record Mode Change	4R3	4	0	3,747,293:50:0	
2945	96	354	14:20:36.666	165GU4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,747,306:89:0	
2946	96	354	14:20:37.333	165GU4B	7SCAN	NORM,324.285,-14	Check S/P Position	4R3	4	0	3,747,306:90:0	
2947	96	354	14:24:31.333	117GU	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	3,747,310:77:0	
2948	96	354	14:24:40.666	117GU105A106A4A	7STRP	0.0,0.003,0,0,0,	Slew =,0.29	4R3	4	0	3,747,311:00:0	
2949	96	354	14:24:40.666	176GU6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	4R3	4	0	3,747,311:00:0	
2950	96	354	14:25:02.666	117GU11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	3,747,311:33:0	
2951	96	354	14:25:14.000	176GU6B	6TMREC	**NRC**	NO RECORD Record Mode Change	4R3	4	0	3,747,311:50:0	
2952	**96**	**354**	**14:31:49.399**	**E4INVOLCAN01-**		**-----START------**		**4R3**	**4**	**0**	**: :**	
2953	96	354	14:32:44.666	165EW4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,747,318:89:0	
2954	96	354	14:32:45.333	165EW4B	7SCAN	NORM,10.736,5.88	Check S/P Position	4R3	4	0	3,747,318:90:0	
2955	96	354	14:34:42.666	125FA11A	NIMSINIT	GE	##### GROUP END INIT	4R3	4	0	3,747,320:84:0	
2956	96	354	14:34:42.666	125FA	NIMSINIT	GS	##### GROUP START INIT	4R3	4	0	3,747,320:84:0	
2957	**96**	**354**	**14:34:42.666**	**125FA4A**	**37IST**	**0,2,0,OFF,0,1,0**	**Gain State 2**	**2R3**	**4**	**0**	**3,747,320:84:0**	
2958	**96**	**354**	**14:35:43.333**	**127EW4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**3,747,321:84:0**	
2959	96	354	14:35:43.333	127EW	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	3,747,321:84:0	
2960	**96**	**354**	**14:35:44.000**	**127EW4B**	**37ETB**	**07,C7,02,01,80,0**	**Loads wavelength edit table**	**2R3**	**4**	**0**	**3,747,321:85:0**	
2961	96	354	14:35:52.000	127EW11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	3,747,322:06:0	
2962	96	354	14:36:36.000	175EW422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	3,747,322:72:0	
2963	96	354	14:36:39.333	117EW	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	3,747,322:77:0	
2964	96	354	14:36:45.333	175EW176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R3	4	0	3,747,322:86:0	
2965	96	354	14:36:48.666	117EW105A106A4A	7STRP	-0.001,0.0,0,0,0	Slew =,0.04	2R3	4	0	3,747,323:00:0	
2966	96	354	14:37:15.333	117EW11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	3,747,323:40:0	
2967	96	354	14:37:26.666	175EW422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,747,323:57:0	
2968	96	354	14:37:26.666	175EW6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	3,747,323:57:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2969	**96**	**354**	**14:37:53.399**	**E4INVOLCAN01-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**	
2970	96	354	14:59:03.333	411JC6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	3,747,345:00:0	
2971	96	354	14:59:11.400		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC *6026.77 +/-	2R3	4	0	3,747,345:12:1	
2972	96	354	14:59:12.866		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *6026.65 +/-	2R3	4	0	3,747,345:14:3	
2973	96	354	14:59:12.866		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC 6026.65 +/-	2R3	4	0	3,747,345:14:3	
2974	96	354	14:59:13.333	411JC6B	6TMREC	BDT	7.68 KBPS BUFFER DUMP TO TAPE Record Mode	2R3	4	0	3,747,345:15:0	
2975	96	354	15:01:14.666	411JC6C	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	3,747,347:15:0	
2976	96	354	15:01:17.333	175TH176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	2R3	4	0	3,747,347:19:0	
2977	96	354	15:01:18.000	175TH422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	3,747,347:20:0	
2978	96	354	15:01:24.666	175TH422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,747,347:30:0	
2979	96	354	15:01:24.666		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *5995.76 +/-	2R3	4	0	3,747,347:30:0	
2980	**96**	**354**	**15:07:12.732**	**E4INVOLCAN02-**		**-----START------**		**2R3**	**4**	**0**	**: :**	
2981	96	354	15:08:08.000	165EX4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,747,353:89:0	
2982	96	354	15:08:08.666	165EX4B	7SCAN	NORM,13.349,7.06	Check S/P Position	2R3	4	0	3,747,353:90:0	
2983	96	354	15:10:06.000	125FC	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	3,747,355:84:0	
2984	96	354	15:10:06.000	125FC11A	NIMSINIT	GE	##### GROUP END INIT	2R3	4	0	3,747,355:84:0	
2985	**96**	**354**	**15:10:06.000**	**125FC4A**	**37IST**	**0,2,0,OFF,0,1,1**	**Gain State 4**	**4R3**	**4**	**0**	**3,747,355:84:0**	
2986	96	354	15:11:06.666	127EX	NIMSTAB	GS	%%%%% GROUP START TAB	4R3	4	0	3,747,356:84:0	
2987	**96**	**354**	**15:11:06.666**	**127EX4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**4R3**	**4**	**0**	**3,747,356:84:0**	
2988	**96**	**354**	**15:11:07.333**	**127EX4B**	**37ETB**	**07,C7,03,80,00,0**	**Loads wavelength edit table**	**4R3**	**4**	**0**	**3,747,356:85:0**	
2989	96	354	15:11:15.333	127EX11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	3,747,357:06:0	
2990	96	354	15:11:59.333	175EX422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	3,747,357:72:0	
2991	96	354	15:12:02.666	117EX	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	3,747,357:77:0	
2992	96	354	15:12:07.400		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC *5997.10 +/-	4R3	4	0	3,747,357:84:1	
2993	96	354	15:12:08.666	175EX176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	4R3	4	0	3,747,357:86:0	
2994	96	354	15:12:08.866		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *5996.98 +/-	4R3	4	0	3,747,357:86:3	
2995	96	354	15:12:08.866		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC 5996.98 +/-	4R3	4	0	3,747,357:86:3	
2996	96	354	15:12:12.000	117EX105A106A4A	7STRP	-0.0015,0.0,0,0,	Slew =,0.04	4R3	4	0	3,747,358:00:0	
2997	96	354	15:12:51.333	117EX11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	3,747,358:59:0	
2998	96	354	15:13:02.666		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *5984.37 +/-	4R3	4	0	3,747,358:76:0	
2999	96	354	15:13:02.666	175EX6A	6TMREC	**NRC**	NO RECORD Record Mode Change	4R3	4	0	3,747,358:76:0	
3000	96	354	15:13:02.666	175EX422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,747,358:76:0	
3001	**96**	**354**	**15:13:16.732**	**E4INVOLCAN02-**		**-----STOP-------**		**4R3**	**4**	**0**	**: :**	
3002	96	354	15:30:22.666	165JB4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,747,375:89:0	
3003	96	354	15:30:23.333	165JB4B	7SCAN	NORM,15.042,7.69	Check S/P Position	4R3	4	0	3,747,375:90:0	
3004	**96**	**354**	**15:30:28.000**	**E4NNRELOAD07-**		**-----START------**		**4R3**	**4**	**0**	**: :**	
3005	**96**	**354**	**15:31:28.666**	**20EH6A**	**6CKSUM**	**NIMS**	**NIMS,1000,14BC**	**4R3**	**4**	**0**	**3,747,377:06:0**	
3006	**96**	**354**	**15:32:29.333**	**20EH5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**4R3**	**4**	**0**	**3,747,378:06:0**	
3007	**96**	**354**	**15:33:30.000**	**20EH5B**	**37MRL**		**Memory Realocate (software operates from R**	**4R3**	**4**	**0**	**3,747,379:06:0**	
3008	96	354	15:34:25.333	118JB	**SMOS**	GS		4R3	4	0	3,747,379:89:0	
3009	96	354	15:34:25.333	165JB4C	7VECT		Inert vect update UTC	4R3	4	0	3,747,379:89:0	
3010	96	354	15:34:26.000	165JB4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	4R3	4	0	3,747,379:90:0	
3011	96	354	15:34:30.666	175IY422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	4R3	4	0	3,747,380:06:0	
3012	**96**	**354**	**15:34:31.333**	**20EH6B**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**4R3**	**4**	**0**	**3,747,380:07:0**	
3013	96	354	15:34:35.333	118JB110A111A4A	7STRP	-0.004,-0.004,46	Slew =,2.01	4R3	4	0	3,747,380:13:0	
3014	96	354	15:34:38.733		DMS:	: *RUNUP	R115, TRACK *4, *REV, TIC *5985.70 +/-	4R3	4	0	3,747,380:18:1	
3015	96	354	15:34:42.666	175IY176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	4R3	4	0	3,747,380:24:0	
3016	96	354	15:34:42.733		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC 5979.43 +/-	4R3	4	0	3,747,380:24:1	
3017	96	354	15:34:42.733		DMS:	**: *RECORD**	R115, TRACK 4, REV, TIC *5979.43 +/-	4R3	4	0	3,747,380:24:1	
3018	96	354	15:34:50.666	118JB11A	**SMOS**	GE		4R3	4	0	3,747,380:36:0	
3019	96	354	15:34:58.000	175IY422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,747,380:47:0	
3020	96	354	15:34:58.000		DMS:	**: *RUNDOWN**	R115, TRACK 4, REV, TIC *5925.76 +/-	4R3	4	0	3,747,380:47:0	
3021	96	354	15:35:26.000	165GV4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,747,380:89:0	
3022	96	354	15:35:26.666	165GV4B	7SCAN	NORM,15.338,8.07	Check S/P Position	4R3	4	0	3,747,380:90:0	
3023	**96**	**354**	**15:35:31.333**	**20EH6C**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**4R3**	**4**	**0**	**3,747,381:06:0**	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
3024	96	354	15:36:18.666	117GV	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	3,747,381:77:0	
3025	96	354	15:36:28.000	176GV6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	4R3	4	0	3,747,382:00:0	
3026	96	354	15:36:28.000	117GV105A106A4A	7STRP	0.0023,0.0,0,0,0	Slew =,0.02	4R3	4	0	3,747,382:00:0	
3027	**96**	**354**	**15:36:32.000**	**20EH5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**3,747,382:06:0**	
3028	**96**	**354**	**15:37:32.666**	**20EH5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**3,747,383:06:0**	
3029	96	354	15:38:25.333	117GV105A106A4B	7STRP	-0.0052,0.001,0,	Slew =,3.01	260	4	0	3,747,383:85:0	
3030	96	354	15:38:31.333	117GV105A106A4C	7STRP	0.0023,0.0,0,0,0	Slew =,0.02	260	4	0	3,747,384:03:0	
3031	**96**	**354**	**15:38:33.333**	**20EH4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**3,747,384:06:0**	
3032	**96**	**354**	**15:39:34.000**	**20EH4B**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**3,747,385:06:0**	
3033	96	354	15:40:28.666	117GV105A106A4D	7STRP	-0.0052,0.001,0,	Slew =,3.01	2R3	4	0	3,747,385:88:0	
3034	96	354	15:40:34.666	117GV105A106A4E	7STRP	0.0023,0.0,0,0,0	Slew =,0.02	2R3	4	0	3,747,386:06:0	
3035	96	354	15:42:32.000	117GV105A106A4F	7STRP	-0.0052,0.001,0,	Slew =,3.01	2R3	4	0	3,747,388:00:0	
3036	96	354	15:42:38.000	117GV105A106A4G	7STRP	0.0023,0.0,0,0,0	Slew =,0.02	2R3	4	0	3,747,388:09:0	
3037	96	354	15:44:35.333	117GV105A106A4H	7STRP	-0.0052,0.001,0,	Slew =,3.01	2R3	4	0	3,747,390:03:0	
3038	96	354	15:44:41.333	117GV105A106A4I	7STRP	0.0023,0.0,0,0,0	Slew =,0.02	2R3	4	0	3,747,390:12:0	
3039	**96**	**354**	**15:45:38.000**	**E4NNRELOAD07-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**	
3040	96	354	15:46:38.666	117GV11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	3,747,392:06:0	
3041	96	354	15:46:38.666	176GV6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	3,747,392:06:0	
3042	96	354	15:46:48.733		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC *5926.24 +/-	2R3	4	0	3,747,392:21:1	
3043	96	354	15:46:50.200		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC *5926.12 +/-	2R3	4	0	3,747,392:23:3	
3044	96	354	15:46:50.666		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *5926.01 +/-	2R3	4	0	3,747,392:24:0	
3045	96	354	15:47:07.333		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *5922.11 +/-	2R3	4	0	3,747,392:49:0	
3046	96	354	15:48:18.666	488V6A	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	2R3	4	0	3,747,393:65:0	
3047	**96**	**354**	**15:53:43.399**	**E4INWARMCV03-**		**-----START------**		**2R3**	**4**	**0**	**: :**	
3048	**96**	**354**	**15:54:35.333**	**125EY4A**	**37IST**	**0,2,0,OFF,0,1,0**	**Gain State 2**	**2R3**	**4**	**0**	**3,747,399:84:0**	
3049	96	354	15:54:35.333	125EY	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	3,747,399:84:0	
3050	96	354	15:54:35.333	125EY11A	NIMSINIT	GE	##### GROUP END INIT	2R3	4	0	3,747,399:84:0	
3051	96	354	15:55:36.000	127EY	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	3,747,400:84:0	
3052	**96**	**354**	**15:55:36.000**	**127EY4A**	**37IOP**	**7,21**	**Fixed Map, Grating Start Position =21**	**2R7**	**4**	**21**	**3,747,400:84:0**	
3053	**96**	**354**	**15:55:36.666**	**127EY4B**	**37ETB**	**07,C7,19,55,5D,0**	**Loads wavelength edit table**	**2R7**	**4**	**21**	**3,747,400:85:0**	
3054	96	354	15:55:39.333	165EY4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R7	4	21	3,747,400:89:0	
3055	96	354	15:55:40.000	165EY4B	7SCAN	NORM,16.592,8.49	Check S/P Position	2R7	4	21	3,747,400:90:0	
3056	96	354	15:55:44.666	127EY11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R7	4	21	3,747,401:06:0	
3057	96	354	15:55:44.666	117EY	**CSMOS**	GS	***** GROUP START CSMOS	2R7	4	21	3,747,401:06:0	
3058	96	354	15:55:50.666	175EY422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R7	4	21	3,747,401:15:0	
3059	96	354	15:55:58.733		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC *5923.44 +/-	2R7	4	21	3,747,401:27:1	
3060	96	354	15:56:00.000	175EY176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R7	4	21	3,747,401:29:0	
3061	96	354	15:56:00.200		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC 5923.32 +/-	2R7	4	21	3,747,401:29:3	
3062	96	354	15:56:00.200		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *5923.32 +/-	2R7	4	21	3,747,401:29:3	
3063	96	354	15:56:00.666	117EY105A106A4A	7STRP	-0.005,0.0,0,0,0	Slew =,0.76	2R7	4	21	3,747,401:30:0	
3064	96	354	15:56:12.000	117EY105A106A4B	7STRP	0.0046,0.0,0,0,0	Slew =,2.58	2R7	4	21	3,747,401:47:0	
3065	**96**	**354**	**15:56:17.594**	**E4INWARMCV03-**	**NIMPBK**	**301FS**	**NIMS IO ECLIPSE OBSERVATION (EGR**	**2R7**	**4**	**21**	**: :**	
3066	96	354	15:56:18.000	117EY105A106A4C	7STRP	-0.005,0.0,0,0,0	Slew =,0.76	2R7	4	21	3,747,401:56:0	
3067	96	354	15:56:29.333	117EY105A106A4D	7STRP	0.0046,0.0,0,0,0	Slew =,2.58	2R7	4	21	3,747,401:73:0	
3068	**96**	**354**	**15:56:29.594**	**E4INWARMCV03-**	**DESELC**	**300FS**	**DESELECT NIMS DATA**	**2R7**	**4**	**21**	**: :**	
3069	96	354	15:56:35.333	117EY105A106A4E	7STRP	-0.005,0.0,0,0,0	Slew =,0.76	2R7	4	21	3,747,401:82:0	
3070	96	354	15:56:46.666	117EY105A106A4F	7STRP	0.0046,0.0,0,0,0	Slew =,2.58	2R7	4	21	3,747,402:08:0	
3071	96	354	15:56:52.666	117EY105A106A4G	7STRP	-0.005,0.0,0,0,0	Slew =,0.76	2R7	4	21	3,747,402:17:0	
3072	96	354	15:57:04.000	117EY105A106A4H	7STRP	0.0046,0.0,0,0,0	Slew =,2.58	2R7	4	21	3,747,402:34:0	
3073	96	354	15:57:10.000	117EY105A106A4I	7STRP	-0.005,0.0,0,0,0	Slew =,0.76	2R7	4	21	3,747,402:43:0	
3074	96	354	15:57:21.333	117EY105A106A4J	7STRP	0.0046,0.0,0,0,0	Slew =,2.58	2R7	4	21	3,747,402:60:0	
3075	**96**	**354**	**15:57:26.927**	**E4INWARMCV03-**	**NIMPBK**	**301LG**	**NIMS IO ECLIPSE OBSERVATION (EGR**	**2R7**	**4**	**21**	**: :**	
3076	96	354	15:57:27.333	117EY105A106A4K	7STRP	-0.005,0.0,0,0,0	Slew =,0.76	2R7	4	21	3,747,402:69:0	
3077	96	354	15:57:38.666	117EY105A106A4L	7STRP	0.0046,0.0,0,0,0	Slew =,2.58	2R7	4	21	3,747,402:86:0	
3078	**96**	**354**	**15:57:38.927**	**E4INWARMCV03-**	**DESELC**	**300LG**	**NIMS IO ECLIPSE OBSERVATION (EGR**	**2R7**	**4**	**21**	**: :**	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
3079	96	354	15:57:44.666	117EY105A106A4M	7STRP	-0.005,0.0,0,0,0	Slew =,0.76	2R7	4	21	3,747,403:04:0	
3080	96	354	15:57:56.000	117EY105A106A4N	7STRP	0.0046,0.0,0,0,0	Slew =,2.58	2R7	4	21	3,747,403:21:0	
3081	96	354	15:58:02.000	117EY105A106A4O	7STRP	-0.005,0.0,0,0,0	Slew =,0.76	2R7	4	21	3,747,403:30:0	
3082	96	354	15:58:13.333	117EY105A106A4P	7STRP	0.0046,0.0,0,0,0	Slew =,2.58	2R7	4	21	3,747,403:47:0	
3083	96	354	15:58:19.333	117EY105A106A4Q	7STRP	-0.005,0.0,0,0,0	Slew =,0.76	2R7	4	21	3,747,403:56:0	
3084	96	354	15:58:30.666	117EY105A106A4R	7STRP	0.0046,0.0,0,0,0	Slew =,2.58	2R7	4	21	3,747,403:73:0	
3085	**96**	**354**	**15:58:36.261**	**E4INWARMCV03-**	**NIMPBK**	**301LH**	**NIMS IO ECLIPSE OBSERVATION (EGR**	**2R7**	**4**	**21**	**: :**	
3086	96	354	15:58:36.666	117EY105A106A4S	7STRP	-0.005,0.0,0,0,0	Slew =,0.76	2R7	4	21	3,747,403:82:0	
3087	96	354	15:58:48.000	117EY105A106A4T	7STRP	0.0046,0.0,0,0,0	Slew =,2.58	2R7	4	21	3,747,404:08:0	
3088	**96**	**354**	**15:58:48.261**	**E4INWARMCV03-**	**DESELC**	**300LH**	**NIMS IO ECLIPSE OBSERVATION (EGR**	**2R7**	**4**	**21**	**: :**	
3089	96	354	15:58:54.000	117EY105A106A4U	7STRP	-0.005,0.0,0,0,0	Slew =,0.76	2R7	4	21	3,747,404:17:0	
3090	96	354	15:59:05.333	117EY105A106A4V	7STRP	0.0046,0.0,0,0,0	Slew =,2.58	2R7	4	21	3,747,404:34:0	
3091	96	354	15:59:11.333	117EY105A106A4W	7STRP	-0.005,0.0,0,0,0	Slew =,0.76	2R7	4	21	3,747,404:43:0	
3092	96	354	15:59:22.666	117EY105A106A4X	7STRP	0.0046,0.0,0,0,0	Slew =,2.58	2R7	4	21	3,747,404:60:0	
3093	96	354	15:59:28.666	117EY105A106A4Y	7STRP	-0.005,0.0,0,0,0	Slew =,0.76	2R7	4	21	3,747,404:69:0	
3094	96	354	15:59:40.000	117EY105A106A4Z	7STRP	0.0046,0.0,0,0,0	Slew =,2.58	2R7	4	21	3,747,404:86:0	
3095	**96**	**354**	**15:59:45.593**	**E4INWARMCV03-**	**NIMPBK**	**301LI**	**NIMS IO ECLIPSE OBSERVATION (EGR**	**2R7**	**4**	**21**	**: :**	
3096	96	354	15:59:46.000	117EY105A106A4AA	7STRP	-0.005,0.0,0,0,0	Slew =,0.76	2R7	4	21	3,747,405:04:0	
3097	96	354	15:59:57.333	117EY105A106A4AB	7STRP	0.0046,0.0,0,0,0	Slew =,2.58	2R7	4	21	3,747,405:21:0	
3098	**96**	**354**	**15:59:57.593**	**E4INWARMCV03-**	**DESELC**	**300LI**	**NIMS IO ECLIPSE OBSERVATION (EGR**	**2R7**	**4**	**21**	**: :**	
3099	96	354	16:00:03.333	117EY105A106A4AC	7STRP	-0.005,0.0,0,0,0	Slew =,0.76	2R7	4	21	3,747,405:30:0	
3100	96	354	16:00:14.666	117EY105A106A4AD	7STRP	0.0046,0.0,0,0,0	Slew =,2.58	2R7	4	21	3,747,405:47:0	
3101	96	354	16:00:20.666	117EY105A106A4AE	7STRP	-0.005,0.0,0,0,0	Slew =,0.76	2R7	4	21	3,747,405:56:0	
3102	96	354	16:00:32.000	117EY105A106A4AF	7STRP	0.0046,0.0,0,0,0	Slew =,2.58	2R7	4	21	3,747,405:73:0	
3103	96	354	16:00:38.000	117EY105A106A4AG	7STRP	-0.005,0.0,0,0,0	Slew =,0.76	2R7	4	21	3,747,405:82:0	
3104	96	354	16:00:49.333	117EY105A106A4AH	7STRP	0.0046,0.0,0,0,0	Slew =,2.58	2R7	4	21	3,747,406:08:0	
3105	**96**	**354**	**16:00:54.926**	**E4INWARMCV03-**	**NIMPBK**	**301LF**	**NIMS IO ECLIPSE OBSERVATION (EGR**	**2R7**	**4**	**21**	**: :**	
3106	96	354	16:00:55.333	117EY105A106A4AI	7STRP	-0.005,0.0,0,0,0	Slew =,0.76	2R7	4	21	3,747,406:17:0	
3107	96	354	16:01:06.666	117EY105A106A4AJ	7STRP	0.0046,0.0,0,0,0	Slew =,2.58	2R7	4	21	3,747,406:34:0	
3108	**96**	**354**	**16:01:06.926**	**E4INWARMCV03-**	**DESELC**	**300LF**	**NIMS IO ECLIPSE OBSERVATION (EGR**	**2R7**	**4**	**21**	**: :**	
3109	96	354	16:01:12.666	117EY105A106A4AK	7STRP	-0.005,0.0,0,0,0	Slew =,0.76	2R7	4	21	3,747,406:43:0	
3110	96	354	16:01:24.000	117EY105A106A4AL	7STRP	0.0046,0.0,0,0,0	Slew =,2.58	2R7	4	21	3,747,406:60:0	
3111	96	354	16:01:30.000	117EY105A106A4AM	7STRP	-0.005,0.0,0,0,0	Slew =,0.76	2R7	4	21	3,747,406:69:0	
3112	96	354	16:01:41.333	117EY105A106A4AN	7STRP	0.0046,0.0,0,0,0	Slew =,2.58	2R7	4	21	3,747,406:86:0	
3113	96	354	16:01:47.333	117EY105A106A4AO	7STRP	-0.005,0.0,0,0,0	Slew =,0.76	2R7	4	21	3,747,407:04:0	
3114	96	354	16:01:58.666	117EY105A106A4AP	7STRP	0.0046,0.0,0,0,0	Slew =,2.58	2R7	4	21	3,747,407:21:0	
3115	**96**	**354**	**16:02:04.260**	**E4INWARMCV03-**	**NIMPBK**	**301LJ**	**NIMS IO ECLIPSE OBSERVATION (EGR**	**2R7**	**4**	**21**	**: :**	
3116	96	354	16:02:04.666	117EY105A106A4AQ	7STRP	-0.005,0.0,0,0,0	Slew =,0.76	2R7	4	21	3,747,407:30:0	
3117	96	354	16:02:16.000	117EY105A106A4AR	7STRP	0.0046,0.0,0,0,0	Slew =,2.58	2R7	4	21	3,747,407:47:0	
3118	**96**	**354**	**16:02:16.260**	**E4INWARMCV03-**	**DESELC**	**300LJ**	**NIMS IO ECLIPSE OBSERVATION (EGR**	**2R7**	**4**	**21**	**: :**	
3119	96	354	16:02:22.000	117EY105A106A4AS	7STRP	-0.005,0.0,0,0,0	Slew =,0.76	2R7	4	21	3,747,407:56:0	
3120	96	354	16:02:33.333	117EY105A106A4AT	7STRP	0.0046,0.0,0,0,0	Slew =,2.58	2R7	4	21	3,747,407:73:0	
3121	96	354	16:02:39.333	117EY105A106A4AU	7STRP	-0.005,0.0,0,0,0	Slew =,0.76	2R7	4	21	3,747,407:82:0	
3122	96	354	16:02:50.666	117EY105A106A4AV	7STRP	0.0046,0.0,0,0,0	Slew =,2.58	2R7	4	21	3,747,408:08:0	
3123	96	354	16:02:56.666	117EY105A106A4AW	7STRP	-0.005,0.0,0,0,0	Slew =,0.76	2R7	4	21	3,747,408:17:0	
3124	96	354	16:03:08.000	117EY105A106A4AX	7STRP	0.0046,0.0,0,0,0	Slew =,2.58	2R7	4	21	3,747,408:34:0	
3125	**96**	**354**	**16:03:13.593**	**E4INWARMCV03-**	**NIMPBK**	**301LK**	**NIMS IO ECLIPSE OBSERVATION (EGR**	**2R7**	**4**	**21**	**: :**	
3126	96	354	16:03:14.000	117EY105A106A4AY	7STRP	-0.005,0.0,0,0,0	Slew =,0.76	2R7	4	21	3,747,408:43:0	
3127	96	354	16:03:25.333	117EY105A106A4AZ	7STRP	0.0046,0.0,0,0,0	Slew =,2.58	2R7	4	21	3,747,408:60:0	
3128	**96**	**354**	**16:03:25.593**	**E4INWARMCV03-**	**DESELC**	**300LK**	**NIMS IO ECLIPSE OBSERVATION (EGR**	**2R7**	**4**	**21**	**: :**	
3129	96	354	16:03:31.333	117EY105A106A4BA	7STRP	-0.005,0.0,0,0,0	Slew =,0.76	2R7	4	21	3,747,408:69:0	
3130	96	354	16:03:42.666	117EY105A106A4BB	7STRP	0.0046,0.0,0,0,0	Slew =,2.58	2R7	4	21	3,747,408:86:0	
3131	96	354	16:03:48.666	117EY105A106A4BC	7STRP	-0.005,0.0,0,0,0	Slew =,0.76	2R7	4	21	3,747,409:04:0	
3132	96	354	16:04:00.000	117EY105A106A4BD	7STRP	0.0046,0.0,0,0,0	Slew =,2.58	2R7	4	21	3,747,409:21:0	
3133	**96**	**354**	**16:04:05.593**	**E4INWARMCV03-**	**NIMPBK**	**301LL**	**NIMS IO ECLIPSE OBSERVATION (EGR**	**2R7**	**4**	**21**	**: :**	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
3134	96	354	16:04:06.000	117EY105A106A4BE	7STRP	-0.005,0.0,0,0,0	Slew =,0.76	2R7	4	21	3,747,409:30:0	
3135	96	354	16:04:17.333	117EY105A106A4BF	7STRP	0.0046,0.0,0,0,0	Slew =,2.58	2R7	4	21	3,747,409:47:0	
3136	**96**	**354**	**16:04:17.593**	**E4INWARMCV03-**	**DESELC**	**300LL**	**NIMS IO ECLIPSE OBSERVATION (EGR**	**2R7**	**4**	**21**	**: :**	
3137	96	354	16:04:23.333	117EY105A106A4BG	7STRP	-0.005,0.0,0,0,0	Slew =,0.76	2R7	4	21	3,747,409:56:0	
3138	96	354	16:04:30.000	175EY422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R7	4	21	3,747,409:66:0	
3139	96	354	16:04:30.000		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *5803.84 +/-	2R7	4	21	3,747,409:66:0	
3140	96	354	16:04:30.000	175EY6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R7	4	21	3,747,409:66:0	
3141	96	354	16:04:34.666	117EY11A	**CSMOS**	GE	***** GROUP END CSMOS	2R7	4	21	3,747,409:73:0	
3142	**96**	**354**	**16:08:53.399**	**E4INWARMCV03-**		**-----STOP-------**		**2R7**	**4**	**21**	**: :**	
3143	**96**	**354**	**16:09:54.066**	**E4INRTIMON02-**		**-----START------**		**2R7**	**4**	**21**	**: :**	
3144	96	354	16:10:49.333	165FS4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R7	4	21	3,747,415:89:0	
3145	96	354	16:10:50.000	165FS4B	7SCAN	NORM,18.174,9.36	Check S/P Position	2R7	4	21	3,747,415:90:0	
3146	96	354	16:12:47.333	125FS	NIMSINIT	GS	##### GROUP START INIT	2R7	4	21	3,747,417:84:0	
3147	96	354	16:12:47.333	125FS11A	NIMSINIT	GE	##### GROUP END INIT	2R7	4	21	3,747,417:84:0	
3148	**96**	**354**	**16:12:47.333**	**125FS4A**	**37MB**	**1C,07,0,0,0,0**	**Selects mirror (spatial) edit table**	**2R7**	**4**	**21**	**3,747,417:84:0**	
3149	96	354	16:13:48.000	127FS	NIMSTAB	GS	%%%%% GROUP START TAB	2R7	4	21	3,747,418:84:0	
3150	**96**	**354**	**16:13:48.000**	**127FS4A**	**37IOP**	**7,21**	**Fixed Map, Grating Start Position =21**	**2R7**	**4**	**21**	**3,747,418:84:0**	
3151	**96**	**354**	**16:13:48.666**	**127FS4B**	**37ETB**	**07,C7,19,2A,95,0**	**Loads wavelength edit table**	**2R7**	**4**	**21**	**3,747,418:85:0**	
3152	96	354	16:13:56.666	127FS11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R7	4	21	3,747,419:06:0	
3153	**96**	**354**	**16:14:12.666**	**432DC6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**	**NIMS R/T SELECT**	**2R7**	**4**	**21**	**3,747,419:30:0**	
3154	96	354	16:14:44.000	117FS	**CSMOS**	GS	***** GROUP START CSMOS	2R7	4	21	3,747,419:77:0	
3155	96	354	16:14:53.333	117FS105A106A4A	7STRP	0.004,0.0,0,0,0,	Slew =,0.76	2R7	4	21	3,747,420:00:0	
3156	96	354	16:15:02.666	117FS11A	**CSMOS**	GE	***** GROUP END CSMOS	2R7	4	21	3,747,420:14:0	
3157	**96**	**354**	**16:16:12.666**	**432DD6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**2R7**	**4**	**21**	**3,747,421:28:0**	
3158	96	354	16:17:50.666	125FT	NIMSINIT	GS	##### GROUP START INIT	2R7	4	21	3,747,422:84:0	
3159	**96**	**354**	**16:17:50.666**	**125FT4A**	**37MB**	**0,0,0,0,0,0**	**Selects mirror (spatial) edit table**	**2R7**	**4**	**21**	**3,747,422:84:0**	
3160	96	354	16:17:50.666	125FT11A	NIMSINIT	GE	##### GROUP END INIT	2R7	4	21	3,747,422:84:0	
3161	**96**	**354**	**16:17:59.399**	**E4INRTIMON02-**		**-----STOP-------**		**2R7**	**4**	**21**	**: :**	
3162	**96**	**354**	**16:19:00.066**	**E4INWARMCV04-**		**-----START------**		**2R7**	**4**	**21**	**: :**	
3163	96	354	16:19:08.000	165EZ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R7	4	21	3,747,424:18:0	
3164	96	354	16:19:08.666	165EZ4B	7SCAN	NORM,18.517,9.32	Check S/P Position	2R7	4	21	3,747,424:19:0	
3165	**96**	**354**	**16:20:52.666**	**127EZ4A**	**37IOP**	**7,21**	**Fixed Map, Grating Start Position =21**	**2R7**	**4**	**21**	**3,747,425:84:0**	
3166	96	354	16:20:52.666	127EZ	NIMSTAB	GS	%%%%% GROUP START TAB	2R7	4	21	3,747,425:84:0	
3167	**96**	**354**	**16:20:53.333**	**127EZ4B**	**37ETB**	**07,C7,19,55,5D,0**	**Loads wavelength edit table**	**2R7**	**4**	**21**	**3,747,425:85:0**	
3168	96	354	16:21:01.333	127EZ11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R7	4	21	3,747,426:06:0	
3169	96	354	16:21:01.333	117EZ	**CSMOS**	GS	***** GROUP START CSMOS	2R7	4	21	3,747,426:06:0	
3170	96	354	16:21:34.000	175EZ422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R7	4	21	3,747,426:55:0	
3171	96	354	16:21:42.066		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC *5805.17 +/-	2R7	4	21	3,747,426:67:1	
3172	96	354	16:21:43.333	175EZ176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R7	4	21	3,747,426:69:0	
3173	96	354	16:21:43.533		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC 5805.05 +/-	2R7	4	21	3,747,426:69:3	
3174	96	354	16:21:43.533		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *5805.05 +/-	2R7	4	21	3,747,426:69:3	
3175	96	354	16:21:44.000	117EZ105A106A4A	7STRP	-0.005,0.0,0,0,0	Slew =,0.76	2R7	4	21	3,747,426:70:0	
3176	**96**	**354**	**16:21:44.260**	**E4INWARMCV04-**	**NIMPBK**	**301FU**	**NNIMS IO ECLIPSE OBS. (POST-EGRE**	**2R7**	**4**	**21**	**: :**	
3177	**96**	**354**	**16:21:55.593**	**E4INWARMCV04-**	**DESELC**	**300FU**	**NNIMS IO ECLIPSE OBS. (POST-EGRE**	**2R7**	**4**	**21**	**: :**	
3178	96	354	16:21:56.000	117EZ105A106A4B	7STRP	0.0046,0.0,0,0,0	Slew =0,1.4	2R7	4	21	3,747,426:88:0	
3179	96	354	16:22:04.666	117EZ105A106A4C	7STRP	-0.005,0.0,0,0,0	Slew =,0.76	2R7	4	21	3,747,427:10:0	
3180	96	354	16:22:16.666	117EZ105A106A4D	7STRP	0.0046,0.0,0,0,0	Slew =0,1.4	2R7	4	21	3,747,427:28:0	
3181	**96**	**354**	**16:22:23.593**	**E4INWARMCV04-**	**NIMPBK**	**301LC**	**NNIMS IO ECLIPSE OBS. (POST-EGRE**	**2R7**	**4**	**21**	**: :**	
3182	96	354	16:22:25.333	117EZ105A106A4E	7STRP	-0.005,0.0,0,0,0	Slew =,0.76	2R7	4	21	3,747,427:41:0	
3183	**96**	**354**	**16:22:36.926**	**E4INWARMCV04-**	**DESELC**	**300LC**	**NNIMS IO ECLIPSE OBS. (POST-EGRE**	**2R7**	**4**	**21**	**: :**	
3184	96	354	16:22:37.333	117EZ105A106A4F	7STRP	0.0046,0.0,0,0,0	Slew =0,1.4	2R7	4	21	3,747,427:59:0	
3185	96	354	16:22:46.000	117EZ105A106A4G	7STRP	-0.005,0.0,0,0,0	Slew =,0.76	2R7	4	21	3,747,427:72:0	
3186	96	354	16:22:58.000	117EZ105A106A4H	7STRP	0.0046,0.0,0,0,0	Slew =0,1.4	2R7	4	21	3,747,427:90:0	
3187	**96**	**354**	**16:23:04.926**	**E4INWARMCV04-**	**NIMPBK**	**301LD**	**NNIMS IO ECLIPSE OBS. (POST-EGRE**	**2R7**	**4**	**21**	**: :**	
3188	96	354	16:23:06.666	117EZ105A106A4I	7STRP	-0.005,0.0,0,0,0	Slew =,0.76	2R7	4	21	3,747,428:12:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
3189	**96**	**354**	**16:23:18.260**	**E4INWARMCV04-**	**DESELC**	**300LD**	**NNIMS IO ECLIPSE OBS. (POST-EGRE**	**2R7**	**4**	**21**	**: :**	
3190	96	354	16:23:18.666	117EZ105A106A4J	7STRP	0.0046,0.0,0,0,0	Slew =0,1.4	2R7	4	21	3,747,428:30:0	
3191	96	354	16:23:27.333	117EZ105A106A4K	7STRP	-0.005,0.0,0,0,0	Slew =,0.76	2R7	4	21	3,747,428:43:0	
3192	96	354	16:23:39.333	117EZ105A106A4L	7STRP	0.0046,0.0,0,0,0	Slew =0,1.4	2R7	4	21	3,747,428:61:0	
3193	**96**	**354**	**16:23:46.260**	**E4INWARMCV04-**	**NIMPBK**	**301LE**	**NNIMS IO ECLIPSE OBS. (POST-EGRE**	**2R7**	**4**	**21**	**: :**	
3194	96	354	16:23:48.000	117EZ105A106A4M	7STRP	-0.005,0.0,0,0,0	Slew =,0.76	2R7	4	21	3,747,428:74:0	
3195	**96**	**354**	**16:23:58.926**	**E4INWARMCV04-**	**DESELC**	**300LE**	**NNIMS IO ECLIPSE OBS. (POST-EGRE**	**2R7**	**4**	**21**	**: :**	
3196	96	354	16:24:00.000	117EZ11A	**CSMOS**	GE	***** GROUP END CSMOS	2R7	4	21	3,747,429:01:0	
3197	96	354	16:24:10.000		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *5770.72 +/-	2R7	4	21	3,747,429:16:0	
3198	96	354	16:24:10.000	175EZ422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R7	4	21	3,747,429:16:0	
3199	96	354	16:24:10.000	175EZ6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R7	4	21	3,747,429:16:0	
3200	**96**	**354**	**16:24:16.732**	**E4INWARMCV04-**		**-----STOP-------**		**2R7**	**4**	**21**	**: :**	
3201	96	354	17:11:35.333	488V6B	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	2R7	4	21	3,747,476:07:0	
3202	96	354	17:38:32.000	488V6C	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	2R7	4	21	3,747,502:66:0	
3203	96	354	18:18:13.333	165GW4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R7	4	21	3,747,541:89:0	
3204	96	354	18:18:14.000	165GW4B	7SCAN	NORM,339.974998,	Check S/P Position	2R7	4	21	3,747,541:90:0	
3205	96	354	18:22:08.000	117GW	**CSMOS**	GS	***** GROUP START CSMOS	2R7	4	21	3,747,545:77:0	
3206	96	354	18:22:17.333	117GW105A106A4A	7STRP	0.0,0.003,0,0,0,	Slew =,0.23	2R7	4	21	3,747,546:00:0	
3207	96	354	18:22:17.333	176GW6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R7	4	21	3,747,546:00:0	
3208	96	354	18:22:39.333	117GW11A	**CSMOS**	GE	***** GROUP END CSMOS	2R7	4	21	3,747,546:33:0	
3209	96	354	18:22:50.666	176GW6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R7	4	21	3,747,546:50:0	
3210	96	354	18:23:00.733		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC *5772.06 +/-	2R7	4	21	3,747,546:65:1	
3211	96	354	18:23:02.200		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC *5771.94 +/-	2R7	4	21	3,747,546:67:3	
3212	96	354	18:23:02.666		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *5771.83 +/-	2R7	4	21	3,747,546:68:0	
3213	96	354	18:23:10.000		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *5770.11 +/-	2R7	4	21	3,747,546:79:0	
3214	96	354	19:39:38.000	488V6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	2R7	4	21	3,747,622:45:0	
3215	96	354	19:51:00.000	488V6E	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	2R7	4	21	3,747,633:67:0	
3216	**96**	**354**	**20:06:30.000**	**E4GNGLOBAL01-**		**-----START------**		**2R7**	**4**	**21**	**: :**	
3217	96	354	20:07:25.333	165FZ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R7	4	21	3,747,649:89:0	
3218	96	354	20:07:26.000	165FZ4B	7SCAN	NORM,347.348999,	Check S/P Position	2R7	4	21	3,747,649:90:0	
3219	**96**	**354**	**20:09:23.333**	**125FQ4A**	**37IST**	**0,2,0,OFF,0,1,2**	**Gain State 3**	**3R7**	**4**	**21**	**3,747,651:84:0**	
3220	96	354	20:09:23.333	125FQ	NIMSINIT	GS	##### GROUP START INIT	3R7	4	21	3,747,651:84:0	
3221	96	354	20:09:23.333	125FQ11A	NIMSINIT	GE	##### GROUP END INIT	3R7	4	21	3,747,651:84:0	
3222	96	354	20:10:24.000	127FQ	NIMSTAB	GS	%%%%% GROUP START TAB	3R7	4	21	3,747,652:84:0	
3223	**96**	**354**	**20:10:24.000**	**127FQ4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**3R3**	**4**	**0**	**3,747,652:84:0**	
3224	**96**	**354**	**20:10:24.666**	**127FQ4B**	**37ETB**	**04,C4,35,FF,FF**	**Loads wavelength edit table**	**3R3**	**4**	**0**	**3,747,652:85:0**	
3225	96	354	20:10:32.666	127FQ11A	NIMSTAB	GE	%%%%% GROUP END TAB	3R3	4	0	3,747,653:06:0	
3226	96	354	20:11:14.000	175FX422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	3R3	4	0	3,747,653:68:0	
3227	96	354	20:11:20.000	117FZ	**CSMOS**	GS	***** GROUP START CSMOS	3R3	4	0	3,747,653:77:0	
3228	96	354	20:11:22.066		DMS:	: *RUNUP	R28, TRACK *4, *REV, TIC *5771.45 +/-	3R3	4	0	3,747,653:80:1	
3229	96	354	20:11:26.000	175FX176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	3R3	4	0	3,747,653:86:0	
3230	96	354	20:11:26.066		DMS:	**: *RECORD**	R28, TRACK 4, REV, TIC *5769.95 +/-	3R3	4	0	3,747,653:86:1	
3231	96	354	20:11:26.066		DMS:	: *AT_SPD	R28, TRACK 4, REV, TIC 5769.95 +/-	3R3	4	0	3,747,653:86:1	
3232	96	354	20:11:29.333	117FZ105A106A4A	7STRP	0.002,0.0,0,0,0,	Slew =,0.01	3R3	4	0	3,747,654:00:0	
3233	**96**	**354**	**20:11:29.584**	**E4GNGLOBAL01-**	**NIMPBK**	**301FW**	**GANYMEDE GLOBAL MAP**	**3R3**	**4**	**0**	**: :**	
3234	**96**	**354**	**20:12:59.584**	**E4GNGLOBAL01-**	**DESELC**	**300FW**	**GANYMEDE GLOBAL MAP**	**3R3**	**4**	**0**	**: :**	
3235	96	354	20:15:21.333	117FZ11A	**CSMOS**	GE	***** GROUP END CSMOS	3R3	4	0	3,747,657:75:0	
3236	96	354	20:15:25.333	175FX422A6B	6DMSC	RDY,0	DMS Control Tape stop	3R3	4	0	3,747,657:81:0	
3237	96	354	20:15:25.333		DMS:	**: *RUNDOWN**	R28, TRACK 4, REV, TIC *5559.65 +/-	3R3	4	0	3,747,657:81:0	
3238	**96**	**354**	**20:15:35.999**	**E4GNGLOBAL01-**		**-----STOP-------**		**3R3**	**4**	**0**	**: :**	
3239	96	354	20:56:26.000	488W6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	3R3	4	0	3,747,698:41:0	
3240	96	354	21:00:00.000	488W6B	6TMSED	NORM,EL4	Sci, Eng, and D/L Chan	3R3	4	0	3,747,701:89:0	
3241	96	354	21:28:26.000	488W6C	6TMSED	NORM,EL5	Sci, Eng, and D/L Chan	3R3	4	0	3,747,730:09:0	
3242	96	354	21:33:22.000	165GX4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	3R3	4	0	3,747,734:89:0	
3243	96	354	21:33:22.666	165GX4B	7SCAN	NORM,62.802,25.6	Check S/P Position	3R3	4	0	3,747,734:90:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
3244	96	354	21:37:16.666	117GX	**CSMOS**	GS	***** GROUP START CSMOS	3R3	4	0	3,747,738	77:0
3245	96	354	21:37:26.000	176GX6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	3R3	4	0	3,747,739	00:0
3246	96	354	21:37:26.000	117GX105A106A4A	7STRP	-0.025005,0.0420	Slew =,0.14	3R3	4	0	3,747,739	00:0
3247	96	354	21:45:10.666	117GX105A106B4A	7STRP	0.001,0.0,0,0,0,	Slew =12.01	3R3	4	0	3,747,746	60:0
3248	96	354	21:45:18.000	117GX105A106B4B	7STRP	0.015001,0.04306	Slew =,0.14	3R3	4	0	3,747,746	71:0
3249	96	354	21:50:09.400		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC *5560.83 +/-	3R3	4	0	3,747,751	53:1
3250	96	354	21:50:10.866		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC *5560.71 +/-	3R3	4	0	3,747,751	55:3
3251	96	354	21:50:26.000		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *5557.16 +/-	3R3	4	0	3,747,751	78:0
3252	96	354	21:50:46.000		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *5552.47 +/-	3R3	4	0	3,747,752	17:0
3253	96	354	21:52:57.333	117GX11A	**CSMOS**	GE	***** GROUP END CSMOS	3R3	4	0	3,747,754	32:0
3254	96	354	21:54:55.333	176GX6B	6TMREC	**NRC**	NO RECORD Record Mode Change	3R3	4	0	3,747,756	27:0
3255	96	354	21:55:05.400		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC *5553.81 +/-	3R3	4	0	3,747,756	42:1
3256	96	354	21:55:06.866		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC *5553.69 +/-	3R3	4	0	3,747,756	44:3
3257	96	354	21:55:07.333		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *5553.58 +/-	3R3	4	0	3,747,756	45:0
3258	96	354	21:55:18.666		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *5550.92 +/-	3R3	4	0	3,747,756	62:0
3259	96	354	22:40:58.000	488W6D	6TMSED	NORM,EL6	Sci, Eng, and D/L Chan	3R3	4	0	3,747,801	76:0
3260	96	354	22:45:09.333	165GY4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	3R3	4	0	3,747,805	89:0
3261	96	354	22:45:10.000	165GY4B	7SCAN	NORM,63.811,24.8	Check S/P Position	3R3	4	0	3,747,805	90:0
3262	96	354	22:49:04.000	117GY	**CSMOS**	GS	***** GROUP START CSMOS	3R3	4	0	3,747,809	77:0
3263	96	354	22:49:13.333	176GY6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	3R3	4	0	3,747,810	00:0
3264	96	354	22:49:13.333	117GY105A106A4A	7STRP	0.0,0.014502,0,0	Slew =,0.16	3R3	4	0	3,747,810	00:0
3265	96	354	22:51:37.333	117GY105A106A4B	7STRP	-0.0015,-0.01450	Slew =12.01	3R3	4	0	3,747,812	34:0
3266	96	354	22:51:49.333	117GY105A106A4C	7STRP	0.0,0.014502,0,0	Slew =,0.16	3R3	4	0	3,747,812	52:0
3267	96	354	22:54:13.333	117GY105A106A4D	7STRP	-0.0015,-0.01450	Slew =12.01	3R3	4	0	3,747,814	86:0
3268	96	354	22:54:25.333	117GY105A106A4E	7STRP	0.0,0.014502,0,0	Slew =,0.16	3R3	4	0	3,747,815	13:0
3269	96	354	22:56:49.333	117GY105A106A4F	7STRP	-0.0015,-0.01450	Slew =12.01	3R3	4	0	3,747,817	47:0
3270	96	354	22:57:01.333	117GY105A106A4G	7STRP	0.0,0.014502,0,0	Slew =,0.16	3R3	4	0	3,747,817	65:0
3271	96	354	22:59:25.333	117GY105A106A4H	7STRP	-0.0015,-0.01450	Slew =12.01	3R3	4	0	3,747,820	08:0
3272	96	354	22:59:37.333	117GY105A106A4I	7STRP	0.0,0.014502,0,0	Slew =,0.16	3R3	4	0	3,747,820	26:0
3273	96	354	23:01:56.733		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC *5552.26 +/-	3R3	4	0	3,747,822	53:1
3274	96	354	23:01:58.200		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC *5552.14 +/-	3R3	4	0	3,747,822	55:3
3275	96	354	23:02:01.333	117GY105A106A4J	7STRP	-0.0015,-0.01450	Slew =12.01	3R3	4	0	3,747,822	60:0
3276	96	354	23:02:13.333		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *5548.59 +/-	3R3	4	0	3,747,822	78:0
3277	96	354	23:02:13.333	117GY105A106A4K	7STRP	0.0,0.014502,0,0	Slew =,0.16	3R3	4	0	3,747,822	78:0
3278	96	354	23:02:33.333		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *5543.90 +/-	3R3	4	0	3,747,823	17:0
3279	96	354	23:04:37.333	117GY105A106A4L	7STRP	-0.0015,-0.01450	Slew =12.01	3R3	4	0	3,747,825	21:0
3280	96	354	23:04:49.333	117GY105A106A4M	7STRP	0.0,0.014502,0,0	Slew =,0.16	3R3	4	0	3,747,825	39:0
3281	96	354	23:07:13.333	117GY105A106A4N	7STRP	-0.0015,-0.01450	Slew =12.01	3R3	4	0	3,747,827	73:0
3282	96	354	23:07:25.333	117GY105A106A4O	7STRP	0.0,0.014502,0,0	Slew =,0.16	3R3	4	0	3,747,828	00:0
3283	96	354	23:09:49.333	117GY105A106A4P	7STRP	-0.0015,-0.01450	Slew =12.01	3R3	4	0	3,747,830	34:0
3284	96	354	23:10:01.333	117GY105A106A4Q	7STRP	0.0,0.014502,0,0	Slew =,0.16	3R3	4	0	3,747,830	52:0
3285	96	354	23:12:25.333	117GY105A106A4R	7STRP	-0.0015,-0.01450	Slew =12.01	3R3	4	0	3,747,832	86:0
3286	96	354	23:12:37.333	117GY105A106A4S	7STRP	0.0,0.014502,0,0	Slew =,0.16	3R3	4	0	3,747,833	13:0
3287	96	354	23:14:58.733		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC *5545.24 +/-	3R3	4	0	3,747,835	43:1
3288	96	354	23:15:00.200		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC *5545.12 +/-	3R3	4	0	3,747,835	45:3
3289	96	354	23:15:01.333	117GY105A106B4A	7STRP	0.023004,0.01000	Slew =12.01	3R3	4	0	3,747,835	47:0
3290	96	354	23:15:14.000	117GY105A106B4B	7STRP	0.0,0.00725,0,0,	Slew =,0.16	3R3	4	0	3,747,835	66:0
3291	96	354	23:15:15.333		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *5541.57 +/-	3R3	4	0	3,747,835	68:0
3292	96	354	23:15:35.333		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *5536.89 +/-	3R3	4	0	3,747,836	07:0
3293	96	354	23:16:26.000	117GY105A106C4A	7STRP	-0.0015,-0.0071,	Slew =12.01	3R3	4	0	3,747,836	83:0
3294	96	354	23:16:36.666	117GY105A106C4B	7STRP	0.0,0.0071,0,0,0	Slew =,0.16	3R3	4	0	3,747,837	08:0
3295	96	354	23:17:48.666	117GY105A106C4C	7STRP	-0.0015,-0.0071,	Slew =12.01	3R3	4	0	3,747,838	25:0
3296	96	354	23:17:59.333	117GY105A106C4D	7STRP	0.0,0.0071,0,0,0	Slew =,0.16	3R3	4	0	3,747,838	41:0
3297	96	354	23:19:11.333	117GY105A106C4E	7STRP	-0.0015,-0.0071,	Slew =12.01	3R3	4	0	3,747,839	58:0
3298	96	354	23:19:22.000	117GY105A106C4F	7STRP	0.0,0.0071,0,0,0	Slew =,0.16	3R3	4	0	3,747,839	74:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
3299	96	354	23:20:34.000	117GY105A106C4G	7STRP	-0.0015,-0.0071,	Slew =12.01	3R3	4	0	3,747,841:00:0	
3300	96	354	23:20:44.666	117GY105A106C4H	7STRP	0.0,0.0071,0,0,0	Slew =,0.16	3R3	4	0	3,747,841:16:0	
3301	96	354	23:21:56.666	117GY105A106C4I	7STRP	-0.0015,-0.0071,	Slew =12.01	3R3	4	0	3,747,842:33:0	
3302	96	354	23:22:07.333	117GY105A106C4J	7STRP	0.0,0.0071,0,0,0	Slew =,0.16	3R3	4	0	3,747,842:49:0	
3303	96	354	23:23:19.333	117GY105A106C4K	7STRP	-0.0015,-0.0071,	Slew =12.01	3R3	4	0	3,747,843:66:0	
3304	96	354	23:23:30.000	117GY105A106C4L	7STRP	0.0,0.0071,0,0,0	Slew =,0.16	3R3	4	0	3,747,843:82:0	
3305	96	354	23:24:42.000	117GY105A106C4M	7STRP	-0.0015,-0.0071,	Slew =12.01	3R3	4	0	3,747,845:08:0	
3306	96	354	23:24:52.666	117GY105A106C4N	7STRP	0.0,0.0071,0,0,0	Slew =,0.16	3R3	4	0	3,747,845:24:0	
3307	96	354	23:26:04.666	117GY105A106C4O	7STRP	-0.0015,-0.0071,	Slew =12.01	3R3	4	0	3,747,846:41:0	
3308	96	354	23:26:15.333	117GY105A106C4P	7STRP	0.0,0.0071,0,0,0	Slew =,0.16	3R3	4	0	3,747,846:57:0	
3309	96	354	23:27:27.333	117GY105A106C4Q	7STRP	-0.0015,-0.0071,	Slew =12.01	3R3	4	0	3,747,847:74:0	
3310	96	354	23:27:38.000	117GY105A106C4R	7STRP	0.0,0.0071,0,0,0	Slew =,0.16	3R3	4	0	3,747,847:90:0	
3311	96	354	23:28:00.733		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC *5538.22 +/-	3R3	4	0	3,747,848:33:1	
3312	96	354	23:28:02.200		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC *5538.10 +/-	3R3	4	0	3,747,848:35:3	
3313	96	354	23:28:17.333		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *5534.55 +/-	3R3	4	0	3,747,848:58:0	
3314	96	354	23:28:37.333		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *5529.87 +/-	3R3	4	0	3,747,848:88:0	
3315	96	354	23:28:50.000	117GY105A106C4S	7STRP	-0.0015,-0.0071,	Slew =12.01	3R3	4	0	3,747,849:16:0	
3316	96	354	23:29:00.666	117GY105A106C4T	7STRP	0.0,0.0071,0,0,0	Slew =,0.16	3R3	4	0	3,747,849:32:0	
3317	96	354	23:30:12.666	117GY105A106C4U	7STRP	-0.0015,-0.0071,	Slew =12.01	3R3	4	0	3,747,850:49:0	
3318	96	354	23:30:23.333	117GY105A106C4V	7STRP	0.0,0.0071,0,0,0	Slew =,0.16	3R3	4	0	3,747,850:65:0	
3319	96	354	23:31:35.333	117GY105A106C4W	7STRP	-0.0015,-0.0071,	Slew =12.01	3R3	4	0	3,747,851:82:0	
3320	96	354	23:31:46.000	117GY105A106C4X	7STRP	0.0,0.0071,0,0,0	Slew =,0.16	3R3	4	0	3,747,852:07:0	
3321	96	354	23:32:58.000	117GY105A106C4Y	7STRP	-0.0015,-0.0071,	Slew =12.01	3R3	4	0	3,747,853:24:0	
3322	96	354	23:33:08.666	117GY105A106C4Z	7STRP	0.0,0.0071,0,0,0	Slew =,0.16	3R3	4	0	3,747,853:40:0	
3323	96	354	23:34:20.666	117GY105A106C4AA	7STRP	-0.0015,-0.0071,	Slew =12.01	3R3	4	0	3,747,854:57:0	
3324	96	354	23:34:31.333	117GY105A106C4AB	7STRP	0.0,0.0071,0,0,0	Slew =,0.16	3R3	4	0	3,747,854:73:0	
3325	96	354	23:35:43.333	117GY105A106C4AC	7STRP	-0.0015,-0.0071,	Slew =12.01	3R3	4	0	3,747,855:90:0	
3326	96	354	23:35:54.000	117GY105A106C4AD	7STRP	0.0,0.0071,0,0,0	Slew =,0.16	3R3	4	0	3,747,856:15:0	
3327	96	354	23:37:06.000	117GY105A106C4AE	7STRP	-0.0015,-0.0071,	Slew =12.01	3R3	4	0	3,747,857:32:0	
3328	96	354	23:37:16.666	117GY105A106C4AF	7STRP	0.0,0.0071,0,0,0	Slew =,0.16	3R3	4	0	3,747,857:48:0	
3329	96	354	23:38:28.666	117GY105A106C4AG	7STRP	-0.0015,-0.0071,	Slew =12.01	3R3	4	0	3,747,858:65:0	
3330	96	354	23:38:39.333	117GY105A106C4AH	7STRP	0.0,0.0071,0,0,0	Slew =,0.16	3R3	4	0	3,747,858:81:0	
3331	96	354	23:39:51.333	117GY105A106C4AI	7STRP	-0.0015,-0.0071,	Slew =12.01	3R3	4	0	3,747,860:07:0	
3332	96	354	23:40:02.000	117GY105A106C4AJ	7STRP	0.0,0.0071,0,0,0	Slew =,0.16	3R3	4	0	3,747,860:23:0	
3333	96	354	23:41:03.400		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC *5531.20 +/-	3R3	4	0	3,747,861:24:1	
3334	96	354	23:41:04.866		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC *5531.08 +/-	3R3	4	0	3,747,861:26:3	
3335	96	354	23:41:14.000	117GY105A106C4AK	7STRP	-0.0015,-0.0071,	Slew =12.01	3R3	4	0	3,747,861:40:0	
3336	96	354	23:41:19.333		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *5527.69 +/-	3R3	4	0	3,747,861:48:0	
3337	96	354	23:41:24.666	117GY105A106C4AL	7STRP	0.0,0.0071,0,0,0	Slew =,0.16	3R3	4	0	3,747,861:56:0	
3338	96	354	23:41:39.333		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *5523.00 +/-	3R3	4	0	3,747,861:78:0	
3339	96	354	23:42:36.666	117GY11A	**CSMOS**	GE	***** GROUP END CSMOS	3R3	4	0	3,747,862:73:0	
3340	96	354	23:46:04.666	176GY6B	6TMREC	**NRC**	NO RECORD Record Mode Change	3R3	4	0	3,747,866:21:0	
3341	96	354	23:46:14.733		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC *5524.34 +/-	3R3	4	0	3,747,866:36:1	
3342	96	354	23:46:16.200		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC *5524.22 +/-	3R3	4	0	3,747,866:38:3	
3343	96	354	23:46:16.666		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *5524.11 +/-	3R3	4	0	3,747,866:39:0	
3344	96	354	23:46:28.000		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *5521.45 +/-	3R3	4	0	3,747,866:56:0	
3345	96	354	23:59:58.666	165CO4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	3R3	4	0	3,747,879:89:0	
3346	96	354	23:59:59.333	165CO4B	7SCAN	NORM,345.028999,	Check S/P Position	3R3	4	0	3,747,879:90:0	
3347	96	355	00:23:22.000	488W6E	6TMSED	NORM,EL5	Sci, Eng, and D/L Chan	3R3	4	0	3,747,903:10:0	
3348	96	355	00:40:26.666	192HC4A	**7CONE**	**17.45,0.0**	Check S/P Position	3R3	4	0	3,747,920:00:0	
3349	96	355	00:45:13.333	176HC6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	3R3	4	0	3,747,924:66:0	
3350	96	355	00:46:40.000	176HC6B	6TMREC	**NRC**	NO RECORD Record Mode Change	3R3	4	0	3,747,926:14:0	
3351	96	355	00:46:50.066		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC *5522.79 +/-	3R3	4	0	3,747,926:29:1	
3352	96	355	00:46:51.533		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC *5522.67 +/-	3R3	4	0	3,747,926:31:3	
3353	96	355	00:46:52.000		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *5522.56 +/-	3R3	4	0	3,747,926:32:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
3354	96	355	00:47:00.000		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *5520.69 +/-	3R3	4	0	3,747,926:44:0
3355	96	355	01:00:00.000	488X6A	6TMSED	NORM,BL5	Sci, Eng, and D/L Chan	3R3	4	0	3,747,939:31:0
3356	96	355	01:10:45.333	165GZ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	3R3	4	0	3,747,949:89:0
3357	96	355	01:10:46.000	165GZ4B	7SCAN	NORM,5.943,3.207	Check S/P Position	3R3	4	0	3,747,949:90:0
3358	96	355	01:14:40.000	117GZ	**CSMOS**	GS	***** GROUP START CSMOS	3R3	4	0	3,747,953:77:0
3359	96	355	01:14:49.333	117GZ105A106A4A	7STRP	0.0,0.003,0,0,0,	Slew =,0.17	3R3	4	0	3,747,954:00:0
3360	96	355	01:14:49.333	176GZ6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	3R3	4	0	3,747,954:00:0
3361	96	355	01:15:11.333	117GZ11A	**CSMOS**	GE	***** GROUP END CSMOS	3R3	4	0	3,747,954:33:0
3362	96	355	01:15:22.666	176GZ6B	6TMREC	**NRC**	NO RECORD Record Mode Change	3R3	4	0	3,747,954:50:0
3363	96	355	01:15:32.733		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC *5522.02 +/-	3R3	4	0	3,747,954:65:1
3364	96	355	01:15:34.200		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC *5521.90 +/-	3R3	4	0	3,747,954:67:3
3365	96	355	01:15:34.666		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *5521.79 +/-	3R3	4	0	3,747,954:68:0
3366	96	355	01:15:42.000		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *5520.07 +/-	3R3	4	0	3,747,954:79:0
3367	**96**	**355**	**02:01:24.066**	**E4INVOLCAN03-**		**-----START------**		**3R3**	**4**	**0**	**: :**
3368	96	355	02:02:19.333	165FB4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	3R3	4	0	3,748,000:89:0
3369	96	355	02:02:20.000	165FB4B	7SCAN	NORM,59.18,22.53	Check S/P Position	3R3	4	0	3,748,000:90:0
3370	96	355	02:04:17.333	125FB11A	NIMSINIT	GE	##### GROUP END INIT	3R3	4	0	3,748,002:84:0
3371	96	355	02:04:17.333	125FB	NIMSINIT	GS	##### GROUP START INIT	3R3	4	0	3,748,002:84:0
3372	**96**	**355**	**02:04:17.333**	**125FB4A**	**37IST**	**0,2,0,OFF,0,1,1**	**Gain State 4**	**4R3**	**4**	**0**	**3,748,002:84:0**
3373	96	355	02:04:36.666	488X6B	6TMSED	FILL,BL5	Sci, Eng, and D/L Chan	4R3	4	0	3,748,003:22:0
3374	96	355	02:05:18.000	127FB	NIMSTAB	GS	%%%%% GROUP START TAB	4R3	4	0	3,748,003:84:0
3375	**96**	**355**	**02:05:18.000**	**127FB4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**4R3**	**4**	**0**	**3,748,003:84:0**
3376	**96**	**355**	**02:05:18.666**	**127FB4B**	**37ETB**	**07,C7,03,80,00,0**	**Loads wavelength edit table**	**4R3**	**4**	**0**	**3,748,003:85:0**
3377	96	355	02:05:26.666	127FB11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	3,748,004:06:0
3378	96	355	02:06:10.666	175FB422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	3,748,004:72:0
3379	96	355	02:06:14.000	117FB	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	3,748,004:77:0
3380	96	355	02:06:18.733		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC *5521.41 +/-	4R3	4	0	3,748,004:84:1
3381	96	355	02:06:20.000	175FB176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	4R3	4	0	3,748,004:86:0
3382	96	355	02:06:20.200		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *5521.29 +/-	4R3	4	0	3,748,004:86:3
3383	96	355	02:06:20.200		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC 5521.29 +/-	4R3	4	0	3,748,004:86:3
3384	96	355	02:06:23.333	117FB105A106A4A	7STRP	0.00051,0.0,0,0,	Slew =,0.02	4R3	4	0	3,748,005:00:0
3385	96	355	02:06:50.666	117FB11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	3,748,005:41:0
3386	96	355	02:07:02.000	175FB6A	6TMREC	**NRC**	NO RECORD Record Mode Change	4R3	4	0	3,748,005:58:0
3387	96	355	02:07:02.000	175FB422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,748,005:58:0
3388	96	355	02:07:02.000		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *5511.49 +/-	4R3	4	0	3,748,005:58:0
3389	**96**	**355**	**02:07:28.066**	**E4INVOLCAN03-**		**-----STOP-------**		**4R3**	**4**	**0**	**: :**
3390	**96**	**355**	**02:08:28.732**	**E4INVOLCAN04-**		**-----START------**		**4R3**	**4**	**0**	**: :**
3391	96	355	02:09:24.000	165FC4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,748,007:89:0
3392	96	355	02:09:24.666	165FC4B	7SCAN	NORM,59.617,22.6	Check S/P Position	4R3	4	0	3,748,007:90:0
3393	96	355	02:12:22.666	127FC	NIMSTAB	GS	%%%%% GROUP START TAB	4R3	4	0	3,748,010:84:0
3394	**96**	**355**	**02:12:22.666**	**127FC4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**4R3**	**4**	**0**	**3,748,010:84:0**
3395	**96**	**355**	**02:12:23.333**	**127FC4B**	**37ETB**	**07,C7,03,80,00,0**	**Loads wavelength edit table**	**4R3**	**4**	**0**	**3,748,010:85:0**
3396	96	355	02:12:31.333	127FC11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	3,748,011:06:0
3397	96	355	02:13:15.333	175FC422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	3,748,011:72:0
3398	96	355	02:13:18.666	117FC	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	3,748,011:77:0
3399	96	355	02:13:23.400		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC *5512.83 +/-	4R3	4	0	3,748,011:84:1
3400	96	355	02:13:24.666	175FC176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	4R3	4	0	3,748,011:86:0
3401	96	355	02:13:24.866		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC 5512.71 +/-	4R3	4	0	3,748,011:86:3
3402	96	355	02:13:24.866		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *5512.71 +/-	4R3	4	0	3,748,011:86:3
3403	96	355	02:13:28.000	117FC105A106A4A	7STRP	0.0002,0.0,0,0,0	Slew =,0.01	4R3	4	0	3,748,012:00:0
3404	96	355	02:13:49.333	117FC11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	3,748,012:32:0
3405	96	355	02:14:00.666		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *5504.32 +/-	4R3	4	0	3,748,012:49:0
3406	96	355	02:14:00.666	175FC6A	6TMREC	**NRC**	NO RECORD Record Mode Change	4R3	4	0	3,748,012:49:0
3407	96	355	02:14:00.666	175FC422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,748,012:49:0
3408	**96**	**355**	**02:14:07.399**	**E4INVOLCAN04-**		**-----STOP-------**		**4R3**	**4**	**0**	**: :**

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
3409	96	355	02:22:48.666	488X6C	6TMSED	NORM,BL5	Sci, Eng, and D/L Chan	4R3	4	0	3,748,021:22:0	
3410	**96**	**355**	**02:34:46.066**	**E4INTHRMAL02-**		**-----START------**		**4R3**	**4**	**0**	**: :**	
3411	96	355	02:35:41.333	165FE4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,748,033:89:0	
3412	96	355	02:35:42.000	165FE4B	7SCAN	NORM,61.373,22.9	Check S/P Position	4R3	4	0	3,748,033:90:0	
3413	**96**	**355**	**02:38:40.000**	**127FE4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**4R3**	**4**	**0**	**3,748,036:84:0**	
3414	96	355	02:38:40.000	127FE	NIMSTAB	GS	%%%%% GROUP START TAB	4R3	4	0	3,748,036:84:0	
3415	**96**	**355**	**02:38:40.666**	**127FE4B**	**37ETB**	**07,C7,03,80,00,0**	**Loads wavelength edit table**	**4R3**	**4**	**0**	**3,748,036:85:0**	
3416	96	355	02:38:48.666	127FE11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	3,748,037:06:0	
3417	96	355	02:39:32.666	175FE422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	3,748,037:72:0	
3418	96	355	02:39:36.000	117FE	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	3,748,037:77:0	
3419	96	355	02:39:40.733		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC *5505.65 +/-	4R3	4	0	3,748,037:84:1	
3420	96	355	02:39:42.000	175FE176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	4R3	4	0	3,748,037:86:0	
3421	96	355	02:39:42.200		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *5505.53 +/-	4R3	4	0	3,748,037:86:3	
3422	96	355	02:39:42.200		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC 5505.53 +/-	4R3	4	0	3,748,037:86:3	
3423	96	355	02:39:45.333	117FE105A106A4A	7STRP	0.0007,0.0,0,0,0	Slew =,0.01	4R3	4	0	3,748,038:00:0	
3424	96	355	02:40:56.666	117FE11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	3,748,039:16:0	
3425	96	355	02:41:08.000	175FE6A	6TMREC	**NRC**	NO RECORD Record Mode Change	4R3	4	0	3,748,039:33:0	
3426	96	355	02:41:08.000	175FE422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,748,039:33:0	
3427	96	355	02:41:08.000		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *5485.42 +/-	4R3	4	0	3,748,039:33:0	
3428	**96**	**355**	**02:41:16.732**	**E4INTHRMAL02-**		**-----STOP-------**		**4R3**	**4**	**0**	**: :**	
3429	96	355	03:32:00.000	41VB99A	**POWER**	PWR MODE change	Change to Maneuver Mode	4R3	4	0	3,748,089:61:0	
3430	**96**	**355**	**03:32:04.000**	**41VB3K**	**37F2PR**	**1**	**Shield Flash Heater OFF (primary relay)**	**4R3**	**4**	**0**	**3,748,089:67:0**	
3431	**96**	**355**	**03:32:14.000**	**41VB3L**	**37F2PR**	**2**	**Shield Flash Heater OFF (primary relay)**	**4R3**	**4**	**0**	**3,748,089:82:0**	
3432	**96**	**355**	**03:34:24.000**	**41VB3G**	**40T1P**	**1**	**PCT Heater 1 ON (primary relay)**	**4R3**	**4**	**0**	**3,748,092:04:0**	
3433	**96**	**355**	**03:34:34.000**	**41VB3H**	**40T1P**	**2**	**PCT Heater 1 ON (primary relay)**	**4R3**	**4**	**0**	**3,748,092:19:0**	
3434	**96**	**355**	**03:34:44.000**	**41VB3I**	**40T2**	**1**	**PCT Heater 2 ON**	**4R3**	**4**	**0**	**3,748,092:34:0**	
3435	**96**	**355**	**03:34:54.000**	**41VB3J**	**40T2**	**2**	**PCT Heater 2 ON**	**4R3**	**4**	**0**	**3,748,092:49:0**	
3436	**96**	**355**	**03:35:20.666**	**432B6A**	**6RTDS2**	**NIMNCG,AACNCG,RT**	**R/T ENG DESLECT**	**4R3**	**4**	**0**	**3,748,092:89:0**	
3437	96	355	03:36:27.333	488X6D	6TMSED	FILL,BL5	Sci, Eng, and D/L Chan	4R3	4	0	3,748,094:07:0	
3438	96	355	03:47:02.000	490UA412A4B	**7MODE**	**INT**	AACS INERTIAL MODE	4R3	4	0	3,748,104:49:0	
3439	96	355	03:52:00.000	490UA412A4D	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	4R3	4	0	3,748,109:41:0	
3440	96	355	03:54:34.000	488X6E	6TMSED	FILL,BL2	Sci, Eng, and D/L Chan	4R3	4	0	3,748,111:90:0	
3441	96	355	03:56:10.000	490UA412A4E	7VECT	MVR	Inert vect update UTC	4R3	4	0	3,748,113:52:0	
3442	96	355	03:56:14.000	490UA412A4F	7TURN	1,MVR	ALERT Thruster	4R3	4	0	3,748,113:58:0	
3443	**96**	**355**	**03:59:42.000**	**E4JNSCITRN01-**		**-----START------**		**4R3**	**4**	**0**	**: :**	
3444	96	355	04:00:02.000	490UA412A406A4A	7STAR	71,701,278.81	Star catalog update	4R3	4	0	3,748,117:36:0	
3445	96	355	04:00:04.000	490UA412A406A4B	7STAR	8,350,120.46	Star catalog update	4R3	4	0	3,748,117:39:0	
3446	96	355	04:00:06.000	490UA412A406A4C	7STAR	9,875,114.162,5.	Star catalog update	4R3	4	0	3,748,117:42:0	
3447	96	355	04:00:08.000	490UA412A406A4D	7STAR	10,159,27.239,89	Star catalog update	4R3	4	0	3,748,117:45:0	
3448	96	355	04:00:10.000	490UA412A406A4E	7STAR	11,0,0.0,0.0	Star catalog update	4R3	4	0	3,748,117:48:0	
3449	96	355	04:00:12.000	490UA412A406A4F	7STAR	12,0,0.0,0.0	Star catalog update	4R3	4	0	3,748,117:51:0	
3450	**96**	**355**	**04:17:49.933**	**432C6A**	**6RTSL2**	**NIMNCG,AACNCG,RT**	**R/T ENG SELECT**	**4R3**	**4**	**0**	**3,748,135:00:0**	
3451	**96**	**355**	**05:13:25.266**	**432D6A**	**6RTDS2**	**NIMNCG,AACNCG,RT**	**R/T ENG DESLECT**	**4R3**	**4**	**0**	**3,748,189:89:0**	
3452	**96**	**355**	**05:44:47.266**	**432SC6A**	**6RTSL2**	**NIMNCG,AACNCG,RT**	**R/T ENG SELECT**	**4R3**	**4**	**0**	**3,748,221:00:0**	
3453	96	355	05:50:03.933	20UB4A	7STAT	17.45,105.514058	Stator inertial point	4R3	4	0	3,748,226:20:0	
3454	96	355	06:04:59.933	41WB99A	**POWER**	PWR MODE change	Change to Data Taking Mode	4R3	4	0	3,748,240:90:0	
3455	**96**	**355**	**06:05:03.933**	**41WB3K**	**37F2PR**	**1**	**Shield Flash Heater OFF (primary relay)**	**4R3**	**4**	**0**	**3,748,241:05:0**	
3456	**96**	**355**	**06:05:13.933**	**41WB3L**	**37F2PR**	**2**	**Shield Flash Heater OFF (primary relay)**	**4R3**	**4**	**0**	**3,748,241:20:0**	
3457	**96**	**355**	**06:05:23.933**	**41WB3A**	**40T1PR**	**1**	**PCT Heater 1 OFF (primary relay)**	**4R3**	**4**	**0**	**3,748,241:35:0**	
3458	**96**	**355**	**06:05:33.933**	**41WB3B**	**40T1PR**	**2**	**PCT Heater 1 OFF (primary relay)**	**4R3**	**4**	**0**	**3,748,241:50:0**	
3459	**96**	**355**	**06:05:43.933**	**41WB3C**	**40T2R**	**1**	**PCT Heater 2 OFF**	**4R3**	**4**	**0**	**3,748,241:65:0**	
3460	**96**	**355**	**06:05:53.933**	**41WB3D**	**40T2R**	**2**	**PCT Heater 2 OFF**	**4R3**	**4**	**0**	**3,748,241:80:0**	
3461	96	355	06:14:59.266	432OD431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	4R3	4	0	3,748,250:79:0	
3462	96	355	06:14:59.933	432OD6A	6RTSL1		R/T Select of DDS and	4R3	4	0	3,748,250:80:0	
3463	96	355	06:16:06.600	165HA4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,748,251:89:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
3464	96	355	06:16:07.266	165HA4B	7SCAN	NORM,22.235,10.4	Check S/P Position	4R3	4	0	3,748,251:90:0	
3465	96	355	06:20:01.266	117HA	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	3,748,255:77:0	
3466	96	355	06:20:10.600	176HA6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	4R3	4	0	3,748,256:00:0	
3467	96	355	06:20:10.600	117HA105A106A4A	7STRP	0.0,0.00275,0,0,	Slew =,0.45	4R3	4	0	3,748,256:00:0	
3468	96	355	06:20:32.600	117HA11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	3,748,256:33:0	
3469	96	355	06:20:43.933	176HA6B	6TMREC	**NRC**	NO RECORD Record Mode Change	4R3	4	0	3,748,256:50:0	
3470	96	355	06:20:54.000		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC *5486.76 +/-	4R3	4	0	3,748,256:65:1	
3471	96	355	06:20:55.466		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC *5486.64 +/-	4R3	4	0	3,748,256:67:3	
3472	96	355	06:20:55.933		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *5486.53 +/-	4R3	4	0	3,748,256:68:0	
3473	96	355	06:21:03.266		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *5484.81 +/-	4R3	4	0	3,748,256:79:0	
3474	**96**	**355**	**06:29:20.666**	**E4NNRELOAD08-**		**-----START------**		**4R3**	**4**	**0**	**: :**	
3475	96	355	06:30:15.933	165JC4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,748,265:89:0	
3476	96	355	06:30:16.600	165JC4B	7SCAN	NORM,82.485999,2	Check S/P Position	4R3	4	0	3,748,265:90:0	
3477	**96**	**355**	**06:31:21.933**	**20EI6A**	**6CKSUM**	**NIMS**	**NIMS,1000,14BC**	**4R3**	**4**	**0**	**3,748,267:06:0**	
3478	**96**	**355**	**06:32:22.600**	**20EI5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**4R3**	**4**	**0**	**3,748,268:06:0**	
3479	**96**	**355**	**06:33:23.266**	**20EI5B**	**37MRL**		**Memory Realocate (software operates from R**	**4R3**	**4**	**0**	**3,748,269:06:0**	
3480	96	355	06:34:14.600	175IZ422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	4R3	4	0	3,748,269:83:0	
3481	96	355	06:34:22.666		DMS:	: *RUNUP	R115, TRACK *4, *REV, TIC *5486.14 +/-	4R3	4	0	3,748,270:04:1	
3482	**96**	**355**	**06:34:23.933**	**20EI6B**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**4R3**	**4**	**0**	**3,748,270:06:0**	
3483	96	355	06:34:26.600	175IZ176A6A	6TMREC	HIM	115.2 KBPS SSI + NIMS RECORD Record Mode	4R3	4	0	3,748,270:10:0	
3484	96	355	06:34:26.666		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC 5479.87 +/-	4R3	4	0	3,748,270:10:1	
3485	96	355	06:34:26.666		DMS:	**: *RECORD**	R115, TRACK 4, REV, TIC *5479.87 +/-	4R3	4	0	3,748,270:10:1	
3486	**96**	**355**	**06:35:24.600**	**20EI6C**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**4R3**	**4**	**0**	**3,748,271:06:0**	
3487	96	355	06:35:43.933		DMS:	**: *RUNDOWN**	R115, TRACK 4, REV, TIC *5208.23 +/-	4R3	4	0	3,748,271:35:0	
3488	96	355	06:35:43.933	175IZ422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,748,271:35:0	
3489	**96**	**355**	**06:36:25.266**	**20EI5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**3,748,272:06:0**	
3490	**96**	**355**	**06:37:25.933**	**20EI5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**3,748,273:06:0**	
3491	**96**	**355**	**06:38:26.600**	**20EI4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**3,748,274:06:0**	
3492	**96**	**355**	**06:39:27.266**	**20EI4B**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**3,748,275:06:0**	
3493	**96**	**355**	**06:45:31.333**	**E4NNRELOAD08-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**	
3494	96	355	06:46:26.600	165JD4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,748,281:89:0	
3495	96	355	06:46:27.266	165JD4B	7SCAN	NORM,81.186,27.3	Check S/P Position	2R3	4	0	3,748,281:90:0	
3496	96	355	06:48:23.933	175JA422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2R3	4	0	3,748,283:83:0	
3497	96	355	06:48:32.000		DMS:	: *RUNUP	R115, TRACK *4, *REV, TIC *5208.71 +/-	2R3	4	0	3,748,284:04:1	
3498	96	355	06:48:35.933	175JA176A6A	6TMREC	HIM	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	3,748,284:10:0	
3499	96	355	06:48:36.000		DMS:	**: *RECORD**	R115, TRACK 4, REV, TIC *5202.44 +/-	2R3	4	0	3,748,284:10:1	
3500	96	355	06:48:36.000		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC 5202.44 +/-	2R3	4	0	3,748,284:10:1	
3501	**96**	**355**	**06:49:34.066**	**E4JNFEA14801-**		**-----START------**		**2R3**	**4**	**0**	**: :**	
3502	96	355	06:49:53.933	175JA422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,748,285:36:0	
3503	96	355	06:49:53.933		DMS:	**: *RUNDOWN**	R115, TRACK 4, REV, TIC *4928.46 +/-	2R3	4	0	3,748,285:36:0	
3504	96	355	06:50:29.266	165FG4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,748,285:89:0	
3505	96	355	06:50:29.933	165FG4B	7SCAN	NORM,83.120999,2	Check S/P Position	2R3	4	0	3,748,285:90:0	
3506	**96**	**355**	**06:52:27.266**	**125FG4A**	**37IST**	**0,2,0,OFF,0,1,0**	**Gain State 2**	**2R3**	**4**	**0**	**3,748,287:84:0**	
3507	96	355	06:52:27.266	125FG11A	NIMSINIT	GE	##### GROUP END INIT	2R3	4	0	3,748,287:84:0	
3508	96	355	06:52:27.266	125FG	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	3,748,287:84:0	
3509	**96**	**355**	**06:53:27.933**	**127FG4A**	**37IOP**	**5,1**	**Short Map, Grating Start Position =01**	**2R5**	**4**	**1**	**3,748,288:84:0**	
3510	96	355	06:53:27.933	127FG	NIMSTAB	GS	%%%%% GROUP START TAB	2R5	4	1	3,748,288:84:0	
3511	**96**	**355**	**06:53:28.600**	**127FG4B**	**37ETB**	**,00,05,FF,F8,05,**	**Loads wavelength edit table**	**2R5**	**4**	**1**	**3,748,288:85:0**	
3512	96	355	06:53:36.600	127FG11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R5	4	1	3,748,289:06:0	
3513	96	355	06:54:20.600	175FG422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,748,289:72:0	
3514	96	355	06:54:23.933	117FG	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,748,289:77:0	
3515	96	355	06:54:28.666		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC *4928.94 +/-	2R5	4	1	3,748,289:84:1	
3516	96	355	06:54:29.933	175FG176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	3,748,289:86:0	
3517	96	355	06:54:30.133		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *4928.82 +/-	2R5	4	1	3,748,289:86:3	
3518	96	355	06:54:30.133		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC 4928.82 +/-	2R5	4	1	3,748,289:86:3	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
3519	**96**	**355**	**06:54:32.894**	**E4JNFEA14801-**	**NIMPBK**	**301EU**	**JUPITER CAMP. FEAT. 148 DEG. PHA**	**2R5**	**4**	**1**	**: :**
3520	96	355	06:54:33.266	117FG105A106A4A	7STRP	0.012501,0.0,0,0	Slew =,0.11	2R5	4	1	3,748,290:00:0
3521	96	355	06:56:27.933	117FG105A106A4B	7STRP	-0.012501,0.008,	Slew =12.01	2R5	4	1	3,748,291:81:0
3522	96	355	06:56:41.266	117FG105A106A4C	7STRP	0.012501,0.0,0,0	Slew =,0.11	2R5	4	1	3,748,292:10:0
3523	**96**	**355**	**06:58:35.560**	**E4JNFEA14801-**	**DESELC**	**300EU**	**JUPITER CAMP. FEAT. 148 DEG. PHA**	**2R5**	**4**	**1**	**: :**
3524	96	355	06:58:35.933	117FG11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,748,294:00:0
3525	96	355	06:58:47.266	175FG422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,748,294:17:0
3526	96	355	06:58:47.266	175FG6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,748,294:17:0
3527	96	355	06:58:47.266		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *4868.55 +/-	2R5	4	1	3,748,294:17:0
3528	**96**	**355**	**06:58:53.399**	**E4JNFEA14801-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**
3529	**96**	**355**	**07:01:42.066**	**E4JNFEA14802-**		**-----START------**		**2R5**	**4**	**1**	**: :**
3530	96	355	07:02:37.266	165FH4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,748,297:89:0
3531	96	355	07:02:37.933	165FH4B	7SCAN	NORM,83.377,25.6	Check S/P Position	2R5	4	1	3,748,297:90:0
3532	**96**	**355**	**07:03:34.600**	**127FH4A**	**37IOP**	**5,1**	**Short Map, Grating Start Position =01**	**2R5**	**4**	**1**	**3,748,298:84:0**
3533	96	355	07:03:34.600	127FH	NIMSTAB	GS	%%%%% GROUP START TAB	2R5	4	1	3,748,298:84:0
3534	**96**	**355**	**07:03:35.266**	**127FH4B**	**37ETB**	**,00,05,FF,F8,05,**	**Loads wavelength edit table**	**2R5**	**4**	**1**	**3,748,298:85:0**
3535	96	355	07:03:43.266	127FH11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R5	4	1	3,748,299:06:0
3536	96	355	07:04:27.266	175FH422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,748,299:72:0
3537	96	355	07:04:30.600	117FH	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,748,299:77:0
3538	96	355	07:04:35.333		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC *4869.89 +/-	2R5	4	1	3,748,299:84:1
3539	96	355	07:04:36.600	175FH176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	3,748,299:86:0
3540	96	355	07:04:36.800		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC 4869.77 +/-	2R5	4	1	3,748,299:86:3
3541	96	355	07:04:36.800		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *4869.77 +/-	2R5	4	1	3,748,299:86:3
3542	**96**	**355**	**07:04:39.560**	**E4JNFEA14802-**	**NIMPBK**	**301FM**	**JUPITER CAMP. FEAT. 148 DEG. PHA**	**2R5**	**4**	**1**	**: :**
3543	96	355	07:04:39.933	117FH105A106A4A	7STRP	0.012501,0.0,0,0	Slew =,0.11	2R5	4	1	3,748,300:00:0
3544	96	355	07:06:35.266	117FH105A106A4B	7STRP	-0.012501,0.008,	Slew =12.01	2R5	4	1	3,748,301:82:0
3545	96	355	07:06:47.266	117FH105A106A4C	7STRP	0.012501,0.0,0,0	Slew =,0.11	2R5	4	1	3,748,302:09:0
3546	**96**	**355**	**07:08:41.266**	**432SD6A**	**6RTDS2**	**NIMNCG,AACNCG,RT**	**R/T ENG DESLECT**	**2R5**	**4**	**1**	**3,748,303:89:0**
3547	**96**	**355**	**07:08:42.227**	**E4JNFEA14802-**	**DESELC**	**300FM**	**JUPITER CAMP. FEAT. 148 DEG. PHA**	**2R5**	**4**	**1**	**: :**
3548	96	355	07:08:42.600	117FH11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,748,304:00:0
3549	96	355	07:08:53.933		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *4809.50 +/-	2R5	4	1	3,748,304:17:0
3550	96	355	07:08:53.933	175FH422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,748,304:17:0
3551	96	355	07:08:53.933	175FH6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,748,304:17:0
3552	**96**	**355**	**07:09:00.066**	**E4JNFEA14802-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**
3553	96	355	07:10:42.600	165AU4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,748,305:89:0
3554	96	355	07:10:43.266	165AU4B	7SCAN	NORM,84.23,27.8,	Check S/P Position	2R5	4	1	3,748,305:90:0
3555	**96**	**355**	**07:21:55.399**	**E4JNFEA14803-**		**-----START------**		**2R5**	**4**	**1**	**: :**
3556	96	355	07:22:50.600	165FI4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,748,317:89:0
3557	96	355	07:22:51.266	165FI4B	7SCAN	NORM,83.851999,2	Check S/P Position	2R5	4	1	3,748,317:90:0
3558	96	355	07:23:47.933	127FI	NIMSTAB	GS	%%%%% GROUP START TAB	2R5	4	1	3,748,318:84:0
3559	**96**	**355**	**07:23:47.933**	**127FI4A**	**37IOP**	**5,1**	**Short Map, Grating Start Position =01**	**2R5**	**4**	**1**	**3,748,318:84:0**
3560	**96**	**355**	**07:23:48.600**	**127FI4B**	**37ETB**	**,00,05,FF,F8,05,**	**Loads wavelength edit table**	**2R5**	**4**	**1**	**3,748,318:85:0**
3561	96	355	07:23:56.600	127FI11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R5	4	1	3,748,319:06:0
3562	96	355	07:24:40.600	175FI422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,748,319:72:0
3563	96	355	07:24:43.933	117FI	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,748,319:77:0
3564	96	355	07:24:48.666		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC *4810.84 +/-	2R5	4	1	3,748,319:84:1
3565	96	355	07:24:49.933	175FI176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	3,748,319:86:0
3566	96	355	07:24:50.133		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC 4810.72 +/-	2R5	4	1	3,748,319:86:3
3567	96	355	07:24:50.133		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *4810.72 +/-	2R5	4	1	3,748,319:86:3
3568	**96**	**355**	**07:24:52.893**	**E4JNFEA14803-**	**NIMPBK**	**301FH**	**JUPITER CAMP. FEAT. 148 DEG. PHA**	**2R5**	**4**	**1**	**: :**
3569	96	355	07:24:53.266	117FI105A106A4A	7STRP	0.012501,0.0,0,0	Slew =,0.11	2R5	4	1	3,748,320:00:0
3570	96	355	07:26:48.600	117FI105A106A4B	7STRP	-0.012501,0.008,	Slew =12.01	2R5	4	1	3,748,321:82:0
3571	96	355	07:27:00.600	117FI105A106A4C	7STRP	0.012501,0.0,0,0	Slew =,0.11	2R5	4	1	3,748,322:09:0
3572	**96**	**355**	**07:28:55.559**	**E4JNFEA14803-**	**DESELC**	**300FH**	**JUPITER CAMP. FEAT. 148 DEG. PHA**	**2R5**	**4**	**1**	**: :**
3573	96	355	07:28:55.933	117FI11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,748,324:00:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
3574	96	355	07:29:07.266	175FI6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,748,324:17:0	
3575	96	355	07:29:07.266		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *4750.45 +/-	2R5	4	1	3,748,324:17:0	
3576	96	355	07:29:07.266	175FI422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,748,324:17:0	
3577	**96**	**355**	**07:29:13.399**	**E4JNFEA14803-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**	
3578	96	355	07:59:15.933	411JF6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,748,354:00:0	
3579	**96**	**355**	**07:59:20.000**	**E4NNHEALTH04-**		**-----START------**		**2R5**	**4**	**1**	**: :**	
3580	96	355	07:59:24.000		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC *4751.79 +/-	2R5	4	1	3,748,354:12:1	
3581	96	355	07:59:25.466		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *4751.67 +/-	2R5	4	1	3,748,354:14:3	
3582	96	355	07:59:25.466		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC 4751.67 +/-	2R5	4	1	3,748,354:14:3	
3583	96	355	07:59:25.933	411JF6B	6TMREC	BDT	7.68 KBPS BUFFER DUMP TO TAPE Record Mode	2R5	4	1	3,748,354:15:0	
3584	96	355	08:00:11.933	125FW11A	NIMSINIT	GE	##### GROUP END INIT	2R5	4	1	3,748,354:84:0	
3585	96	355	08:00:11.933	125FW	NIMSINIT	GS	##### GROUP START INIT	2R5	4	1	3,748,354:84:0	
3586	**96**	**355**	**08:00:11.933**	**125FW4A**	**37IST**	**0,2,0,OFF,0,1,0**	**Gain State 2**	**2R5**	**4**	**1**	**3,748,354:84:0**	
3587	96	355	08:01:12.600	127FW	NIMSTAB	GS	%%%%% GROUP START TAB	2R5	4	1	3,748,355:84:0	
3588	**96**	**355**	**08:01:12.600**	**127FW4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**3,748,355:84:0**	
3589	**96**	**355**	**08:01:13.266**	**127FW4B**	**37ETB**	**07,C7,02,80,44,3**	**Loads wavelength edit table**	**2R3**	**4**	**0**	**3,748,355:85:0**	
3590	96	355	08:01:21.266	127FW11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	3,748,356:06:0	
3591	96	355	08:01:27.266	411JF6C	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	3,748,356:15:0	
3592	96	355	08:01:29.933	175TI176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	2R3	4	0	3,748,356:19:0	
3593	96	355	08:01:30.600	175TI422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	3,748,356:20:0	
3594	96	355	08:01:37.266		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *4720.78 +/-	2R3	4	0	3,748,356:30:0	
3595	96	355	08:01:37.266	175TI422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,748,356:30:0	
3596	**96**	**355**	**08:01:37.266**	**432EE6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**	**NIMS R/T SELECT**	**2R3**	**4**	**0**	**3,748,356:30:0**	
3597	**96**	**355**	**08:02:36.600**	**432EF6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**2R3**	**4**	**0**	**3,748,357:28:0**	
3598	**96**	**355**	**08:03:22.666**	**E4NNHEALTH04-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**	
3599	**96**	**355**	**08:44:50.066**	**E4JNFEA53M01-**		**-----START------**		**2R3**	**4**	**0**	**: :**	
3600	96	355	08:45:45.266	165FJ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,748,399:89:0	
3601	96	355	08:45:45.933	165FJ4B	7SCAN	NORM,84.598,25.6	Check S/P Position	2R3	4	0	3,748,399:90:0	
3602	96	355	08:47:43.266	125FJ11A	NIMSINIT	GE	##### GROUP END INIT	2R3	4	0	3,748,401:84:0	
3603	96	355	08:47:43.266	125FJ	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	3,748,401:84:0	
3604	**96**	**355**	**08:47:43.266**	**125FJ4A**	**37IST**	**0,2,0,OFF,0,1,1**	**Gain State 4**	**4R3**	**4**	**0**	**3,748,401:84:0**	
3605	**96**	**355**	**08:48:43.933**	**127FJ4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**4R3**	**4**	**0**	**3,748,402:84:0**	
3606	96	355	08:48:43.933	127FJ	NIMSTAB	GS	%%%%% GROUP START TAB	4R3	4	0	3,748,402:84:0	
3607	**96**	**355**	**08:48:44.600**	**127FJ4B**	**37ETB**		**Loads wavelength edit table**	**4R3**	**4**	**0**	**3,748,402:85:0**	
3608	96	355	08:48:52.600	127FJ11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	3,748,403:06:0	
3609	96	355	08:49:36.600	175FJ422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	3,748,403:72:0	
3610	96	355	08:49:39.933	117FJ	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	3,748,403:77:0	
3611	96	355	08:49:44.666		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC *4722.11 +/-	4R3	4	0	3,748,403:84:1	
3612	96	355	08:49:45.933	175FJ176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	4R3	4	0	3,748,403:86:0	
3613	96	355	08:49:46.133		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC 4721.99 +/-	4R3	4	0	3,748,403:86:3	
3614	96	355	08:49:46.133		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *4721.99 +/-	4R3	4	0	3,748,403:86:3	
3615	96	355	08:49:49.266	117FJ105A106A4A	7STRP	0.043127,0.0,0,0	Slew =,0.03	4R3	4	0	3,748,404:00:0	
3616	**96**	**355**	**08:55:30.223**	**E4JNFEA53M01-**	**NIMPBK**	**301DA**	**JUPITER CAMPAIGN FEATURE 5 & 3 U**	**4R3**	**4**	**0**	**: :**	
3617	**96**	**355**	**08:56:21.556**	**E4JNFEA53M01-**	**NIMPBK**	**301EC**	**JUPITER CAMPAIGN FEATURE 5 & 3 U**	**4R3**	**4**	**0**	**: :**	
3618	**96**	**355**	**08:56:30.890**	**E4JNFEA53M01-**	**DESELC**	**300DA**	**JUPITER CAMPAIGN FEATURE 5 & 3 U**	**4R3**	**4**	**0**	**: :**	
3619	**96**	**355**	**09:06:28.223**	**E4JNFEA53M01-**	**DESELC**	**300EC**	**JUPITER CAMPAIGN FEATURE 5 & 3 U**	**4R3**	**4**	**0**	**: :**	
3620	96	355	09:13:49.266	117FJ105A106A4B	7STRP	-0.037718,-0.001	Slew =12.01	4R3	4	0	3,748,427:67:0	
3621	96	355	09:13:56.600		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *4382.04 +/-	4R3	4	0	3,748,427:78:0	
3622	96	355	09:13:56.600	175FJ6A	6TMREC	**NRC**	NO RECORD Record Mode Change	4R3	4	0	3,748,427:78:0	
3623	96	355	09:13:56.600	175FJ422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,748,427:78:0	
3624	96	355	09:15:50.600	117FJ105A106A4C	7STRP	0.043127,0.0,0,0	Slew =,0.03	4R3	4	0	3,748,429:67:0	
3625	96	355	09:19:41.933	175ET422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	3,748,433:50:0	
3626	96	355	09:19:50.000		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC *4383.37 +/-	4R3	4	0	3,748,433:62:1	
3627	96	355	09:19:51.266	175ET176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	4R3	4	0	3,748,433:64:0	
3628	96	355	09:19:51.466		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC 4383.26 +/-	4R3	4	0	3,748,433:64:3	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
3629	96	355	09:19:51.466		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *4383.26 +/-	4R3	4	0	3,748,433:64:3
3630	96	355	09:20:29.266	175ET422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,748,434:30:0
3631	96	355	09:20:29.266		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *4374.40 +/-	4R3	4	0	3,748,434:30:0
3632	96	355	09:20:29.266	175ET6A	6TMREC	**NRC**	NO RECORD Record Mode Change	4R3	4	0	3,748,434:30:0
3633	96	355	09:39:50.600	117FJ11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	3,748,453:43:0
3634	**96**	**355**	**09:40:26.733**	**E4JNFEA53M01-**		**-----STOP-------**		**4R3**	**4**	**0**	**: :**
3635	**96**	**355**	**09:59:35.266**	**432E6A**	**6RTSL2**	**NIMNCG,AACNCG,RT**	**R/T ENG SELECT**	**4R3**	**4**	**0**	**3,748,473:00:0**
3636	**96**	**355**	**10:08:45.333**	**E4NNRELOAD09-**		**-----START------**		**4R3**	**4**	**0**	**: :**
3637	**96**	**355**	**10:10:46.600**	**20EZ5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**4R3**	**4**	**0**	**3,748,484:06:0**
3638	**96**	**355**	**10:11:47.266**	**20EZ5B**	**37MRL**		**Memory Realocate (software operates from R**	**4R3**	**4**	**0**	**3,748,485:06:0**
3639	**96**	**355**	**10:12:47.933**	**20EZ6B**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**4R3**	**4**	**0**	**3,748,486:06:0**
3640	**96**	**355**	**10:13:48.600**	**20EZ6C**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**4R3**	**4**	**0**	**3,748,487:06:0**
3641	**96**	**355**	**10:14:49.266**	**20EZ5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**3,748,488:06:0**
3642	**96**	**355**	**10:15:49.933**	**20EZ5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**3,748,489:06:0**
3643	**96**	**355**	**10:16:50.600**	**20EZ4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**3,748,490:06:0**
3644	96	355	10:17:45.933	165JE4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R0	4	0	3,748,490:89:0
3645	96	355	10:17:46.600	165JE4B	7SCAN	NORM,89.075999,2	Check S/P Position	2R0	4	0	3,748,490:90:0
3646	**96**	**355**	**10:17:51.266**	**20EZ4B**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**3,748,491:06:0**
3647	96	355	10:21:53.933	118JE	**SMOS**	GS		2R3	4	0	3,748,495:06:0
3648	96	355	10:22:06.600	118JE110A111A4A	7STRP	0.00325,-0.0006,	Slew =,3.01	2R3	4	0	3,748,495:25:0
3649	96	355	10:22:11.266	175JB422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2R3	4	0	3,748,495:32:0
3650	96	355	10:22:19.333		DMS:	: *RUNUP	R115, TRACK *4, *REV, TIC *4375.73 +/-	2R3	4	0	3,748,495:44:1
3651	96	355	10:22:23.266	175JB176A6A	6TMREC	HMA	115.2 KBPS IMAGE(1-400)RECORD Record Mode	2R3	4	0	3,748,495:50:0
3652	96	355	10:22:23.333		DMS:	**: *RECORD**	R115, TRACK 4, REV, TIC *4369.46 +/-	2R3	4	0	3,748,495:50:1
3653	96	355	10:22:23.333		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC 4369.46 +/-	2R3	4	0	3,748,495:50:1
3654	96	355	10:22:37.266	118JE11A	**SMOS**	GE		2R3	4	0	3,748,495:71:0
3655	**96**	**355**	**10:22:45.933**	**33A4A**	**37IST**	**0,2,0,OFF,0,1,1**	**Gain State 4**	**4R3**	**4**	**0**	**3,748,495:84:0**
3656	96	355	10:22:49.266	165JF4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,748,495:89:0
3657	96	355	10:22:49.933	165JF4B	7SCAN	NORM,89.342999,2	Check S/P Position	4R3	4	0	3,748,495:90:0
3658	96	355	10:22:50.600	175JB422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,748,496:00:0
3659	96	355	10:22:50.600		DMS:	**: *RUNDOWN**	R115, TRACK 4, REV, TIC *4273.60 +/-	4R3	4	0	3,748,496:00:0
3660	**96**	**355**	**10:24:56.000**	**E4NNRELOAD09-**		**-----STOP-------**		**4R3**	**4**	**0**	**: :**
3661	96	355	10:26:57.266	118JF	**SMOS**	GS		4R3	4	0	3,748,500:06:0
3662	96	355	10:27:09.933	118JF110A111A4A	7STRP	0.00325,-0.0006,	Slew =,3.01	4R3	4	0	3,748,500:25:0
3663	96	355	10:27:14.600	175JF422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	4R3	4	0	3,748,500:32:0
3664	96	355	10:27:22.666		DMS:	: *RUNUP	R115, TRACK *4, *REV, TIC *4274.08 +/-	4R3	4	0	3,748,500:44:1
3665	96	355	10:27:26.600	175JF176A6A	6TMREC	HMA	115.2 KBPS IMAGE(1-400)RECORD Record Mode	4R3	4	0	3,748,500:50:0
3666	96	355	10:27:26.666		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC 4267.81 +/-	4R3	4	0	3,748,500:50:1
3667	96	355	10:27:26.666		DMS:	**: *RECORD**	R115, TRACK 4, REV, TIC *4267.81 +/-	4R3	4	0	3,748,500:50:1
3668	96	355	10:27:40.600	118JF11A	**SMOS**	GE		4R3	4	0	3,748,500:71:0
3669	**96**	**355**	**10:27:52.600**	**432F6A**	**6RTDS2**	**NIMNCG,AACNCG,RT**	**R/T ENG DESLECT**	**4R3**	**4**	**0**	**3,748,500:89:0**
3670	96	355	10:27:54.600	175JF422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,748,501:01:0
3671	96	355	10:27:54.600		DMS:	**: *RUNDOWN**	R115, TRACK 4, REV, TIC *4169.61 +/-	4R3	4	0	3,748,501:01:0
3672	**96**	**355**	**10:32:00.733**	**E4JNFEA5UM01-**		**-----START------**		**4R3**	**4**	**0**	**: :**
3673	96	355	10:32:55.933	165FK4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,748,505:89:0
3674	96	355	10:32:56.600	165FK4B	7SCAN	NORM,84.245999,2	Check S/P Position	4R3	4	0	3,748,505:90:0
3675	**96**	**355**	**10:33:53.266**	**127FK4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**4R3**	**4**	**0**	**3,748,506:84:0**
3676	96	355	10:33:53.266	127FK	NIMSTAB	GS	%%%%% GROUP START TAB	4R3	4	0	3,748,506:84:0
3677	**96**	**355**	**10:33:53.933**	**127FK4B**	**37ETB**	**,CD,02,03,FF,1A,**	**Loads wavelength edit table**	**4R3**	**4**	**0**	**3,748,506:85:0**
3678	96	355	10:34:01.933	127FK11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	3,748,507:06:0
3679	96	355	10:34:45.933	175FK422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	3,748,507:72:0
3680	96	355	10:34:49.266	117FK	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	3,748,507:77:0
3681	96	355	10:34:54.000		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC *4170.09 +/-	4R3	4	0	3,748,507:84:1
3682	96	355	10:34:55.266	175FK176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	4R3	4	0	3,748,507:86:0
3683	96	355	10:34:55.466		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC 4169.97 +/-	4R3	4	0	3,748,507:86:3

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
3684	96	355	10:34:55.466		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *4169.97 +/-	4R3	4	0	3,748,507:86:3
3685	96	355	10:34:58.600	117FK105A106A4A	7STRP	0.043527,0.0,0,0	Slew =,0.03	4R3	4	0	3,748,508:00:0
3686	96	355	10:59:14.600	117FK105A106A4B	7STRP	-0.050042,0.008,	Slew =12.01	4R3	4	0	3,748,532:00:0
3687	96	355	10:59:27.933	117FK105A106A4C	7STRP	0.043527,0.0,0,0	Slew =,0.03	4R3	4	0	3,748,532:20:0
3688	**96**	**355**	**10:59:36.218**	**E4JNFEA5UM01-**	**NIMPBK**	**301FA**	**JUPITER CAMPAIGN FEAT. 5 MICRON**	**4R3**	**4**	**0**	**: :**
3689	**96**	**355**	**11:01:51.551**	**E4JNFEA5UM01-**	**NIMPBK**	**301DB**	**JUPITER CAMPAIGN FEAT. 5 MICRON**	**4R3**	**4**	**0**	**: :**
3690	**96**	**355**	**11:02:00.218**	**E4JNFEA5UM01-**	**DESELC**	**300FA**	**JUPITER CAMPAIGN FEAT. 5 MICRON**	**4R3**	**4**	**0**	**: :**
3691	**96**	**355**	**11:03:44.218**	**E4JNFEA5UM01-**	**NIMPBK**	**301EG**	**JUPITER CAMPAIGN FEAT. 5 MICRON**	**4R3**	**4**	**0**	**: :**
3692	**96**	**355**	**11:03:52.885**	**E4JNFEA5UM01-**	**DESELC**	**300DB**	**JUPITER CAMPAIGN FEAT. 5 MICRON**	**4R3**	**4**	**0**	**: :**
3693	**96**	**355**	**11:07:06.218**	**E4JNFEA5UM01-**	**DESELC**	**300EG**	**JUPITER CAMPAIGN FEAT. 5 MICRON**	**4R3**	**4**	**0**	**: :**
3694	96	355	11:07:15.933		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *3715.17 +/-	4R3	4	0	3,748,539:85:0
3695	96	355	11:07:15.933	175FK6A	6TMREC	**NRC**	NO RECORD Record Mode Change	4R3	4	0	3,748,539:85:0
3696	96	355	11:07:15.933	175FK422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,748,539:85:0
3697	96	355	11:23:43.933	117FK11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	3,748,556:20:0
3698	**96**	**355**	**11:23:48.066**	**E4JNFEA5UM01-**		**-----STOP-------**		**4R3**	**4**	**0**	**: :**
3699	96	355	13:14:43.933	411JD6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	3,748,666:00:0
3700	96	355	13:14:52.000		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC *3716.50 +/-	4R3	4	0	3,748,666:12:1
3701	96	355	13:14:53.466		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC 3716.39 +/-	4R3	4	0	3,748,666:14:3
3702	96	355	13:14:53.466		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *3716.39 +/-	4R3	4	0	3,748,666:14:3
3703	96	355	13:14:53.933	411JD6B	6TMREC	BDT	7.68 KBPS BUFFER DUMP TO TAPE Record Mode	4R3	4	0	3,748,666:15:0
3704	96	355	13:16:55.266	411JD6C	6TMREC	**NRC**	NO RECORD Record Mode Change	4R3	4	0	3,748,668:15:0
3705	96	355	13:16:57.933	175TJ176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	4R3	4	0	3,748,668:19:0
3706	96	355	13:16:58.600	175TJ422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	3,748,668:20:0
3707	96	355	13:17:05.266		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *3685.50 +/-	4R3	4	0	3,748,668:30:0
3708	96	355	13:17:05.266	175TJ422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,748,668:30:0
3709	**96**	**355**	**15:19:10.000**	**E4NNRELOAD10-**		**-----START------**		**4R3**	**4**	**0**	**: :**
3710	**96**	**355**	**15:21:11.266**	**20EY5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**4R3**	**4**	**0**	**3,748,791:06:0**
3711	**96**	**355**	**15:22:11.933**	**20EY5B**	**37MRL**		**Memory Realocate (software operates from R**	**4R3**	**4**	**0**	**3,748,792:06:0**
3712	**96**	**355**	**15:23:12.600**	**20EY6B**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**4R3**	**4**	**0**	**3,748,793:06:0**
3713	**96**	**355**	**15:24:13.266**	**20EY6C**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**4R3**	**4**	**0**	**3,748,794:06:0**
3714	**96**	**355**	**15:25:13.933**	**20EY5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**3,748,795:06:0**
3715	**96**	**355**	**15:26:14.600**	**20EY5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**3,748,796:06:0**
3716	**96**	**355**	**15:27:15.266**	**20EY4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**3,748,797:06:0**
3717	**96**	**355**	**15:28:15.933**	**20EY4B**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**3,748,798:06:0**
3718	**96**	**355**	**15:35:20.666**	**E4NNRELOAD10-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**
3719	**96**	**355**	**15:46:27.933**	**E4CNGLOBAL01-**		**-----START------**		**2R3**	**4**	**0**	**: :**
3720	96	355	15:47:23.266	165FL4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,748,816:89:0
3721	96	355	15:47:23.933	165FL4B	7SCAN	NORM,14.161,7.22	Check S/P Position	2R3	4	0	3,748,816:90:0
3722	96	355	15:49:21.266	125FL11A	NIMSINIT	GE	##### GROUP END INIT	2R3	4	0	3,748,818:84:0
3723	**96**	**355**	**15:49:21.266**	**125FL4A**	**37IST**	**0,2,0,OFF,0,1,1**	**Gain State 4**	**4R3**	**4**	**0**	**3,748,818:84:0**
3724	96	355	15:49:21.266	125FL	NIMSINIT	GS	##### GROUP START INIT	4R3	4	0	3,748,818:84:0
3725	**96**	**355**	**15:50:21.933**	**127FL4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**4R3**	**4**	**0**	**3,748,819:84:0**
3726	96	355	15:50:21.933	127FL	NIMSTAB	GS	%%%%% GROUP START TAB	4R3	4	0	3,748,819:84:0
3727	**96**	**355**	**15:50:22.600**	**127FL4B**	**37ETB**	**07,C7,02,00,60,0**	**Loads wavelength edit table**	**4R3**	**4**	**0**	**3,748,819:85:0**
3728	96	355	15:50:30.600	127FL11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	3,748,820:06:0
3729	96	355	15:51:14.600	175FL422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	3,748,820:72:0
3730	96	355	15:51:17.933	117FL	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	3,748,820:77:0
3731	96	355	15:51:22.666		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC *3686.83 +/-	4R3	4	0	3,748,820:84:1
3732	96	355	15:51:23.933	175FL176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	4R3	4	0	3,748,820:86:0
3733	96	355	15:51:24.133		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *3686.71 +/-	4R3	4	0	3,748,820:86:3
3734	96	355	15:51:24.133		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC 3686.71 +/-	4R3	4	0	3,748,820:86:3
3735	96	355	15:51:27.266	117FL105A106A4A	7STRP	0.0045,0.0,0,0,0	Slew =,0.03	4R3	4	0	3,748,821:00:0
3736	96	355	15:53:59.266	117FL11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	3,748,823:46:0
3737	96	355	15:54:10.600		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *3647.70 +/-	4R3	4	0	3,748,823:63:0
3738	96	355	15:54:10.600	175FL422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,748,823:63:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
3739	96	355	15:54:10.600	175FL6A	6TMREC	**NRC**	NO RECORD Record Mode Change	4R3	4	0	3,748,823:63:0
3740	**96**	**355**	**15:54:33.267**	**E4CNGLOBAL01-**		**-----STOP-------**		**4R3**	**4**	**0**	**: :**
3741	**96**	**355**	**15:59:32.600**	**432G6A**	**6RTSL2**	**NIMNCG,AACNCG,RT**	**R/T ENG SELECT**	**4R3**	**4**	**0**	**3,748,829:00:0**
3742	96	355	16:10:38.600	165JG4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,748,839:89:0
3743	96	355	16:10:39.266	165JG4B	7SCAN	NORM,95.197,25.0	Check S/P Position	4R3	4	0	3,748,839:90:0
3744	96	355	16:14:37.266	175JC422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	4R3	4	0	3,748,843:83:0
3745	96	355	16:14:45.333		DMS:	: *RUNUP	R115, TRACK *4, *REV, TIC *3649.03 +/-	4R3	4	0	3,748,844:04:1
3746	96	355	16:14:49.266	175JC176A6A	6TMREC	HIM	115.2 KBPS SSI + NIMS RECORD Record Mode	4R3	4	0	3,748,844:10:0
3747	96	355	16:14:49.333		DMS:	**: *RECORD**	R115, TRACK 4, REV, TIC *3642.76 +/-	4R3	4	0	3,748,844:10:1
3748	96	355	16:14:49.333		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC 3642.76 +/-	4R3	4	0	3,748,844:10:1
3749	96	355	16:16:06.600		DMS:	**: *RUNDOWN**	R115, TRACK 4, REV, TIC *3371.12 +/-	4R3	4	0	3,748,845:35:0
3750	96	355	16:16:06.600	175JC422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,748,845:35:0
3751	96	355	16:26:49.266	165JH4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,748,855:89:0
3752	96	355	16:26:49.933	165JH4B	7SCAN	NORM,94.271,26.8	Check S/P Position	4R3	4	0	3,748,855:90:0
3753	96	355	16:28:46.600	175JH422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	4R3	4	0	3,748,857:83:0
3754	96	355	16:28:54.666		DMS:	: *RUNUP	R115, TRACK *4, *REV, TIC *3371.60 +/-	4R3	4	0	3,748,858:04:1
3755	96	355	16:28:58.600	175JH176A6A	6TMREC	HIM	115.2 KBPS SSI + NIMS RECORD Record Mode	4R3	4	0	3,748,858:10:0
3756	96	355	16:28:58.666		DMS:	**: *RECORD**	R115, TRACK 4, REV, TIC *3365.33 +/-	4R3	4	0	3,748,858:10:1
3757	96	355	16:28:58.666		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC 3365.33 +/-	4R3	4	0	3,748,858:10:1
3758	96	355	16:30:16.600		DMS:	**: *RUNDOWN**	R115, TRACK 4, REV, TIC *3091.34 +/-	4R3	4	0	3,748,859:36:0
3759	96	355	16:30:16.600	175JH422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,748,859:36:0
3760	**96**	**355**	**16:30:57.267**	**E4JNFEA16001-**		**-----START------**		**4R3**	**4**	**0**	**: :**
3761	96	355	16:31:52.600	165FN4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,748,860:89:0
3762	96	355	16:31:53.266	165FN4B	7SCAN	NORM,95.645,25.3	Check S/P Position	4R3	4	0	3,748,860:90:0
3763	96	355	16:33:50.600	125FN	NIMSINIT	GS	##### GROUP START INIT	4R3	4	0	3,748,862:84:0
3764	96	355	16:33:50.600	125FN11A	NIMSINIT	GE	##### GROUP END INIT	4R3	4	0	3,748,862:84:0
3765	**96**	**355**	**16:33:50.600**	**125FN4A**	**37IST**	**0,2,0,OFF,0,1,0**	**Gain State 2**	**2R3**	**4**	**0**	**3,748,862:84:0**
3766	**96**	**355**	**16:34:51.266**	**127FN4A**	**37IOP**	**5,1**	**Short Map, Grating Start Position =01**	**2R5**	**4**	**1**	**3,748,863:84:0**
3767	96	355	16:34:51.266	127FN	NIMSTAB	GS	%%%%% GROUP START TAB	2R5	4	1	3,748,863:84:0
3768	**96**	**355**	**16:34:51.933**	**127FN4B**	**37ETB**	**,CD,02,00,00,05,**	**Loads wavelength edit table**	**2R5**	**4**	**1**	**3,748,863:85:0**
3769	96	355	16:34:59.933	127FN11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R5	4	1	3,748,864:06:0
3770	96	355	16:35:43.933	175FN422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,748,864:72:0
3771	96	355	16:35:47.266	117FN	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,748,864:77:0
3772	96	355	16:35:52.000		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC *3091.82 +/-	2R5	4	1	3,748,864:84:1
3773	96	355	16:35:53.266	175FN176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	3,748,864:86:0
3774	96	355	16:35:53.466		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *3091.70 +/-	2R5	4	1	3,748,864:86:3
3775	96	355	16:35:53.466		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC 3091.70 +/-	2R5	4	1	3,748,864:86:3
3776	**96**	**355**	**16:35:56.206**	**E4JNFEA16001-**	**NIMPBK**	**301DN**	**JUPITER CAMP. FEAT. 160 DEG. PHA**	**2R5**	**4**	**1**	**: :**
3777	96	355	16:35:56.600	117FN105A106A4A	7STRP	0.0056,0.0,0,0,0	Slew =,0.11	2R5	4	1	3,748,865:00:0
3778	96	355	16:36:48.600	117FN105A106A4B	7STRP	-0.0055,0.008,0,	Slew =12.01	2R5	4	1	3,748,865:78:0
3779	96	355	16:36:59.266	117FN105A106A4C	7STRP	0.0056,0.0,0,0,0	Slew =,0.11	2R5	4	1	3,748,866:03:0
3780	**96**	**355**	**16:37:50.873**	**E4JNFEA16001-**	**DESELC**	**300DN**	**JUPITER CAMP. FEAT. 160 DEG. PHA**	**2R5**	**4**	**1**	**: :**
3781	96	355	16:37:51.266	117FN11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,748,866:81:0
3782	96	355	16:38:02.600	175FN422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,748,867:07:0
3783	96	355	16:38:02.600		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *3061.44 +/-	2R5	4	1	3,748,867:07:0
3784	96	355	16:38:02.600	175FN6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,748,867:07:0
3785	**96**	**355**	**16:38:08.600**	**E4JNFEA16001-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**
3786	**96**	**355**	**16:41:03.933**	**E4JNFEA16002-**		**-----START------**		**2R5**	**4**	**1**	**: :**
3787	96	355	16:41:59.266	165FO4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,748,870:89:0
3788	96	355	16:41:59.933	165FO4B	7SCAN	NORM,95.775999,2	Check S/P Position	2R5	4	1	3,748,870:90:0
3789	**96**	**355**	**16:42:56.600**	**127FO4A**	**37IOP**	**5,1**	**Short Map, Grating Start Position =01**	**2R5**	**4**	**1**	**3,748,871:84:0**
3790	96	355	16:42:56.600	127FO	NIMSTAB	GS	%%%%% GROUP START TAB	2R5	4	1	3,748,871:84:0
3791	**96**	**355**	**16:42:57.266**	**127FO4B**	**37ETB**	**,CD,02,00,00,05,**	**Loads wavelength edit table**	**2R5**	**4**	**1**	**3,748,871:85:0**
3792	96	355	16:43:05.266	127FO11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R5	4	1	3,748,872:06:0
3793	96	355	16:43:49.266	175FO422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,748,872:72:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
3794	96	355	16:43:52.600	117FO	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,748,872	77:0
3795	96	355	16:43:57.333		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC *3062.77 +/-	2R5	4	1	3,748,872	84:1
3796	96	355	16:43:58.600	175FO176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	3,748,872	86:0
3797	96	355	16:43:58.800		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *3062.65 +/-	2R5	4	1	3,748,872	86:3
3798	96	355	16:43:58.800		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC 3062.65 +/-	2R5	4	1	3,748,872	86:3
3799	**96**	**355**	**16:44:01.539**	**E4JNFEA16002-**	**NIMPBK**	**301DP**	**JUPITER CAMP. FEAT. 160 DEG. PHA**	**2R5**	**4**	**1**	**: :**	
3800	96	355	16:44:01.933	117FO105A106A4A	7STRP	0.00585,0.0,0,0,	Slew =,0.11	2R5	4	1	3,748,873	00:0
3801	96	355	16:44:55.933	117FO105A106A4B	7STRP	-0.006,0.008,0,0	Slew =12.01	2R5	4	1	3,748,873	81:0
3802	96	355	16:45:06.600	117FO105A106A4C	7STRP	0.00585,0.0,0,0,	Slew =,0.11	2R5	4	1	3,748,874	06:0
3803	**96**	**355**	**16:46:00.206**	**E4JNFEA16002-**	**DESELC**	**300DP**	**JUPITER CAMP. FEAT. 160 DEG. PHA**	**2R5**	**4**	**1**	**: :**	
3804	96	355	16:46:00.600	117FO11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,748,874	87:0
3805	**96**	**355**	**16:46:07.267**	**E4JNFEA16002-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**	
3806	96	355	16:46:11.933		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *3031.45 +/-	2R5	4	1	3,748,875	13:0
3807	96	355	16:46:11.933	175FO422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,748,875	13:0
3808	96	355	16:46:11.933	175FO6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,748,875	13:0
3809	**96**	**355**	**16:48:08.600**	**E4JNFEA16003-**		**-----START------**		**2R5**	**4**	**1**	**: :**	
3810	96	355	16:49:03.933	165FP4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,748,877	89:0
3811	96	355	16:49:04.600	165FP4B	7SCAN	NORM,95.910999,2	Check S/P Position	2R5	4	1	3,748,877	90:0
3812	96	355	16:50:01.266	127FP	NIMSTAB	GS	%%%%% GROUP START TAB	2R5	4	1	3,748,878	84:0
3813	**96**	**355**	**16:50:01.266**	**127FP4A**	**37IOP**	**5,1**	**Short Map, Grating Start Position =01**	**2R5**	**4**	**1**	**3,748,878**	**84:0**
3814	**96**	**355**	**16:50:01.933**	**127FP4B**	**37ETB**	**,CD,02,00,00,05,**	**Loads wavelength edit table**	**2R5**	**4**	**1**	**3,748,878**	**85:0**
3815	96	355	16:50:09.933	127FP11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R5	4	1	3,748,879	06:0
3816	96	355	16:50:53.933	175FP422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,748,879	72:0
3817	96	355	16:50:57.266	117FP	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,748,879	77:0
3818	96	355	16:51:02.000		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC *3032.78 +/-	2R5	4	1	3,748,879	84:1
3819	96	355	16:51:03.266	175FP176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	3,748,879	86:0
3820	96	355	16:51:03.466		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *3032.67 +/-	2R5	4	1	3,748,879	86:3
3821	96	355	16:51:03.466		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC 3032.67 +/-	2R5	4	1	3,748,879	86:3
3822	**96**	**355**	**16:51:06.205**	**E4JNFEA16003-**	**NIMPBK**	**301EA**	**JUPITER CAMP. FEAT. 160 DEG. PHA**	**2R5**	**4**	**1**	**: :**	
3823	96	355	16:51:06.600	117FP105A106A4A	7STRP	0.00475,0.0,0,0,	Slew =,0.11	2R5	4	1	3,748,880	00:0
3824	96	355	16:51:50.600	117FP105A106A4B	7STRP	-0.00475,0.008,0	Slew =12.01	2R5	4	1	3,748,880	66:0
3825	96	355	16:52:01.266	117FP105A106A4C	7STRP	0.00475,0.0,0,0,	Slew =,0.11	2R5	4	1	3,748,880	82:0
3826	**96**	**355**	**16:52:44.872**	**E4JNFEA16003-**	**DESELC**	**300EA**	**JUPITER CAMP. FEAT. 160 DEG. PHA**	**2R5**	**4**	**1**	**: :**	
3827	96	355	16:52:45.266	117FP11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,748,881	57:0
3828	96	355	16:52:56.600	175FP6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,748,881	74:0
3829	96	355	16:52:56.600		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *3006.15 +/-	2R5	4	1	3,748,881	74:0
3830	96	355	16:52:56.600	175FP422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,748,881	74:0
3831	**96**	**355**	**16:53:06.599**	**E4JNFEA16003-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**	
3832	96	355	16:54:07.266	165AV4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,748,882	89:0
3833	96	355	16:54:07.933	165AV4B	7SCAN	NORM,91.879999,2	Check S/P Position	2R5	4	1	3,748,882	90:0
3834	**96**	**355**	**16:55:07.933**	**432H6A**	**6RTDS2**	**NIMNCG,AACNCG,RT**	**R/T ENG DESLECT**	**2R5**	**4**	**1**	**3,748,883**	**89:0**
3835	96	355	17:00:00.600	481UC4A	7VECT		Inert vect update UTC	2R5	4	1	3,748,888	73:0
3836	**96**	**355**	**17:07:21.266**	**E4RNMRING_01-**		**-----START------**		**2R5**	**4**	**1**	**: :**	
3837	96	355	17:08:16.600	165FM4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,748,896	89:0
3838	96	355	17:08:17.266	165FM4B	7SCAN	NORM,88.068999,2	Check S/P Position	2R5	4	1	3,748,896	90:0
3839	**96**	**355**	**17:10:14.600**	**125FM4A**	**37IST**	**0,2,0,OFF,0,1,1**	**Gain State 4**	**4R5**	**4**	**1**	**3,748,898**	**84:0**
3840	96	355	17:10:14.600	125FM	NIMSINIT	GS	##### GROUP START INIT	4R5	4	1	3,748,898	84:0
3841	96	355	17:10:14.600	125FM11A	NIMSINIT	GE	##### GROUP END INIT	4R5	4	1	3,748,898	84:0
3842	96	355	17:11:15.266	127FM	NIMSTAB	GS	%%%%% GROUP START TAB	4R5	4	1	3,748,899	84:0
3843	**96**	**355**	**17:11:15.266**	**127FM4A**	**37IOP**	**1,0**	**Full Map, Grating Start Position =00**	**4R1**	**4**	**0**	**3,748,899**	**84:0**
3844	**96**	**355**	**17:11:15.933**	**127FM4B**	**37ETB**		**Loads wavelength edit table**	**4R1**	**4**	**0**	**3,748,899**	**85:0**
3845	96	355	17:11:23.933	127FM11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R1	4	0	3,748,900	06:0
3846	96	355	17:12:07.933	175FM422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R1	4	0	3,748,900	72:0
3847	96	355	17:12:11.266	117FM	**CSMOS**	GS	***** GROUP START CSMOS	4R1	4	0	3,748,900	77:0
3848	96	355	17:12:16.000		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC *3007.48 +/-	4R1	4	0	3,748,900	84:1

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
3849	96	355	17:12:17.266	175FM176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	4R1	4	0	3,748,900:86:0
3850	96	355	17:12:17.466		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC 3007.37 +/-	4R1	4	0	3,748,900:86:3
3851	96	355	17:12:17.466		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *3007.37 +/-	4R1	4	0	3,748,900:86:3
3852	96	355	17:12:20.600	117FM105A106A4A	7STRP	-0.054855,0.0120	Slew =,0.03	4R1	4	0	3,748,901:00:0
3853	**96**	**355**	**17:12:20.872**	**E4RNMRING 01-**	**NIMPBK**	**301DG**	**MAIN RING OBSERVATION**	**4R1**	**4**	**0**	**: :**
3854	**96**	**355**	**17:13:21.538**	**E4RNMRING 01-**	**DESELC**	**300DG**	**MAIN RING OBSERVATION**	**4R1**	**4**	**0**	**: :**
3855	**96**	**355**	**17:16:22.871**	**E4RNMRING 01-**	**NIMPBK**	**301DJ**	**MAIN RING OBSERVATION**	**4R1**	**4**	**0**	**: :**
3856	**96**	**355**	**17:17:24.204**	**E4RNMRING 01-**	**DESELC**	**300DJ**	**MAIN RING OBSERVATION**	**4R1**	**4**	**0**	**: :**
3857	96	355	17:42:53.266	117FM11A	**CSMOS**	GE	***** GROUP END CSMOS	4R1	4	0	3,748,931:19:0
3858	96	355	17:43:04.600	175FM422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R1	4	0	3,748,931:36:0
3859	96	355	17:43:04.600	175FM6A	6TMREC	**NRC**	NO RECORD Record Mode Change	4R1	4	0	3,748,931:36:0
3860	96	355	17:43:04.600		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *2574.44 +/-	4R1	4	0	3,748,931:36:0
3861	**96**	**355**	**17:43:11.266**	**E4RNMRING_01-**		**-----STOP-------**		**4R1**	**4**	**0**	**: :**
3862	**96**	**355**	**17:46:47.333**	**E4NNCHOPOF01-**		**-----START------**		**4R1**	**4**	**0**	**: :**
3863	**96**	**355**	**17:47:39.266**	**127DX4A**	**37IOP**	**0,0**	**Safe, Grating Start Position =00**	**4R0**	**4**	**0**	**3,748,935:84:0**
3864	96	355	17:47:39.266	127DX	NIMSTAB	GS	%%%%% GROUP START TAB	4R0	4	0	3,748,935:84:0
3865	**96**	**355**	**17:47:39.933**	**127DX4B**	**37ETB**	**04,C4,02,00,00**	**Loads wavelength edit table**	**4R0**	**4**	**0**	**3,748,935:85:0**
3866	96	355	17:47:43.933	411JG6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R0	4	0	3,748,936:00:0
3867	96	355	17:47:47.933	127DX11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R0	4	0	3,748,936:06:0
3868	96	355	17:47:52.000		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC *2575.78 +/-	4R0	4	0	3,748,936:12:1
3869	96	355	17:47:53.466		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *2575.66 +/-	4R0	4	0	3,748,936:14:3
3870	96	355	17:47:53.466		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC 2575.66 +/-	4R0	4	0	3,748,936:14:3
3871	96	355	17:47:53.933	411JG6B	6TMREC	BDT	7.68 KBPS BUFFER DUMP TO TAPE Record Mode	4R0	4	0	3,748,936:15:0
3872	**96**	**355**	**17:49:40.600**	**125FZ4A**	**37MB**	**0,0,0,0,0,0**	**Selects mirror (spatial) edit table**	**4R0**	**4**	**0**	**3,748,937:84:0**
3873	96	355	17:49:40.600	125FZ	NIMSINIT	GS	##### GROUP START INIT	4R0	4	0	3,748,937:84:0
3874	96	355	17:49:55.266	411JG6C	6TMREC	**NRC**	NO RECORD Record Mode Change	4R0	4	0	3,748,938:15:0
3875	96	355	17:49:57.933	175TK176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	4R0	4	0	3,748,938:19:0
3876	96	355	17:49:58.600	175TK422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R0	4	0	3,748,938:20:0
3877	96	355	17:50:05.266		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *2544.77 +/-	4R0	4	0	3,748,938:30:0
3878	96	355	17:50:05.266	175TK422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R0	4	0	3,748,938:30:0
3879	**96**	**355**	**17:50:41.266**	**125FZ4B**	**37IST**	**1,0,0,OFF,0,0,0**	**Chopper ON, Sync, 63Hz (Ref)**	**460**	**4**	**0**	**3,748,938:84:0**
3880	96	355	17:51:41.933	125FZ11A	NIMSINIT	GE	##### GROUP END INIT	460	4	0	3,748,939:84:0
3881	**96**	**355**	**17:51:41.933**	**125FZ4C**	**37IST**	**1,1,0,OFF,0,0,0**	**Chopper OFF, N/A, 63Hz (Ref)**	**4O0**	**4**	**0**	**3,748,939:84:0**
3882	96	355	17:54:59.933	41VC99A	**POWER**	PWR MODE change	Change to Maneuver Mode	4O0	4	0	3,748,943:17:0
3883	**96**	**355**	**17:55:03.933**	**41VC3K**	**37F2PR**	**1**	**Shield Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,748,943:23:0**
3884	**96**	**355**	**17:55:13.933**	**41VC3L**	**37F2PR**	**2**	**Shield Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,748,943:38:0**
3885	**96**	**355**	**17:55:53.333**	**E4JNSCITRN01-**		**-----STOP-------**		**4O0**	**4**	**0**	**: :**
3886	**96**	**355**	**17:56:54.000**	**E4NNCHOPOF01-**		**-----STOP-------**		**4O0**	**4**	**0**	**: :**
3887	**96**	**355**	**17:57:23.933**	**41VC3G**	**40T1P**	**1**	**PCT Heater 1 ON (primary relay)**	**4O0**	**4**	**0**	**3,748,945:51:0**
3888	**96**	**355**	**17:57:33.933**	**41VC3H**	**40T1P**	**2**	**PCT Heater 1 ON (primary relay)**	**4O0**	**4**	**0**	**3,748,945:66:0**
3889	**96**	**355**	**17:57:43.933**	**41VC3I**	**40T2**	**1**	**PCT Heater 2 ON**	**4O0**	**4**	**0**	**3,748,945:81:0**
3890	**96**	**355**	**17:57:53.933**	**41VC3J**	**40T2**	**2**	**PCT Heater 2 ON**	**4O0**	**4**	**0**	**3,748,946:05:0**
3891	96	355	18:10:01.933	490UB412A4B	**7MODE**	**INT**	AACS INERTIAL MODE	4O0	4	0	3,748,958:05:0
3892	96	355	18:14:59.933	490UB412A4D	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	4O0	4	0	3,748,962:88:0
3893	96	355	18:19:09.933	490UB412A4E	7VECT	RTH	Inert vect update UTC	4O0	4	0	3,748,967:08:0
3894	96	355	18:19:13.933	490UB412A4F	7TURN	1,RTH	ALERT Thruster	4O0	4	0	3,748,967:14:0
3895	96	355	18:23:01.933	490UB412A406A4A	7STAR	1,3000,95.710999	Star catalog update	4O0	4	0	3,748,970:83:0
3896	96	355	18:23:03.933	490UB412A406A4B	7STAR	2,131,322.01	Star catalog update	4O0	4	0	3,748,970:86:0
3897	96	355	18:23:05.933	490UB412A406A4C	7STAR	3,396,206.39	Star catalog update	4O0	4	0	3,748,970:89:0
3898	96	355	18:23:07.933	490UB412A406A4D	7STAR	4,0,0.0,0.0	Star catalog update	4O0	4	0	3,748,971:01:0
3899	96	355	18:23:09.933	490UB412A406A4E	7STAR	5,0,0.0,0.0	Star catalog update	4O0	4	0	3,748,971:04:0
3900	96	355	18:23:11.933	490UB412A406A4F	7STAR	6,0,0.0,0.0	Star catalog update	4O0	4	0	3,748,971:07:0
3901	**96**	**355**	**18:34:14.600**	**432I6A**	**6RTSL2**	**NIMNCG,AACNCG,RT**	**R/T ENG SELECT**	**4O0**	**4**	**0**	**3,748,982:00:0**
3902	96	355	19:20:40.600	488Y6A	6TMSED	NORM,BL2	Sci, Eng, and D/L Chan	4O0	4	0	3,749,027:84:0
3903	96	355	20:26:33.933	488Y6B	6TMSED	NORM,BL3	Sci, Eng, and D/L Chan	4O0	4	0	3,749,093:08:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
3904	96	355	20:27:59.933	41WC99A	**POWER**	PWR MODE change	Change to Playback Mode	4O0	4	0	3,749,094:46:0	
3905	**96**	**355**	**20:28:03.933**	**41WC3I**	**40T1PR**	**1**	**PCT Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**3,749,094:52:0**	
3906	**96**	**355**	**20:28:13.933**	**41WC3J**	**40T1PR**	**2**	**PCT Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**3,749,094:67:0**	
3907	**96**	**355**	**20:28:23.933**	**41WC3K**	**40T2R**	**1**	**PCT Heater 2 OFF**	**4O0**	**4**	**0**	**3,749,094:82:0**	
3908	**96**	**355**	**20:28:33.933**	**41WC3L**	**40T2R**	**2**	**PCT Heater 2 OFF**	**4O0**	**4**	**0**	**3,749,095:06:0**	
3909	**96**	**355**	**20:30:43.933**	**41WC3G**	**37F2P**	**1**	**Shield Flash Heater ON (primary relay)**	**4O0**	**4**	**0**	**3,749,097:19:0**	
3910	**96**	**355**	**20:30:53.933**	**41WC3H**	**37F2P**	**2**	**Shield Flash Heater ON (primary relay)**	**4O0**	**4**	**0**	**3,749,097:34:0**	
3911	**96**	**355**	**20:31:03.933**	**33B3A**	**37F2PR**	**1**	**Shield Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,749,097:49:0**	
3912	**96**	**355**	**20:31:13.933**	**33C3A**	**40T1P**	**1**	**PCT Heater 1 ON (primary relay)**	**4O0**	**4**	**0**	**3,749,097:64:0**	
3913	**96**	**355**	**20:31:23.933**	**33D3A**	**40T2**	**1**	**PCT Heater 2 ON**	**4O0**	**4**	**0**	**3,749,097:79:0**	
3914	96	355	20:39:59.266	432OF431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	4O0	4	0	3,749,106:33:0	
3915	96	355	20:39:59.933	432OF6A	6RTSL1		R/T Select of DDS and	4O0	4	0	3,749,106:34:0	
3916	96	355	20:58:33.933	488Y6C	6TMSED	NORM,BL4	Sci, Eng, and D/L Chan	4O0	4	0	3,749,124:67:0	
3917	96	355	20:59:59.933	488Y6D	6TMSED	NORM,EL4	Sci, Eng, and D/L Chan	4O0	4	0	3,749,126:14:0	
3918	96	355	22:16:55.266	488Y6E	6TMSED	FILL,EL4	Sci, Eng, and D/L Chan	4O0	4	0	3,749,202:21:0	
3919	96	355	22:46:53.933	488Z6A	6TMSED	NORM,EL4	Sci, Eng, and D/L Chan	4O0	4	0	3,749,231:80:0	
3920	96	355	23:08:41.933	488Z6B	6TMSED	NORM,EL5	Sci, Eng, and D/L Chan	4O0	4	0	3,749,253:40:0	
3921	96	356	00:12:41.933	488Z6C	6TMSED	NORM,EL4	Sci, Eng, and D/L Chan	4O0	4	0	3,749,316:67:0	
3922	96	356	00:59:59.933	488Z6D	6TMSED	NORM,DL4	Sci, Eng, and D/L Chan	4O0	4	0	3,749,363:47:0	
3923	96	356	02:54:34.600	175GA422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4O0	4	0	3,749,476:76:0	
3924	96	356	02:54:42.666		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC *2546.10 +/-	4O0	4	0	3,749,476:88:1	
3925	96	356	02:54:43.933	175GA176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	4O0	4	0	3,749,476:90:0	
3926	96	356	02:54:44.133		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC 2545.99 +/-	4O0	4	0	3,749,476:90:3	
3927	96	356	02:54:44.133		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *2545.99 +/-	4O0	4	0	3,749,476:90:3	
3928	96	356	02:55:34.600		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *2534.16 +/-	4O0	4	0	3,749,477:75:0	
3929	96	356	02:55:34.600	175GA422A6B	6DMSC	RDY,0	DMS Control Tape stop	4O0	4	0	3,749,477:75:0	
3930	96	356	05:56:43.266	165CP4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4O0	4	0	3,749,656:89:0	
3931	96	356	05:56:43.933	165CP4B	7SCAN	NORM,305.654999,	Check S/P Position	4O0	4	0	3,749,656:90:0	
3932	96	356	06:00:37.933	117CA	**CSMOS**	GS	***** GROUP START CSMOS	4O0	4	0	3,749,660:77:0	
3933	96	356	06:00:47.266	117CA105A106A4A	7STRP	0.00873,0.0,0,0,	Slew =,0.01	4O0	4	0	3,749,661:00:0	
3934	96	356	06:15:57.266	117CA11A	**CSMOS**	GE	***** GROUP END CSMOS	4O0	4	0	3,749,676:00:0	
3935	96	356	06:20:05.266	20KC4A	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	4O0	4	0	3,749,680:08:0	
3936	96	356	06:29:59.933	444UB443A4A	**7MODE**	**CRU**	AACS CRUISE MODE	4O0	4	0	3,749,689:81:0	
3937	96	356	06:56:03.933	20UA4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	4O0	4	0	3,749,715:61:0	
3938	96	356	06:56:53.933	20UA4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	3,749,716:45:0	
3939	96	356	07:12:57.933	488AA6A	6TMSED	NORM,DL2	Sci, Eng, and D/L Chan	4O0	4	0	3,749,732:35:0	
3940	96	356	08:14:59.933	488AA6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,749,793:67:0	
3941	96	356	08:21:29.933	488AA6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,749,800:15:0	
3942	96	356	08:23:21.933	488AA6D	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,749,802:01:0	
3943	96	356	09:56:23.933	488AA6E	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,749,894:02:0	
3944	96	356	10:54:49.866	488AB6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,749,951:74:0	
3945	96	356	14:29:22.533	411JE6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4O0	4	0	3,750,164:00:0	
3946	96	356	14:29:30.600		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC *2535.49 +/-	4O0	4	0	3,750,164:12:1	
3947	96	356	14:29:32.066		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *2535.37 +/-	4O0	4	0	3,750,164:14:3	
3948	96	356	14:29:32.066		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC 2535.37 +/-	4O0	4	0	3,750,164:14:3	
3949	96	356	14:29:32.533	411JE6B	6TMREC	BDT	7.68 KBPS BUFFER DUMP TO TAPE Record Mode	4O0	4	0	3,750,164:15:0	
3950	96	356	14:31:33.866	411JE6C	6TMREC	**NRC**	NO RECORD Record Mode Change	4O0	4	0	3,750,166:15:0	
3951	96	356	14:31:36.533	175TL176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	4O0	4	0	3,750,166:19:0	
3952	96	356	14:31:37.200	175TL422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4O0	4	0	3,750,166:20:0	
3953	96	356	14:31:43.866		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *2504.48 +/-	4O0	4	0	3,750,166:30:0	
3954	96	356	14:31:43.866	175TL422A6B	6DMSC	RDY,0	DMS Control Tape stop	4O0	4	0	3,750,166:30:0	
3955	96	356	15:08:41.866	488AB6B	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,750,202:81:0	
3956	**96**	**356**	**15:32:02.533**	**432J6A**	**6RTDS2**	**NIMNCG,AACNCG,RT**	**R/T ENG DESLECT**	**4O0**	**4**	**0**	**3,750,225:89:0**	
3957	96	356	15:33:09.866	488AB6C	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,750,227:08:0	
3958	96	356	17:38:01.866	488AC6A	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,750,350:53:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
3959	**96**	**356**	**18:29:00.533**	**432SA6A**	**6RTSL2**	**NIMNCG,AACNCG,RT**	**R/T ENG SELECT**	**4O0**	**4**	**0**	**3,750,401:00:0**
3960	96	356	18:59:19.200	432JP6B	6RTDS2	NIMNCG,AACDSL,RT	AACS DESELECT	4O0	4	0	3,750,430:89:0
3961	96	356	19:01:21.866	411WA6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4O0	4	0	3,750,433:00:0
3962	96	356	19:01:29.933		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC *2505.82 +/-	4O0	4	0	3,750,433:12:1
3963	96	356	19:01:31.400		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *2505.70 +/-	4O0	4	0	3,750,433:14:3
3964	96	356	19:01:31.400		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC 2505.70 +/-	4O0	4	0	3,750,433:14:3
3965	96	356	19:01:31.866	411WA6B	6TMREC	BDT	7.68 KBPS BUFFER DUMP TO TAPE Record Mode	4O0	4	0	3,750,433:15:0
3966	96	356	19:03:33.200	411WA6C	6TMREC	**NRC**	NO RECORD Record Mode Change	4O0	4	0	3,750,435:15:0
3967	96	356	19:03:35.866	175TM176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	4O0	4	0	3,750,435:19:0
3968	96	356	19:03:36.533	175TM422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4O0	4	0	3,750,435:20:0
3969	96	356	19:03:43.200	175TM422A6B	6DMSC	RDY,0	DMS Control Tape stop	4O0	4	0	3,750,435:30:0
3970	96	356	19:03:43.200		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *2474.81 +/-	4O0	4	0	3,750,435:30:0
3971	96	356	20:26:33.866	488AC6B	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,750,517:24:0
3972	96	356	20:45:20.533	175GB422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4O0	4	0	3,750,535:76:0
3973	96	356	20:45:28.600		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC *2476.14 +/-	4O0	4	0	3,750,535:88:1
3974	96	356	20:45:29.866	175GB176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	4O0	4	0	3,750,535:90:0
3975	96	356	20:45:30.066		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *2476.02 +/-	4O0	4	0	3,750,535:90:3
3976	96	356	20:45:30.066		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC 2476.02 +/-	4O0	4	0	3,750,535:90:3
3977	96	356	20:46:10.533	175GB422A6B	6DMSC	RDY,0	DMS Control Tape stop	4O0	4	0	3,750,536:60:0
3978	96	356	20:46:10.533		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *2466.54 +/-	4O0	4	0	3,750,536:60:0
3979	96	356	20:57:38.533	465KH6A	6DMSC	RDY,2	DMS Control Tape stop	4O0	4	0	3,750,548:00:0
3980	96	356	20:58:33.866	488AC6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,750,548:83:0
3981	96	356	20:59:43.200	176WA6A	6TMREC	IPB	INITIATE PLAYBACK (PB CONTROL) Record Mod	4O0	4	0	3,750,550:05:0
3982	**96**	**356**	**21:17:50.533**	**432SB6A**	**6RTDS2**	**NIMNCG,AACNCG,RT**	**R/T ENG DESLECT**	**4O0**	**4**	**0**	**3,750,567:89:0**
3983	96	356	22:30:17.866	488AC6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	3,750,639:58:0
3984	96	357	00:08:25.866	488AD6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,750,736:63:0
3985	**96**	**357**	**00:29:58.533**	**432K6A**	**6RTSL2**	**NIMNCG,AACNCG,RT**	**R/T ENG SELECT**	**4O0**	**4**	**0**	**3,750,758:00:0**
3986	96	357	02:09:24.533	488AD6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,750,856:31:0
3987	96	357	07:12:57.866	488AE6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,751,156:51:0
3988	96	357	08:12:41.866	488AE6B	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,751,215:58:0
3989	96	357	08:18:03.200	488AE6C	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,751,220:85:0
3990	96	357	10:16:19.866	488AE6D	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,751,337:83:0
3991	96	357	12:44:05.866	176WB6A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	4O0	4	0	3,751,484:05:0
3992	96	357	12:59:59.866		DMS:	: READY	RDY, TRACK 2, REV, TIC 2466.48 +/-	4O0	4	0	3,751,499:71:0
3993	**96**	**357**	**13:00:00.000**	**20A3EX**	**37HR**	**Final Condition**	**Replacement Heaters OFF**	**4O0**	**4**	**0**	**3,751,499:71:2**
3994	**96**	**357**	**13:00:00.000**	**20A3EY**	**37C1PR**	**Final Condition**	**Optics Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**3,751,499:71:2**
3995	**96**	**357**	**13:00:00.000**	**20A3EZ**	**37C2PR**	**Final Condition**	**Optics Heater 2 OFF (primary relay)**	**4O0**	**4**	**0**	**3,751,499:71:2**
3996	**96**	**357**	**13:00:00.000**	**20A3FA**	**37F1PR**	**Final Condition**	**Radiator Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,751,499:71:2**
3997	**96**	**357**	**13:00:00.000**	**20A3FB**	**37F2P**	**Final Condition**	**Shield Flash Heater ON (primary relay)**	**4O0**	**4**	**0**	**3,751,499:71:2**
3998	**96**	**357**	**13:00:00.000**	**20A3FD**	**40HRPR**	**Final Condition**	**RCT Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,751,499:71:2**
3999	**96**	**357**	**13:00:00.000**	**20A3FE**	**40T1PR**	**Final Condition**	**PCT Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**3,751,499:71:2**
4000	**96**	**357**	**13:00:00.000**	**20A3FF**	**40T2R**	**Final Condition**	**PCT Heater 2 OFF**	**4O0**	**4**	**0**	**3,751,499:71:2**
4001	**96**	**357**	**13:00:00.000**	**20A3EW**	**37A**	**Final Condition**	**NIMS Power ON**	**4O0**	**4**	**0**	**3,751,499:71:2**

			Sequence:	E04B-AR		Created: 3/10/97	Begin: 96-357/13:00:00 Finish: 97-034/15:30:00				
Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
1	96	357	12:59:59.866		DMS:	: READY	RDY, TRACK 2, REV, TIC 526.00 +/-	4O0	4	0	3,751,499:71:0
2	**96**	**357**	**13:00:00.000**	**20A3FE**	**40T1PR**	**Initial Condition**	**PCT Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**3,751,499:71:2**
3	**96**	**357**	**13:00:00.000**	**20A3FF**	**40T2R**	**Initial Condition**	**PCT Heater 2 OFF**	**4O0**	**4**	**0**	**3,751,499:71:2**
4	**96**	**357**	**13:00:00.000**	**20A3EW**	**37A**	**Initial Condition**	**NIMS Power ON**	**4O0**	**4**	**0**	**3,751,499:71:2**
5	**96**	**357**	**13:00:00.000**	**20A3EX**	**37HR**	**Initial Condition**	**Replacement Heaters OFF**	**4O0**	**4**	**0**	**3,751,499:71:2**
6	**96**	**357**	**13:00:00.000**	**20A3EY**	**37C1PR**	**Initial Condition**	**Optics Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**3,751,499:71:2**
7	**96**	**357**	**13:00:00.000**	**20A3EZ**	**37C2PR**	**Initial Condition**	**Optics Heater 2 OFF (primary relay)**	**4O0**	**4**	**0**	**3,751,499:71:2**
8	**96**	**357**	**13:00:00.000**	**20A3FA**	**37F1PR**	**Initial Condition**	**Radiator Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,751,499:71:2**
9	**96**	**357**	**13:00:00.000**	**20A3FB**	**37F2P**	**Initial Condition**	**Shield Flash Heater ON (primary relay)**	**4O0**	**4**	**0**	**3,751,499:71:2**
10	**96**	**357**	**13:00:00.000**	**20A3FD**	**40HRPR**	**Initial Condition**	**RCT Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,751,499:71:2**
11	96	357	13:00:41.866	488A6A	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,751,500:43:0
12	96	357	13:02:49.866	488A6B	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,751,502:53:0
13	**96**	**357**	**13:02:49.866**	**432B6A**	**6RTSL2**	**NIMNCG,AACNCG,RT**	**R/T ENG SELECT**	**4O0**	**4**	**0**	**3,751,502:53:0**
14	96	357	13:03:59.866	444UD443A4A	**7MODE**	**CRU**	AACS CRUISE MODE	4O0	4	0	3,751,503:67:0
15	**96**	**357**	**13:04:14.533**	**432LA6B**	**6RTDS2**	**NIMNCG,AACDSL,RT**	**AACS DESELECT**	**4O0**	**4**	**0**	**3,751,503:89:0**
16	96	357	13:09:59.866	481UA4A	7VECT		Inert vect update UTC	4O0	4	0	3,751,509:61:0
17	96	357	13:18:03.200	488A6C	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,751,517:58:0
18	96	357	13:19:59.866	41UA99A	**POWER**	**PWR MODE change**	Change to Playback Mode	4O0	4	0	3,751,519:51:0
19	**96**	**357**	**13:20:03.866**	**41UA3I**	**40T1PR**	**1**	**PCT Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**3,751,519:57:0**
20	**96**	**357**	**13:20:13.866**	**41UA3J**	**40T1PR**	**2**	**PCT Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**3,751,519:72:0**
21	**96**	**357**	**13:20:23.866**	**41UA3K**	**40T2R**	**1**	**PCT Heater 2 OFF**	**4O0**	**4**	**0**	**3,751,519:87:0**
22	**96**	**357**	**13:20:33.866**	**41UA3L**	**40T2R**	**2**	**PCT Heater 2 OFF**	**4O0**	**4**	**0**	**3,751,520:11:0**
23	**96**	**357**	**13:22:43.866**	**41UA3G**	**37F2P**	**1**	**Shield Flash Heater ON (primary relay)**	**4O0**	**4**	**0**	**3,751,522:24:0**
24	**96**	**357**	**13:22:53.866**	**41UA3H**	**37F2P**	**2**	**Shield Flash Heater ON (primary relay)**	**4O0**	**4**	**0**	**3,751,522:39:0**
25	**96**	**357**	**13:23:03.866**	**33A3A**	**37F2PR**	**1**	**Shield Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,751,522:54:0**
26	**96**	**357**	**13:23:13.866**	**33B3A**	**40T1P**	**1**	**PCT Heater 1 ON (primary relay)**	**4O0**	**4**	**0**	**3,751,522:69:0**
27	**96**	**357**	**13:23:23.866**	**33C3A**	**40T2**	**1**	**PCT Heater 2 ON**	**4O0**	**4**	**0**	**3,751,522:84:0**
28	96	357	13:30:03.866	20XA4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	4O0	4	0	3,751,529:47:0
29	96	357	13:30:53.866	20XA4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	3,751,530:31:0
30	96	357	13:32:34.533	176A6A	6TMREC	**RPB**	**RESUME PLAYBACK (PB CONTROL) Record Mode**	4O0	4	0	3,751,532:00:0
31	96	357	19:58:01.133	488B6A	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,751,913:19:0
32	96	357	20:26:33.800	488B6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,751,941:40:0
33	96	357	20:58:33.800	488B6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,751,973:08:0
34	96	357	22:12:04.466	488B6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,752,045:72:0
35	96	357	22:34:33.800	488B6E	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	3,752,068:03:0
36	96	357	22:39:37.133	488C6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	3,752,073:03:0
37	96	358	00:19:05.800	488C6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,752,171:38:0
38	96	358	06:29:45.133	176N6A	6TMREC	**PPB**	**PAUSE PLAYBACK (PB CONTROL) Record Mode C**	4O0	4	0	3,752,538:00:0
39	96	358	06:30:59.800	41VD99A	**POWER**	**PWR MODE change**	Change to Maneuver Mode	4O0	4	0	3,752,539:21:0
40	**96**	**358**	**06:31:03.800**	**41VD3K**	**37F2PR**	**1**	**Shield Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,752,539:27:0**
41	**96**	**358**	**06:31:13.800**	**41VD3L**	**37F2PR**	**2**	**Shield Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,752,539:42:0**
42	**96**	**358**	**06:33:23.800**	**41VD3G**	**40T1P**	**1**	**PCT Heater 1 ON (primary relay)**	**4O0**	**4**	**0**	**3,752,541:55:0**
43	**96**	**358**	**06:33:33.800**	**41VD3H**	**40T1P**	**2**	**PCT Heater 1 ON (primary relay)**	**4O0**	**4**	**0**	**3,752,541:70:0**
44	**96**	**358**	**06:33:43.800**	**41VD3I**	**40T2**	**1**	**PCT Heater 2 ON**	**4O0**	**4**	**0**	**3,752,541:85:0**
45	**96**	**358**	**06:33:53.800**	**41VD3J**	**40T2**	**2**	**PCT Heater 2 ON**	**4O0**	**4**	**0**	**3,752,542:09:0**
46	96	358	06:42:19.800	20YC4B	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	4O0	4	0	3,752,550:40:0
47	96	358	07:01:19.800	20YC4D	**7MODE**	**INT**	AACS INERTIAL MODE	4O0	4	0	3,752,569:21:0
48	96	358	07:05:52.466	488D6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,752,573:66:0
49	96	358	07:08:41.800	488D6B	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,752,576:47:0
50	96	358	10:36:59.800	20BA6A	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,752,782:48:0
51	96	358	11:39:59.800	474AA416A4B	**7MODE**	**INT**	AACS INERTIAL MODE	4O0	4	0	3,752,844:76:0
52	96	358	11:41:59.800	474AA416A4D	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	4O0	4	0	3,752,846:74:0
53	96	358	11:46:13.800	474AA416A4E	7BURN	AT,217.7106,36.5	ALERT -- Thruster fire	4O0	4	0	3,752,851:00:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
54	96	358	11:49:59.800	20BA6B	6TMSED	NORM,AH1	Sci, Eng, and D/L Chan	4O0	4	0	3,752,854:66:0	
55	96	358	12:54:41.800	474AA416A4I	7BURN	AT,217.7106,36.5	ALERT -- Thruster fire	4O0	4	0	3,752,918:65:0	
56	96	358	14:24:49.800	474AA416A4P	**7MODE**	**CRU**	AACS CRUISE MODE	4O0	4	0	3,753,007:78:0	
57	96	358	14:59:59.800	20BA6C	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,753,042:58:0	
58	96	358	15:07:59.800	20BA6D	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,753,050:50:0	
59	96	358	18:06:59.800	20BA6E	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,753,227:53:0	
60	96	358	18:44:59.800	444UE443A4A	**7MODE**	**CRU**	AACS CRUISE MODE	4O0	4	0	3,753,265:15:0	
61	96	358	18:49:59.800	41UB99A	**POWER**	**PWR MODE change**	Change to Playback Mode	4O0	4	0	3,753,270:10:0	
62	96	358	18:49:59.800	488E6A	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,753,270:10:0	
63	**96**	**358**	**18:50:03.800**	**41UB3I**	**40T1PR**	**1**	**PCT Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**3,753,270:16:0**	
64	**96**	**358**	**18:50:13.800**	**41UB3J**	**40T1PR**	**2**	**PCT Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**3,753,270:31:0**	
65	**96**	**358**	**18:50:23.800**	**41UB3K**	**40T2R**	**1**	**PCT Heater 2 OFF**	**4O0**	**4**	**0**	**3,753,270:46:0**	
66	**96**	**358**	**18:50:33.800**	**41UB3L**	**40T2R**	**2**	**PCT Heater 2 OFF**	**4O0**	**4**	**0**	**3,753,270:61:0**	
67	**96**	**358**	**18:52:43.800**	**41UB3G**	**37F2P**	**1**	**Shield Flash Heater ON (primary relay)**	**4O0**	**4**	**0**	**3,753,272:74:0**	
68	**96**	**358**	**18:52:53.800**	**41UB3H**	**37F2P**	**2**	**Shield Flash Heater ON (primary relay)**	**4O0**	**4**	**0**	**3,753,272:89:0**	
69	**96**	**358**	**18:53:03.133**	**33D3A**	**37F2PR**	**1**	**Shield Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,753,273:12:0**	
70	**96**	**358**	**18:53:13.133**	**33E3A**	**40T1P**	**1**	**PCT Heater 1 ON (primary relay)**	**4O0**	**4**	**0**	**3,753,273:27:0**	
71	**96**	**358**	**18:53:23.133**	**33F3A**	**40T2**	**1**	**PCT Heater 2 ON**	**4O0**	**4**	**0**	**3,753,273:42:0**	
72	96	358	19:00:03.800	20XB4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	4O0	4	0	3,753,280:06:0	
73	96	358	19:00:53.800	20XB4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	3,753,280:81:0	
74	96	358	19:02:01.133	176AH6A	6TMREC	**RPB**	**RESUME PLAYBACK (PB CONTROL) Record Mode**	4O0	4	0	3,753,282:00:0	
75	96	358	19:08:53.133	488E6B	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,753,288:72:0	
76	96	358	19:47:31.133	176Q6A	6TMREC	**PPB**	**PAUSE PLAYBACK (PB CONTROL) Record Mode C**	4O0	4	0	3,753,327:00:0	
77	96	358	19:49:59.800	41VE99A	**POWER**	**PWR MODE change**	Change to Maneuver Mode	4O0	4	0	3,753,329:41:0	
78	**96**	**358**	**19:50:03.800**	**41VE3K**	**37F2PR**	**1**	**Shield Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,753,329:47:0**	
79	**96**	**358**	**19:50:13.800**	**41VE3L**	**37F2PR**	**2**	**Shield Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,753,329:62:0**	
80	**96**	**358**	**19:52:23.800**	**41VE3G**	**40T1P**	**1**	**PCT Heater 1 ON (primary relay)**	**4O0**	**4**	**0**	**3,753,331:75:0**	
81	**96**	**358**	**19:52:33.800**	**41VE3H**	**40T1P**	**2**	**PCT Heater 1 ON (primary relay)**	**4O0**	**4**	**0**	**3,753,331:90:0**	
82	**96**	**358**	**19:52:43.800**	**41VE3I**	**40T2**	**1**	**PCT Heater 2 ON**	**4O0**	**4**	**0**	**3,753,332:14:0**	
83	**96**	**358**	**19:52:53.800**	**41VE3J**	**40T2**	**2**	**PCT Heater 2 ON**	**4O0**	**4**	**0**	**3,753,332:29:0**	
84	96	358	19:52:59.800	488E6C	6TMSED	FILL,AH1	Sci, Eng, and D/L Chan	4O0	4	0	3,753,332:38:0	
85	96	358	20:01:59.800	20XY4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	3,753,341:29:0	
86	96	358	20:02:59.800	20XY4D	**7MODE**	**SPNL**	AACS ALL-SPIN LOW	4O0	4	0	3,753,342:28:0	
87	96	358	20:04:59.800	20XY4E	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	4O0	4	0	3,753,344:26:0	
88	96	358	20:10:29.800	20XY4G	7VENT	0.611,1.333,8	ALERT -- Thruster fire	4O0	4	0	3,753,349:66:0	
89	96	358	20:10:30.466	20XY4H	7VENT	0.611,10.989,8	ALERT -- Thruster fire	4O0	4	0	3,753,349:67:0	
90	96	358	20:10:50.466	20XY4I	7VENT	0.611,1.333,6	ALERT -- Thruster fire	4O0	4	0	3,753,350:06:0	
91	96	358	20:10:51.133	20XY4J	7VENT	0.611,10.989,6	ALERT -- Thruster fire	4O0	4	0	3,753,350:07:0	
92	96	358	20:11:11.133	20XY4K	7VENT	0.611,1.333,4	ALERT -- Thruster fire	4O0	4	0	3,753,350:37:0	
93	96	358	20:11:11.800	20XY4L	7VENT	0.611,0.666,5	ALERT -- Thruster fire	4O0	4	0	3,753,350:38:0	
94	96	358	20:11:21.800	20XY4M	7VENT	0.611,1.333,4	ALERT -- Thruster fire	4O0	4	0	3,753,350:53:0	
95	96	358	20:11:22.466	20XY4N	7VENT	0.611,0.666,5	ALERT -- Thruster fire	4O0	4	0	3,753,350:54:0	
96	96	358	20:11:32.466	20XY4O	7VENT	1.211,1.333,10	ALERT -- Thruster fire	4O0	4	0	3,753,350:69:0	
97	96	358	20:11:33.133	20XY4P	7VENT	1.211,0.666,12	ALERT -- Thruster fire	4O0	4	0	3,753,350:70:0	
98	96	358	20:13:19.800	20XY4S	7VENT	0.611,1.333,7	ALERT -- Thruster fire	4O0	4	0	3,753,352:48:0	
99	96	358	20:13:20.466	20XY4T	7VENT	0.611,10.989,7	ALERT -- Thruster fire	4O0	4	0	3,753,352:49:0	
100	96	358	20:13:40.466	20XY4U	7VENT	0.611,1.333,1	ALERT -- Thruster fire	4O0	4	0	3,753,352:79:0	
101	96	358	20:13:41.133	20XY4V	7VENT	0.611,10.989,1	ALERT -- Thruster fire	4O0	4	0	3,753,352:80:0	
102	96	358	20:14:01.133	20XY4AC	7VENT	0.611,1.333,2	ALERT -- Thruster fire	4O0	4	0	3,753,353:19:0	
103	96	358	20:14:01.800	20XY4AD	7VENT	0.611,0.666,3	ALERT -- Thruster fire	4O0	4	0	3,753,353:20:0	
104	96	358	20:14:11.800	20XY4AE	7VENT	0.611,1.333,2	ALERT -- Thruster fire	4O0	4	0	3,753,353:35:0	
105	96	358	20:14:12.466	20XY4AF	7VENT	0.611,0.666,3	ALERT -- Thruster fire	4O0	4	0	3,753,353:36:0	
106	96	358	20:14:22.466	20XY4W	7VENT	1.211,1.333,9	ALERT -- Thruster fire	4O0	4	0	3,753,353:51:0	
107	96	358	20:14:23.133	20XY4X	7VENT	1.211,0.666,11	ALERT -- Thruster fire	4O0	4	0	3,753,353:52:0	
108	96	358	20:15:19.800	20XY4Z	**7MODE**	**CRU**	AACS CRUISE MODE	4O0	4	0	3,753,354:46:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
109	96	358	20:39:59.800	41UC99A	**POWER**	**PWR MODE change**	Change to Playback Mode	4O0	4	0	3,753,378	82:0
110	**96**	**358**	**20:40:03.800**	**41UC3I**	**40T1PR**		**1 PCT Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**3,753,378**	**88:0**
111	**96**	**358**	**20:40:13.800**	**41UC3J**	**40T1PR**		**2 PCT Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**3,753,379**	**12:0**
112	**96**	**358**	**20:40:23.800**	**41UC3K**	**40T2R**		**1 PCT Heater 2 OFF**	**4O0**	**4**	**0**	**3,753,379**	**27:0**
113	**96**	**358**	**20:40:33.800**	**41UC3L**	**40T2R**		**2 PCT Heater 2 OFF**	**4O0**	**4**	**0**	**3,753,379**	**42:0**
114	**96**	**358**	**20:42:43.800**	**41UC3G**	**37F2P**		**1 Shield Flash Heater ON (primary relay)**	**4O0**	**4**	**0**	**3,753,381**	**55:0**
115	**96**	**358**	**20:42:53.800**	**41UC3H**	**37F2P**		**2 Shield Flash Heater ON (primary relay)**	**4O0**	**4**	**0**	**3,753,381**	**70:0**
116	**96**	**358**	**20:43:03.800**	**33G3A**	**37F2PR**		**1 Shield Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,753,381**	**85:0**
117	**96**	**358**	**20:43:13.800**	**33H3A**	**40T1P**		**1 PCT Heater 1 ON (primary relay)**	**4O0**	**4**	**0**	**3,753,382**	**09:0**
118	**96**	**358**	**20:43:23.800**	**33I3A**	**40T2**		**1 PCT Heater 2 ON**	**4O0**	**4**	**0**	**3,753,382**	**24:0**
119	96	358	20:50:03.800	20XC4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	4O0	4	0	3,753,388	78:0
120	96	358	20:50:53.800	20XC4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	3,753,389	62:0
121	96	358	20:52:13.800	176AI6A	6TMREC	**RPB**	**RESUME PLAYBACK (PB CONTROL) Record Mode**	4O0	4	0	3,753,391	00:0
122	96	358	21:00:41.800	488E6D	6TMSED	FILL,AH4	Sci, Eng, and D/L Chan	4O0	4	0	3,753,399	34:0
123	96	358	21:06:19.800	488E6E	6TMSED	NORM,AH4	Sci, Eng, and D/L Chan	4O0	4	0	3,753,404	86:0
124	96	358	21:49:45.800	488F6A	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	4O0	4	0	3,753,447	82:0
125	96	358	22:00:59.800	488F6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	3,753,459	01:0
126	96	358	22:26:02.400	488F6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	3,753,483	71:0
127	96	359	00:12:41.733	488F6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	3,753,589	24:0
128	96	359	01:54:55.733	488F6E	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	3,753,690	34:0
129	96	359	02:13:07.733	488G6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	3,753,708	34:0
130	96	359	06:43:05.733	488G6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,753,975	34:0
131	96	359	07:53:29.733	488G6C	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,754,045	00:0
132	96	359	08:12:55.733	488G6D	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,754,064	20:0
133	96	359	10:36:12.400	488H6A	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,754,205	84:0
134	96	359	15:02:55.066	488H6B	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,754,469	64:0
135	96	359	17:16:11.066	488I6A	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,754,601	46:0
136	96	359	18:46:17.733	488I6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,754,690	57:0
137	96	359	20:20:09.733	488I6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,754,783	42:0
138	96	359	20:52:09.733	488I6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,754,815	10:0
139	96	359	21:24:09.733	488I6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	3,754,846	69:0
140	96	359	22:26:01.733	488J6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	3,754,907	86:0
141	96	360	00:08:25.733	488J6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	3,755,009	20:0
142	96	360	06:43:05.666	488K6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,755,399	50:0
143	96	360	07:53:29.666	488K6B	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,755,469	16:0
144	96	360	08:07:53.000	488K6C	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,755,483	37:0
145	96	360	10:31:09.000	488K6D	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,755,625	09:0
146	96	360	14:57:51.666	488L6A	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,755,888	80:0
147	96	360	17:11:08.333	488L6B	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,756,020	63:0
148	96	360	18:31:21.666	488L6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,756,100	03:0
149	**96**	**360**	**18:59:42.333**	**E4NNPCTRLT01-**		**-----START------**		**4O0**	**4**	**0**	**:**	**:**
150	**96**	**360**	**18:59:49.000**	**20FR3A**	**37F2PR**		**1 Shield Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,756,128**	**16:0**
151	**96**	**360**	**18:59:53.000**	**20FR3B**	**37F2PR**		**2 Shield Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,756,128**	**22:0**
152	**96**	**360**	**18:59:59.000**	**20FR3C**	**40T1P**		**1 PCT Heater 1 ON (primary relay)**	**4O0**	**4**	**0**	**3,756,128**	**31:0**
153	**96**	**360**	**19:00:03.000**	**20FR3D**	**40T1P**		**2 PCT Heater 1 ON (primary relay)**	**4O0**	**4**	**0**	**3,756,128**	**37:0**
154	**96**	**360**	**19:00:09.000**	**20FR3E**	**40T2**		**1 PCT Heater 2 ON**	**4O0**	**4**	**0**	**3,756,128**	**46:0**
155	**96**	**360**	**19:00:13.000**	**20FR3F**	**40T2**		**2 PCT Heater 2 ON**	**4O0**	**4**	**0**	**3,756,128**	**52:0**
156	96	360	20:15:53.666	488L6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,756,203	38:0
157	96	360	20:47:53.666	488L6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,756,235	06:0
158	96	360	21:19:53.666	488M6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	3,756,266	65:0
159	96	360	22:19:37.666	488M6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	3,756,325	72:0
160	96	361	00:08:25.666	488M6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	3,756,433	36:0
161	96	361	06:43:05.666	488N6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,756,823	66:0
162	96	361	07:47:05.666	488N6B	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,756,887	02:0
163	96	361	07:57:49.000	488N6C	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,756,897	57:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
164	96	361	17:46:04.933	488O6A	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,757,479:39:0	
165	96	361	19:46:58.933	176S6A	6TMREC	**PPB**	**PAUSE PLAYBACK (PB CONTROL) Record Mode C**	4O0	4	0	3,757,599:00:0	
166	96	361	19:49:00.266	41VF99A	**POWER**	**PWR MODE change**	Change to Maneuver Mode	4O0	4	0	3,757,601:00:0	
167	**96**	**361**	**19:49:04.266**	**41VF3K**	**37F2PR**	**1**	**Shield Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,757,601:06:0**	
168	**96**	**361**	**19:49:14.266**	**41VF3L**	**37F2PR**	**2**	**Shield Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,757,601:21:0**	
169	**96**	**361**	**19:51:24.266**	**41VF3G**	**40T1P**	**1**	**PCT Heater 1 ON (primary relay)**	**4O0**	**4**	**0**	**3,757,603:34:0**	
170	**96**	**361**	**19:51:34.266**	**41VF3H**	**40T1P**	**2**	**PCT Heater 1 ON (primary relay)**	**4O0**	**4**	**0**	**3,757,603:49:0**	
171	**96**	**361**	**19:51:44.266**	**41VF3I**	**40T2**	**1**	**PCT Heater 2 ON**	**4O0**	**4**	**0**	**3,757,603:64:0**	
172	**96**	**361**	**19:51:54.266**	**41VF3J**	**40T2**	**2**	**PCT Heater 2 ON**	**4O0**	**4**	**0**	**3,757,603:79:0**	
173	96	361	20:25:02.266	490UH412A4B	**7MODE**	**INT**	AACS INERTIAL MODE	4O0	4	0	3,757,636:58:0	
174	96	361	20:30:00.266	490UH412A4D	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	4O0	4	0	3,757,641:50:0	
175	96	361	20:34:10.266	490UH412A4E	7VECT	RTH	Inert vect update UTC	4O0	4	0	3,757,645:61:0	
176	96	361	20:34:14.266	490UH412A4F	7TURN	2,RTH	ALERT Thruster	4O0	4	0	3,757,645:67:0	
177	96	361	20:38:02.266	490UH412A406A4A	7STAR	1,3000,95.710999	Star catalog update	4O0	4	0	3,757,649:45:0	
178	96	361	20:38:04.266	490UH412A406A4B	7STAR	2,111,257.16	Star catalog update	4O0	4	0	3,757,649:48:0	
179	96	361	20:38:06.266	490UH412A406A4C	7STAR	3,770,213.33,19.	Star catalog update	4O0	4	0	3,757,649:51:0	
180	96	361	20:38:08.266	490UH412A406A4D	7STAR	4,0,0.0,0.0	Star catalog update	4O0	4	0	3,757,649:54:0	
181	96	361	20:38:10.266	490UH412A406A4E	7STAR	5,0,0.0,0.0	Star catalog update	4O0	4	0	3,757,649:57:0	
182	96	361	20:38:12.266	490UH412A406A4F	7STAR	6,0,0.0,0.0	Star catalog update	4O0	4	0	3,757,649:60:0	
183	96	361	21:49:12.933	490UH412A4L	**7MODE**	**CRU**	AACS CRUISE MODE	4O0	4	0	3,757,719:81:0	
184	96	361	22:10:00.266	41UD99A	**POWER**	**PWR MODE change**	Change to Playback Mode	4O0	4	0	3,757,740:41:0	
185	**96**	**361**	**22:10:04.266**	**41UD3I**	**40T1PR**	**1**	**PCT Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**3,757,740:47:0**	
186	**96**	**361**	**22:10:14.266**	**41UD3J**	**40T1PR**	**2**	**PCT Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**3,757,740:62:0**	
187	**96**	**361**	**22:10:24.266**	**41UD3K**	**40T2R**	**1**	**PCT Heater 2 OFF**	**4O0**	**4**	**0**	**3,757,740:77:0**	
188	**96**	**361**	**22:10:34.266**	**41UD3L**	**40T2R**	**2**	**PCT Heater 2 OFF**	**4O0**	**4**	**0**	**3,757,741:01:0**	
189	**96**	**361**	**22:12:44.266**	**41UD3G**	**37F2P**	**1**	**Shield Flash Heater ON (primary relay)**	**4O0**	**4**	**0**	**3,757,743:14:0**	
190	**96**	**361**	**22:12:54.266**	**41UD3H**	**37F2P**	**2**	**Shield Flash Heater ON (primary relay)**	**4O0**	**4**	**0**	**3,757,743:29:0**	
191	**96**	**361**	**22:13:04.266**	**33J3A**	**37F2PR**	**1**	**Shield Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,757,743:44:0**	
192	**96**	**361**	**22:13:14.266**	**33K3A**	**40T1P**	**1**	**PCT Heater 1 ON (primary relay)**	**4O0**	**4**	**0**	**3,757,743:59:0**	
193	**96**	**361**	**22:13:24.266**	**33L3A**	**40T2**	**1**	**PCT Heater 2 ON**	**4O0**	**4**	**0**	**3,757,743:74:0**	
194	96	361	22:20:04.266	20XD4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	4O0	4	0	3,757,750:37:0	
195	96	361	22:20:54.266	20XD4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	3,757,751:21:0	
196	96	361	22:22:41.600	176AJ6A	6TMREC	**RPB**	**RESUME PLAYBACK (PB CONTROL) Record Mode**	4O0	4	0	3,757,753:00:0	
197	**96**	**361**	**22:24:00.266**	**20FZ3A**	**37F2PR**	**1**	**Shield Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,757,754:27:0**	
198	**96**	**361**	**22:24:04.266**	**20FZ3B**	**37F2PR**	**2**	**Shield Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,757,754:33:0**	
199	**96**	**361**	**22:24:10.266**	**20FZ3C**	**40T1P**	**1**	**PCT Heater 1 ON (primary relay)**	**4O0**	**4**	**0**	**3,757,754:42:0**	
200	**96**	**361**	**22:24:14.266**	**20FZ3D**	**40T1P**	**2**	**PCT Heater 1 ON (primary relay)**	**4O0**	**4**	**0**	**3,757,754:48:0**	
201	**96**	**361**	**22:24:20.266**	**20FZ3E**	**40T2**	**1**	**PCT Heater 2 ON**	**4O0**	**4**	**0**	**3,757,754:57:0**	
202	**96**	**361**	**22:24:24.266**	**20FZ3F**	**40T2**	**2**	**PCT Heater 2 ON**	**4O0**	**4**	**0**	**3,757,754:63:0**	
203	96	361	22:37:48.266	488O6B	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,757,767:86:0	
204	96	361	23:21:29.600	488O6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	3,757,811:14:0	
205	96	362	02:47:55.600	488P6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	3,758,015:29:0	
206	96	362	06:53:45.600	488P6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,758,258:41:0	
207	96	362	07:25:45.600	488P6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,758,290:09:0	
208	96	362	07:41:52.933	488P6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,758,306:04:0	
209	96	362	07:57:45.600	488P6E	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,758,321:68:0	
210	96	362	08:39:54.933	476A6A	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,758,363:40:0	
211	96	362	11:56:02.933	488Q6A	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,758,557:38:0	
212	96	362	13:22:46.266	488Q6B	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,758,643:17:0	
213	96	362	14:04:41.600	488Q6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,758,684:59:0	
214	96	362	19:32:42.866	41TW99A	**POWER**	**PWR MODE change**	Change to Data Taking Mode	4O0	4	0	3,759,009:06:0	
215	**96**	**362**	**19:32:46.866**	**41TW3K**	**37F2PR**	**1**	**Shield Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,759,009:12:0**	
216	**96**	**362**	**19:32:56.866**	**41TW3L**	**37F2PR**	**2**	**Shield Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,759,009:27:0**	
217	**96**	**362**	**19:33:06.866**	**41TW3A**	**40T1PR**	**1**	**PCT Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**3,759,009:42:0**	
218	**96**	**362**	**19:33:16.866**	**41TW3B**	**40T1PR**	**2**	**PCT Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**3,759,009:57:0**	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
219	**96**	**362**	**19:33:26.866**	**41TW3C**	**40T2R**		**1 PCT Heater 2 OFF**	**4O0**	**4**	**0**	**3,759,009:72:0**	
220	**96**	**362**	**19:33:36.866**	**41TW3D**	**40T2R**		**2 PCT Heater 2 OFF**	**4O0**	**4**	**0**	**3,759,009:87:0**	
221	96	362	21:15:00.866	488R6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,759,110:22:0	
222	96	362	22:15:21.533	488R6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,759,169:84:0	
223	96	362	22:47:21.533	488R6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	3,759,201:52:0	
224	96	363	00:02:01.533	488R6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,759,275:38:0	
225	96	363	01:36:38.866	176FA6A	6TMREC	**PPB**	**PAUSE PLAYBACK (PB CONTROL) Record Mode C**	4O0	4	0	3,759,369:00:0	
226	96	363	01:39:00.200	444UH443A4A	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	4O0	4	0	3,759,371:30:0	
227	96	363	01:43:00.200	444UH443A4B	**7MODE**	**SPNL**	AACS ALL-SPIN LOW	4O0	4	0	3,759,375:26:0	
228	96	363	01:52:00.200	444UH443A4C	7CLK	17.45,0.0	Check S/P Position	4O0	4	0	3,759,384:17:0	
229	**96**	**363**	**01:55:46.866**	**125FT4A**	**37IST**	**1,0,0,OFF,0,0,0**	**Chopper ON, Sync, 63Hz (Ref)**	**460**	**4**	**0**	**3,759,387:84:0**	
230	96	363	01:55:46.866	125FT	NIMSINIT	GS	##### GROUP START INIT	460	4	0	3,759,387:84:0	
231	**96**	**363**	**01:56:47.533**	**125FT4B**	**37IST**	**1,2,0,OFF,0,1,1**	**Chopper ON, Sync, Chopper (Ref)Gain State**	**4R0**	**4**	**0**	**3,759,388:84:0**	
232	**96**	**363**	**01:57:48.200**	**125FT4C**	**37MB**	**1B,1B,0,0,0,0**	**Selects mirror (spatial) edit table**	**4R0**	**4**	**0**	**3,759,389:84:0**	
233	96	363	01:57:48.200	125FT11A	NIMSINIT	GE	##### GROUP END INIT	4R0	4	0	3,759,389:84:0	
234	**96**	**363**	**02:00:50.200**	**127FT4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**4R3**	**4**	**0**	**3,759,392:84:0**	
235	96	363	02:00:50.200	127FT	NIMSTAB	GS	%%%%% GROUP START TAB	4R3	4	0	3,759,392:84:0	
236	**96**	**363**	**02:00:50.866**	**127FT4B**	**37ETB**	**0A,CA,19,FF,C0,1**	**Loads wavelength edit table**	**4R3**	**4**	**0**	**3,759,392:85:0**	
237	96	363	02:00:58.866	127FT11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	3,759,393:06:0	
238	**96**	**363**	**02:02:15.533**	**432EA6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**	**NIMS R/T SELECT**	**4R3**	**4**	**0**	**3,759,394:30:0**	
239	**96**	**363**	**02:03:14.866**	**432EB6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**4R3**	**4**	**0**	**3,759,395:28:0**	
240	96	363	02:03:56.866	192EQ4A	**7CONE**	17.0,54.88	Check S/P Position	4R3	4	0	3,759,396:00:0	
241	96	363	02:03:57.533	192EQ4B	7CLK	17.0,244.07	Check S/P Position	4R3	4	0	3,759,396:01:0	
242	**96**	**363**	**02:07:18.866**	**432EC6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**	**NIMS R/T SELECT**	**4R3**	**4**	**0**	**3,759,399:30:0**	
243	**96**	**363**	**02:17:24.200**	**432ED6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**4R3**	**4**	**0**	**3,759,409:28:0**	
244	96	363	02:18:01.533	127FU	NIMSTAB	GS	%%%%% GROUP START TAB	4R3	4	0	3,759,409:84:0	
245	**96**	**363**	**02:18:01.533**	**127FU4A**	**37IOP**	**0,0**	**Safe, Grating Start Position =00**	**4R0**	**4**	**0**	**3,759,409:84:0**	
246	**96**	**363**	**02:18:02.200**	**127FU4B**	**37ETB**	**04,C4,02,00,00**	**Loads wavelength edit table**	**4R0**	**4**	**0**	**3,759,409:85:0**	
247	96	363	02:18:10.200	20FH4A	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	4R0	4	0	3,759,410:06:0	
248	96	363	02:18:10.200	127FU11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R0	4	0	3,759,410:06:0	
249	**96**	**363**	**02:20:02.866**	**125FV4A**	**37IST**	**1,0,0,OFF,0,0,0**	**Chopper ON, Sync, 63Hz (Ref)**	**460**	**4**	**0**	**3,759,411:84:0**	
250	96	363	02:20:02.866	125FV	NIMSINIT	GS	##### GROUP START INIT	460	4	0	3,759,411:84:0	
251	**96**	**363**	**02:21:03.533**	**125FV4B**	**37IST**	**1,1,0,OFF,0,0,0**	**Chopper OFF, N/A, 63Hz (Ref)**	**4O0**	**4**	**0**	**3,759,412:84:0**	
252	96	363	02:22:04.200	125FV11A	NIMSINIT	GE	##### GROUP END INIT	4O0	4	0	3,759,413:84:0	
253	**96**	**363**	**02:22:04.200**	**125FV4C**	**37MB**	**0,0,0,0,0,0**	**Selects mirror (spatial) edit table**	**4O0**	**4**	**0**	**3,759,413:84:0**	
254	96	363	02:23:14.866	444UI443A4A	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	4O0	4	0	3,759,415:08:0	
255	96	363	02:27:14.866	444UI443A4B	**7MODE**	**CRU**	AACS CRUISE MODE	4O0	4	0	3,759,419:04:0	
256	96	363	02:37:22.866	41TV99A	**POWER**	**PWR MODE change**	Change to Playback Mode	4O0	4	0	3,759,429:06:0	
257	**96**	**363**	**02:37:26.866**	**41TV3I**	**40T1PR**		**1 PCT Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**3,759,429:12:0**	
258	**96**	**363**	**02:37:36.866**	**41TV3J**	**40T1PR**		**2 PCT Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**3,759,429:27:0**	
259	**96**	**363**	**02:37:46.866**	**41TV3K**	**40T2R**		**1 PCT Heater 2 OFF**	**4O0**	**4**	**0**	**3,759,429:42:0**	
260	**96**	**363**	**02:37:56.866**	**41TV3L**	**40T2R**		**2 PCT Heater 2 OFF**	**4O0**	**4**	**0**	**3,759,429:57:0**	
261	**96**	**363**	**02:40:06.866**	**41TV3G**	**37F2P**		**1 Shield Flash Heater ON (primary relay)**	**4O0**	**4**	**0**	**3,759,431:70:0**	
262	**96**	**363**	**02:40:16.866**	**41TV3H**	**37F2P**		**2 Shield Flash Heater ON (primary relay)**	**4O0**	**4**	**0**	**3,759,431:85:0**	
263	**96**	**363**	**02:40:27.533**	**33M3A**	**37F2PR**		**1 Shield Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,759,432:10:0**	
264	**96**	**363**	**02:40:37.533**	**33N3A**	**40T1P**		**1 PCT Heater 1 ON (primary relay)**	**4O0**	**4**	**0**	**3,759,432:25:0**	
265	**96**	**363**	**02:40:47.533**	**33O3A**	**40T2**		**1 PCT Heater 2 ON**	**4O0**	**4**	**0**	**3,759,432:40:0**	
266	96	363	02:47:33.533	20TU4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	4O0	4	0	3,759,439:12:0	
267	96	363	02:48:23.533	20TU4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	3,759,439:87:0	
268	96	363	02:49:26.866	176FK6A	6TMREC	**RPB**	**RESUME PLAYBACK (PB CONTROL) Record Mode**	4O0	4	0	3,759,441:00:0	
269	**96**	**363**	**02:49:30.999**	**E4NNPCTRLT01-**		**-----STOP-------**		**4O0**	**4**	**0**	**: :**	
270	96	363	06:53:45.533	488S6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,759,682:57:0	
271	96	363	07:57:27.533	488S6B	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,759,745:57:0	
272	96	363	07:57:45.533	488S6C	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,759,745:84:0	
273	96	363	10:11:00.200	488S6D	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,759,877:64:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
274	96	363	14:57:44.200	488T6A	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,760,161:26:0	
275	96	363	16:56:00.200	488T6B	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,760,278:23:0	
276	96	363	19:24:41.533	488T6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,760,425:28:0	
277	96	363	20:20:09.533	488T6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,760,480:15:0	
278	96	363	20:52:09.533	488T6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,760,511:74:0	
279	96	363	22:11:05.533	488U6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	3,760,589:80:0	
280	96	363	23:57:45.466	488U6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,760,695:34:0	
281	96	364	06:47:21.466	488V6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,761,100:43:0	
282	96	364	07:57:45.466	488V6B	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,761,170:09:0	
283	96	364	07:57:50.800	488V6C	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,761,170:17:0	
284	96	364	12:28:20.800	488V6D	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,761,437:65:0	
285	96	364	13:47:42.133	488W6A	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,761,516:18:0	
286	96	364	16:50:58.133	488W6B	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,761,697:41:0	
287	96	364	17:09:08.800	488W6C	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,761,715:39:0	
288	96	364	19:01:13.466	488W6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,761,826:25:0	
289	96	364	19:11:07.466	488W6E	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,761,836:06:0	
290	96	364	20:15:53.466	488X6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,761,900:11:0	
291	96	364	20:47:53.466	488X6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,761,931:70:0	
292	96	364	22:11:05.466	488X6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	3,762,014:05:0	
293	96	364	23:57:45.466	488X6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,762,119:50:0	
294	96	365	06:47:21.400	488Y6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,762,524:59:0	
295	96	365	07:55:25.400	488Y6B	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,762,591:88:0	
296	96	365	07:57:45.400	488Y6C	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,762,594:25:0	
297	96	365	10:00:56.066	488Y6D	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,762,716:09:0	
298	96	365	14:57:40.066	488Z6A	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,763,009:52:0	
299	96	365	16:50:56.066	488Z6B	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,763,121:54:0	
300	96	365	18:46:17.400	488Z6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,763,235:62:0	
301	96	365	20:15:53.400	488Z6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,763,324:27:0	
302	96	365	20:47:53.400	488Z6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,763,355:86:0	
303	96	365	22:04:41.400	488AA6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	3,763,431:82:0	
304	96	365	23:53:29.400	488AA6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,763,539:46:0	
305	96	366	06:43:05.400	488AB6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,763,944:55:0	
306	96	366	07:53:49.400	488AB6B	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,764,014:51:0	
307	96	366	07:57:45.400	488AB6C	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,764,018:41:0	
308	96	366	09:55:54.066	488AB6D	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,764,135:27:0	
309	96	366	14:57:38.000	488AC6A	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,764,433:65:0	
310	96	366	16:45:54.000	488AC6B	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,764,540:72:0	
311	96	366	18:29:13.333	488AC6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,764,642:89:0	
312	96	366	20:09:29.333	488AC6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,764,742:13:0	
313	96	366	20:41:29.333	488AC6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,764,773:72:0	
314	96	366	22:04:41.333	488AD6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	3,764,856:07:0	
315	97	1	00:12:41.333	488AD6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,764,982:61:0	
316	97	1	06:43:05.333	488AE6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,765,368:71:0	
317	97	1	07:11:53.333	488AE6B	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,765,397:24:0	
318	97	1	07:27:53.333	488AE6C	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,765,413:08:0	
319	97	1	12:18:26.000	488AE6D	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,765,700:40:0	
320	97	1	13:52:36.000	488AF6A	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,765,793:52:0	
321	97	1	16:45:52.000	488AF6B	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,765,964:85:0	
322	97	1	17:04:15.266	488AF6C	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,765,983:11:0	
323	97	1	18:54:49.266	488AF6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,766,092:43:0	
324	97	1	19:05:19.266	488AF6E	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,766,102:78:0	
325	97	1	20:05:13.266	488AG6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,766,162:09:0	
326	97	1	20:37:13.266	488AG6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,766,193:68:0	
327	97	1	22:00:25.266	488AG6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	3,766,276:03:0	
328	97	2	00:12:41.266	488AG6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,766,406:77:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
329	97	2	06:36:41.266	488AH6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,766,786:57:0	
330	97	2	07:49:14.600	488AH6B	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,766,858:35:0	
331	97	2	07:53:29.266	488AH6C	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,766,862:53:0	
332	97	2	09:45:51.266	488AH6D	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,766,973:65:0	
333	97	2	14:52:35.266	488AI6A	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,767,277:07:0	
334	97	2	16:35:51.266	488AI6B	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,767,379:19:0	
335	97	2	18:20:41.266	488AI6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,767,482:81:0	
336	97	2	20:05:13.266	488AI6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,767,586:25:0	
337	97	2	20:37:13.266	488AI6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,767,617:84:0	
338	97	2	22:00:25.266	488AJ6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	3,767,700:19:0	
339	97	3	00:08:25.200	488AJ6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,767,826:73:0	
340	97	3	06:36:41.200	488AK6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,768,210:73:0	
341	97	3	07:45:23.200	488AK6B	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,768,278:68:0	
342	97	3	07:47:05.200	488AK6C	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,768,280:39:0	
343	97	3	09:45:49.866	488AK6D	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,768,397:79:0	
344	97	3	14:51:33.200	488AL6A	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,768,700:21:0	
345	97	3	19:23:29.200	488AL6B	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,768,969:16:0	
346	97	3	19:54:33.200	488AL6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,768,999:82:0	
347	97	3	20:26:33.200	488AL6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,769,031:50:0	
348	97	3	21:56:09.200	488AM6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	3,769,120:15:0	
349	97	4	00:08:25.200	488AM6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,769,250:89:0	
350	97	4	01:22:33.200	488AM6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,769,324:27:0	
351	97	4	01:49:51.866	488AM6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,769,351:28:0	
352	97	4	06:32:25.133	488AN6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,769,630:69:0	
353	97	4	07:43:23.133	488AN6B	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,769,700:86:0	
354	97	4	07:47:05.133	488AN6C	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,769,704:55:0	
355	97	4	09:18:29.133	176O6A	6TMREC	**PPB**	**PAUSE PLAYBACK (PB CONTROL) Record Mode C**	4O0	4	0	3,769,795:00:0	
356	97	4	09:19:59.800	41VG99A	**POWER**	**PWR MODE change**	Change to Maneuver Mode	4O0	4	0	3,769,796:45:0	
357	**97**	**4**	**09:20:03.800**	**41VG3K**	**37F2PR**		**1 Shield Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,769,796:51:0**	
358	**97**	**4**	**09:20:13.800**	**41VG3L**	**37F2PR**		**2 Shield Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,769,796:66:0**	
359	**97**	**4**	**09:22:23.800**	**41VG3G**	**40T1P**		**1 PCT Heater 1 ON (primary relay)**	**4O0**	**4**	**0**	**3,769,798:79:0**	
360	**97**	**4**	**09:22:33.800**	**41VG3H**	**40T1P**		**2 PCT Heater 1 ON (primary relay)**	**4O0**	**4**	**0**	**3,769,799:03:0**	
361	**97**	**4**	**09:22:43.800**	**41VG3I**	**40T2**		**1 PCT Heater 2 ON**	**4O0**	**4**	**0**	**3,769,799:18:0**	
362	**97**	**4**	**09:22:53.800**	**41VG3J**	**40T2**		**2 PCT Heater 2 ON**	**4O0**	**4**	**0**	**3,769,799:33:0**	
363	97	4	09:31:19.800	20YD4B	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	4O0	4	0	3,769,807:64:0	
364	97	4	09:50:19.800	20YD4D	**7MODE**	**INT**	AACS INERTIAL MODE	4O0	4	0	3,769,826:45:0	
365	97	4	10:20:49.133	488AN6D	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,769,856:59:0	
366	97	4	13:59:59.800	488AO6A	6TMSED	NORM,AH1	Sci, Eng, and D/L Chan	4O0	4	0	3,770,073:38:0	
367	97	4	14:31:59.800	488XX6B	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,770,105:06:0	
368	97	4	14:32:59.800	444UX443A4A	**7MODE**	**CRU**	AACS CRUISE MODE	4O0	4	0	3,770,106:05:0	
369	97	4	14:38:03.800	20XX4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	4O0	4	0	3,770,111:06:0	
370	97	4	14:38:53.800	20XX4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	3,770,111:81:0	
371	97	4	14:40:01.133	176XX6A	6TMREC	**RPB**	**RESUME PLAYBACK (PB CONTROL) Record Mode**	4O0	4	0	3,770,113:00:0	
372	97	4	16:25:49.133	488XX6C	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,770,217:58:0	
373	97	4	18:14:17.133	488XX6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,770,324:83:0	
374	97	4	20:00:57.133	488XX6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,770,430:37:0	
375	97	4	20:32:57.133	488XY6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,770,462:05:0	
376	97	4	21:49:45.133	488XY6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	3,770,538:01:0	
377	97	4	22:28:09.800	176XY6A	6TMREC	**PPB**	**PAUSE PLAYBACK (PB CONTROL) Record Mode C**	4O0	4	0	3,770,576:00:0	
378	97	4	22:29:59.800	488AP6A	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,770,577:74:0	
379	97	4	22:29:59.800	41UE99A	**POWER**	**PWR MODE change**	Change to Playback Mode	4O0	4	0	3,770,577:74:0	
380	**97**	**4**	**22:30:03.800**	**41UE3I**	**40T1PR**		**1 PCT Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**3,770,577:80:0**	
381	**97**	**4**	**22:30:13.800**	**41UE3J**	**40T1PR**		**2 PCT Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**3,770,578:04:0**	
382	**97**	**4**	**22:30:23.800**	**41UE3K**	**40T2R**		**1 PCT Heater 2 OFF**	**4O0**	**4**	**0**	**3,770,578:19:0**	
383	**97**	**4**	**22:30:33.800**	**41UE3L**	**40T2R**		**2 PCT Heater 2 OFF**	**4O0**	**4**	**0**	**3,770,578:34:0**	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
384	**97**	**4**	**22:32:43.800**	**41UE3G**	**37F2P**		**1 Shield Flash Heater ON (primary relay)**	**4O0**	**4**	**0**	**3,770,580:47:0**	
385	**97**	**4**	**22:32:53.800**	**41UE3H**	**37F2P**		**2 Shield Flash Heater ON (primary relay)**	**4O0**	**4**	**0**	**3,770,580:62:0**	
386	**97**	**4**	**22:33:03.800**	**33P3A**	**37F2PR**		**1 Shield Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,770,580:77:0**	
387	**97**	**4**	**22:33:14.466**	**33Q3A**	**40T1P**		**1 PCT Heater 1 ON (primary relay)**	**4O0**	**4**	**0**	**3,770,581:02:0**	
388	**97**	**4**	**22:33:24.466**	**33R3A**	**40T2**		**1 PCT Heater 2 ON**	**4O0**	**4**	**0**	**3,770,581:17:0**	
389	97	4	22:39:59.800	444UF443A4A	**7MODE**	**CRU**	AACS CRUISE MODE	4O0	4	0	3,770,587:64:0	
390	97	4	22:55:03.800	20XE4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	4O0	4	0	3,770,602:55:0	
391	97	4	22:55:53.800	20XE4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	3,770,603:39:0	
392	97	4	22:57:29.133	176AK6A	6TMREC	**RPB**	**RESUME PLAYBACK (PB CONTROL) Record Mode**	4O0	4	0	3,770,605:00:0	
393	97	4	23:15:05.133	488AP6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	3,770,622:37:0	
394	97	5	00:02:01.133	488AP6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,770,668:75:0	
395	97	5	06:28:09.133	488AQ6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,771,050:65:0	
396	97	5	07:38:49.133	488AQ6B	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,771,120:55:0	
397	97	5	07:42:49.133	488AQ6C	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,771,124:51:0	
398	97	5	12:03:31.066	488AQ6D	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,771,382:36:0	
399	97	5	14:02:31.733	488AR6A	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,771,500:09:0	
400	97	5	16:25:48.400	488AR6B	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,771,641:73:0	
401	97	5	16:49:19.066	488AR6C	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,771,665:05:0	
402	97	5	18:39:53.066	488AR6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,771,774:37:0	
403	97	5	18:50:23.066	488AR6E	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,771,784:72:0	
404	97	5	20:15:53.066	488AS6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,771,869:32:0	
405	97	5	21:49:45.066	488AS6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	3,771,962:17:0	
406	97	6	00:02:01.066	488AS6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,772,093:00:0	
407	97	6	06:28:09.066	488AT6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,772,474:81:0	
408	97	6	07:36:15.066	488AT6B	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,772,542:22:0	
409	97	6	07:38:33.066	488AT6C	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,772,544:47:0	
410	97	6	09:30:47.066	488AT6D	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,772,655:47:0	
411	97	6	14:47:31.066	488AU6A	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,772,968:70:0	
412	97	6	19:13:32.333	488AU6B	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,773,231:79:0	
413	97	6	20:05:13.000	488AU6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,773,282:89:0	
414	97	6	20:37:13.000	488AU6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,773,314:57:0	
415	97	6	21:45:29.000	488AV6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	3,773,382:13:0	
416	97	6	23:57:45.000	488AV6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,773,512:87:0	
417	97	7	01:12:35.000	488AV6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,773,586:88:0	
418	97	7	01:39:53.666	488AV6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,773,613:89:0	
419	97	7	06:21:45.000	488AW6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,773,892:67:0	
420	97	7	07:36:48.333	488AW6B	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,773,966:88:0	
421	97	7	07:42:49.000	488AW6C	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,773,972:83:0	
422	97	7	09:30:47.000	488AW6D	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,774,079:63:0	
423	97	7	14:42:29.666	488AX6A	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,774,387:89:0	
424	97	7	16:20:46.333	488AX6B	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,774,485:16:0	
425	97	7	19:35:21.000	488AX6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,774,677:56:0	
426	97	7	20:07:21.000	488AX6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,774,709:24:0	
427	97	7	20:39:21.000	488AX6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,774,740:83:0	
428	97	7	21:39:05.000	488AY6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	3,774,799:90:0	
429	97	7	23:57:44.933	488AY6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,774,937:12:0	
430	97	8	06:21:44.933	488AZ6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,775,316:83:0	
431	97	8	06:46:28.933	488AZ6B	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,775,341:34:0	
432	97	8	07:02:16.933	488AZ6C	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,775,357:00:0	
433	97	8	07:59:55.600	476AA6A	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,775,414:01:0	
434	97	8	10:50:46.266	488AZ6D	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,775,582:89:0	
435	97	8	13:07:30.266	488BA6A	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,775,718:19:0	
436	97	8	14:02:54.266	176T6A	6TMREC	**PPB**	**PAUSE PLAYBACK (PB CONTROL) Record Mode C**	4O0	4	0	3,775,773:00:0	
437	97	8	14:05:00.266	41VH99A	**POWER**	**PWR MODE change**	Change to Maneuver Mode	4O0	4	0	3,775,775:07:0	
438	**97**	**8**	**14:05:04.266**	**41VH3K**	**37F2PR**		**1 Shield Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,775,775:13:0**	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
439	**97**	**8**	**14:05:14.266**	**41VH3L**	**37F2PR**	**2**	**Shield Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,775,775:28:0**	
440	**97**	**8**	**14:07:24.266**	**41VH3G**	**40T1P**	**1**	**PCT Heater 1 ON (primary relay)**	**4O0**	**4**	**0**	**3,775,777:41:0**	
441	**97**	**8**	**14:07:34.266**	**41VH3H**	**40T1P**	**2**	**PCT Heater 1 ON (primary relay)**	**4O0**	**4**	**0**	**3,775,777:56:0**	
442	**97**	**8**	**14:07:44.266**	**41VH3I**	**40T2**	**1**	**PCT Heater 2 ON**	**4O0**	**4**	**0**	**3,775,777:71:0**	
443	**97**	**8**	**14:07:54.266**	**41VH3J**	**40T2**	**2**	**PCT Heater 2 ON**	**4O0**	**4**	**0**	**3,775,777:86:0**	
444	97	8	14:40:02.266	490UI412A4B	**7MODE**	**INT**	AACS INERTIAL MODE	4O0	4	0	3,775,809:66:0	
445	97	8	14:45:00.266	490UI412A4D	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	4O0	4	0	3,775,814:58:0	
446	97	8	14:49:10.266	490UI412A4E	7VECT	RTH	Inert vect update UTC	4O0	4	0	3,775,818:69:0	
447	97	8	14:49:14.266	490UI412A4F	7TURN	2,RTH	ALERT Thruster	4O0	4	0	3,775,818:75:0	
448	97	8	14:53:02.266	490UI412A406A4A	7STAR	1,3000,95.710999	Star catalog update	4O0	4	0	3,775,822:53:0	
449	97	8	14:53:04.266	490UI412A406A4B	7STAR	2,770,213.33,19.	Star catalog update	4O0	4	0	3,775,822:56:0	
450	97	8	14:53:06.266	490UI412A406A4C	7STAR	31,051,200.64	Star catalog update	4O0	4	0	3,775,822:59:0	
451	97	8	14:53:08.266	490UI412A406A4D	7STAR	4,464,190.74	Star catalog update	4O0	4	0	3,775,822:62:0	
452	97	8	14:53:10.266	490UI412A406A4E	7STAR	5,0,0.0,0.0	Star catalog update	4O0	4	0	3,775,822:65:0	
453	97	8	14:53:12.266	490UI412A406A4F	7STAR	6,0,0.0,0.0	Star catalog update	4O0	4	0	3,775,822:68:0	
454	97	8	16:00:12.933	490UI412A4L	**7MODE**	**CRU**	AACS CRUISE MODE	4O0	4	0	3,775,889:02:0	
455	97	8	16:25:46.266	488BA6B	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,775,914:27:0	
456	97	8	19:15:00.266	488BB6A	6TMSED	NORM,AH1	Sci, Eng, and D/L Chan	4O0	4	0	3,776,081:61:0	
457	97	8	19:18:00.266	20YB4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	3,776,084:58:0	
458	97	8	19:19:00.266	20YB4D	**7MODE**	**SPNL**	AACS ALL-SPIN LOW	4O0	4	0	3,776,085:57:0	
459	97	8	19:21:00.266	20YB4E	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	4O0	4	0	3,776,087:55:0	
460	97	8	19:26:30.266	20YB4G	7VENT	0.611,1.333,8	ALERT -- Thruster fire	4O0	4	0	3,776,093:04:0	
461	97	8	19:26:30.933	20YB4H	7VENT	0.611,10.989,8	ALERT -- Thruster fire	4O0	4	0	3,776,093:05:0	
462	97	8	19:26:50.933	20YB4I	7VENT	0.611,1.333,6	ALERT -- Thruster fire	4O0	4	0	3,776,093:35:0	
463	97	8	19:26:51.600	20YB4J	7VENT	0.611,10.989,6	ALERT -- Thruster fire	4O0	4	0	3,776,093:36:0	
464	97	8	19:27:11.600	20YB4K	7VENT	0.611,1.333,4	ALERT -- Thruster fire	4O0	4	0	3,776,093:66:0	
465	97	8	19:27:12.266	20YB4L	7VENT	0.611,0.666,5	ALERT -- Thruster fire	4O0	4	0	3,776,093:67:0	
466	97	8	19:27:22.266	20YB4M	7VENT	0.611,1.333,4	ALERT -- Thruster fire	4O0	4	0	3,776,093:82:0	
467	97	8	19:27:22.933	20YB4N	7VENT	0.611,0.666,5	ALERT -- Thruster fire	4O0	4	0	3,776,093:83:0	
468	97	8	19:27:32.933	20YB4O	7VENT	1.211,1.333,10	ALERT -- Thruster fire	4O0	4	0	3,776,094:07:0	
469	97	8	19:27:33.600	20YB4P	7VENT	1.211,0.666,12	ALERT -- Thruster fire	4O0	4	0	3,776,094:08:0	
470	97	8	19:29:20.266	20YB4S	7VENT	0.611,1.333,7	ALERT -- Thruster fire	4O0	4	0	3,776,095:77:0	
471	97	8	19:29:20.933	20YB4T	7VENT	0.611,10.989,7	ALERT -- Thruster fire	4O0	4	0	3,776,095:78:0	
472	97	8	19:29:40.933	20YB4U	7VENT	0.611,1.333,1	ALERT -- Thruster fire	4O0	4	0	3,776,096:17:0	
473	97	8	19:29:41.600	20YB4V	7VENT	0.611,10.989,1	ALERT -- Thruster fire	4O0	4	0	3,776,096:18:0	
474	97	8	19:30:01.600	20YB4W	7VENT	1.211,1.333,9	ALERT -- Thruster fire	4O0	4	0	3,776,096:48:0	
475	97	8	19:30:02.266	20YB4X	7VENT	1.211,0.666,11	ALERT -- Thruster fire	4O0	4	0	3,776,096:49:0	
476	97	8	19:30:58.933	20YB4Z	**7MODE**	**CRU**	AACS CRUISE MODE	4O0	4	0	3,776,097:43:0	
477	97	8	19:56:00.266	41UF99A	**POWER**	**PWR MODE change**	Change to Playback Mode	4O0	4	0	3,776,122:20:0	
478	**97**	**8**	**19:56:04.266**	**41UF3I**	**40T1PR**	**1**	**PCT Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**3,776,122:26:0**	
479	**97**	**8**	**19:56:14.266**	**41UF3J**	**40T1PR**	**2**	**PCT Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**3,776,122:41:0**	
480	**97**	**8**	**19:56:24.266**	**41UF3K**	**40T2R**	**1**	**PCT Heater 2 OFF**	**4O0**	**4**	**0**	**3,776,122:56:0**	
481	**97**	**8**	**19:56:34.266**	**41UF3L**	**40T2R**	**2**	**PCT Heater 2 OFF**	**4O0**	**4**	**0**	**3,776,122:71:0**	
482	**97**	**8**	**19:58:44.266**	**41UF3G**	**37F2P**	**1**	**Shield Flash Heater ON (primary relay)**	**4O0**	**4**	**0**	**3,776,124:84:0**	
483	**97**	**8**	**19:58:54.266**	**41UF3H**	**37F2P**	**2**	**Shield Flash Heater ON (primary relay)**	**4O0**	**4**	**0**	**3,776,125:08:0**	
484	**97**	**8**	**19:59:04.266**	**33S3A**	**37F2PR**	**1**	**Shield Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,776,125:23:0**	
485	**97**	**8**	**19:59:14.266**	**33T3A**	**40T1P**	**1**	**PCT Heater 1 ON (primary relay)**	**4O0**	**4**	**0**	**3,776,125:38:0**	
486	**97**	**8**	**19:59:24.266**	**33U3A**	**40T2**	**1**	**PCT Heater 2 ON**	**4O0**	**4**	**0**	**3,776,125:53:0**	
487	97	8	20:00:56.933	488BB6B	6TMSED	NORM,AH2	Sci, Eng, and D/L Chan	4O0	4	0	3,776,127:10:0	
488	97	8	20:22:04.266	20XF4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	4O0	4	0	3,776,148:00:0	
489	97	8	20:22:54.266	20XF4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	3,776,148:75:0	
490	97	8	20:24:05.600	176AL6A	6TMREC	**RPB**	**RESUME PLAYBACK (PB CONTROL) Record Mode**	4O0	4	0	3,776,150:00:0	
491	97	8	21:23:00.266	488BB6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,776,208:24:0	
492	97	8	21:39:04.933	488BB6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,776,224:15:0	
493	97	8	22:15:20.933	488BB6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,776,260:03:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
494	97	8	23:02:16.933	488BC6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,776,306	41:0
495	97	8	23:53:28.933	488BC6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,776,357	08:0
496	97	9	06:17:28.866	488BD6A	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,776,736	79:0
497	97	9	07:22:30.200	488BD6B	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,776,801	16:0
498	97	9	10:10:46.200	488BD6C	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,776,967	54:0
499	97	9	13:47:30.200	488BE6A	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,777,181	86:0
500	97	9	16:45:46.200	488BE6B	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,777,358	23:0
501	97	9	19:54:32.866	488BF6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,777,544	87:0
502	97	9	21:34:48.866	488BF6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,777,644	11:0
503	97	9	23:47:04.866	488BF6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,777,774	85:0
504	97	10	06:13:12.866	488BG6A	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,778,156	75:0
505	97	10	07:07:30.200	488BG6B	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,778,210	47:0
506	97	10	20:20:46.133	488BH6A	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,778,995	06:0
507	97	10	21:34:48.800	488BH6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,779,068	27:0
508	97	11	06:13:12.800	488BI6A	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,779,581	00:0
509	97	11	06:57:30.133	488BI6B	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,779,624	73:0
510	97	11	20:35:46.066	488BJ6A	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,780,434	07:0
511	97	11	22:04:40.733	488BJ6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,780,522	01:0
512	97	12	02:39:41.400	176B6A	6TMREC	**PPB**	**PAUSE PLAYBACK (PB CONTROL) Record Mode C**	4O0	4	0	3,780,794	00:0
513	97	12	02:44:44.733	465A6A	6DMST	2789	DMS Slew to TIC	4O0	4	0	3,780,799	00:0
514	97	12	02:44:44.733		DMS:	: *SLEW-TIC	P7, TRACK *1, *FWD, TIC 526.00 +/-	4O0	4	0	3,780,799	00:0
515	97	12	02:49:47.400	432LB431A6A	6RCDSL	DDSDSL,PLSDSL,EP	Record Deselect (DDS o	4O0	4	0	3,780,803	90:0
516	**97**	**12**	**02:49:48.066**	**432LB6B**	**6RTSL2**	**NIMNCG,AACSEL,RT**	**AACS SELECT**	**4O0**	**4**	**0**	**3,780,804**	**00:0**
517	97	12	02:49:48.066	432LB6A	6RTSL1		R/T Select of DDS and	4O0	4	0	3,780,804	00:0
518	97	12	04:54:16.733	488BK6A	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,780,927	10:0
519	97	13	06:00:00.000	481UE4A	7VECT		Inert vect update UTC	4O0	4	0	3,782,416	26:0
520	97	16	04:59:59.866	481UB4A	7VECT		Inert vect update UTC	4O0	4	0	3,786,629	43:0
521	**97**	**18**	**23:48:40.000**	**E4NNMEMCHK01-**		**-----START------**		**4O0**	**4**	**0**	**:**	**:**
522	**97**	**18**	**23:49:39.066**	**20DA6A**	**6CKSUM**	**NIMS**	**NIMS,1000,14B3**	**4O0**	**4**	**0**	**3,790,595**	**06:0**
523	**97**	**18**	**23:51:40.400**	**20DA5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**4O0**	**4**	**0**	**3,790,597**	**06:0**
524	**97**	**18**	**23:52:41.066**	**20DA5B**	**37MRL**		**Memory Realocate (software operates from R**	**4O0**	**4**	**0**	**3,790,598**	**06:0**
525	**97**	**18**	**23:53:41.733**	**20DA6C**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**4O0**	**4**	**0**	**3,790,599**	**06:0**
526	**97**	**18**	**23:54:42.400**	**20DA6D**	**6MCOPY**	**NIMS**	**NIMS,14B4,LLM1A,78A0,791F**	**4O0**	**4**	**0**	**3,790,600**	**06:0**
527	**97**	**18**	**23:55:43.066**	**20DA6E**	**6MCOPY**	**NIMS**	**NIMS,1534,LLM1A,78A0,791F**	**4O0**	**4**	**0**	**3,790,601**	**06:0**
528	**97**	**18**	**23:56:43.733**	**20DA6B**	**6MCOPY**	**NIMS**	**NIMS,15B4,LLM1A,78A0,78DC**	**4O0**	**4**	**0**	**3,790,602**	**06:0**
529	**97**	**18**	**23:57:44.400**	**20DA6F**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**4O0**	**4**	**0**	**3,790,603**	**06:0**
530	**97**	**19**	**00:00:46.400**	**20DB6E**	**6MCOPY**	**NIMS**	**NIMS,18FE,LLM1A,2282,2283**	**4O0**	**4**	**0**	**3,790,606**	**06:0**
531	**97**	**19**	**00:01:47.066**	**20DB6A**	**6CKSUM**	**NIMS**	**NIMS,1000,1258**	**4O0**	**4**	**0**	**3,790,607**	**06:0**
532	**97**	**19**	**00:02:47.733**	**20DB6B**	**6MCOPY**	**NIMS**	**NIMS,1800,LLM1A,2282,2283**	**4O0**	**4**	**0**	**3,790,608**	**06:0**
533	**97**	**19**	**00:03:48.400**	**20DB6C**	**6CKSUM**	**NIMS**	**NIMS,1259,14B3**	**4O0**	**4**	**0**	**3,790,609**	**06:0**
534	**97**	**19**	**00:04:49.066**	**20DB6D**	**6MCOPY**	**NIMS**	**NIMS,1801,LLM1A,2282,2283**	**4O0**	**4**	**0**	**3,790,610**	**06:0**
535	**97**	**19**	**01:02:27.066**	**20DC6A**	**6CKSUM**	**NIMS**	**NIMS,1000,1258**	**4O0**	**4**	**0**	**3,790,667**	**06:0**
536	**97**	**19**	**01:03:27.733**	**20DC6B**	**6MCOPY**	**NIMS**	**NIMS,1802,LLM1A,2282,2283**	**4O0**	**4**	**0**	**3,790,668**	**06:0**
537	**97**	**19**	**01:04:28.400**	**20DC6C**	**6CKSUM**	**NIMS**	**NIMS,1259,14B3**	**4O0**	**4**	**0**	**3,790,669**	**06:0**
538	**97**	**19**	**01:05:29.066**	**20DC6D**	**6MCOPY**	**NIMS**	**NIMS,1803,LLM1A,2282,2283**	**4O0**	**4**	**0**	**3,790,670**	**06:0**
539	**97**	**19**	**02:03:07.066**	**20DD6A**	**6CKSUM**	**NIMS**	**NIMS,1000,1258**	**4O0**	**4**	**0**	**3,790,727**	**06:0**
540	**97**	**19**	**02:04:07.733**	**20DD6B**	**6MCOPY**	**NIMS**	**NIMS,1804,LLM1A,2282,2283**	**4O0**	**4**	**0**	**3,790,728**	**06:0**
541	**97**	**19**	**02:05:08.400**	**20DD6C**	**6CKSUM**	**NIMS**	**NIMS,1259,14B3**	**4O0**	**4**	**0**	**3,790,729**	**06:0**
542	**97**	**19**	**02:06:09.066**	**20DD6D**	**6MCOPY**	**NIMS**	**NIMS,1805,LLM1A,2282,2283**	**4O0**	**4**	**0**	**3,790,730**	**06:0**
543	**97**	**19**	**03:03:47.066**	**20DE6A**	**6CKSUM**	**NIMS**	**NIMS,1000,1258**	**4O0**	**4**	**0**	**3,790,787**	**06:0**
544	**97**	**19**	**03:04:47.733**	**20DE6B**	**6MCOPY**	**NIMS**	**NIMS,1806,LLM1A,2282,2283**	**4O0**	**4**	**0**	**3,790,788**	**06:0**
545	**97**	**19**	**03:05:48.400**	**20DE6C**	**6CKSUM**	**NIMS**	**NIMS,1259,14B3**	**4O0**	**4**	**0**	**3,790,789**	**06:0**
546	**97**	**19**	**03:06:49.066**	**20DE6D**	**6MCOPY**	**NIMS**	**NIMS,1807,LLM1A,2282,2283**	**4O0**	**4**	**0**	**3,790,790**	**06:0**
547	**97**	**19**	**04:04:27.066**	**20DF6A**	**6CKSUM**	**NIMS**	**NIMS,1000,112C**	**4O0**	**4**	**0**	**3,790,847**	**06:0**
548	**97**	**19**	**04:05:27.733**	**20DF6B**	**6MCOPY**	**NIMS**	**NIMS,1808,LLM1A,2282,2283**	**4O0**	**4**	**0**	**3,790,848**	**06:0**

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
549	97	19	04:06:28.400	20DF6C	6CKSUM	NIMS	NIMS,112D,1258	4O0	4	0	3,790,849:06:0	
550	97	19	04:07:29.066	20DF6D	6MCOPY	NIMS	NIMS,1809,LLM1A,2282,2283	4O0	4	0	3,790,850:06:0	
551	97	19	04:08:29.733	20DF6E	6CKSUM	NIMS	NIMS,1259,1384	4O0	4	0	3,790,851:06:0	
552	97	19	04:09:30.400	20DF6F	6MCOPY	NIMS	NIMS,180A,LLM1A,2282,2283	4O0	4	0	3,790,852:06:0	
553	97	19	04:10:31.066	20DF6G	6CKSUM	NIMS	NIMS,1385,14B3	4O0	4	0	3,790,853:06:0	
554	97	19	04:11:31.733	20DF6H	6MCOPY	NIMS	NIMS,180B,LLM1A,2282,2283	4O0	4	0	3,790,854:06:0	
555	97	19	05:05:07.066	20DG6A	6CKSUM	NIMS	NIMS,1000,112C	4O0	4	0	3,790,907:06:0	
556	97	19	05:06:07.733	20DG6B	6MCOPY	NIMS	NIMS,180C,LLM1A,2282,2283	4O0	4	0	3,790,908:06:0	
557	97	19	05:07:08.400	20DG6C	6CKSUM	NIMS	NIMS,112D,1258	4O0	4	0	3,790,909:06:0	
558	97	19	05:08:09.066	20DG6D	6MCOPY	NIMS	NIMS,180D,LLM1A,2282,2283	4O0	4	0	3,790,910:06:0	
559	97	19	05:09:09.733	20DG6E	6CKSUM	NIMS	NIMS,1259,1384	4O0	4	0	3,790,911:06:0	
560	97	19	05:10:10.400	20DG6F	6MCOPY	NIMS	NIMS,180E,LLM1A,2282,2283	4O0	4	0	3,790,912:06:0	
561	97	19	05:11:11.066	20DG6G	6CKSUM	NIMS	NIMS,1385,14B3	4O0	4	0	3,790,913:06:0	
562	97	19	05:12:11.733	20DG6H	6MCOPY	NIMS	NIMS,180F,LLM1A,2282,2283	4O0	4	0	3,790,914:06:0	
563	97	19	06:05:47.066	20DH6A	6CKSUM	NIMS	NIMS,1000,112C	4O0	4	0	3,790,967:06:0	
564	97	19	06:06:47.666	20DH6B	6MCOPY	NIMS	NIMS,1810,LLM1A,2282,2283	4O0	4	0	3,790,968:06:0	
565	97	19	06:07:48.333	20DH6C	6CKSUM	NIMS	NIMS,112D,1258	4O0	4	0	3,790,969:06:0	
566	97	19	06:08:49.000	20DH6D	6MCOPY	NIMS	NIMS,1811,LLM1A,2282,2283	4O0	4	0	3,790,970:06:0	
567	97	19	06:09:49.666	20DH6E	6CKSUM	NIMS	NIMS,1259,1384	4O0	4	0	3,790,971:06:0	
568	97	19	06:10:50.333	20DH6F	6MCOPY	NIMS	NIMS,1812,LLM1A,2282,2283	4O0	4	0	3,790,972:06:0	
569	97	19	06:11:51.000	20DH6G	6CKSUM	NIMS	NIMS,1385,14B3	4O0	4	0	3,790,973:06:0	
570	97	19	06:12:51.666	20DH6H	6MCOPY	NIMS	NIMS,1813,LLM1A,2282,2283	4O0	4	0	3,790,974:06:0	
571	97	19	07:06:27.000	20DI6A	6CKSUM	NIMS	NIMS,1000,112C	4O0	4	0	3,791,027:06:0	
572	97	19	07:07:27.666	20DI6B	6MCOPY	NIMS	NIMS,1814,LLM1A,2282,2283	4O0	4	0	3,791,028:06:0	
573	97	19	07:08:28.333	20DI6C	6CKSUM	NIMS	NIMS,112D,1258	4O0	4	0	3,791,029:06:0	
574	97	19	07:09:29.000	20DI6D	6MCOPY	NIMS	NIMS,1815,LLM1A,2282,2283	4O0	4	0	3,791,030:06:0	
575	97	19	07:10:29.666	20DI6E	6CKSUM	NIMS	NIMS,1259,1384	4O0	4	0	3,791,031:06:0	
576	97	19	07:11:30.333	20DI6F	6MCOPY	NIMS	NIMS,1816,LLM1A,2282,2283	4O0	4	0	3,791,032:06:0	
577	97	19	07:12:31.000	20DI6G	6CKSUM	NIMS	NIMS,1385,14B3	4O0	4	0	3,791,033:06:0	
578	97	19	07:13:31.666	20DI6H	6MCOPY	NIMS	NIMS,1817,LLM1A,2282,2283	4O0	4	0	3,791,034:06:0	
579	97	19	08:07:07.000	20DJ6A	6CKSUM	NIMS	NIMS,1000,112C	4O0	4	0	3,791,087:06:0	
580	97	19	08:08:07.666	20DJ6B	6MCOPY	NIMS	NIMS,1818,LLM1A,2282,2283	4O0	4	0	3,791,088:06:0	
581	97	19	08:09:08.333	20DJ6C	6CKSUM	NIMS	NIMS,112D,1258	4O0	4	0	3,791,089:06:0	
582	97	19	08:10:09.000	20DJ6D	6MCOPY	NIMS	NIMS,1819,LLM1A,2282,2283	4O0	4	0	3,791,090:06:0	
583	97	19	08:11:09.666	20DJ6E	6CKSUM	NIMS	NIMS,1259,1384	4O0	4	0	3,791,091:06:0	
584	97	19	08:12:10.333	20DJ6F	6MCOPY	NIMS	NIMS,181A,LLM1A,2282,2283	4O0	4	0	3,791,092:06:0	
585	97	19	08:13:11.000	20DJ6G	6CKSUM	NIMS	NIMS,1385,14B3	4O0	4	0	3,791,093:06:0	
586	97	19	08:14:11.666	20DJ6H	6MCOPY	NIMS	NIMS,181B,LLM1A,2282,2283	4O0	4	0	3,791,094:06:0	
587	97	19	09:07:47.000	20DK6A	6CKSUM	NIMS	NIMS,1000,112C	4O0	4	0	3,791,147:06:0	
588	97	19	09:08:47.666	20DK6B	6MCOPY	NIMS	NIMS,181C,LLM1A,2282,2283	4O0	4	0	3,791,148:06:0	
589	97	19	09:09:48.333	20DK6C	6CKSUM	NIMS	NIMS,112D,1258	4O0	4	0	3,791,149:06:0	
590	97	19	09:10:49.000	20DK6D	6MCOPY	NIMS	NIMS,181D,LLM1A,2282,2283	4O0	4	0	3,791,150:06:0	
591	97	19	09:11:49.666	20DK6E	6CKSUM	NIMS	NIMS,1259,1384	4O0	4	0	3,791,151:06:0	
592	97	19	09:12:50.333	20DK6F	6MCOPY	NIMS	NIMS,181E,LLM1A,2282,2283	4O0	4	0	3,791,152:06:0	
593	97	19	09:13:51.000	20DK6G	6CKSUM	NIMS	NIMS,1385,14B3	4O0	4	0	3,791,153:06:0	
594	97	19	09:14:51.666	20DK6H	6MCOPY	NIMS	NIMS,181F,LLM1A,2282,2283	4O0	4	0	3,791,154:06:0	
595	97	19	10:08:27.000	20DL6A	6CKSUM	NIMS	NIMS,1000,112C	4O0	4	0	3,791,207:06:0	
596	97	19	10:09:27.666	20DL6B	6MCOPY	NIMS	NIMS,1820,LLM1A,2282,2283	4O0	4	0	3,791,208:06:0	
597	97	19	10:10:28.333	20DL6C	6CKSUM	NIMS	NIMS,112D,1258	4O0	4	0	3,791,209:06:0	
598	97	19	10:11:29.000	20DL6D	6MCOPY	NIMS	NIMS,1821,LLM1A,2282,2283	4O0	4	0	3,791,210:06:0	
599	97	19	10:12:29.666	20DL6E	6CKSUM	NIMS	NIMS,1259,1384	4O0	4	0	3,791,211:06:0	
600	97	19	10:13:30.333	20DL6F	6MCOPY	NIMS	NIMS,1822,LLM1A,2282,2283	4O0	4	0	3,791,212:06:0	
601	97	19	10:14:31.000	20DL6G	6CKSUM	NIMS	NIMS,1385,14B3	4O0	4	0	3,791,213:06:0	
602	97	19	10:15:31.666	20DL6H	6MCOPY	NIMS	NIMS,1823,LLM1A,2282,2283	4O0	4	0	3,791,214:06:0	
603	97	19	11:09:07.000	20DM6A	6CKSUM	NIMS	NIMS,1000,112C	4O0	4	0	3,791,267:06:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
604	97	19	11:10:07.666	20DM6B	6MCOPY	NIMS	NIMS,1824,LLM1A,2282,2283	4O0	4	0	3,791,268:06:0	
605	97	19	11:11:08.333	20DM6C	6CKSUM	NIMS	NIMS,112D,1258	4O0	4	0	3,791,269:06:0	
606	97	19	11:12:09.000	20DM6D	6MCOPY	NIMS	NIMS,1825,LLM1A,2282,2283	4O0	4	0	3,791,270:06:0	
607	97	19	11:13:09.666	20DM6E	6CKSUM	NIMS	NIMS,1259,1384	4O0	4	0	3,791,271:06:0	
608	97	19	11:14:10.333	20DM6F	6MCOPY	NIMS	NIMS,1826,LLM1A,2282,2283	4O0	4	0	3,791,272:06:0	
609	97	19	11:15:11.000	20DM6G	6CKSUM	NIMS	NIMS,1385,14B3	4O0	4	0	3,791,273:06:0	
610	97	19	11:16:11.666	20DM6H	6MCOPY	NIMS	NIMS,1827,LLM1A,2282,2283	4O0	4	0	3,791,274:06:0	
611	97	19	12:09:47.000	20DN6A	6CKSUM	NIMS	NIMS,1000,112C	4O0	4	0	3,791,327:06:0	
612	97	19	12:10:47.666	20DN6B	6MCOPY	NIMS	NIMS,1828,LLM1A,2282,2283	4O0	4	0	3,791,328:06:0	
613	97	19	12:11:48.333	20DN6C	6CKSUM	NIMS	NIMS,112D,1258	4O0	4	0	3,791,329:06:0	
614	97	19	12:12:49.000	20DN6D	6MCOPY	NIMS	NIMS,1829,LLM1A,2282,2283	4O0	4	0	3,791,330:06:0	
615	97	19	12:13:49.666	20DN6E	6CKSUM	NIMS	NIMS,1259,1372	4O0	4	0	3,791,331:06:0	
616	97	19	12:14:50.333	20DN6F	6MCOPY	NIMS	NIMS,182A,LLM1A,2282,2283	4O0	4	0	3,791,332:06:0	
617	97	19	12:15:51.000	20DN6G	6CKSUM	NIMS	NIMS,1373,14B3	4O0	4	0	3,791,333:06:0	
618	97	19	12:16:51.666	20DN6H	6MCOPY	NIMS	NIMS,182B,LLM1A,2282,2283	4O0	4	0	3,791,334:06:0	
619	97	19	13:10:27.000	20DO6A	6CKSUM	NIMS	NIMS,1000,10C8	4O0	4	0	3,791,387:06:0	
620	97	19	13:11:27.666	20DO6B	6MCOPY	NIMS	NIMS,182C,LLM1A,2282,2283	4O0	4	0	3,791,388:06:0	
621	97	19	13:12:28.333	20DO6C	6CKSUM	NIMS	NIMS,10C9,1190	4O0	4	0	3,791,389:06:0	
622	97	19	13:13:29.000	20DO6D	6MCOPY	NIMS	NIMS,182D,LLM1A,2282,2283	4O0	4	0	3,791,390:06:0	
623	97	19	13:14:29.666	20DO6E	6CKSUM	NIMS	NIMS,1191,1258	4O0	4	0	3,791,391:06:0	
624	97	19	13:15:30.333	20DO6F	6MCOPY	NIMS	NIMS,182E,LLM1A,2282,2283	4O0	4	0	3,791,392:06:0	
625	97	19	13:16:31.000	20DO6G	6CKSUM	NIMS	NIMS,1259,1320	4O0	4	0	3,791,393:06:0	
626	97	19	13:17:31.666	20DO6H	6MCOPY	NIMS	NIMS,182F,LLM1A,2282,2283	4O0	4	0	3,791,394:06:0	
627	97	19	13:18:32.333	20DO6I	6CKSUM	NIMS	NIMS,1321,13E7	4O0	4	0	3,791,395:06:0	
628	97	19	13:19:33.000	20DO6J	6MCOPY	NIMS	NIMS,1830,LLM1A,2282,2283	4O0	4	0	3,791,396:06:0	
629	97	19	13:20:33.666	20DO6K	6CKSUM	NIMS	NIMS,13E8,14B3	4O0	4	0	3,791,397:06:0	
630	97	19	13:21:34.333	20DO6L	6MCOPY	NIMS	NIMS,1831,LLM1A,2282,2283	4O0	4	0	3,791,398:06:0	
631	97	19	14:11:07.000	20DP6A	6CKSUM	NIMS	NIMS,1000,10C8	4O0	4	0	3,791,447:06:0	
632	97	19	14:12:07.666	20DP6B	6MCOPY	NIMS	NIMS,1832,LLM1A,2282,2283	4O0	4	0	3,791,448:06:0	
633	97	19	14:13:08.333	20DP6C	6CKSUM	NIMS	NIMS,10C9,1190	4O0	4	0	3,791,449:06:0	
634	97	19	14:14:09.000	20DP6D	6MCOPY	NIMS	NIMS,1833,LLM1A,2282,2283	4O0	4	0	3,791,450:06:0	
635	97	19	14:15:09.666	20DP6E	6CKSUM	NIMS	NIMS,1191,1258	4O0	4	0	3,791,451:06:0	
636	97	19	14:16:10.333	20DP6F	6MCOPY	NIMS	NIMS,1834,LLM1A,2282,2283	4O0	4	0	3,791,452:06:0	
637	97	19	14:17:11.000	20DP6G	6CKSUM	NIMS	NIMS,1259,1320	4O0	4	0	3,791,453:06:0	
638	97	19	14:18:11.666	20DP6H	6MCOPY	NIMS	NIMS,1835,LLM1A,2282,2283	4O0	4	0	3,791,454:06:0	
639	97	19	14:19:12.333	20DP6I	6CKSUM	NIMS	NIMS,1321,13E7	4O0	4	0	3,791,455:06:0	
640	97	19	14:20:13.000	20DP6J	6MCOPY	NIMS	NIMS,1836,LLM1A,2282,2283	4O0	4	0	3,791,456:06:0	
641	97	19	14:21:13.666	20DP6K	6CKSUM	NIMS	NIMS,13E8,14B3	4O0	4	0	3,791,457:06:0	
642	97	19	14:22:14.333	20DP6L	6MCOPY	NIMS	NIMS,1837,LLM1A,2282,2283	4O0	4	0	3,791,458:06:0	
643	97	19	15:11:47.000	20DQ6A	6CKSUM	NIMS	NIMS,1000,10C8	4O0	4	0	3,791,507:06:0	
644	97	19	15:12:47.666	20DQ6B	6MCOPY	NIMS	NIMS,1838,LLM1A,2282,2283	4O0	4	0	3,791,508:06:0	
645	97	19	15:13:48.333	20DQ6C	6CKSUM	NIMS	NIMS,10C9,1190	4O0	4	0	3,791,509:06:0	
646	97	19	15:14:49.000	20DQ6D	6MCOPY	NIMS	NIMS,1839,LLM1A,2282,2283	4O0	4	0	3,791,510:06:0	
647	97	19	15:15:49.666	20DQ6E	6CKSUM	NIMS	NIMS,1191,1258	4O0	4	0	3,791,511:06:0	
648	97	19	15:16:50.333	20DQ6F	6MCOPY	NIMS	NIMS,183A,LLM1A,2282,2283	4O0	4	0	3,791,512:06:0	
649	97	19	15:17:51.000	20DQ6G	6CKSUM	NIMS	NIMS,1259,1320	4O0	4	0	3,791,513:06:0	
650	97	19	15:18:51.666	20DQ6H	6MCOPY	NIMS	NIMS,183B,LLM1A,2282,2283	4O0	4	0	3,791,514:06:0	
651	97	19	15:19:52.333	20DQ6I	6CKSUM	NIMS	NIMS,1321,13E7	4O0	4	0	3,791,515:06:0	
652	97	19	15:20:53.000	20DQ6J	6MCOPY	NIMS	NIMS,183C,LLM1A,2282,2283	4O0	4	0	3,791,516:06:0	
653	97	19	15:21:53.666	20DQ6K	6CKSUM	NIMS	NIMS,13E8,14B3	4O0	4	0	3,791,517:06:0	
654	97	19	15:22:54.333	20DQ6L	6MCOPY	NIMS	NIMS,183D,LLM1A,2282,2283	4O0	4	0	3,791,518:06:0	
655	97	19	16:12:27.000	20DR6A	6CKSUM	NIMS	NIMS,1000,10C8	4O0	4	0	3,791,567:06:0	
656	97	19	16:13:27.666	20DR6B	6MCOPY	NIMS	NIMS,183E,LLM1A,2282,2283	4O0	4	0	3,791,568:06:0	
657	97	19	16:14:28.333	20DR6C	6CKSUM	NIMS	NIMS,10C9,1190	4O0	4	0	3,791,569:06:0	
658	97	19	16:15:29.000	20DR6D	6MCOPY	NIMS	NIMS,183F,LLM1A,2282,2283	4O0	4	0	3,791,570:06:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
659	97	19	16:16:29.666	20DR6E	6CKSUM	NIMS	NIMS,1191,1258	4O0	4	0	3,791,571:06:0	
660	97	19	16:17:30.333	20DR6F	6MCOPY	NIMS	NIMS,1840,LLM1A,2282,2283	4O0	4	0	3,791,572:06:0	
661	97	19	16:18:31.000	20DR6G	6CKSUM	NIMS	NIMS,1259,1320	4O0	4	0	3,791,573:06:0	
662	97	19	16:19:31.666	20DR6H	6MCOPY	NIMS	NIMS,1841,LLM1A,2282,2283	4O0	4	0	3,791,574:06:0	
663	97	19	16:20:32.333	20DR6I	6CKSUM	NIMS	NIMS,1321,13E7	4O0	4	0	3,791,575:06:0	
664	97	19	16:21:33.000	20DR6J	6MCOPY	NIMS	NIMS,1842,LLM1A,2282,2283	4O0	4	0	3,791,576:06:0	
665	97	19	16:22:33.666	20DR6K	6CKSUM	NIMS	NIMS,13E8,14B3	4O0	4	0	3,791,577:06:0	
666	97	19	16:23:34.333	20DR6L	6MCOPY	NIMS	NIMS,1843,LLM1A,2282,2283	4O0	4	0	3,791,578:06:0	
667	97	19	17:13:07.000	20DS6A	6CKSUM	NIMS	NIMS,1000,10C8	4O0	4	0	3,791,627:06:0	
668	97	19	17:14:07.666	20DS6B	6MCOPY	NIMS	NIMS,1844,LLM1A,2282,2283	4O0	4	0	3,791,628:06:0	
669	97	19	17:15:08.333	20DS6C	6CKSUM	NIMS	NIMS,10C9,1190	4O0	4	0	3,791,629:06:0	
670	97	19	17:16:09.000	20DS6D	6MCOPY	NIMS	NIMS,1845,LLM1A,2282,2283	4O0	4	0	3,791,630:06:0	
671	97	19	17:17:09.666	20DS6E	6CKSUM	NIMS	NIMS,1191,1258	4O0	4	0	3,791,631:06:0	
672	97	19	17:18:10.333	20DS6F	6MCOPY	NIMS	NIMS,1846,LLM1A,2282,2283	4O0	4	0	3,791,632:06:0	
673	97	19	17:19:11.000	20DS6G	6CKSUM	NIMS	NIMS,1259,1320	4O0	4	0	3,791,633:06:0	
674	97	19	17:20:11.666	20DS6H	6MCOPY	NIMS	NIMS,1847,LLM1A,2282,2283	4O0	4	0	3,791,634:06:0	
675	97	19	17:21:12.333	20DS6I	6CKSUM	NIMS	NIMS,1321,13E7	4O0	4	0	3,791,635:06:0	
676	97	19	17:22:13.000	20DS6J	6MCOPY	NIMS	NIMS,1848,LLM1A,2282,2283	4O0	4	0	3,791,636:06:0	
677	97	19	17:23:13.666	20DS6K	6CKSUM	NIMS	NIMS,13E8,14B3	4O0	4	0	3,791,637:06:0	
678	97	19	17:24:14.333	20DS6L	6MCOPY	NIMS	NIMS,1849,LLM1A,2282,2283	4O0	4	0	3,791,638:06:0	
679	97	19	18:13:47.000	20DT6A	6CKSUM	NIMS	NIMS,1000,10C8	4O0	4	0	3,791,687:06:0	
680	97	19	18:14:47.666	20DT6B	6MCOPY	NIMS	NIMS,184A,LLM1A,2282,2283	4O0	4	0	3,791,688:06:0	
681	97	19	18:15:48.333	20DT6C	6CKSUM	NIMS	NIMS,10C9,1190	4O0	4	0	3,791,689:06:0	
682	97	19	18:16:49.000	20DT6D	6MCOPY	NIMS	NIMS,184B,LLM1A,2282,2283	4O0	4	0	3,791,690:06:0	
683	97	19	18:17:49.666	20DT6E	6CKSUM	NIMS	NIMS,1191,1258	4O0	4	0	3,791,691:06:0	
684	97	19	18:18:50.333	20DT6F	6MCOPY	NIMS	NIMS,184C,LLM1A,2282,2283	4O0	4	0	3,791,692:06:0	
685	97	19	18:19:51.000	20DT6G	6CKSUM	NIMS	NIMS,1259,1320	4O0	4	0	3,791,693:06:0	
686	97	19	18:20:51.666	20DT6H	6MCOPY	NIMS	NIMS,184D,LLM1A,2282,2283	4O0	4	0	3,791,694:06:0	
687	97	19	18:21:52.333	20DT6I	6CKSUM	NIMS	NIMS,1321,13E7	4O0	4	0	3,791,695:06:0	
688	97	19	18:22:53.000	20DT6J	6MCOPY	NIMS	NIMS,184E,LLM1A,2282,2283	4O0	4	0	3,791,696:06:0	
689	97	19	18:23:53.666	20DT6K	6CKSUM	NIMS	NIMS,13E8,14B3	4O0	4	0	3,791,697:06:0	
690	97	19	18:24:54.333	20DT6L	6MCOPY	NIMS	NIMS,184F,LLM1A,2282,2283	4O0	4	0	3,791,698:06:0	
691	97	19	19:14:27.000	20DU6A	6CKSUM	NIMS	NIMS,1000,1096	4O0	4	0	3,791,747:06:0	
692	97	19	19:15:27.666	20DU6B	6MCOPY	NIMS	NIMS,1850,LLM1A,2282,2283	4O0	4	0	3,791,748:06:0	
693	97	19	19:16:28.333	20DU6C	6CKSUM	NIMS	NIMS,1097,112C	4O0	4	0	3,791,749:06:0	
694	97	19	19:17:29.000	20DU6D	6MCOPY	NIMS	NIMS,1851,LLM1A,2282,2283	4O0	4	0	3,791,750:06:0	
695	97	19	19:18:29.666	20DU6E	6CKSUM	NIMS	NIMS,112D,11C2	4O0	4	0	3,791,751:06:0	
696	97	19	19:19:30.333	20DU6F	6MCOPY	NIMS	NIMS,1852,LLM1A,2282,2283	4O0	4	0	3,791,752:06:0	
697	97	19	19:20:31.000	20DU6G	6CKSUM	NIMS	NIMS,11C3,1258	4O0	4	0	3,791,753:06:0	
698	97	19	19:21:31.666	20DU6H	6MCOPY	NIMS	NIMS,1853,LLM1A,2282,2283	4O0	4	0	3,791,754:06:0	
699	97	19	19:22:32.333	20DU6I	6CKSUM	NIMS	NIMS,1259,12EE	4O0	4	0	3,791,755:06:0	
700	97	19	19:23:33.000	20DU6J	6MCOPY	NIMS	NIMS,1854,LLM1A,2282,2283	4O0	4	0	3,791,756:06:0	
701	97	19	19:24:33.666	20DU6K	6CKSUM	NIMS	NIMS,12EF,1384	4O0	4	0	3,791,757:06:0	
702	97	19	19:25:34.333	20DU6L	6MCOPY	NIMS	NIMS,1855,LLM1A,2282,2283	4O0	4	0	3,791,758:06:0	
703	97	19	19:26:35.000	20DU6M	6CKSUM	NIMS	NIMS,1385,141A	4O0	4	0	3,791,759:06:0	
704	97	19	19:27:35.666	20DU6N	6MCOPY	NIMS	NIMS,1856,LLM1A,2282,2283	4O0	4	0	3,791,760:06:0	
705	97	19	19:28:36.333	20DU6O	6CKSUM	NIMS	NIMS,141B,14B3	4O0	4	0	3,791,761:06:0	
706	97	19	19:29:37.000	20DU6P	6MCOPY	NIMS	NIMS,1857,LLM1A,2282,2283	4O0	4	0	3,791,762:06:0	
707	97	19	20:15:07.000	20DV6A	6CKSUM	NIMS	NIMS,1000,1096	4O0	4	0	3,791,807:06:0	
708	97	19	20:16:07.666	20DV6B	6MCOPY	NIMS	NIMS,1858,LLM1A,2282,2283	4O0	4	0	3,791,808:06:0	
709	97	19	20:17:08.333	20DV6C	6CKSUM	NIMS	NIMS,1097,112C	4O0	4	0	3,791,809:06:0	
710	97	19	20:18:09.000	20DV6D	6MCOPY	NIMS	NIMS,1859,LLM1A,2282,2283	4O0	4	0	3,791,810:06:0	
711	97	19	20:19:09.666	20DV6E	6CKSUM	NIMS	NIMS,112D,11C2	4O0	4	0	3,791,811:06:0	
712	97	19	20:20:10.333	20DV6F	6MCOPY	NIMS	NIMS,185A,LLM1A,2282,2283	4O0	4	0	3,791,812:06:0	
713	97	19	20:21:11.000	20DV6G	6CKSUM	NIMS	NIMS,11C3,1258	4O0	4	0	3,791,813:06:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
714	97	19	20:22:11.666	20DV6H	6MCOPY	NIMS	NIMS,185B,LLM1A,2282,2283	4O0	4	0	3,791,814:06:0	
715	97	19	20:23:12.333	20DV6I	6CKSUM	NIMS	NIMS,1259,12EE	4O0	4	0	3,791,815:06:0	
716	97	19	20:24:13.000	20DV6J	6MCOPY	NIMS	NIMS,185C,LLM1A,2282,2283	4O0	4	0	3,791,816:06:0	
717	97	19	20:25:13.666	20DV6K	6CKSUM	NIMS	NIMS,12EF,1384	4O0	4	0	3,791,817:06:0	
718	97	19	20:26:14.333	20DV6L	6MCOPY	NIMS	NIMS,185D,LLM1A,2282,2283	4O0	4	0	3,791,818:06:0	
719	97	19	20:27:15.000	20DV6M	6CKSUM	NIMS	NIMS,1385,141A	4O0	4	0	3,791,819:06:0	
720	97	19	20:28:15.666	20DV6N	6MCOPY	NIMS	NIMS,185E,LLM1A,2282,2283	4O0	4	0	3,791,820:06:0	
721	97	19	20:29:16.333	20DV6O	6CKSUM	NIMS	NIMS,141B,14B3	4O0	4	0	3,791,821:06:0	
722	97	19	20:30:17.000	20DV6P	6MCOPY	NIMS	NIMS,185F,LLM1A,2282,2283	4O0	4	0	3,791,822:06:0	
723	97	19	21:15:47.000	20DW6A	6CKSUM	NIMS	NIMS,1000,1096	4O0	4	0	3,791,867:06:0	
724	97	19	21:16:47.666	20DW6B	6MCOPY	NIMS	NIMS,1860,LLM1A,2282,2283	4O0	4	0	3,791,868:06:0	
725	97	19	21:17:48.333	20DW6C	6CKSUM	NIMS	NIMS,1097,112C	4O0	4	0	3,791,869:06:0	
726	97	19	21:18:49.000	20DW6D	6MCOPY	NIMS	NIMS,1861,LLM1A,2282,2283	4O0	4	0	3,791,870:06:0	
727	97	19	21:19:49.666	20DW6E	6CKSUM	NIMS	NIMS,112D,11C2	4O0	4	0	3,791,871:06:0	
728	97	19	21:20:50.333	20DW6F	6MCOPY	NIMS	NIMS,1862,LLM1A,2282,2283	4O0	4	0	3,791,872:06:0	
729	97	19	21:21:51.000	20DW6G	6CKSUM	NIMS	NIMS,11C3,1258	4O0	4	0	3,791,873:06:0	
730	97	19	21:22:51.666	20DW6H	6MCOPY	NIMS	NIMS,1863,LLM1A,2282,2283	4O0	4	0	3,791,874:06:0	
731	97	19	21:23:52.333	20DW6I	6CKSUM	NIMS	NIMS,1259,12EE	4O0	4	0	3,791,875:06:0	
732	97	19	21:24:53.000	20DW6J	6MCOPY	NIMS	NIMS,1864,LLM1A,2282,2283	4O0	4	0	3,791,876:06:0	
733	97	19	21:25:53.666	20DW6K	6CKSUM	NIMS	NIMS,12EF,1384	4O0	4	0	3,791,877:06:0	
734	97	19	21:26:54.333	20DW6L	6MCOPY	NIMS	NIMS,1865,LLM1A,2282,2283	4O0	4	0	3,791,878:06:0	
735	97	19	21:27:55.000	20DW6M	6CKSUM	NIMS	NIMS,1385,141A	4O0	4	0	3,791,879:06:0	
736	97	19	21:28:55.666	20DW6N	6MCOPY	NIMS	NIMS,1866,LLM1A,2282,2283	4O0	4	0	3,791,880:06:0	
737	97	19	21:29:56.333	20DW6O	6CKSUM	NIMS	NIMS,141B,14B3	4O0	4	0	3,791,881:06:0	
738	97	19	21:30:57.000	20DW6P	6MCOPY	NIMS	NIMS,1867,LLM1A,2282,2283	4O0	4	0	3,791,882:06:0	
739	97	19	22:16:27.000	20DX6A	6CKSUM	NIMS	NIMS,1000,1096	4O0	4	0	3,791,927:06:0	
740	97	19	22:17:27.666	20DX6B	6MCOPY	NIMS	NIMS,1868,LLM1A,2282,2283	4O0	4	0	3,791,928:06:0	
741	97	19	22:18:28.333	20DX6C	6CKSUM	NIMS	NIMS,1097,112C	4O0	4	0	3,791,929:06:0	
742	97	19	22:19:29.000	20DX6D	6MCOPY	NIMS	NIMS,1869,LLM1A,2282,2283	4O0	4	0	3,791,930:06:0	
743	97	19	22:20:29.666	20DX6E	6CKSUM	NIMS	NIMS,112D,11C2	4O0	4	0	3,791,931:06:0	
744	97	19	22:21:30.333	20DX6F	6MCOPY	NIMS	NIMS,186A,LLM1A,2282,2283	4O0	4	0	3,791,932:06:0	
745	97	19	22:22:31.000	20DX6G	6CKSUM	NIMS	NIMS,11C3,1258	4O0	4	0	3,791,933:06:0	
746	97	19	22:23:31.666	20DX6H	6MCOPY	NIMS	NIMS,186B,LLM1A,2282,2283	4O0	4	0	3,791,934:06:0	
747	97	19	22:24:32.333	20DX6I	6CKSUM	NIMS	NIMS,1259,12EE	4O0	4	0	3,791,935:06:0	
748	97	19	22:25:33.000	20DX6J	6MCOPY	NIMS	NIMS,186C,LLM1A,2282,2283	4O0	4	0	3,791,936:06:0	
749	97	19	22:26:33.666	20DX6K	6CKSUM	NIMS	NIMS,12EF,1384	4O0	4	0	3,791,937:06:0	
750	97	19	22:27:34.333	20DX6L	6MCOPY	NIMS	NIMS,186D,LLM1A,2282,2283	4O0	4	0	3,791,938:06:0	
751	97	19	22:28:35.000	20DX6M	6CKSUM	NIMS	NIMS,1385,141A	4O0	4	0	3,791,939:06:0	
752	97	19	22:29:35.666	20DX6N	6MCOPY	NIMS	NIMS,186E,LLM1A,2282,2283	4O0	4	0	3,791,940:06:0	
753	97	19	22:30:36.333	20DX6O	6CKSUM	NIMS	NIMS,141B,14B3	4O0	4	0	3,791,941:06:0	
754	97	19	22:31:37.000	20DX6P	6MCOPY	NIMS	NIMS,186F,LLM1A,2282,2283	4O0	4	0	3,791,942:06:0	
755	97	19	23:27:13.666	20DY6A	6CKSUM	NIMS	NIMS,1000,1096	4O0	4	0	3,791,997:06:0	
756	97	19	23:28:14.333	20DY6B	6MCOPY	NIMS	NIMS,1870,LLM1A,2282,2283	4O0	4	0	3,791,998:06:0	
757	97	19	23:29:15.000	20DY6C	6CKSUM	NIMS	NIMS,1097,112C	4O0	4	0	3,791,999:06:0	
758	97	19	23:30:15.666	20DY6D	6MCOPY	NIMS	NIMS,1871,LLM1A,2282,2283	4O0	4	0	3,792,000:06:0	
759	97	19	23:31:16.333	20DY6E	6CKSUM	NIMS	NIMS,112D,11C2	4O0	4	0	3,792,001:06:0	
760	97	19	23:32:17.000	20DY6F	6MCOPY	NIMS	NIMS,1872,LLM1A,2282,2283	4O0	4	0	3,792,002:06:0	
761	97	19	23:33:17.666	20DY6G	6CKSUM	NIMS	NIMS,11C3,1258	4O0	4	0	3,792,003:06:0	
762	97	19	23:34:18.333	20DY6H	6MCOPY	NIMS	NIMS,1873,LLM1A,2282,2283	4O0	4	0	3,792,004:06:0	
763	97	19	23:35:19.000	20DY6I	6CKSUM	NIMS	NIMS,1259,12EE	4O0	4	0	3,792,005:06:0	
764	97	19	23:36:19.666	20DY6J	6MCOPY	NIMS	NIMS,1874,LLM1A,2282,2283	4O0	4	0	3,792,006:06:0	
765	97	19	23:37:20.333	20DY6K	6CKSUM	NIMS	NIMS,12EF,1384	4O0	4	0	3,792,007:06:0	
766	97	19	23:38:21.000	20DY6L	6MCOPY	NIMS	NIMS,1875,LLM1A,2282,2283	4O0	4	0	3,792,008:06:0	
767	97	19	23:39:21.666	20DY6M	6CKSUM	NIMS	NIMS,1385,141A	4O0	4	0	3,792,009:06:0	
768	97	19	23:40:22.333	20DY6N	6MCOPY	NIMS	NIMS,1876,LLM1A,2282,2283	4O0	4	0	3,792,010:06:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
769	97	19	23:41:23.000	20DY6O	6CKSUM	NIMS	NIMS,141B,14B3	4O0	4	0	3,792,011	06:0
770	97	19	23:42:23.666	20DY6P	6MCOPY	NIMS	NIMS,1877,LLM1A,2282,2283	4O0	4	0	3,792,012	06:0
771	97	20	00:17:47.000	20DZ6A	6CKSUM	NIMS	NIMS,1000,1096	4O0	4	0	3,792,047	06:0
772	97	20	00:18:47.666	20DZ6B	6MCOPY	NIMS	NIMS,1878,LLM1A,2282,2283	4O0	4	0	3,792,048	06:0
773	97	20	00:19:48.333	20DZ6C	6CKSUM	NIMS	NIMS,1097,112C	4O0	4	0	3,792,049	06:0
774	97	20	00:20:49.000	20DZ6D	6MCOPY	NIMS	NIMS,1879,LLM1A,2282,2283	4O0	4	0	3,792,050	06:0
775	97	20	00:21:49.666	20DZ6E	6CKSUM	NIMS	NIMS,112D,11C2	4O0	4	0	3,792,051	06:0
776	97	20	00:22:50.333	20DZ6F	6MCOPY	NIMS	NIMS,187A,LLM1A,2282,2283	4O0	4	0	3,792,052	06:0
777	97	20	00:23:51.000	20DZ6G	6CKSUM	NIMS	NIMS,11C3,1258	4O0	4	0	3,792,053	06:0
778	97	20	00:24:51.666	20DZ6H	6MCOPY	NIMS	NIMS,187B,LLM1A,2282,2283	4O0	4	0	3,792,054	06:0
779	97	20	00:25:52.333	20DZ6I	6CKSUM	NIMS	NIMS,1259,12EE	4O0	4	0	3,792,055	06:0
780	97	20	00:26:53.000	20DZ6J	6MCOPY	NIMS	NIMS,187C,LLM1A,2282,2283	4O0	4	0	3,792,056	06:0
781	97	20	00:27:53.666	20DZ6K	6CKSUM	NIMS	NIMS,12EF,1384	4O0	4	0	3,792,057	06:0
782	97	20	00:28:54.333	20DZ6L	6MCOPY	NIMS	NIMS,187D,LLM1A,2282,2283	4O0	4	0	3,792,058	06:0
783	97	20	00:29:55.000	20DZ6M	6CKSUM	NIMS	NIMS,1385,141A	4O0	4	0	3,792,059	06:0
784	97	20	00:30:55.666	20DZ6N	6MCOPY	NIMS	NIMS,187E,LLM1A,2282,2283	4O0	4	0	3,792,060	06:0
785	97	20	00:31:56.333	20DZ6O	6CKSUM	NIMS	NIMS,141B,14B3	4O0	4	0	3,792,061	06:0
786	97	20	00:32:57.000	20DZ6P	6MCOPY	NIMS	NIMS,187F,LLM1A,2282,2283	4O0	4	0	3,792,062	06:0
787	97	20	01:05:00.333	481UD4A	7VECT	BB1	Inert vect update UTC	4O0	4	0	3,792,093	70:0
788	97	20	01:28:33.666	20EY6A	6CKSUM	NIMS	NIMS,1000,1096	4O0	4	0	3,792,117	06:0
789	97	20	01:29:34.333	20EY6B	6MCOPY	NIMS	NIMS,1880,LLM1A,2282,2283	4O0	4	0	3,792,118	06:0
790	97	20	01:30:35.000	20EY6C	6CKSUM	NIMS	NIMS,1097,112C	4O0	4	0	3,792,119	06:0
791	97	20	01:31:35.666	20EY6D	6MCOPY	NIMS	NIMS,1881,LLM1A,2282,2283	4O0	4	0	3,792,120	06:0
792	97	20	01:32:36.333	20EY6E	6CKSUM	NIMS	NIMS,112D,11C2	4O0	4	0	3,792,121	06:0
793	97	20	01:33:37.000	20EY6F	6MCOPY	NIMS	NIMS,1882,LLM1A,2282,2283	4O0	4	0	3,792,122	06:0
794	97	20	01:34:37.666	20EY6G	6CKSUM	NIMS	NIMS,11C3,1258	4O0	4	0	3,792,123	06:0
795	97	20	01:35:38.333	20EY6H	6MCOPY	NIMS	NIMS,1883,LLM1A,2282,2283	4O0	4	0	3,792,124	06:0
796	97	20	01:36:39.000	20EY6I	6CKSUM	NIMS	NIMS,1259,12EE	4O0	4	0	3,792,125	06:0
797	97	20	01:37:39.666	20EY6J	6MCOPY	NIMS	NIMS,1884,LLM1A,2282,2283	4O0	4	0	3,792,126	06:0
798	97	20	01:38:40.333	20EY6K	6CKSUM	NIMS	NIMS,12EF,1384	4O0	4	0	3,792,127	06:0
799	97	20	01:39:41.000	20EY6L	6MCOPY	NIMS	NIMS,1885,LLM1A,2282,2283	4O0	4	0	3,792,128	06:0
800	97	20	01:40:41.666	20EY6M	6CKSUM	NIMS	NIMS,1385,141A	4O0	4	0	3,792,129	06:0
801	97	20	01:41:42.333	20EY6N	6MCOPY	NIMS	NIMS,1886,LLM1A,2282,2283	4O0	4	0	3,792,130	06:0
802	97	20	01:42:43.000	20EY6O	6CKSUM	NIMS	NIMS,141B,14B3	4O0	4	0	3,792,131	06:0
803	97	20	01:43:43.666	20EY6P	6MCOPY	NIMS	NIMS,1887,LLM1A,2282,2283	4O0	4	0	3,792,132	06:0
804	97	20	02:39:20.333	20EX6A	6CKSUM	NIMS	NIMS,1000,1096	4O0	4	0	3,792,187	06:0
805	97	20	02:40:21.000	20EX6B	6MCOPY	NIMS	NIMS,1888,LLM1A,2282,2283	4O0	4	0	3,792,188	06:0
806	97	20	02:41:21.666	20EX6C	6CKSUM	NIMS	NIMS,1097,112C	4O0	4	0	3,792,189	06:0
807	97	20	02:42:22.333	20EX6D	6MCOPY	NIMS	NIMS,1889,LLM1A,2282,2283	4O0	4	0	3,792,190	06:0
808	97	20	02:43:23.000	20EX6E	6CKSUM	NIMS	NIMS,112D,11C2	4O0	4	0	3,792,191	06:0
809	97	20	02:44:23.666	20EX6F	6MCOPY	NIMS	NIMS,188A,LLM1A,2282,2283	4O0	4	0	3,792,192	06:0
810	97	20	02:45:24.333	20EX6G	6CKSUM	NIMS	NIMS,11C3,1258	4O0	4	0	3,792,193	06:0
811	97	20	02:46:25.000	20EX6H	6MCOPY	NIMS	NIMS,188B,LLM1A,2282,2283	4O0	4	0	3,792,194	06:0
812	97	20	02:47:25.666	20EX6I	6CKSUM	NIMS	NIMS,1259,12EE	4O0	4	0	3,792,195	06:0
813	97	20	02:48:26.333	20EX6J	6MCOPY	NIMS	NIMS,188C,LLM1A,2282,2283	4O0	4	0	3,792,196	06:0
814	97	20	02:49:27.000	20EX6K	6CKSUM	NIMS	NIMS,12EF,1384	4O0	4	0	3,792,197	06:0
815	97	20	02:50:27.666	20EX6L	6MCOPY	NIMS	NIMS,188D,LLM1A,2282,2283	4O0	4	0	3,792,198	06:0
816	97	20	02:51:28.333	20EX6M	6CKSUM	NIMS	NIMS,1385,141A	4O0	4	0	3,792,199	06:0
817	97	20	02:52:29.000	20EX6N	6MCOPY	NIMS	NIMS,188E,LLM1A,2282,2283	4O0	4	0	3,792,200	06:0
818	97	20	02:53:29.666	20EX6O	6CKSUM	NIMS	NIMS,141B,14B3	4O0	4	0	3,792,201	06:0
819	97	20	02:54:30.333	20EX6P	6MCOPY	NIMS	NIMS,188F,LLM1A,2282,2283	4O0	4	0	3,792,202	06:0
820	97	20	03:40:00.333	20EW6A	6CKSUM	NIMS	NIMS,1000,1096	4O0	4	0	3,792,247	06:0
821	97	20	03:41:01.000	20EW6B	6MCOPY	NIMS	NIMS,1890,LLM1A,2282,2283	4O0	4	0	3,792,248	06:0
822	97	20	03:42:01.666	20EW6C	6CKSUM	NIMS	NIMS,1097,112C	4O0	4	0	3,792,249	06:0
823	97	20	03:43:02.333	20EW6D	6MCOPY	NIMS	NIMS,1891,LLM1A,2282,2283	4O0	4	0	3,792,250	06:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
824	97	20	03:44:03.000	20EW6E	6CKSUM	NIMS	NIMS,112D,11C2	4O0	4	0	3,792,251:06:0	
825	97	20	03:45:03.666	20EW6F	6MCOPY	NIMS	NIMS,1892,LLM1A,2282,2283	4O0	4	0	3,792,252:06:0	
826	97	20	03:46:04.333	20EW6G	6CKSUM	NIMS	NIMS,11C3,1258	4O0	4	0	3,792,253:06:0	
827	97	20	03:47:05.000	20EW6H	6MCOPY	NIMS	NIMS,1893,LLM1A,2282,2283	4O0	4	0	3,792,254:06:0	
828	97	20	03:48:05.666	20EW6I	6CKSUM	NIMS	NIMS,1259,12EE	4O0	4	0	3,792,255:06:0	
829	97	20	03:49:06.333	20EW6J	6MCOPY	NIMS	NIMS,1894,LLM1A,2282,2283	4O0	4	0	3,792,256:06:0	
830	97	20	03:50:07.000	20EW6K	6CKSUM	NIMS	NIMS,12EF,1384	4O0	4	0	3,792,257:06:0	
831	97	20	03:51:07.666	20EW6L	6MCOPY	NIMS	NIMS,1895,LLM1A,2282,2283	4O0	4	0	3,792,258:06:0	
832	97	20	03:52:08.333	20EW6M	6CKSUM	NIMS	NIMS,1385,141A	4O0	4	0	3,792,259:06:0	
833	97	20	03:53:09.000	20EW6N	6MCOPY	NIMS	NIMS,1896,LLM1A,2282,2283	4O0	4	0	3,792,260:06:0	
834	97	20	03:54:09.666	20EW6O	6CKSUM	NIMS	NIMS,141B,14B3	4O0	4	0	3,792,261:06:0	
835	97	20	03:55:10.333	20EW6P	6MCOPY	NIMS	NIMS,1897,LLM1A,2282,2283	4O0	4	0	3,792,262:06:0	
836	97	20	04:40:40.333	20EV6A	6CKSUM	NIMS	NIMS,1000,1096	4O0	4	0	3,792,307:06:0	
837	97	20	04:41:41.000	20EV6B	6MCOPY	NIMS	NIMS,1898,LLM1A,2282,2283	4O0	4	0	3,792,308:06:0	
838	97	20	04:42:41.666	20EV6C	6CKSUM	NIMS	NIMS,1097,112C	4O0	4	0	3,792,309:06:0	
839	97	20	04:43:42.333	20EV6D	6MCOPY	NIMS	NIMS,1899,LLM1A,2282,2283	4O0	4	0	3,792,310:06:0	
840	97	20	04:44:43.000	20EV6E	6CKSUM	NIMS	NIMS,112D,11C2	4O0	4	0	3,792,311:06:0	
841	97	20	04:45:43.666	20EV6F	6MCOPY	NIMS	NIMS,189A,LLM1A,2282,2283	4O0	4	0	3,792,312:06:0	
842	97	20	04:46:44.333	20EV6G	6CKSUM	NIMS	NIMS,11C3,1258	4O0	4	0	3,792,313:06:0	
843	97	20	04:47:45.000	20EV6H	6MCOPY	NIMS	NIMS,189B,LLM1A,2282,2283	4O0	4	0	3,792,314:06:0	
844	97	20	04:48:45.666	20EV6I	6CKSUM	NIMS	NIMS,1259,12EE	4O0	4	0	3,792,315:06:0	
845	97	20	04:49:46.333	20EV6J	6MCOPY	NIMS	NIMS,189C,LLM1A,2282,2283	4O0	4	0	3,792,316:06:0	
846	97	20	04:50:47.000	20EV6K	6CKSUM	NIMS	NIMS,12EF,1384	4O0	4	0	3,792,317:06:0	
847	97	20	04:51:47.666	20EV6L	6MCOPY	NIMS	NIMS,189D,LLM1A,2282,2283	4O0	4	0	3,792,318:06:0	
848	97	20	04:52:48.333	20EV6M	6CKSUM	NIMS	NIMS,1385,141A	4O0	4	0	3,792,319:06:0	
849	97	20	04:53:49.000	20EV6N	6MCOPY	NIMS	NIMS,189E,LLM1A,2282,2283	4O0	4	0	3,792,320:06:0	
850	97	20	04:54:49.666	20EV6O	6CKSUM	NIMS	NIMS,141B,14B3	4O0	4	0	3,792,321:06:0	
851	97	20	04:55:50.333	20EV6P	6MCOPY	NIMS	NIMS,189F,LLM1A,2282,2283	4O0	4	0	3,792,322:06:0	
852	97	20	05:41:20.333	20EU6A	6CKSUM	NIMS	NIMS,1000,1096	4O0	4	0	3,792,367:06:0	
853	97	20	05:42:21.000	20EU6B	6MCOPY	NIMS	NIMS,18A0,LLM1A,2282,2283	4O0	4	0	3,792,368:06:0	
854	97	20	05:43:21.666	20EU6C	6CKSUM	NIMS	NIMS,1097,112C	4O0	4	0	3,792,369:06:0	
855	97	20	05:44:22.333	20EU6D	6MCOPY	NIMS	NIMS,18A1,LLM1A,2282,2283	4O0	4	0	3,792,370:06:0	
856	97	20	05:45:23.000	20EU6E	6CKSUM	NIMS	NIMS,112D,11C2	4O0	4	0	3,792,371:06:0	
857	97	20	05:46:23.666	20EU6F	6MCOPY	NIMS	NIMS,18A2,LLM1A,2282,2283	4O0	4	0	3,792,372:06:0	
858	97	20	05:47:24.333	20EU6G	6CKSUM	NIMS	NIMS,11C3,1258	4O0	4	0	3,792,373:06:0	
859	97	20	05:48:25.000	20EU6H	6MCOPY	NIMS	NIMS,18A3,LLM1A,2282,2283	4O0	4	0	3,792,374:06:0	
860	97	20	05:49:25.666	20EU6I	6CKSUM	NIMS	NIMS,1259,12EE	4O0	4	0	3,792,375:06:0	
861	97	20	05:50:26.333	20EU6J	6MCOPY	NIMS	NIMS,18A4,LLM1A,2282,2283	4O0	4	0	3,792,376:06:0	
862	97	20	05:51:27.000	20EU6K	6CKSUM	NIMS	NIMS,12EF,1384	4O0	4	0	3,792,377:06:0	
863	97	20	05:52:27.666	20EU6L	6MCOPY	NIMS	NIMS,18A5,LLM1A,2282,2283	4O0	4	0	3,792,378:06:0	
864	97	20	05:53:28.333	20EU6M	6CKSUM	NIMS	NIMS,1385,141A	4O0	4	0	3,792,379:06:0	
865	97	20	05:54:29.000	20EU6N	6MCOPY	NIMS	NIMS,18A6,LLM1A,2282,2283	4O0	4	0	3,792,380:06:0	
866	97	20	05:55:29.666	20EU6O	6CKSUM	NIMS	NIMS,141B,14B3	4O0	4	0	3,792,381:06:0	
867	97	20	05:56:30.333	20EU6P	6MCOPY	NIMS	NIMS,18A7,LLM1A,2282,2283	4O0	4	0	3,792,382:06:0	
868	97	20	06:42:00.333	20ET6A	6CKSUM	NIMS	NIMS,1000,10C8	4O0	4	0	3,792,427:06:0	
869	97	20	06:43:01.000	20ET6B	6MCOPY	NIMS	NIMS,18AA,LLM1A,2282,2283	4O0	4	0	3,792,428:06:0	
870	97	20	06:44:01.666	20ET6C	6CKSUM	NIMS	NIMS,10C9,1190	4O0	4	0	3,792,429:06:0	
871	97	20	06:45:02.333	20ET6D	6MCOPY	NIMS	NIMS,18AB,LLM1A,2282,2283	4O0	4	0	3,792,430:06:0	
872	97	20	06:46:03.000	20ET6E	6CKSUM	NIMS	NIMS,1191,1258	4O0	4	0	3,792,431:06:0	
873	97	20	06:47:03.666	20ET6F	6MCOPY	NIMS	NIMS,18AC,LLM1A,2282,2283	4O0	4	0	3,792,432:06:0	
874	97	20	06:48:04.333	20ET6G	6CKSUM	NIMS	NIMS,1259,1320	4O0	4	0	3,792,433:06:0	
875	97	20	06:49:05.000	20ET6H	6MCOPY	NIMS	NIMS,18AD,LLM1A,2282,2283	4O0	4	0	3,792,434:06:0	
876	97	20	06:50:05.666	20ET6I	6CKSUM	NIMS	NIMS,1321,13E7	4O0	4	0	3,792,435:06:0	
877	97	20	06:51:06.333	20ET6J	6MCOPY	NIMS	NIMS,18AE,LLM1A,2282,2283	4O0	4	0	3,792,436:06:0	
878	97	20	06:52:07.000	20ET6K	6CKSUM	NIMS	NIMS,13E8,14B3	4O0	4	0	3,792,437:06:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
879	97	20	06:53:07.666	20ET6L	6MCOPY	NIMS	NIMS,18AF,LLM1A,2282,2283	4O0	4	0	3,792,438:06:0	
880	97	20	07:42:40.333	20ES6A	6CKSUM	NIMS	NIMS,1000,10C8	4O0	4	0	3,792,487:06:0	
881	97	20	07:43:41.000	20ES6B	6MCOPY	NIMS	NIMS,18B0,LLM1A,2282,2283	4O0	4	0	3,792,488:06:0	
882	97	20	07:44:41.666	20ES6C	6CKSUM	NIMS	NIMS,10C9,1190	4O0	4	0	3,792,489:06:0	
883	97	20	07:45:42.333	20ES6D	6MCOPY	NIMS	NIMS,18B1,LLM1A,2282,2283	4O0	4	0	3,792,490:06:0	
884	97	20	07:46:43.000	20ES6E	6CKSUM	NIMS	NIMS,1191,1258	4O0	4	0	3,792,491:06:0	
885	97	20	07:47:43.666	20ES6F	6MCOPY	NIMS	NIMS,18B2,LLM1A,2282,2283	4O0	4	0	3,792,492:06:0	
886	97	20	07:48:44.333	20ES6G	6CKSUM	NIMS	NIMS,1259,1320	4O0	4	0	3,792,493:06:0	
887	97	20	07:49:45.000	20ES6H	6MCOPY	NIMS	NIMS,18B3,LLM1A,2282,2283	4O0	4	0	3,792,494:06:0	
888	97	20	07:50:45.666	20ES6I	6CKSUM	NIMS	NIMS,1321,13E7	4O0	4	0	3,792,495:06:0	
889	97	20	07:51:46.333	20ES6J	6MCOPY	NIMS	NIMS,18B4,LLM1A,2282,2283	4O0	4	0	3,792,496:06:0	
890	97	20	07:52:47.000	20ES6K	6CKSUM	NIMS	NIMS,13E8,14B3	4O0	4	0	3,792,497:06:0	
891	97	20	07:53:47.666	20ES6L	6MCOPY	NIMS	NIMS,18B5,LLM1A,2282,2283	4O0	4	0	3,792,498:06:0	
892	97	20	08:43:20.333	20ER6A	6CKSUM	NIMS	NIMS,1000,10C8	4O0	4	0	3,792,547:06:0	
893	97	20	08:44:21.000	20ER6B	6MCOPY	NIMS	NIMS,18B6,LLM1A,2282,2283	4O0	4	0	3,792,548:06:0	
894	97	20	08:45:21.666	20ER6C	6CKSUM	NIMS	NIMS,10C9,1190	4O0	4	0	3,792,549:06:0	
895	97	20	08:46:22.333	20ER6D	6MCOPY	NIMS	NIMS,18B7,LLM1A,2282,2283	4O0	4	0	3,792,550:06:0	
896	97	20	08:47:23.000	20ER6E	6CKSUM	NIMS	NIMS,1191,1258	4O0	4	0	3,792,551:06:0	
897	97	20	08:48:23.666	20ER6F	6MCOPY	NIMS	NIMS,18B8,LLM1A,2282,2283	4O0	4	0	3,792,552:06:0	
898	97	20	08:49:24.333	20ER6G	6CKSUM	NIMS	NIMS,1259,1320	4O0	4	0	3,792,553:06:0	
899	97	20	08:50:25.000	20ER6H	6MCOPY	NIMS	NIMS,18B9,LLM1A,2282,2283	4O0	4	0	3,792,554:06:0	
900	97	20	08:51:25.666	20ER6I	6CKSUM	NIMS	NIMS,1321,13E7	4O0	4	0	3,792,555:06:0	
901	97	20	08:52:26.333	20ER6J	6MCOPY	NIMS	NIMS,18BA,LLM1A,2282,2283	4O0	4	0	3,792,556:06:0	
902	97	20	08:53:27.000	20ER6K	6CKSUM	NIMS	NIMS,13E8,14B3	4O0	4	0	3,792,557:06:0	
903	97	20	08:54:27.666	20ER6L	6MCOPY	NIMS	NIMS,18BB,LLM1A,2282,2283	4O0	4	0	3,792,558:06:0	
904	97	20	09:44:00.333	20EQ6A	6CKSUM	NIMS	NIMS,1000,10C8	4O0	4	0	3,792,607:06:0	
905	97	20	09:45:01.000	20EQ6B	6MCOPY	NIMS	NIMS,18BC,LLM1A,2282,2283	4O0	4	0	3,792,608:06:0	
906	97	20	09:46:01.666	20EQ6C	6CKSUM	NIMS	NIMS,10C9,1190	4O0	4	0	3,792,609:06:0	
907	97	20	09:47:02.333	20EQ6D	6MCOPY	NIMS	NIMS,18BD,LLM1A,2282,2283	4O0	4	0	3,792,610:06:0	
908	97	20	09:48:03.000	20EQ6E	6CKSUM	NIMS	NIMS,1191,1258	4O0	4	0	3,792,611:06:0	
909	97	20	09:49:03.666	20EQ6F	6MCOPY	NIMS	NIMS,18BE,LLM1A,2282,2283	4O0	4	0	3,792,612:06:0	
910	97	20	09:50:04.333	20EQ6G	6CKSUM	NIMS	NIMS,1259,1320	4O0	4	0	3,792,613:06:0	
911	97	20	09:51:05.000	20EQ6H	6MCOPY	NIMS	NIMS,18BF,LLM1A,2282,2283	4O0	4	0	3,792,614:06:0	
912	97	20	09:52:05.666	20EQ6I	6CKSUM	NIMS	NIMS,1321,13E7	4O0	4	0	3,792,615:06:0	
913	97	20	09:53:06.333	20EQ6J	6MCOPY	NIMS	NIMS,18C0,LLM1A,2282,2283	4O0	4	0	3,792,616:06:0	
914	97	20	09:54:07.000	20EQ6K	6CKSUM	NIMS	NIMS,13E8,14B3	4O0	4	0	3,792,617:06:0	
915	97	20	09:55:07.666	20EQ6L	6MCOPY	NIMS	NIMS,18C1,LLM1A,2282,2283	4O0	4	0	3,792,618:06:0	
916	97	20	10:44:40.333	20EP6A	6CKSUM	NIMS	NIMS,1000,10C8	4O0	4	0	3,792,667:06:0	
917	97	20	10:45:41.000	20EP6B	6MCOPY	NIMS	NIMS,18C2,LLM1A,2282,2283	4O0	4	0	3,792,668:06:0	
918	97	20	10:46:41.666	20EP6C	6CKSUM	NIMS	NIMS,10C9,1190	4O0	4	0	3,792,669:06:0	
919	97	20	10:47:42.333	20EP6D	6MCOPY	NIMS	NIMS,18C3,LLM1A,2282,2283	4O0	4	0	3,792,670:06:0	
920	97	20	10:48:43.000	20EP6E	6CKSUM	NIMS	NIMS,1191,1258	4O0	4	0	3,792,671:06:0	
921	97	20	10:49:43.666	20EP6F	6MCOPY	NIMS	NIMS,18C4,LLM1A,2282,2283	4O0	4	0	3,792,672:06:0	
922	97	20	10:50:44.333	20EP6G	6CKSUM	NIMS	NIMS,1259,1320	4O0	4	0	3,792,673:06:0	
923	97	20	10:51:45.000	20EP6H	6MCOPY	NIMS	NIMS,18C5,LLM1A,2282,2283	4O0	4	0	3,792,674:06:0	
924	97	20	10:52:45.666	20EP6I	6CKSUM	NIMS	NIMS,1321,13E7	4O0	4	0	3,792,675:06:0	
925	97	20	10:53:46.333	20EP6J	6MCOPY	NIMS	NIMS,18C6,LLM1A,2282,2283	4O0	4	0	3,792,676:06:0	
926	97	20	10:54:47.000	20EP6K	6CKSUM	NIMS	NIMS,13E8,14B3	4O0	4	0	3,792,677:06:0	
927	97	20	10:55:47.666	20EP6L	6MCOPY	NIMS	NIMS,18C7,LLM1A,2282,2283	4O0	4	0	3,792,678:06:0	
928	97	20	11:45:20.333	20EO6A	6CKSUM	NIMS	NIMS,1000,10C8	4O0	4	0	3,792,727:06:0	
929	97	20	11:46:21.000	20EO6B	6MCOPY	NIMS	NIMS,18C8,LLM1A,2282,2283	4O0	4	0	3,792,728:06:0	
930	97	20	11:47:21.666	20EO6C	6CKSUM	NIMS	NIMS,10C9,1190	4O0	4	0	3,792,729:06:0	
931	97	20	11:48:22.333	20EO6D	6MCOPY	NIMS	NIMS,18C9,LLM1A,2282,2283	4O0	4	0	3,792,730:06:0	
932	97	20	11:49:23.000	20EO6E	6CKSUM	NIMS	NIMS,1191,1258	4O0	4	0	3,792,731:06:0	
933	97	20	11:50:23.666	20EO6F	6MCOPY	NIMS	NIMS,18CA,LLM1A,2282,2283	4O0	4	0	3,792,732:06:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
934	97	20	11:51:24.333	20EO6G	6CKSUM	NIMS	NIMS,1259,1320	4O0	4	0	3,792,733:06:0	
935	97	20	11:52:25.000	20EO6H	6MCOPY	NIMS	NIMS,18CB,LLM1A,2282,2283	4O0	4	0	3,792,734:06:0	
936	97	20	11:53:25.666	20EO6I	6CKSUM	NIMS	NIMS,1321,13E7	4O0	4	0	3,792,735:06:0	
937	97	20	11:54:26.333	20EO6J	6MCOPY	NIMS	NIMS,18CC,LLM1A,2282,2283	4O0	4	0	3,792,736:06:0	
938	97	20	11:55:27.000	20EO6K	6CKSUM	NIMS	NIMS,13E8,14B3	4O0	4	0	3,792,737:06:0	
939	97	20	11:56:27.666	20EO6L	6MCOPY	NIMS	NIMS,18CD,LLM1A,2282,2283	4O0	4	0	3,792,738:06:0	
940	97	20	12:46:00.266	20EN6A	6CKSUM	NIMS	NIMS,1000,112C	4O0	4	0	3,792,787:06:0	
941	97	20	12:47:00.933	20EN6B	6MCOPY	NIMS	NIMS,18CE,LLM1A,2282,2283	4O0	4	0	3,792,788:06:0	
942	97	20	12:48:01.600	20EN6C	6CKSUM	NIMS	NIMS,112D,1258	4O0	4	0	3,792,789:06:0	
943	97	20	12:49:02.266	20EN6D	6MCOPY	NIMS	NIMS,18CF,LLM1A,2282,2283	4O0	4	0	3,792,790:06:0	
944	97	20	12:50:02.933	20EN6E	6CKSUM	NIMS	NIMS,1259,1372	4O0	4	0	3,792,791:06:0	
945	97	20	12:51:03.600	20EN6F	6MCOPY	NIMS	NIMS,18D0,LLM1A,2282,2283	4O0	4	0	3,792,792:06:0	
946	97	20	12:52:04.266	20EN6G	6CKSUM	NIMS	NIMS,1373,14B3	4O0	4	0	3,792,793:06:0	
947	97	20	12:53:04.933	20EN6H	6MCOPY	NIMS	NIMS,18D1,LLM1A,2282,2283	4O0	4	0	3,792,794:06:0	
948	97	20	13:46:40.266	20EM6A	6CKSUM	NIMS	NIMS,1000,112C	4O0	4	0	3,792,847:06:0	
949	97	20	13:47:40.933	20EM6B	6MCOPY	NIMS	NIMS,18D2,LLM1A,2282,2283	4O0	4	0	3,792,848:06:0	
950	97	20	13:48:41.600	20EM6C	6CKSUM	NIMS	NIMS,112D,1258	4O0	4	0	3,792,849:06:0	
951	97	20	13:49:42.266	20EM6D	6MCOPY	NIMS	NIMS,18D3,LLM1A,2282,2283	4O0	4	0	3,792,850:06:0	
952	97	20	13:50:42.933	20EM6E	6CKSUM	NIMS	NIMS,1259,1384	4O0	4	0	3,792,851:06:0	
953	97	20	13:51:43.600	20EM6F	6MCOPY	NIMS	NIMS,18D4,LLM1A,2282,2283	4O0	4	0	3,792,852:06:0	
954	97	20	13:52:44.266	20EM6G	6CKSUM	NIMS	NIMS,1385,14B3	4O0	4	0	3,792,853:06:0	
955	97	20	13:53:44.933	20EM6H	6MCOPY	NIMS	NIMS,18D5,LLM1A,2282,2283	4O0	4	0	3,792,854:06:0	
956	97	20	14:47:20.266	20EL6A	6CKSUM	NIMS	NIMS,1000,112C	4O0	4	0	3,792,907:06:0	
957	97	20	14:48:20.933	20EL6B	6MCOPY	NIMS	NIMS,18D6,LLM1A,2282,2283	4O0	4	0	3,792,908:06:0	
958	97	20	14:49:21.600	20EL6C	6CKSUM	NIMS	NIMS,112D,1258	4O0	4	0	3,792,909:06:0	
959	97	20	14:50:22.266	20EL6D	6MCOPY	NIMS	NIMS,18D7,LLM1A,2282,2283	4O0	4	0	3,792,910:06:0	
960	97	20	14:51:22.933	20EL6E	6CKSUM	NIMS	NIMS,1259,1384	4O0	4	0	3,792,911:06:0	
961	97	20	14:52:23.600	20EL6F	6MCOPY	NIMS	NIMS,18D8,LLM1A,2282,2283	4O0	4	0	3,792,912:06:0	
962	97	20	14:53:24.266	20EL6G	6CKSUM	NIMS	NIMS,1385,14B3	4O0	4	0	3,792,913:06:0	
963	97	20	14:54:24.933	20EL6H	6MCOPY	NIMS	NIMS,18D9,LLM1A,2282,2283	4O0	4	0	3,792,914:06:0	
964	97	20	15:48:00.266	20EK6A	6CKSUM	NIMS	NIMS,1000,112C	4O0	4	0	3,792,967:06:0	
965	97	20	15:49:00.933	20EK6B	6MCOPY	NIMS	NIMS,18DA,LLM1A,2282,2283	4O0	4	0	3,792,968:06:0	
966	97	20	15:50:01.600	20EK6C	6CKSUM	NIMS	NIMS,112D,1258	4O0	4	0	3,792,969:06:0	
967	97	20	15:51:02.266	20EK6D	6MCOPY	NIMS	NIMS,18DB,LLM1A,2282,2283	4O0	4	0	3,792,970:06:0	
968	97	20	15:52:02.933	20EK6E	6CKSUM	NIMS	NIMS,1259,1384	4O0	4	0	3,792,971:06:0	
969	97	20	15:53:03.600	20EK6F	6MCOPY	NIMS	NIMS,18DC,LLM1A,2282,2283	4O0	4	0	3,792,972:06:0	
970	97	20	15:54:04.266	20EK6G	6CKSUM	NIMS	NIMS,1385,14B3	4O0	4	0	3,792,973:06:0	
971	97	20	15:55:04.933	20EK6H	6MCOPY	NIMS	NIMS,18DD,LLM1A,2282,2283	4O0	4	0	3,792,974:06:0	
972	97	20	16:48:40.266	20EJ6A	6CKSUM	NIMS	NIMS,1000,112C	4O0	4	0	3,793,027:06:0	
973	97	20	16:49:40.933	20EJ6B	6MCOPY	NIMS	NIMS,18DE,LLM1A,2282,2283	4O0	4	0	3,793,028:06:0	
974	97	20	16:50:41.600	20EJ6C	6CKSUM	NIMS	NIMS,112D,1258	4O0	4	0	3,793,029:06:0	
975	97	20	16:51:42.266	20EJ6D	6MCOPY	NIMS	NIMS,18DF,LLM1A,2282,2283	4O0	4	0	3,793,030:06:0	
976	97	20	16:52:42.933	20EJ6E	6CKSUM	NIMS	NIMS,1259,1384	4O0	4	0	3,793,031:06:0	
977	97	20	16:53:43.600	20EJ6F	6MCOPY	NIMS	NIMS,18E0,LLM1A,2282,2283	4O0	4	0	3,793,032:06:0	
978	97	20	16:54:44.266	20EJ6G	6CKSUM	NIMS	NIMS,1385,14B3	4O0	4	0	3,793,033:06:0	
979	97	20	16:55:44.933	20EJ6H	6MCOPY	NIMS	NIMS,18E1,LLM1A,2282,2283	4O0	4	0	3,793,034:06:0	
980	97	20	17:49:20.266	20EI6A	6CKSUM	NIMS	NIMS,1000,112C	4O0	4	0	3,793,087:06:0	
981	97	20	17:50:20.933	20EI6B	6MCOPY	NIMS	NIMS,18E2,LLM1A,2282,2283	4O0	4	0	3,793,088:06:0	
982	97	20	17:51:21.600	20EI6C	6CKSUM	NIMS	NIMS,112D,1258	4O0	4	0	3,793,089:06:0	
983	97	20	17:52:22.266	20EI6D	6MCOPY	NIMS	NIMS,18E3,LLM1A,2282,2283	4O0	4	0	3,793,090:06:0	
984	97	20	17:53:22.933	20EI6E	6CKSUM	NIMS	NIMS,1259,1384	4O0	4	0	3,793,091:06:0	
985	97	20	17:54:23.600	20EI6F	6MCOPY	NIMS	NIMS,18E4,LLM1A,2282,2283	4O0	4	0	3,793,092:06:0	
986	97	20	17:55:24.266	20EI6G	6CKSUM	NIMS	NIMS,1385,14B3	4O0	4	0	3,793,093:06:0	
987	97	20	17:56:24.933	20EI6H	6MCOPY	NIMS	NIMS,18E5,LLM1A,2282,2283	4O0	4	0	3,793,094:06:0	
988	97	20	18:50:00.266	20EH6A	6CKSUM	NIMS	NIMS,1000,112C	4O0	4	0	3,793,147:06:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
989	**97**	**20**	**18:51:00.933**	**20EH6B**	**6MCOPY**	**NIMS**	**NIMS,18E6,LLM1A,2282,2283**	**4O0**	**4**	**0**	**3,793,148:06:0**	
990	**97**	**20**	**18:52:01.600**	**20EH6C**	**6CKSUM**	**NIMS**	**NIMS,112D,1258**	**4O0**	**4**	**0**	**3,793,149:06:0**	
991	**97**	**20**	**18:53:02.266**	**20EH6D**	**6MCOPY**	**NIMS**	**NIMS,18E7,LLM1A,2282,2283**	**4O0**	**4**	**0**	**3,793,150:06:0**	
992	**97**	**20**	**18:54:02.933**	**20EH6E**	**6CKSUM**	**NIMS**	**NIMS,1259,1384**	**4O0**	**4**	**0**	**3,793,151:06:0**	
993	**97**	**20**	**18:55:03.600**	**20EH6F**	**6MCOPY**	**NIMS**	**NIMS,18E8,LLM1A,2282,2283**	**4O0**	**4**	**0**	**3,793,152:06:0**	
994	**97**	**20**	**18:56:04.266**	**20EH6G**	**6CKSUM**	**NIMS**	**NIMS,1385,14B3**	**4O0**	**4**	**0**	**3,793,153:06:0**	
995	**97**	**20**	**18:57:04.933**	**20EH6H**	**6MCOPY**	**NIMS**	**NIMS,18E9,LLM1A,2282,2283**	**4O0**	**4**	**0**	**3,793,154:06:0**	
996	**97**	**20**	**19:50:40.266**	**20EG6A**	**6CKSUM**	**NIMS**	**NIMS,1000,112C**	**4O0**	**4**	**0**	**3,793,207:06:0**	
997	**97**	**20**	**19:51:40.933**	**20EG6B**	**6MCOPY**	**NIMS**	**NIMS,18EA,LLM1A,2282,2283**	**4O0**	**4**	**0**	**3,793,208:06:0**	
998	**97**	**20**	**19:52:41.600**	**20EG6C**	**6CKSUM**	**NIMS**	**NIMS,112D,1258**	**4O0**	**4**	**0**	**3,793,209:06:0**	
999	**97**	**20**	**19:53:42.266**	**20EG6D**	**6MCOPY**	**NIMS**	**NIMS,18EB,LLM1A,2282,2283**	**4O0**	**4**	**0**	**3,793,210:06:0**	
1000	**97**	**20**	**19:54:42.933**	**20EG6E**	**6CKSUM**	**NIMS**	**NIMS,1259,1384**	**4O0**	**4**	**0**	**3,793,211:06:0**	
1001	**97**	**20**	**19:55:43.600**	**20EG6F**	**6MCOPY**	**NIMS**	**NIMS,18EC,LLM1A,2282,2283**	**4O0**	**4**	**0**	**3,793,212:06:0**	
1002	**97**	**20**	**19:56:44.266**	**20EG6G**	**6CKSUM**	**NIMS**	**NIMS,1385,14B3**	**4O0**	**4**	**0**	**3,793,213:06:0**	
1003	**97**	**20**	**19:57:44.933**	**20EG6H**	**6MCOPY**	**NIMS**	**NIMS,18ED,LLM1A,2282,2283**	**4O0**	**4**	**0**	**3,793,214:06:0**	
1004	**97**	**20**	**20:51:20.266**	**20EF6A**	**6CKSUM**	**NIMS**	**NIMS,1000,112C**	**4O0**	**4**	**0**	**3,793,267:06:0**	
1005	**97**	**20**	**20:52:20.933**	**20EF6B**	**6MCOPY**	**NIMS**	**NIMS,18EE,LLM1A,2282,2283**	**4O0**	**4**	**0**	**3,793,268:06:0**	
1006	**97**	**20**	**20:53:21.600**	**20EF6C**	**6CKSUM**	**NIMS**	**NIMS,112D,1258**	**4O0**	**4**	**0**	**3,793,269:06:0**	
1007	**97**	**20**	**20:54:22.266**	**20EF6D**	**6MCOPY**	**NIMS**	**NIMS,18EF,LLM1A,2282,2283**	**4O0**	**4**	**0**	**3,793,270:06:0**	
1008	**97**	**20**	**20:55:22.933**	**20EF6E**	**6CKSUM**	**NIMS**	**NIMS,1259,1384**	**4O0**	**4**	**0**	**3,793,271:06:0**	
1009	**97**	**20**	**20:56:23.600**	**20EF6F**	**6MCOPY**	**NIMS**	**NIMS,18F0,LLM1A,2282,2283**	**4O0**	**4**	**0**	**3,793,272:06:0**	
1010	**97**	**20**	**20:57:24.266**	**20EF6G**	**6CKSUM**	**NIMS**	**NIMS,1385,14B3**	**4O0**	**4**	**0**	**3,793,273:06:0**	
1011	**97**	**20**	**20:58:24.933**	**20EF6H**	**6MCOPY**	**NIMS**	**NIMS,18F1,LLM1A,2282,2283**	**4O0**	**4**	**0**	**3,793,274:06:0**	
1012	**97**	**20**	**21:52:00.266**	**20EE6A**	**6CKSUM**	**NIMS**	**NIMS,1000,1258**	**4O0**	**4**	**0**	**3,793,327:06:0**	
1013	**97**	**20**	**21:53:00.933**	**20EE6B**	**6MCOPY**	**NIMS**	**NIMS,18F2,LLM1A,2282,2283**	**4O0**	**4**	**0**	**3,793,328:06:0**	
1014	**97**	**20**	**21:54:01.600**	**20EE6C**	**6CKSUM**	**NIMS**	**NIMS,1259,14B3**	**4O0**	**4**	**0**	**3,793,329:06:0**	
1015	**97**	**20**	**21:55:02.266**	**20EE6D**	**6MCOPY**	**NIMS**	**NIMS,18F3,LLM1A,2282,2283**	**4O0**	**4**	**0**	**3,793,330:06:0**	
1016	**97**	**20**	**22:52:40.266**	**20ED6A**	**6CKSUM**	**NIMS**	**NIMS,1000,1258**	**4O0**	**4**	**0**	**3,793,387:06:0**	
1017	**97**	**20**	**22:53:40.933**	**20ED6B**	**6MCOPY**	**NIMS**	**NIMS,18F4,LLM1A,2282,2283**	**4O0**	**4**	**0**	**3,793,388:06:0**	
1018	**97**	**20**	**22:54:41.600**	**20ED6C**	**6CKSUM**	**NIMS**	**NIMS,1259,14B3**	**4O0**	**4**	**0**	**3,793,389:06:0**	
1019	**97**	**20**	**22:55:42.266**	**20ED6D**	**6MCOPY**	**NIMS**	**NIMS,18F5,LLM1A,2282,2283**	**4O0**	**4**	**0**	**3,793,390:06:0**	
1020	**97**	**20**	**23:53:20.266**	**20EC6A**	**6CKSUM**	**NIMS**	**NIMS,1000,1258**	**4O0**	**4**	**0**	**3,793,447:06:0**	
1021	**97**	**20**	**23:54:20.933**	**20EC6B**	**6MCOPY**	**NIMS**	**NIMS,18F6,LLM1A,2282,2283**	**4O0**	**4**	**0**	**3,793,448:06:0**	
1022	**97**	**20**	**23:55:21.600**	**20EC6C**	**6CKSUM**	**NIMS**	**NIMS,1259,14B3**	**4O0**	**4**	**0**	**3,793,449:06:0**	
1023	**97**	**20**	**23:56:22.266**	**20EC6D**	**6MCOPY**	**NIMS**	**NIMS,18F7,LLM1A,2282,2283**	**4O0**	**4**	**0**	**3,793,450:06:0**	
1024	**97**	**21**	**00:54:00.266**	**20EB6A**	**6CKSUM**	**NIMS**	**NIMS,1000,1258**	**4O0**	**4**	**0**	**3,793,507:06:0**	
1025	**97**	**21**	**00:55:00.933**	**20EB6B**	**6MCOPY**	**NIMS**	**NIMS,18F8,LLM1A,2282,2283**	**4O0**	**4**	**0**	**3,793,508:06:0**	
1026	**97**	**21**	**00:56:01.600**	**20EB6C**	**6CKSUM**	**NIMS**	**NIMS,1259,14B3**	**4O0**	**4**	**0**	**3,793,509:06:0**	
1027	**97**	**21**	**00:57:02.266**	**20EB6D**	**6MCOPY**	**NIMS**	**NIMS,18F9,LLM1A,2282,2283**	**4O0**	**4**	**0**	**3,793,510:06:0**	
1028	**97**	**21**	**00:58:00.000**	**E4NNMEMCHK01-**		**-----STOP-------**		**4O0**	**4**	**0**	**: :**	
1029	97	22	04:00:00.200	481UC4A	7VECT		Inert vect update UTC	4O0	4	0	3,795,115:18:0	
1030	**97**	**25**	**18:59:08.000**	**432LC6B**	**6RTDS2**	**NIMNCG,AACDSL,RT**	**AACS DESELECT**	**4O0**	**4**	**0**	**3,800,276:89:0**	
1031	97	25	22:32:30.000	465WA6A	6DMST	5000	DMS Slew to TIC	4O0	4	0	3,800,488:00:0	
1032	97	25	22:32:30.000		DMS:	: *SLEW-TIC	P7, TRACK 1, FWD, TIC 2789.00 +/-	4O0	4	0	3,800,488:00:0	
1033	97	26	04:26:11.333	465WB6A	6DMSC	P100,2	DMS Control Tape P/B 100.8kbps	4O0	4	0	3,800,837:73:0	
1034	97	26	04:52:03.333	465WB6B	6DMSC	RDY,2	DMS Control Tape stop	4O0	4	0	3,800,863:35:0	
1035	97	26	18:13:26.000	488BL6A	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,801,655:87:0	
1036	97	26	19:02:59.933	488BL6B	6TMSED	FILL,AH1	Sci, Eng, and D/L Chan	4O0	4	0	3,801,704:89:0	
1037	97	26	19:20:05.933	465WC6A	6DTRN	CMD,6DTRN,465WC6	DMS TRACK TURNAROUND	4O0	4	0	3,801,721:81:0	
1038	97	26	19:26:41.933	488BL6C	6TMSED	NORM,AH1	Sci, Eng, and D/L Chan	4O0	4	0	3,801,728:38:0	
1039	97	26	19:30:07.266	465WD6A	6DMSC	P100,1	DMS Control Tape P/B 100.8kbps	4O0	4	0	3,801,731:73:0	
1040	97	26	20:02:02.600	465WD6B	6DMSC	RDY,1	DMS Control Tape stop	4O0	4	0	3,801,763:34:0	
1041	97	26	20:15:51.933	488BL6D	6TMSED	NORM,AH2	Sci, Eng, and D/L Chan	4O0	4	0	3,801,777:04:0	
1042	97	26	20:17:38.600	465WE6A	6DMSC	P100,2	DMS Control Tape P/B 100.8kbps	4O0	4	0	3,801,778:73:0	
1043	97	26	20:49:49.266	465WF6A	6DMSC	P100,3	DMS Control Tape P/B 100.8kbps	4O0	4	0	3,801,810:57:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1044	97	26	21:21:52.600	465WF6B	6DMSC	RDY,3	DMS Control Tape stop	4O0	4	0	3,801,842:30:0	
1045	97	26	21:36:30.600	465WG6A	6DMSC	P100,4	DMS Control Tape P/B 100.8kbps	4O0	4	0	3,801,856:73:0	
1046	97	26	22:08:40.600	465WH6A	6DMSC	P100,3	DMS Control Tape P/B 100.8kbps	4O0	4	0	3,801,888:56:0	
1047	97	26	22:09:47.933	465WH6B	6DMSC	RDY,3	DMS Control Tape stop	4O0	4	0	3,801,889:66:0	
1048	97	26	22:24:13.933	465WI6A	6DMSC	RDY,4	DMS Control Tape stop	4O0	4	0	3,801,904:00:0	
1049	97	26	22:25:07.933	465WJ6A	6DTRN	CMD,6DTRN,465WJ6	DMS TRACK TURNAROUND	4O0	4	0	3,801,904:81:0	
1050	97	26	22:39:59.933	488BL6E	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,801,919:54:0	
1051	97	26	22:40:03.933	20XG4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	4O0	4	0	3,801,919:60:0	
1052	97	26	22:40:53.933	20XG4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	3,801,920:44:0	
1053	97	26	22:42:25.933	176AM6A	6TMREC	**RPB**	**RESUME PLAYBACK (PB CONTROL) Record Mode**	4O0	4	0	3,801,922:00:0	
1054	97	26	22:47:19.933	488BM6A	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,801,926:77:0	
1055	97	27	06:07:25.933	488BN6A	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,802,362:10:0	
1056	97	27	16:15:41.933	488BO6A	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,802,963:63:0	
1057	97	27	19:05:27.933	488BO6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,803,131:54:0	
1058	97	27	22:57:59.933	488BP6A	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,803,361:52:0	
1059	97	28	06:22:25.866	488BQ6A	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,803,801:11:0	
1060	97	28	09:10:41.866	488BQ6B	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,803,967:49:0	
1061	97	28	13:07:25.866	488BR6A	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,804,201:61:0	
1062	97	28	15:35:41.866	488BR6B	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,804,348:28:0	
1063	97	28	18:59:03.866	488BR6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,804,549:40:0	
1064	97	28	20:39:19.866	488BS6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,804,648:55:0	
1065	97	28	21:11:19.866	488BS6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,804,680:23:0	
1066	97	28	22:32:23.866	488BS6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,804,760:39:0	
1067	97	29	05:17:43.866	488BT6A	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,805,161:28:0	
1068	97	29	06:17:27.200	488BT6B	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,805,220:34:0	
1069	97	29	08:30:43.133	488BT6C	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,805,352:16:0	
1070	97	29	13:37:27.133	488BU6A	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,805,655:49:0	
1071	97	29	15:15:43.133	488BU6B	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,805,752:66:0	
1072	97	29	19:31:03.800	488BU6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,806,005:24:0	
1073	97	29	20:05:11.800	488BV6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,806,039:02:0	
1074	97	29	20:39:19.800	488BV6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,806,072:71:0	
1075	97	29	22:51:35.800	488BV6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,806,203:54:0	
1076	97	30	04:03:03.800	488BW6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,806,511:58:0	
1077	97	30	05:13:27.800	488BW6B	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,806,581:24:0	
1078	97	30	06:17:27.800	488BW6C	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,806,644:51:0	
1079	97	30	10:43:35.133	488BX6A	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,806,907:69:0	
1080	97	30	13:02:27.733	488BX6B	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,807,045:10:0	
1081	97	30	15:00:43.733	488BX6C	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,807,162:07:0	
1082	97	30	15:29:23.066	488BX6D	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,807,190:38:0	
1083	97	30	17:45:55.066	488BY6A	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,807,325:41:0	
1084	97	30	18:59:03.733	488BY6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,807,397:72:0	
1085	97	30	19:31:03.733	488BY6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,807,429:40:0	
1086	97	30	20:35:03.733	488BY6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,807,492:67:0	
1087	97	30	22:51:35.733	488BY6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,807,627:70:0	
1088	97	31	04:47:51.733	488BZ6A	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,807,980:11:0	
1089	97	31	06:12:29.066	488BZ6B	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,808,063:74:0	
1090	97	31	06:49:57.066	476AB6A	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,808,100:79:0	
1091	97	31	07:55:45.066	488BZ6C	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,808,165:86:0	
1092	97	31	09:42:59.733	488BZ6D	6TMSED	NORM,AH1	Sci, Eng, and D/L Chan	4O0	4	0	3,808,272:01:0	
1093	97	31	09:48:02.400	176R6A	6TMREC	**PPB**	**PAUSE PLAYBACK (PB CONTROL) Record Mode C**	4O0	4	0	3,808,277:00:0	
1094	97	31	09:49:59.733	41VI99A	**POWER**	**PWR MODE change**	Change to Maneuver Mode	4O0	4	0	3,808,278:85:0	
1095	**97**	**31**	**09:50:03.733**	**41VI3K**	**37F2PR**	**1**	**Shield Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,808,279:00:0**	
1096	**97**	**31**	**09:50:13.733**	**41VI3L**	**37F2PR**	**2**	**Shield Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,808,279:15:0**	
1097	**97**	**31**	**09:52:23.733**	**41VI3G**	**40T1P**	**1**	**PCT Heater 1 ON (primary relay)**	**4O0**	**4**	**0**	**3,808,281:28:0**	
1098	**97**	**31**	**09:52:33.733**	**41VI3H**	**40T1P**	**2**	**PCT Heater 1 ON (primary relay)**	**4O0**	**4**	**0**	**3,808,281:43:0**	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1099	**97**	**31**	**09:52:43.733**	**41VI3I**	**40T2**		**1 PCT Heater 2 ON**	**4O0**	**4**	**0**	**3,808,281:58:0**	
1100	**97**	**31**	**09:52:53.733**	**41VI3J**	**40T2**		**2 PCT Heater 2 ON**	**4O0**	**4**	**0**	**3,808,281:73:0**	
1101	97	31	10:01:59.733	20XZ4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	3,808,290:73:0	
1102	97	31	10:02:59.733	20XZ4D	**7MODE**	**SPNL**	AACS ALL-SPIN LOW	4O0	4	0	3,808,291:72:0	
1103	97	31	10:04:59.733	20XZ4E	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	4O0	4	0	3,808,293:70:0	
1104	97	31	10:10:29.733	20XZ4G	7VENT	0.611,1.333,8	ALERT -- Thruster fire	4O0	4	0	3,808,299:19:0	
1105	97	31	10:10:30.400	20XZ4H	7VENT	0.611,10.989,8	ALERT -- Thruster fire	4O0	4	0	3,808,299:20:0	
1106	97	31	10:10:50.400	20XZ4I	7VENT	0.611,1.333,6	ALERT -- Thruster fire	4O0	4	0	3,808,299:50:0	
1107	97	31	10:10:51.066	20XZ4J	7VENT	0.611,10.989,6	ALERT -- Thruster fire	4O0	4	0	3,808,299:51:0	
1108	97	31	10:11:11.066	20XZ4K	7VENT	0.611,1.333,4	ALERT -- Thruster fire	4O0	4	0	3,808,299:81:0	
1109	97	31	10:11:11.733	20XZ4L	7VENT	0.611,0.666,5	ALERT -- Thruster fire	4O0	4	0	3,808,299:82:0	
1110	97	31	10:11:21.733	20XZ4M	7VENT	0.611,1.333,4	ALERT -- Thruster fire	4O0	4	0	3,808,300:06:0	
1111	97	31	10:11:22.400	20XZ4N	7VENT	0.611,0.666,5	ALERT -- Thruster fire	4O0	4	0	3,808,300:07:0	
1112	97	31	10:11:32.400	20XZ4O	7VENT	1.211,1.333,10	ALERT -- Thruster fire	4O0	4	0	3,808,300:22:0	
1113	97	31	10:11:33.066	20XZ4P	7VENT	1.211,0.666,12	ALERT -- Thruster fire	4O0	4	0	3,808,300:23:0	
1114	97	31	10:13:19.733	20XZ4S	7VENT	0.611,1.333,7	ALERT -- Thruster fire	4O0	4	0	3,808,302:01:0	
1115	97	31	10:13:20.400	20XZ4T	7VENT	0.611,10.989,7	ALERT -- Thruster fire	4O0	4	0	3,808,302:02:0	
1116	97	31	10:13:40.400	20XZ4U	7VENT	0.611,1.333,1	ALERT -- Thruster fire	4O0	4	0	3,808,302:32:0	
1117	97	31	10:13:41.066	20XZ4V	7VENT	0.611,10.989,1	ALERT -- Thruster fire	4O0	4	0	3,808,302:33:0	
1118	97	31	10:14:01.066	20XZ4AC	7VENT	0.611,1.333,2	ALERT -- Thruster fire	4O0	4	0	3,808,302:63:0	
1119	97	31	10:14:01.733	20XZ4AD	7VENT	0.611,0.666,3	ALERT -- Thruster fire	4O0	4	0	3,808,302:64:0	
1120	97	31	10:14:11.733	20XZ4AE	7VENT	0.611,1.333,2	ALERT -- Thruster fire	4O0	4	0	3,808,302:79:0	
1121	97	31	10:14:12.400	20XZ4AF	7VENT	0.611,0.666,3	ALERT -- Thruster fire	4O0	4	0	3,808,302:80:0	
1122	97	31	10:14:22.400	20XZ4W	7VENT	1.211,1.333,9	ALERT -- Thruster fire	4O0	4	0	3,808,303:04:0	
1123	97	31	10:14:23.066	20XZ4X	7VENT	1.211,0.666,11	ALERT -- Thruster fire	4O0	4	0	3,808,303:05:0	
1124	97	31	10:15:19.733	20XZ4Z	**7MODE**	**CRU**	AACS CRUISE MODE	4O0	4	0	3,808,303:90:0	
1125	97	31	10:39:59.733	41UH99A	**POWER**	**PWR MODE change**	Change to Playback Mode	4O0	4	0	3,808,328:35:0	
1126	**97**	**31**	**10:40:03.733**	**41UH3I**	**40T1PR**		**1 PCT Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**3,808,328:41:0**	
1127	**97**	**31**	**10:40:13.733**	**41UH3J**	**40T1PR**		**2 PCT Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**3,808,328:56:0**	
1128	**97**	**31**	**10:40:23.733**	**41UH3K**	**40T2R**		**1 PCT Heater 2 OFF**	**4O0**	**4**	**0**	**3,808,328:71:0**	
1129	**97**	**31**	**10:40:33.733**	**41UH3L**	**40T2R**		**2 PCT Heater 2 OFF**	**4O0**	**4**	**0**	**3,808,328:86:0**	
1130	**97**	**31**	**10:42:43.733**	**41UH3G**	**37F2P**		**1 Shield Flash Heater ON (primary relay)**	**4O0**	**4**	**0**	**3,808,331:08:0**	
1131	**97**	**31**	**10:42:53.733**	**41UH3H**	**37F2P**		**2 Shield Flash Heater ON (primary relay)**	**4O0**	**4**	**0**	**3,808,331:23:0**	
1132	97	31	10:50:03.733	20XI4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	4O0	4	0	3,808,338:31:0	
1133	97	31	10:50:53.733	20XI4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	3,808,339:15:0	
1134	97	31	10:52:45.066	176AO6A	6TMREC	**RPB**	**RESUME PLAYBACK (PB CONTROL) Record Mode**	4O0	4	0	3,808,341:00:0	
1135	97	31	11:50:59.733	488CA6A	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,808,398:55:0	
1136	97	31	13:42:29.733	488CA6B	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,808,508:80:0	
1137	97	31	14:55:46.400	488CA6C	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,808,581:32:0	
1138	97	31	16:10:31.733	488CA6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,808,655:26:0	
1139	97	31	19:01:12.333	488CB6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,808,824:08:0	
1140	97	31	20:35:03.666	488CB6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	3,808,916:83:0	
1141	97	31	22:47:19.666	488CB6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,809,047:66:0	
1142	97	32	05:07:03.666	488CC6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,809,423:26:0	
1143	97	32	06:24:33.000	488CC6B	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,809,499:84:0	
1144	97	32	06:32:23.666	488CC6C	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,809,507:62:0	
1145	97	32	07:45:47.000	488CC6D	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,809,580:24:0	
1146	97	32	13:37:31.000	488CD6A	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,809,928:12:0	
1147	97	32	15:05:47.000	488CD6B	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,810,015:39:0	
1148	97	32	15:29:19.666	488CD6C	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,810,038:65:0	
1149	**97**	**32**	**16:31:01.666**	**31U3A**	**37F2PR**		**1 Shield Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,810,099:67:0**	
1150	**97**	**32**	**16:33:01.666**	**31U3B**	**37F2PR**		**2 Shield Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,810,101:65:0**	
1151	**97**	**32**	**16:35:01.666**	**31U3C**	**40T1P**		**1 PCT Heater 1 ON (primary relay)**	**4O0**	**4**	**0**	**3,810,103:63:0**	
1152	**97**	**32**	**16:37:01.666**	**31U3D**	**40T1P**		**2 PCT Heater 1 ON (primary relay)**	**4O0**	**4**	**0**	**3,810,105:61:0**	
1153	**97**	**32**	**16:39:01.666**	**31U3E**	**40T2**		**1 PCT Heater 2 ON**	**4O0**	**4**	**0**	**3,810,107:59:0**	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1154	**97**	**32**	**16:41:01.666**	**31U3F**	**40T2**		**2 PCT Heater 2 ON**	**4O0**	**4**	**0**	**3,810,109:57:0**	
1155	97	32	17:48:32.333	488CD6D	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,810,176:36:0	
1156	97	32	18:54:47.666	488CD6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,810,241:84:0	
1157	97	32	20:30:47.666	488CE6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	3,810,336:79:0	
1158	97	32	22:47:19.666	488CE6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,810,471:82:0	
1159	97	33	00:02:34.333	488CE6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,810,546:29:0	
1160	97	33	00:29:52.333	488CE6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,810,573:29:0	
1161	97	33	05:02:47.600	488CF6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,810,843:22:0	
1162	97	33	06:22:33.600	488CF6B	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,810,922:12:0	
1163	97	33	06:32:23.600	488CF6C	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,810,931:78:0	
1164	97	33	08:05:48.266	488CF6D	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,811,024:22:0	
1165	97	33	13:32:31.600	488CG6A	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,811,347:34:0	
1166	97	33	14:40:48.933	488CG6B	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,811,414:83:0	
1167	97	33	15:29:59.600	488CG6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,811,463:50:0	
1168	97	33	18:50:31.600	488CG6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,811,661:80:0	
1169	97	33	20:30:47.600	488CH6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	3,811,761:04:0	
1170	97	33	22:43:03.600	488CH6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,811,891:78:0	
1171	97	34	00:14:47.600	488CH6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	3,811,982:53:0	
1172	97	34	01:23:03.600	488CH6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,812,050:09:0	
1173	97	34	05:02:47.600	488CI6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,812,267:38:0	
1174	97	34	06:22:34.266	488CI6B	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,812,346:29:0	
1175	97	34	06:32:23.600	488CI6C	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,812,356:03:0	
1176	97	34	07:55:50.200	488CI6D	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,812,438:51:0	
1177	97	34	08:14:16.866	488CI6E	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,812,456:73:0	
1178	97	34	10:33:28.866	488CJ6A	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,812,594:43:0	
1179	97	34	15:19:19.533	488CJ6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,812,877:16:0	
1180	97	34	15:24:12.200	176M6A	6TMREC	**PPB**	**PAUSE PLAYBACK (PB CONTROL) Record Mode C**	4O0	4	0	3,812,882:00:0	
1181	**97**	**34**	**15:30:00.000**	**20A3EW**	**37A**	**Final Condition**	**NIMS Power ON**	**4O0**	**4**	**0**	**3,812,887:66:7**	
1182	**97**	**34**	**15:30:00.000**	**20A3EX**	**37HR**	**Final Condition**	**Replacement Heaters OFF**	**4O0**	**4**	**0**	**3,812,887:66:7**	
1183	**97**	**34**	**15:30:00.000**	**20A3EY**	**37C1PR**	**Final Condition**	**Optics Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**3,812,887:66:7**	
1184	**97**	**34**	**15:30:00.000**	**20A3EZ**	**37C2PR**	**Final Condition**	**Optics Heater 2 OFF (primary relay)**	**4O0**	**4**	**0**	**3,812,887:66:7**	
1185	**97**	**34**	**15:30:00.000**	**20A3FA**	**37F1PR**	**Final Condition**	**Radiator Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,812,887:66:7**	
1186	**97**	**34**	**15:30:00.000**	**20A3FB**	**37F2P**	**Final Condition**	**Shield Flash Heater ON (primary relay)**	**4O0**	**4**	**0**	**3,812,887:66:7**	
1187	**97**	**34**	**15:30:00.000**	**20A3FD**	**40HRPR**	**Final Condition**	**RCT Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,812,887:66:7**	
1188	**97**	**34**	**15:30:00.000**	**20A3FE**	**40T1PR**	**Final Condition**	**PCT Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**3,812,887:66:7**	
1189	**97**	**34**	**15:30:00.000**	**20A3FF**	**40T2R**	**Final Condition**	**PCT Heater 2 OFF**	**4O0**	**4**	**0**	**3,812,887:66:7**	
1190	97	34	15:30:00.200		DMS:	: READY	RDY, TRACK 1, FWD, TIC 201.62 +/-	4O0	4	0	3,812,887:67:0	

			Sequence:	E04C-AR		Created: 3/11/97	Begin: 97-034/15:30:00 Finish: 97-047/23:05:00				
Line	**YR**	**DOY**	**SCET - GMT**	**PSID**	**Command**	**Parameters**	**Description**	**GCM**	**GO**	**GS**	**RIM MF I**
1	**97**	**34**	**15:30:00.000**	**20A3FF**	**40T2R**	**Initial Condition**	**PCT Heater 2 OFF**	**4O0**	**4**	**0**	**3,812,887:66:7**
2	**97**	**34**	**15:30:00.000**	**20A3EX**	**37HR**	**Initial Condition**	**Replacement Heaters OFF**	**4O0**	**4**	**0**	**3,812,887:66:7**
3	**97**	**34**	**15:30:00.000**	**20A3EW**	**37A**	**Initial Condition**	**NIMS Power ON**	**4O0**	**4**	**0**	**3,812,887:66:7**
4	**97**	**34**	**15:30:00.000**	**20A3EY**	**37C1PR**	**Initial Condition**	**Optics Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**3,812,887:66:7**
5	**97**	**34**	**15:30:00.000**	**20A3EZ**	**37C2PR**	**Initial Condition**	**Optics Heater 2 OFF (primary relay)**	**4O0**	**4**	**0**	**3,812,887:66:7**
6	**97**	**34**	**15:30:00.000**	**20A3FA**	**37F1PR**	**Initial Condition**	**Radiator Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,812,887:66:7**
7	**97**	**34**	**15:30:00.000**	**20A3FB**	**37F2P**	**Initial Condition**	**Shield Flash Heater ON (primary relay)**	**4O0**	**4**	**0**	**3,812,887:66:7**
8	**97**	**34**	**15:30:00.000**	**20A3FD**	**40HRPR**	**Initial Condition**	**RCT Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,812,887:66:7**
9	**97**	**34**	**15:30:00.000**	**20A3FE**	**40T1PR**	**Initial Condition**	**PCT Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**3,812,887:66:7**
10	97	34	15:30:00.200		DMS:	: READY	RDY, TRACK 2, REV, TIC 1096.00 +/-	4O0	4	0	3,812,887:67:0
11	**97**	**34**	**15:32:00.200**	**432C6A**	**6RTSL2**	**NIMNCG,AACNCG,RT**	**R/T ENG SELECT**	**4O0**	**4**	**0**	**3,812,889:65:0**
12	97	34	15:32:07.533	488A6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,812,889:76:0
13	97	34	15:33:04.200	20XJ4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	4O0	4	0	3,812,890:70:0
14	97	34	15:33:54.200	20XJ4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	3,812,891:54:0
15	97	34	15:36:20.200	176AP6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	3,812,894:00:0
16	97	34	15:44:12.200	488A6B	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,812,901:71:0
17	97	34	16:38:49.533	488A6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,812,955:73:0
18	97	34	18:46:15.533	488A6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,813,081:76:0
19	97	34	20:09:27.533	488A6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	3,813,164:11:0
20	97	34	20:41:27.533	488B6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	3,813,195:70:0
21	97	34	22:06:47.533	488B6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	3,813,280:15:0
22	97	35	02:41:59.533	488C6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,813,552:31:0
23	97	35	04:58:31.533	488C6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,813,687:34:0
24	97	35	06:19:18.200	488C6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,813,767:24:0
25	97	35	06:30:15.533	488C6D	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,813,778:09:0
26	97	35	07:35:52.200	488C6E	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,813,842:90:0
27	97	35	09:05:59.533	488D6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,813,932:11:0
28	97	35	12:32:55.533	488D6B	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,814,136:71:0
29	97	35	13:27:36.133	488D6C	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,814,190:78:0
30	97	35	14:35:52.800	488D6D	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,814,258:35:0
31	97	35	15:19:19.466	488E6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,814,301:32:0
32	97	35	18:46:15.466	488E6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,814,506:01:0
33	97	35	19:35:19.466	488E6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	3,814,554:49:0
34	97	35	20:20:07.466	488E6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	3,814,598:77:0
35	97	35	22:38:47.466	488F6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	3,814,735:90:0
36	97	36	03:52:23.466	488F6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,815,046:13:0
37	97	36	04:52:07.466	488G6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,815,105:20:0
38	97	36	06:18:02.133	488G6B	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,815,190:17:0
39	97	36	06:28:07.466	488G6C	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,815,200:15:0
40	97	36	07:30:54.133	488G6D	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,815,262:23:0
41	97	36	08:59:35.466	488G6E	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,815,349:88:0
42	97	36	12:32:55.466	488H6A	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,815,560:87:0
43	97	36	15:19:12.133	488H6B	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,815,725:37:0
44	97	36	17:38:24.133	488H6C	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,815,863:07:0
45	97	36	17:50:47.466	488H6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,815,875:30:0
46	97	36	19:05:27.466	488I6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,815,949:16:0
47	97	36	20:20:07.400	488I6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	3,816,023:02:0
48	97	36	20:52:07.400	488I6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	3,816,054:61:0
49	97	36	22:17:27.400	488I6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	3,816,139:06:0
50	97	36	23:55:12.733	488I6E	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	3,816,235:68:0
51	97	37	00:13:24.733	488J6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	3,816,253:68:0
52	97	37	03:48:07.400	488J6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,816,466:09:0
53	97	37	04:52:07.400	488J6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,816,529:36:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
54	97	37	06:16:03.400	488K6A	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,816,612	37:0
55	97	37	06:28:07.400	488K6B	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,816,624	31:0
56	97	37	07:55:56.733	488K6C	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,816,711	18:0
57	97	37	08:04:10.066	488K6D	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,816,719	30:0
58	97	37	09:47:58.733	176P6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	4O0	4	0	3,816,822	00:0
59	97	37	10:01:20.066	20YE4B	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	4O0	4	0	3,816,835	19:0
60	97	37	10:20:20.066	20YE4D	**7MODE**	**INT**	AACS INERTIAL MODE	4O0	4	0	3,816,854	00:0
61	97	37	10:23:22.066	488K6E	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,816,857	00:0
62	97	37	12:53:00.066	488L6A	6TMSED	NORM,AH1	Sci, Eng, and D/L Chan	4O0	4	0	3,817,004	90:0
63	97	37	13:22:40.066	488L6B	6TMSED	FILL,AH1	Sci, Eng, and D/L Chan	4O0	4	0	3,817,034	30:0
64	97	37	14:30:56.733	488L6C	6TMSED	NORM,AH1	Sci, Eng, and D/L Chan	4O0	4	0	3,817,101	78:0
65	97	37	15:03:00.066	474AA416A4B	**7MODE**	**INT**	AACS INERTIAL MODE	4O0	4	0	3,817,133	51:0
66	97	37	15:05:00.066	474AA416A4D	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	4O0	4	0	3,817,135	49:0
67	97	37	15:09:14.066	474AA416A4E	7BURN	.144699,-68.4447	ALERT -- Thruster fire	4O0	4	0	3,817,139	66:0
68	97	37	15:46:38.066	474AA416A4G	7BURN	.144699,-68.4447	ALERT -- Thruster fire	4O0	4	0	3,817,176	65:0
69	97	37	17:12:54.066	474AA416A4N	**7MODE**	**CRU**	AACS CRUISE MODE	4O0	4	0	3,817,262	03:0
70	97	37	19:00:00.066	488M6A	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,817,367	87:0
71	97	37	19:01:11.400	488M6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,817,369	12:0
72	97	37	19:10:00.066	444UG443A4A	**7MODE**	**CRU**	AACS CRUISE MODE	4O0	4	0	3,817,377	77:0
73	97	37	19:17:04.066	20XK4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	4O0	4	0	3,817,384	76:0
74	97	37	19:17:54.066	20XK4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	3,817,385	60:0
75	97	37	19:19:15.400	176AQ6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	3,817,387	00:0
76	97	37	19:33:11.400	488M6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	3,817,400	71:0
77	97	37	20:20:07.400	488M6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	3,817,447	18:0
78	97	37	22:32:23.400	488M6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	3,817,578	01:0
79	97	38	03:43:51.333	488N6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,817,886	05:0
80	97	38	04:47:51.333	488N6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,817,949	32:0
81	97	38	06:11:30.666	488N6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,818,032	08:0
82	97	38	06:23:51.333	488N6D	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,818,044	27:0
83	97	38	07:25:59.333	488N6E	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,818,105	68:0
84	97	38	08:55:19.333	488O6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,818,194	09:0
85	97	38	12:28:39.333	488O6B	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,818,405	08:0
86	97	38	15:14:07.333	488P6A	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,818,568	67:0
87	97	38	17:33:19.333	488P6B	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,818,706	37:0
88	97	38	18:35:35.333	488P6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,818,767	90:0
89	97	38	20:15:51.333	488P6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	3,818,867	14:0
90	97	38	20:47:51.333	488P6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	3,818,898	73:0
91	97	38	22:13:11.333	488Q6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	3,818,983	18:0
92	97	38	23:50:07.333	488Q6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	3,819,079	06:0
93	97	39	00:08:20.000	488Q6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	3,819,097	07:0
94	97	39	03:37:27.333	488Q6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,819,303	82:0
95	97	39	04:43:35.333	488R6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,819,369	28:0
96	97	39	06:07:41.333	488R6B	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,819,452	44:0
97	97	39	06:17:27.333	488R6C	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,819,462	13:0
98	97	39	07:21:02.000	488R6D	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,819,525	02:0
99	97	39	08:55:19.266	488R6E	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,819,618	25:0
100	97	39	12:17:59.266	488S6A	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,819,818	65:0
101	97	39	15:04:23.266	488S6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,819,983	26:0
102	97	39	18:31:19.266	488T6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,820,187	86:0
103	97	39	19:24:39.266	488T6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	3,820,240	63:0
104	97	39	20:15:51.266	488T6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	3,820,291	30:0
105	97	39	21:15:15.933	488T6D	6TMSED	NORM,AH6	Sci, Eng, and D/L Chan	4O0	4	0	3,820,350	08:0
106	**97**	**39**	**21:20:20.666**	**E4NNMEMCHK02-**		**-----START------**		**4O0**	**4**	**0**	**:**	**:**
107	**97**	**39**	**21:22:20.600**	**475FA6A**	**6MROH**	**37,1000,3,A10**	**read from NIMS37,1000,3,A1**	**4O0**	**4**	**0**	**3,820,357**	**08:0**
108	**97**	**39**	**21:29:00.600**	**475FA6B**	**6MROH**	**37,1080,3,A10**	**read from NIMS37,1080,3,A1**	**4O0**	**4**	**0**	**3,820,363**	**62:0**

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
109	**97**	**39**	**21:35:40.600**	**475FA6C**	**6MROH**	**37,1100,3,A10**	**read from NIMS37,1100,3,A1**	**4O0**	**4**	**0**	**3,820,370:25:0**	
110	**97**	**39**	**21:42:20.600**	**475FA6D**	**6MROH**	**37,1180,3,A10**	**read from NIMS37,1180,3,A1**	**4O0**	**4**	**0**	**3,820,376:79:0**	
111	**97**	**39**	**21:49:00.600**	**475FA6E**	**6MROH**	**37,1200,3,A10**	**read from NIMS37,1200,3,A1**	**4O0**	**4**	**0**	**3,820,383:42:0**	
112	**97**	**39**	**21:55:40.600**	**475FA6F**	**6MROH**	**37,1280,3,A10**	**read from NIMS37,1280,3,A1**	**4O0**	**4**	**0**	**3,820,390:05:0**	
113	**97**	**39**	**22:02:20.600**	**475FA6G**	**6MROH**	**37,1300,3,A10**	**read from NIMS37,1300,3,A1**	**4O0**	**4**	**0**	**3,820,396:59:0**	
114	**97**	**39**	**22:09:00.600**	**475FA6H**	**6MROH**	**37,1380,3,A10**	**read from NIMS37,1380,3,A1**	**4O0**	**4**	**0**	**3,820,403:22:0**	
115	**97**	**39**	**22:15:40.600**	**475FA6I**	**6MROH**	**37,1400,3,A10**	**read from NIMS37,1400,3,A1**	**4O0**	**4**	**0**	**3,820,409:76:0**	
116	**97**	**39**	**22:22:20.600**	**475FA6J**	**6MROH**	**37,1480,3,A10**	**read from NIMS37,1480,3,A1**	**4O0**	**4**	**0**	**3,820,416:39:0**	
117	97	39	22:23:51.266	488T6E	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	4O0	4	0	3,820,417:84:0	
118	**97**	**39**	**22:29:00.600**	**475FA6K**	**6MROH**	**37,1500,3,A10**	**read from NIMS37,1500,3,A1**	**4O0**	**4**	**0**	**3,820,423:02:0**	
119	**97**	**39**	**22:35:40.600**	**475FA6L**	**6MROH**	**37,1580,3,A10**	**read from NIMS37,1580,3,A1**	**4O0**	**4**	**0**	**3,820,429:56:0**	
120	**97**	**39**	**22:42:20.600**	**475FA6M**	**6MROH**	**37,1600,3,A10**	**read from NIMS37,1600,3,A1**	**4O0**	**4**	**0**	**3,820,436:19:0**	
121	**97**	**39**	**22:49:00.600**	**475FA6N**	**6MROH**	**37,1680,3,A10**	**read from NIMS37,1680,3,A1**	**4O0**	**4**	**0**	**3,820,442:73:0**	
122	**97**	**39**	**22:55:40.600**	**475FA6O**	**6MROH**	**37,1700,3,A10**	**read from NIMS37,1700,3,A1**	**4O0**	**4**	**0**	**3,820,449:36:0**	
123	**97**	**39**	**23:02:20.600**	**475FA6P**	**6MROH**	**37,1780,3,A10**	**read from NIMS37,1780,3,A1**	**4O0**	**4**	**0**	**3,820,455:90:0**	
124	**97**	**39**	**23:09:00.600**	**475FA6Q**	**6MROH**	**37,1800,3,A10**	**read from NIMS37,1800,3,A1**	**4O0**	**4**	**0**	**3,820,462:53:0**	
125	**97**	**39**	**23:15:40.600**	**475FA6R**	**6MROH**	**37,1880,3,A10**	**read from NIMS37,1880,3,A1**	**4O0**	**4**	**0**	**3,820,469:16:0**	
126	**97**	**39**	**23:16:00.000**	**E4NNMEMCHK02-**		**-----STOP-------**		**4O0**	**4**	**0**	**: :**	
127	97	39	23:26:42.600	488U6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	3,820,480:08:0	
128	97	40	00:58:37.933	176B6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	4O0	4	0	3,820,571:00:0	
129	97	40	01:04:41.933	176KA6A	6TMREC	ORT	OPNAV - REAL TIME Record Mode Change	4O0	4	0	3,820,577:00:0	
130	97	40	01:05:41.266	165QA4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4O0	4	0	3,820,577:89:0	
131	97	40	01:05:41.933	165QA4B	7SCAN	NORM,174.570999,	Check S/P Position	4O0	4	0	3,820,577:90:0	
132	97	40	01:25:54.600	165QB4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4O0	4	0	3,820,597:89:0	
133	97	40	01:25:55.266	165QB4B	7SCAN	NORM,174.436998,	Check S/P Position	4O0	4	0	3,820,597:90:0	
134	97	40	01:55:03.933	20XL4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	4O0	4	0	3,820,626:74:0	
135	97	40	01:55:53.933	20XL4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	3,820,627:58:0	
136	97	40	01:57:16.600	176X6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	3,820,629:00:0	
137	97	40	03:28:55.266	488U6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,820,719:58:0	
138	97	40	04:43:35.266	488U6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,820,793:44:0	
139	97	40	06:03:09.266	488V6A	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,820,872:16:0	
140	97	40	06:13:11.266	488V6B	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,820,882:09:0	
141	97	40	07:21:05.266	488V6C	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,820,949:23:0	
142	**97**	**40**	**07:27:00.666**	**E4NNRELOAD11-**		**-----START------**		**4O0**	**4**	**0**	**: :**	
143	**97**	**40**	**07:29:00.600**	**20FB5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**260**	**4**	**0**	**3,820,957:08:0**	
144	**97**	**40**	**07:30:01.266**	**20FB5B**	**37MRL**		**Memory Realocate (software operates from R**	**260**	**4**	**0**	**3,820,958:08:0**	
145	**97**	**40**	**07:31:01.933**	**20FB6B**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**260**	**4**	**0**	**3,820,959:08:0**	
146	**97**	**40**	**07:32:02.600**	**20FB6E**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**260**	**4**	**0**	**3,820,960:08:0**	
147	**97**	**40**	**07:33:03.266**	**20FB5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**3,820,961:08:0**	
148	**97**	**40**	**07:34:03.933**	**20FB5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**3,820,962:08:0**	
149	**97**	**40**	**07:35:04.600**	**20FB4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**3,820,963:08:0**	
150	**97**	**40**	**07:36:00.000**	**E4NNRELOAD11-**		**-----STOP-------**		**2R0**	**4**	**0**	**: :**	
151	97	40	08:59:35.266	488V6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	2R0	4	0	3,821,046:61:0	
152	97	40	12:13:43.266	488W6A	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	2R0	4	0	3,821,238:61:0	
153	97	40	15:04:01.200	488W6B	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	2R0	4	0	3,821,407:09:0	
154	97	40	17:23:13.200	488W6C	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	2R0	4	0	3,821,544:70:0	
155	97	40	18:24:55.200	488X6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2R0	4	0	3,821,605:72:0	
156	97	40	20:09:27.200	488X6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R0	4	0	3,821,709:16:0	
157	97	40	20:49:59.200	488X6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2R0	4	0	3,821,749:24:0	
158	97	40	21:47:35.200	488X6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R0	4	0	3,821,806:21:0	
159	97	40	23:40:01.200	488X6E	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2R0	4	0	3,821,917:39:0	
160	97	40	23:58:13.866	488Y6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R0	4	0	3,821,935:40:0	
161	97	41	03:18:15.200	488Y6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2R0	4	0	3,822,133:24:0	
162	97	41	04:37:11.200	488Y6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	2R0	4	0	3,822,211:30:0	
163	97	41	06:01:10.533	488Z6A	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	2R0	4	0	3,822,294:36:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
164	97	41	06:13:11.200	488Z6B	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	2R0	4	0	3,822,306	25:0
165	97	41	07:46:07.866	488Z6C	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	2R0	4	0	3,822,398	18:0
166	97	41	07:48:59.200	488Z6D	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	2R0	4	0	3,822,401	02:0
167	97	41	10:08:11.200	488Z6E	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	2R0	4	0	3,822,538	63:0
168	97	41	13:02:53.200	488AA6A	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	2R0	4	0	3,822,711	43:0
169	97	41	14:16:09.200	488AA6B	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	2R0	4	0	3,822,783	85:0
170	97	41	15:00:07.200	488AA6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	2R0	4	0	3,822,827	38:0
171	97	41	15:38:54.533	488AA6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	2R0	4	0	3,822,865	71:0
172	97	41	16:33:31.200	488AA6E	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	2R0	4	0	3,822,919	72:0
173	97	41	17:46:31.866	176U6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	2R0	4	0	3,822,992	00:0
174	97	41	17:52:59.866	488AB6A	6TMSED	NORM,AH2	Sci, Eng, and D/L Chan	2R0	4	0	3,822,998	36:0
175	97	41	18:24:55.200	488AB6B	6TMSED	NORM,AH4	Sci, Eng, and D/L Chan	2R0	4	0	3,823,029	88:0
176	97	41	18:25:02.533	490UJ412A4B	**7MODE**	**INT**	AACS INERTIAL MODE	2R0	4	0	3,823,030	08:0
177	97	41	18:30:00.533	490UJ412A4D	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	2R0	4	0	3,823,035	00:0
178	97	41	18:34:10.533	490UJ412A4E	7VECT		Inert vect update UTC	2R0	4	0	3,823,039	11:0
179	97	41	18:34:14.533	490UJ412A4F	7TURN	2,RTH	ALERT Thruster	2R0	4	0	3,823,039	17:0
180	97	41	18:38:02.533	490UJ412A406A4A	7STAR	1,3000,95.710999	Star catalog update	2R0	4	0	3,823,042	86:0
181	97	41	18:38:04.533	490UJ412A406A4B	7STAR	2,770,213.33,19.	Star catalog update	2R0	4	0	3,823,042	89:0
182	97	41	18:38:06.533	490UJ412A406A4C	7STAR	3,0,0.0,0.0	Star catalog update	2R0	4	0	3,823,043	01:0
183	97	41	18:38:08.533	490UJ412A406A4D	7STAR	4,0,0.0,0.0	Star catalog update	2R0	4	0	3,823,043	04:0
184	97	41	18:38:10.533	490UJ412A406A4E	7STAR	5,0,0.0,0.0	Star catalog update	2R0	4	0	3,823,043	07:0
185	97	41	18:38:12.533	490UJ412A406A4F	7STAR	6,0,0.0,0.0	Star catalog update	2R0	4	0	3,823,043	10:0
186	97	41	19:46:13.133	490UJ412A4L	**7MODE**	**CRU**	AACS CRUISE MODE	2R0	4	0	3,823,110	34:0
187	97	41	20:00:55.133	488AB6C	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	2R0	4	0	3,823,124	83:0
188	97	41	20:00:59.800	488AB6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R0	4	0	3,823,124	90:0
189	97	41	20:15:03.800	20XQ4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	2R0	4	0	3,823,138	82:0
190	97	41	20:15:53.800	20XQ4B	7SLEW	DIS,POS,0.0	Stator movement	2R0	4	0	3,823,139	66:0
191	97	41	20:17:11.133	176AR6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	2R0	4	0	3,823,141	00:0
192	97	41	20:32:55.133	488AB6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2R0	4	0	3,823,156	51:0
193	97	41	21:39:03.133	488AC6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R0	4	0	3,823,221	88:0
194	97	41	22:23:51.133	488AC6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2R0	4	0	3,823,266	25:0
195	97	41	22:55:51.133	488AC6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R0	4	0	3,823,297	84:0
196	97	42	02:07:51.133	488AC6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2R0	4	0	3,823,487	74:0
197	97	42	04:37:11.133	488AD6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	2R0	4	0	3,823,635	46:0
198	97	42	05:54:47.800	488AD6B	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	2R0	4	0	3,823,712	24:0
199	97	42	06:02:31.133	488AD6C	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	2R0	4	0	3,823,719	82:0
200	97	42	06:38:47.133	488AD6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	2R0	4	0	3,823,755	70:0
201	97	42	18:40:11.800	488AE6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	2R0	4	0	3,824,469	23:0
202	97	42	19:45:59.133	488AE6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2R0	4	0	3,824,534	29:0
203	97	42	20:17:59.133	488AE6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2R0	4	0	3,824,565	88:0
204	97	42	21:49:43.133	488AE6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R0	4	0	3,824,656	63:0
205	97	42	23:12:07.133	488AE6E	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2R0	4	0	3,824,738	17:0
206	97	42	23:17:11.133	488AF6A	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	2R0	4	0	3,824,743	18:0
207	97	43	04:59:54.400	476B6A	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	2R0	4	0	3,825,082	14:0
208	97	43	07:36:15.066	488AG6A	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	2R0	4	0	3,825,236	71:0
209	97	43	12:38:47.733	176C6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	2R0	4	0	3,825,536	00:0
210	97	43	12:44:51.733	176KB6A	6TMREC	ORT	OPNAV - REAL TIME Record Mode Change	2R0	4	0	3,825,542	00:0
211	97	43	12:45:51.066	165QC4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R0	4	0	3,825,542	89:0
212	97	43	12:45:51.733	165QC4B	7SCAN	NORM,176.504999,	Check S/P Position	2R0	4	0	3,825,542	90:0
213	97	43	13:02:59.066	488AG6B	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	2R0	4	0	3,825,559	84:0
214	97	43	13:06:04.400	165QD4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R0	4	0	3,825,562	89:0
215	97	43	13:06:05.066	165QD4B	7SCAN	NORM,176.467999,	Check S/P Position	2R0	4	0	3,825,562	90:0
216	97	43	13:35:03.733	20XM4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	2R0	4	0	3,825,591	59:0
217	97	43	13:35:53.733	20XM4B	7SLEW	DIS,POS,0.0	Stator movement	2R0	4	0	3,825,592	43:0
218	97	43	13:37:26.400	176Y6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	2R0	4	0	3,825,594	00:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
219	97	43	14:11:16.400	488AH6A	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	2R0	4	0	3,825,627	42:0
220	97	43	15:06:31.066	488AH6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2R0	4	0	3,825,682	09:0
221	97	43	17:25:11.066	488AH6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2R0	4	0	3,825,819	22:0
222	97	43	18:16:23.066	488AH6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R0	4	0	3,825,869	80:0
223	97	43	18:48:23.066	488AH6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2R0	4	0	3,825,901	48:0
224	97	44	04:13:43.066	488AI6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2R0	4	0	3,826,460	59:0
225	97	44	05:32:39.066	488AI6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	2R0	4	0	3,826,538	65:0
226	97	44	05:54:07.066	488AI6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	2R0	4	0	3,826,559	86:0
227	97	44	06:04:39.066	488AI6D	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	2R0	4	0	3,826,570	33:0
228	97	44	06:40:55.066	488AI6E	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	2R0	4	0	3,826,606	21:0
229	97	44	07:50:17.666	488AJ6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	2R0	4	0	3,826,674	77:0
230	97	44	09:16:39.000	488AJ6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2R0	4	0	3,826,760	23:0
231	97	44	11:33:11.000	488AJ6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	2R0	4	0	3,826,895	26:0
232	97	44	13:09:11.000	488AJ6D	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	2R0	4	0	3,826,990	21:0
233	97	44	15:14:21.000	488AK6A	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	2R0	4	0	3,827,114	02:0
234	97	44	15:21:27.000	488AK6B	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	2R0	4	0	3,827,121	04:0
235	97	44	16:16:00.333	488AK6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	2R0	4	0	3,827,175	00:0
236	97	44	18:31:19.000	488AK6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R0	4	0	3,827,308	75:0
237	97	44	19:16:07.000	488AK6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2R0	4	0	3,827,353	12:0
238	97	44	23:31:10.333	488AL6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2R0	4	0	3,827,605	35:0
239	97	44	23:44:49.666	488AL6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2R0	4	0	3,827,618	81:0
240	97	45	00:00:00.333	481UA4A	7VECT		Inert vect update UTC	2R0	4	0	3,827,633	82:0
241	97	45	04:17:59.000	488AL6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2R0	4	0	3,827,889	04:0
242	97	45	05:18:36.333	176D6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	2R0	4	0	3,827,949	00:0
243	97	45	05:24:40.333	176KC6A	6TMREC	ORT	OPNAV - REAL TIME Record Mode Change	2R0	4	0	3,827,955	00:0
244	97	45	05:25:39.666	165QE4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R0	4	0	3,827,955	89:0
245	97	45	05:25:40.333	165QE4B	7SCAN	NORM,196.422998,	Check S/P Position	2R0	4	0	3,827,955	90:0
246	97	45	05:32:39.000	488AM6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	2R0	4	0	3,827,962	81:0
247	97	45	05:45:53.000	165QF4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R0	4	0	3,827,975	89:0
248	97	45	05:45:53.666	165QF4B	7SCAN	NORM,196.490999,	Check S/P Position	2R0	4	0	3,827,975	90:0
249	97	45	05:52:09.000	488AM6B	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	2R0	4	0	3,827,982	16:0
250	97	45	06:04:39.000	488AM6C	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	2R0	4	0	3,827,994	49:0
251	97	45	06:15:04.333	20XN4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	2R0	4	0	3,828,004	77:0
252	97	45	06:15:54.333	20XN4B	7SLEW	DIS,POS,0.0	Stator movement	2R0	4	0	3,828,005	61:0
253	97	45	06:17:15.000	176Z6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	2R0	4	0	3,828,007	00:0
254	97	45	07:26:23.000	488AM6D	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	2R0	4	0	3,828,075	34:0
255	97	45	07:38:43.666	488AM6E	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	2R0	4	0	3,828,087	53:0
256	97	45	09:57:56.333	488AN6A	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	2R0	4	0	3,828,225	24:0
257	97	45	14:15:18.933	488AN6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	2R0	4	0	3,828,479	74:0
258	97	45	14:51:34.933	488AN6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2R0	4	0	3,828,515	62:0
259	97	45	15:34:53.600	488AN6D	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	2R0	4	0	3,828,558	47:0
260	97	45	16:09:01.600	488AO6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2R0	4	0	3,828,592	25:0
261	97	45	16:25:26.933	488AO6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2R0	4	0	3,828,608	47:0
262	97	45	18:16:22.933	488AO6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R0	4	0	3,828,718	21:0
263	97	45	18:48:22.933	488AO6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2R0	4	0	3,828,749	80:0
264	97	45	19:56:38.933	488AO6E	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2R0	4	0	3,828,817	36:0
265	97	45	21:43:18.933	488AP6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2R0	4	0	3,828,922	81:0
266	**97**	**45**	**23:00:23.333**	**E4NNE6PREP01-**		**-----START------**		**2R0**	**4**	**0**	:	:
267	**97**	**45**	**23:30:43.333**	**E4NNE6PREP01-**		**-----STOP-------**		**2R0**	**4**	**0**	:	:
268	97	46	04:17:58.933	488AQ6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2R0	4	0	3,829,313	20:0
269	97	46	05:32:38.933	488AQ6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	2R0	4	0	3,829,387	06:0
270	97	46	05:50:10.266	488AQ6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	2R0	4	0	3,829,404	36:0
271	97	46	06:04:38.933	488AQ6D	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	2R0	4	0	3,829,418	65:0
272	97	46	07:16:26.933	488AQ6E	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	2R0	4	0	3,829,489	66:0
273	97	46	07:33:40.266	488AR6A	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	2R0	4	0	3,829,506	69:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
274	97	46	09:46:30.933	488AR6B	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	2R0	4	0	3,829,638	13:0
275	97	46	09:49:10.266	488AR6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	2R0	4	0	3,829,640	70:0
276	97	46	10:52:38.933	488AR6D	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	2R0	4	0	3,829,703	50:0
277	97	46	13:03:10.933	488AR6E	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	2R0	4	0	3,829,832	59:0
278	97	46	14:11:28.266	488AS6A	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	2R0	4	0	3,829,900	17:0
279	97	46	15:00:06.933	488AS6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	2R0	4	0	3,829,948	27:0
280	97	46	15:08:35.600	488AS6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	2R0	4	0	3,829,956	62:0
281	97	46	15:08:54.933	176E6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	2R0	4	0	3,829,957	00:0
282	97	46	15:14:58.933	176KD6A	6TMREC	ORT	OPNAV - REAL TIME Record Mode Change	2R0	4	0	3,829,963	00:0
283	97	46	15:15:58.266	165QG4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R0	4	0	3,829,963	89:0
284	97	46	15:15:58.933	165QG4B	7SCAN	NORM,208.939999,	Check S/P Position	2R0	4	0	3,829,963	90:0
285	97	46	15:36:11.600	165QH4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R0	4	0	3,829,983	89:0
286	97	46	15:36:12.266	165QH4B	7SCAN	NORM,208.948,-13	Check S/P Position	2R0	4	0	3,829,983	90:0
287	97	46	16:05:52.266	488AS6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	2R0	4	0	3,830,013	30:0
288	97	46	16:06:04.266	20XO4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	2R0	4	0	3,830,013	48:0
289	97	46	16:06:54.266	20XO4B	7SLEW	DIS,POS,0.0	Stator movement	2R0	4	0	3,830,014	32:0
290	97	46	16:08:34.266	176AA6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	2R0	4	0	3,830,016	00:0
291	97	46	18:09:58.933	488AS6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R0	4	0	3,830,136	07:0
292	97	46	18:23:02.933	176F6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	2R0	4	0	3,830,149	00:0
293	97	46	18:29:06.933	176KE6A	6TMREC	ORT	OPNAV - REAL TIME Record Mode Change	2R0	4	0	3,830,155	00:0
294	97	46	18:31:06.933	165QI4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R0	4	0	3,830,156	89:0
295	97	46	18:31:07.600	165QI4B	7SCAN	NORM,196.547998,	Check S/P Position	2R0	4	0	3,830,156	90:0
296	97	46	18:51:20.266	165QJ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R0	4	0	3,830,176	89:0
297	97	46	18:51:20.933	165QJ4B	7SCAN	NORM,196.445999,	Check S/P Position	2R0	4	0	3,830,176	90:0
298	97	46	18:54:46.933	488AT6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2R0	4	0	3,830,180	35:0
299	97	46	19:21:04.266	20XP4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	2R0	4	0	3,830,206	35:0
300	97	46	19:21:54.266	20XP4B	7SLEW	DIS,POS,0.0	Stator movement	2R0	4	0	3,830,207	19:0
301	97	46	19:23:42.933	176AB6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	2R0	4	0	3,830,209	00:0
302	97	46	23:26:01.533	488AT6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2R0	4	0	3,830,448	59:0
303	97	46	23:39:40.866	488AT6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2R0	4	0	3,830,462	14:0
304	97	47	02:50:00.200	488AU6A	6TMSED	NORM,AH6	Sci, Eng, and D/L Chan	2R0	4	0	3,830,650	35:0
305	97	47	02:56:41.533	176TA6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	2R0	4	0	3,830,657	00:0
306	97	47	03:02:00.200	20YA4B	7SLEW	DIS,POS,0.0	Stator movement	2R0	4	0	3,830,662	23:0
307	97	47	03:03:00.200	20YA4D	**7MODE**	**SPNL**	AACS ALL-SPIN LOW	2R0	4	0	3,830,663	22:0
308	97	47	03:05:00.200	20YA4E	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	2R0	4	0	3,830,665	20:0
309	97	47	03:10:30.200	20YA4G	7VENT	0.611,1.333,8	ALERT -- Thruster fire	2R0	4	0	3,830,670	60:0
310	97	47	03:10:30.866	20YA4H	7VENT	0.611,10.989,8	ALERT -- Thruster fire	2R0	4	0	3,830,670	61:0
311	97	47	03:10:50.866	20YA4I	7VENT	0.611,1.333,6	ALERT -- Thruster fire	2R0	4	0	3,830,671	00:0
312	97	47	03:10:51.533	20YA4J	7VENT	0.611,10.989,6	ALERT -- Thruster fire	2R0	4	0	3,830,671	01:0
313	97	47	03:11:11.533	20YA4K	7VENT	0.611,1.333,4	ALERT -- Thruster fire	2R0	4	0	3,830,671	31:0
314	97	47	03:11:12.200	20YA4L	7VENT	0.611,0.666,5	ALERT -- Thruster fire	2R0	4	0	3,830,671	32:0
315	97	47	03:11:22.200	20YA4M	7VENT	0.611,1.333,4	ALERT -- Thruster fire	2R0	4	0	3,830,671	47:0
316	97	47	03:11:22.866	20YA4N	7VENT	0.611,0.666,5	ALERT -- Thruster fire	2R0	4	0	3,830,671	48:0
317	97	47	03:11:32.866	20YA4O	7VENT	1.211,1.333,10	ALERT -- Thruster fire	2R0	4	0	3,830,671	63:0
318	97	47	03:11:33.533	20YA4P	7VENT	1.211,0.666,12	ALERT -- Thruster fire	2R0	4	0	3,830,671	64:0
319	97	47	03:13:20.200	20YA4S	7VENT	0.611,1.333,7	ALERT -- Thruster fire	2R0	4	0	3,830,673	42:0
320	97	47	03:13:20.866	20YA4T	7VENT	0.611,10.989,7	ALERT -- Thruster fire	2R0	4	0	3,830,673	43:0
321	97	47	03:13:40.866	20YA4U	7VENT	0.611,1.333,1	ALERT -- Thruster fire	2R0	4	0	3,830,673	73:0
322	97	47	03:13:41.533	20YA4V	7VENT	0.611,10.989,1	ALERT -- Thruster fire	2R0	4	0	3,830,673	74:0
323	97	47	03:14:01.533	20YA4AC	7VENT	0.611,1.333,2	ALERT -- Thruster fire	2R0	4	0	3,830,674	13:0
324	97	47	03:14:02.200	20YA4AD	7VENT	0.611,0.666,3	ALERT -- Thruster fire	2R0	4	0	3,830,674	14:0
325	97	47	03:14:12.200	20YA4AE	7VENT	0.611,1.333,2	ALERT -- Thruster fire	2R0	4	0	3,830,674	29:0
326	97	47	03:14:12.866	20YA4AF	7VENT	0.611,0.666,3	ALERT -- Thruster fire	2R0	4	0	3,830,674	30:0
327	97	47	03:14:22.866	20YA4W	7VENT	1.211,1.333,9	ALERT -- Thruster fire	2R0	4	0	3,830,674	45:0
328	97	47	03:14:23.533	20YA4X	7VENT	1.211,0.666,11	ALERT -- Thruster fire	2R0	4	0	3,830,674	46:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
329	97	47	03:15:20.200	20YA4Z	**7MODE**	**CRU**	AACS CRUISE MODE	2R0	4	0	3,830,675	40:0
330	97	47	04:00:04.200	20TA4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	2R0	4	0	3,830,719	62:0
331	97	47	04:00:54.200	20TA4B	7SLEW	DIS,POS,0.0	Stator movement	2R0	4	0	3,830,720	46:0
332	97	47	04:02:24.866	176TB6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	2R0	4	0	3,830,722	00:0
333	97	47	04:17:58.866	488AU6B	6TMSED	NORM,AH4	Sci, Eng, and D/L Chan	2R0	4	0	3,830,737	36:0
334	97	47	05:00:00.200	488AU6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2R0	4	0	3,830,778	87:0
335	97	47	05:28:22.866	488AU6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	2R0	4	0	3,830,807	02:0
336	97	47	05:32:24.200	176G6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	2R0	4	0	3,830,811	00:0
337	97	47	05:39:28.866	176KF6A	6TMREC	ORT	OPNAV - REAL TIME Record Mode Change	2R0	4	0	3,830,818	00:0
338	97	47	05:40:28.200	165QK4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R0	4	0	3,830,818	89:0
339	97	47	05:40:28.866	165QK4B	7SCAN	NORM,208.936998,	Check S/P Position	2R0	4	0	3,830,818	90:0
340	97	47	05:47:38.200	488AU6E	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	2R0	4	0	3,830,826	06:0
341	97	47	06:00:22.866	488AV6A	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	2R0	4	0	3,830,838	61:0
342	97	47	06:14:50.866	165QL4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R0	4	0	3,830,852	89:0
343	97	47	06:14:51.533	165QL4B	7SCAN	NORM,208.851999,	Check S/P Position	2R0	4	0	3,830,852	90:0
344	97	47	06:44:04.200	20XS4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	2R0	4	0	3,830,881	80:0
345	97	47	06:44:54.200	20XS4B	7SLEW	DIS,POS,0.0	Stator movement	2R0	4	0	3,830,882	64:0
346	97	47	06:46:12.866	176AC6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	2R0	4	0	3,830,884	00:0
347	97	47	07:11:30.866	488AV6B	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	2R0	4	0	3,830,909	02:0
348	97	47	07:28:36.200	488AV6C	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	2R0	4	0	3,830,925	84:0
349	97	47	09:18:46.866	488AV6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	2R0	4	0	3,831,034	81:0
350	97	47	09:30:30.200	488AV6E	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	2R0	4	0	3,831,046	44:0
351	97	47	11:13:58.866	488AW6A	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	2R0	4	0	3,831,148	75:0
352	97	47	13:03:16.200	488AW6B	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	2R0	4	0	3,831,256	83:0
353	97	47	14:11:32.866	488AW6C	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	2R0	4	0	3,831,324	40:0
354	97	47	14:55:50.866	488AW6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	2R0	4	0	3,831,368	23:0
355	97	47	15:08:30.200	488AW6E	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	2R0	4	0	3,831,380	70:0
356	97	47	16:05:47.533	488AX6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	2R0	4	0	3,831,437	39:0
357	97	47	16:59:56.200	431ZL6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	2R0	4	0	3,831,490	89:0
358	97	47	17:04:07.533	20ZM6A	6EUVON			2R0	4	0	3,831,495	11:0
359	97	47	17:05:00.866	431ZM6A	6RCSEL	DDSNCG,PLSNCG,EP	Record Select (DDS onl	2R0	4	0	3,831,496	00:0
360	97	47	17:20:54.866	488AX6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2R0	4	0	3,831,511	66:0
361	97	47	18:05:42.866	488AX6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R0	4	0	3,831,556	03:0
362	**97**	**47**	**18:19:55.666**	**J5NNOPCAL_01-**		**-----START------**		**2R0**	**4**	**0**	**:**	**:**
363	**97**	**47**	**18:20:46.200**	**125DN4A**	**37IST**	**1,0,0,OFF,0,0,0**	**Chopper ON, Sync, 63Hz (Ref)**	**260**	**4**	**0**	**3,831,570**	**84:0**
364	97	47	18:20:46.200	125DN	NIMSINIT	GS	##### GROUP START INIT	260	4	0	3,831,570	84:0
365	**97**	**47**	**18:21:46.866**	**125DN4B**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**3,831,571**	**84:0**
366	97	47	18:21:46.866	125DN11A	NIMSINIT	GE	##### GROUP END INIT	2R0	4	0	3,831,571	84:0
367	**97**	**47**	**18:25:49.533**	**125DA4A**	**37IST**	**0,0,0,OFF,0,1,1**	**Gain State 4**	**4R0**	**4**	**0**	**3,831,575**	**84:0**
368	97	47	18:25:49.533	125DA	NIMSINIT	GS	##### GROUP START INIT	4R0	4	0	3,831,575	84:0
369	97	47	18:26:50.200	125DA11A	NIMSINIT	GE	##### GROUP END INIT	4R0	4	0	3,831,576	84:0
370	**97**	**47**	**18:26:50.200**	**125DA4B**	**37MB**	**1B,1B,0,0,0,0**	**Selects mirror (spatial) edit table**	**4R0**	**4**	**0**	**3,831,576**	**84:0**
371	97	47	18:29:52.200	127DA	NIMSTAB	GS	%%%%% GROUP START TAB	4R0	4	0	3,831,579	84:0
372	**97**	**47**	**18:29:52.200**	**127DA4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**4R3**	**4**	**0**	**3,831,579**	**84:0**
373	**97**	**47**	**18:29:52.866**	**127DA4B**	**37ETB**	**07,C7,31,80,00,0**	**Loads wavelength edit table**	**4R3**	**4**	**0**	**3,831,579**	**85:0**
374	97	47	18:30:02.200	127DA11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	3,831,580	08:0
375	**97**	**47**	**18:31:17.533**	**432DA6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**	**NIMS R/T SELECT**	**4R3**	**4**	**0**	**3,831,581**	**30:0**
376	97	47	18:31:53.533	125DI	NIMSINIT	GS	##### GROUP START INIT	4R3	4	0	3,831,581	84:0
377	97	47	18:31:53.533	125DI11A	NIMSINIT	GE	##### GROUP END INIT	4R3	4	0	3,831,581	84:0
378	**97**	**47**	**18:31:53.533**	**125DI4A**	**37IST**	**0,2,1,OFF,1,0,1**	**OPCAL**	**4R3**	**4**	**0**	**3,831,581**	**84:0**
379	**97**	**47**	**18:33:54.866**	**125EU4A**	**37MB**	**0,0,0,0,0,0**	**Selects mirror (spatial) edit table**	**4R3**	**4**	**0**	**3,831,583**	**84:0**
380	97	47	18:33:54.866	125DJ11A	NIMSINIT	GE	##### GROUP END INIT	4R3	4	0	3,831,583	84:0
381	97	47	18:33:54.866	125EU11A	NIMSINIT	GE	##### GROUP END INIT	4R3	4	0	3,831,583	84:0
382	97	47	18:33:54.866	125EU	NIMSINIT	GS	##### GROUP START INIT	4R3	4	0	3,831,583	84:0
383	97	47	18:33:54.866	125DJ	NIMSINIT	GS	##### GROUP START INIT	4R3	4	0	3,831,583	84:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
384	**97**	**47**	**18:33:54.866**	**125DJ4A**	**37IST**	**0,2,1,OFF,1,0,1**	**OPCAL**	**4R3**	**4**	**0**	**3,831,583:84:0**	
385	**97**	**47**	**18:34:18.200**	**432DI6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**4R3**	**4**	**0**	**3,831,584:28:0**	
386	97	47	18:34:55.533	127DX	NIMSTAB	GS	%%%%% GROUP START TAB	4R3	4	0	3,831,584:84:0	
387	**97**	**47**	**18:34:55.533**	**127DX4A**	**37IOP**	**0,0**	**Safe, Grating Start Position =00**	**4R0**	**4**	**0**	**3,831,584:84:0**	
388	**97**	**47**	**18:34:56.200**	**127DX4B**	**37ETB**	**04,C4,02,00,00**	**Loads wavelength edit table**	**4R0**	**4**	**0**	**3,831,584:85:0**	
389	97	47	18:35:05.533	127DX11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R0	4	0	3,831,585:08:0	
390	**97**	**47**	**18:35:56.200**	**125FZ4A**	**37IST**	**1,0,0,OFF,0,0,0**	**Chopper ON, Sync, 63Hz (Ref)**	**460**	**4**	**0**	**3,831,585:84:0**	
391	97	47	18:35:56.200	125FZ	NIMSINIT	GS	##### GROUP START INIT	460	4	0	3,831,585:84:0	
392	**97**	**47**	**18:36:56.866**	**125FZ4B**	**37IST**	**1,1,0,OFF,0,0,0**	**Chopper OFF, N/A, 63Hz (Ref)**	**4O0**	**4**	**0**	**3,831,586:84:0**	
393	97	47	18:36:56.866	125FZ11A	NIMSINIT	GE	##### GROUP END INIT	4O0	4	0	3,831,586:84:0	
394	**97**	**47**	**18:37:06.999**	**J5NNOPCAL_01-**		**-----STOP-------**		**4O0**	**4**	**0**	**: :**	
395	97	47	18:50:30.866	488AX6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	3,831,600:31:0	
396	97	47	22:59:54.866	176TC6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	4O0	4	0	3,831,847:00:0	
397	**97**	**47**	**23:05:00.000**	**20A3EY**	**37C1PR**	**Final Condition**	**Optics Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**3,831,852:02:7**	
398	**97**	**47**	**23:05:00.000**	**20A3EZ**	**37C2PR**	**Final Condition**	**Optics Heater 2 OFF (primary relay)**	**4O0**	**4**	**0**	**3,831,852:02:7**	
399	**97**	**47**	**23:05:00.000**	**20A3FA**	**37F1PR**	**Final Condition**	**Radiator Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,831,852:02:7**	
400	**97**	**47**	**23:05:00.000**	**20A3FB**	**37F2P**	**Final Condition**	**Shield Flash Heater ON (primary relay)**	**4O0**	**4**	**0**	**3,831,852:02:7**	
401	**97**	**47**	**23:05:00.000**	**20A3FD**	**40HRPR**	**Final Condition**	**RCT Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,831,852:02:7**	
402	**97**	**47**	**23:05:00.000**	**20A3FE**	**40T1PR**	**Final Condition**	**PCT Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**3,831,852:02:7**	
403	**97**	**47**	**23:05:00.000**	**20A3FF**	**40T2R**	**Final Condition**	**PCT Heater 2 OFF**	**4O0**	**4**	**0**	**3,831,852:02:7**	
404	**97**	**47**	**23:05:00.000**	**20A3EW**	**37A**	**Final Condition**	**NIMS Power ON**	**4O0**	**4**	**0**	**3,831,852:02:7**	
405	**97**	**47**	**23:05:00.000**	**20A3EX**	**37HR**	**Final Condition**	**Replacement Heaters OFF**	**4O0**	**4**	**0**	**3,831,852:02:7**	
406	97	47	23:05:00.200		DMS:	: READY	RDY, TRACK 2, REV, TIC 1096.00 +/-	4O0	4	0	3,831,852:03:0	

E4NNOPCAL_01

```
OAPEL:  E4NNOPCAL_01            ALIAS:  E4NNOPCAL_01
EXT:    R                       PSID:   DN
SCLK1:  03740784:00:0           SCLK2:  03740788:12:0
SCET1:  1996-350/00:25:09.600   SCET2:  1996-350/00:29:20.266
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:       1                   OPCAL:      1
R/T:        1                   RECORD:     0

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

E4JNGLOMOS01

```
OAPEL:  E4JNGLOMOS01              ALIAS:  E4JNGLOMOS01
EXT:    A                         PSID:   DA
SCLK1:  03743811:89:0             SCLK2:  03743813:47:0
SCET1:    96-352/03:26:47.466     SCET2:    96-352/03:28:20.800
TARGET: JUPITER                   PARTITION: 1

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

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

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

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

EDIT TABLE

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

E4JNGLOMOS02

```
OAPEL:  E4JNGLOMOS02              ALIAS:  E4JNGLOMOS02
EXT:    A                         PSID:   DB
SCLK1:  03743908:90:0             SCLK2:  03743913:39:0
SCET1:    96-352/05:04:52.133     SCET2:    96-352/05:09:21.466
TARGET: JUPITER                   PARTITION: 1

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

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

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

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

EDIT TABLE

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

E4NNHEALTH01

```
OAPEL:  E4NNHEALTH01            ALIAS:  E4NNHEALTH01
EXT:    R                       PSID:   FY
SCLK1:  03744238:00:0           SCLK2:  03744238:12:0
SCET1:  1996-352/10:37:32.133   SCET2:  1996-352/10:37:40.133
TARGET: CAL                     PARTITION: 1

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

MB_DOWN:    00000               MB_UP:      00000
COMP_FLAG:  0
EST_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

E4JNFEA05501

```
OAPEL:  E4JNFEA05501            ALIAS:  E4JNFEA05501
EXT:    A                       PSID:   DG
SCLK1:  03744539:87:0           SCLK2:  03744546:47:0
SCET1:    96-352/15:42:51.367   SCET2:    96-352/15:49:29.466
TARGET: JUPITER                 PARTITION: 1

MODE:       5                   GAIN:       2
CHOP:       1                   GRAT_OFF:   4
PTAB_A:     1 1 0 1 4 6         PTAB_B:     1 1 0 1 4 6
ECAL:       0                   OPCAL:      0
R/T:        0                   RECORD:     1

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

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

WETGID:     0507005001          05  07  005  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	00A00	0,0000,1010,0000,0000
4	00000	0,0000,0000,0000,0000
5	00000	0,0000,0000,0000,0000
6	00000	0,0000,0000,0000,0000

E4JNFEA05502

```
OAPEL:  E4JNFEA05502              ALIAS:  E4JNFEA05502
EXT:    A                         PSID:   DH
SCLK1:  03744551:87:0             SCLK2:  03744558:48:0
SCET1:    96-352/15:54:59.366     SCET2:    96-352/16:01:37.400
TARGET: JUPITER                   PARTITION: 1

MODE:       5                     GAIN:       2
CHOP:       1                     GRAT_OFF:   4
PTAB_A:     1 1 0 1 4 6           PTAB_B:     1 1 0 1 4 6
ECAL:       0                     OPCAL:      0
R/T:        0                     RECORD:     1

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

E4JNFEA05503

```
OAPEL:  E4JNFEA05503              ALIAS:  E4JNFEA05503
EXT:    A                         PSID:   DI
SCLK1:  03744619:87:0             SCLK2:  03744626:47:0
SCET1:    96-352/17:03:44.698     SCET2:    96-352/17:10:22.733
TARGET: JUPITER                   PARTITION: 1

MODE:       5                     GAIN:       2
CHOP:       1                     GRAT_OFF:   4
PTAB_A:     1 1 0 1 4 6           PTAB_B:     1 1 0 1 4 6
ECAL:       0                     OPCAL:      0
R/T:        0                     RECORD:     1

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

E4INCOOLCV01

```
OAPEL:  E4INCOOLCV01              ALIAS:  E4INCOOLCV01
EXT:    A                         PSID:   DK
SCLK1:  03744745:19:0             SCLK2:  03744745:34:0
SCET1:    96-352/19:10:23.359     SCET2:    96-352/19:10:32.733
TARGET: IO                        PARTITION: 1

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

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

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

WETGID:     0713010001          07  13  010  001
WTGRP_SIZ:  13
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1555D	1,0101,0101,0101,1101
1	1555D	1,0101,0101,0101,1101
2	1555D	1,0101,0101,0101,1101
3	1555D	1,0101,0101,0101,1101
4	1555D	1,0101,0101,0101,1101
5	1555D	1,0101,0101,0101,1101
6	1555D	1,0101,0101,0101,1101
7	1555D	1,0101,0101,0101,1101
8	1555D	1,0101,0101,0101,1101
9	1555D	1,0101,0101,0101,1101
10	1555D	1,0101,0101,0101,1101
11	1555D	1,0101,0101,0101,1101
12	00000	0,0000,0000,0000,0000

E4INCOOLCV01

```
OAPEL:  E4INCOOLCV01              ALIAS:  E4INCOOLCV01
EXT:    B                         PSID:   DK
SCLK1:  03744745:83:0             SCLK2:  03744746:06:0
SCET1:    96-352/19:11:05.400     SCET2:    96-352/19:11:14.733
TARGET: IO                        PARTITION: 1

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

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

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

WETGID:     0713010001          07  13  010  001
WTGRP_SIZ:  13
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1555D	1,0101,0101,0101,1101
1	1555D	1,0101,0101,0101,1101
2	1555D	1,0101,0101,0101,1101
3	1555D	1,0101,0101,0101,1101
4	1555D	1,0101,0101,0101,1101
5	1555D	1,0101,0101,0101,1101
6	1555D	1,0101,0101,0101,1101
7	1555D	1,0101,0101,0101,1101
8	1555D	1,0101,0101,0101,1101
9	1555D	1,0101,0101,0101,1101
10	1555D	1,0101,0101,0101,1101
11	1555D	1,0101,0101,0101,1101
12	00000	0,0000,0000,0000,0000

E4INCOOLCV01

```
OAPEL:  E4INCOOLCV01              ALIAS:  E4INCOOLCV01
EXT:    C                         PSID:   DK
SCLK1:  03744747:06:0             SCLK2:  03744747:20:0
SCET1:    96-352/19:12:15.400     SCET2:    96-352/19:12:24.733
TARGET: IO                        PARTITION: 1

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

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

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

WETGID:     0713010001          07  13  010  001
WTGRP_SIZ:  13
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1555D	1,0101,0101,0101,1101
1	1555D	1,0101,0101,0101,1101
2	1555D	1,0101,0101,0101,1101
3	1555D	1,0101,0101,0101,1101
4	1555D	1,0101,0101,0101,1101
5	1555D	1,0101,0101,0101,1101
6	1555D	1,0101,0101,0101,1101
7	1555D	1,0101,0101,0101,1101
8	1555D	1,0101,0101,0101,1101
9	1555D	1,0101,0101,0101,1101
10	1555D	1,0101,0101,0101,1101
11	1555D	1,0101,0101,0101,1101
12	00000	0,0000,0000,0000,0000

E4INCOOLCV01

```
OAPEL:  E4INCOOLCV01              ALIAS:  E4INCOOLCV01
EXT:    D                         PSID:   DK
SCLK1:  03744749:13:0             SCLK2:  03744749:26:0
SCET1:    96-352/19:14:21.400     SCET2:    96-352/19:14:30.733
TARGET: IO                        PARTITION: 1

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

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

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

WETGID:     0713010001          07  13  010  001
WTGRP_SIZ:  13
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1555D	1,0101,0101,0101,1101
1	1555D	1,0101,0101,0101,1101
2	1555D	1,0101,0101,0101,1101
3	1555D	1,0101,0101,0101,1101
4	1555D	1,0101,0101,0101,1101
5	1555D	1,0101,0101,0101,1101
6	1555D	1,0101,0101,0101,1101
7	1555D	1,0101,0101,0101,1101
8	1555D	1,0101,0101,0101,1101
9	1555D	1,0101,0101,0101,1101
10	1555D	1,0101,0101,0101,1101
11	1555D	1,0101,0101,0101,1101
12	00000	0,0000,0000,0000,0000

E4INCOOLCV01

```
OAPEL:  E4INCOOLCV01              ALIAS:  E4INCOOLCV01
EXT:    E                         PSID:   DK
SCLK1:  03744750:89:0             SCLK2:  03744751:12:0
SCET1:    96-352/19:16:13.400     SCET2:    96-352/19:16:22.733
TARGET: IO                        PARTITION: 1

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

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

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

WETGID:     0713010001          07  13  010  001
WTGRP_SIZ:  13
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1555D	1,0101,0101,0101,1101
1	1555D	1,0101,0101,0101,1101
2	1555D	1,0101,0101,0101,1101
3	1555D	1,0101,0101,0101,1101
4	1555D	1,0101,0101,0101,1101
5	1555D	1,0101,0101,0101,1101
6	1555D	1,0101,0101,0101,1101
7	1555D	1,0101,0101,0101,1101
8	1555D	1,0101,0101,0101,1101
9	1555D	1,0101,0101,0101,1101
10	1555D	1,0101,0101,0101,1101
11	1555D	1,0101,0101,0101,1101
12	00000	0,0000,0000,0000,0000

E4INRTIMON01

```
OAPEL:  E4INRTIMON01            ALIAS:  E4INRTIMON01
EXT:    R                       PSID:   FR
SCLK1:  03744814:00:0           SCLK2:  03744814:12:0
SCET1:  1996-352/20:19:56.066   SCET2:  1996-352/20:20:04.066
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	12A95	1,0010,1010,1001,0101
1	12A95	1,0010,1010,1001,0101
2	12A95	1,0010,1010,1001,0101
3	12A95	1,0010,1010,1001,0101
4	12A95	1,0010,1010,1001,0101
5	12A95	1,0010,1010,1001,0101
6	12A95	1,0010,1010,1001,0101
7	12A95	1,0010,1010,1001,0101
8	12A95	1,0010,1010,1001,0101
9	12A95	1,0010,1010,1001,0101
10	12A95	1,0010,1010,1001,0101
11	12A95	1,0010,1010,1001,0101
12	00000	0,0000,0000,0000,0000

E4INWARMCV01

```
OAPEL:  E4INWARMCV01              ALIAS:  E4INWARMCV01
EXT:    A                         PSID:   DL
SCLK1:  03744881:23:0             SCLK2:  03744881:39:0
SCET1:    96-352/21:27:56.733     SCET2:    96-352/21:28:07.400
TARGET: IO                        PARTITION: 1

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

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

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

WETGID:     0713010001          07  13  010  001
WTGRP_SIZ:  13
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1555D	1,0101,0101,0101,1101
1	1555D	1,0101,0101,0101,1101
2	1555D	1,0101,0101,0101,1101
3	1555D	1,0101,0101,0101,1101
4	1555D	1,0101,0101,0101,1101
5	1555D	1,0101,0101,0101,1101
6	1555D	1,0101,0101,0101,1101
7	1555D	1,0101,0101,0101,1101
8	1555D	1,0101,0101,0101,1101
9	1555D	1,0101,0101,0101,1101
10	1555D	1,0101,0101,0101,1101
11	1555D	1,0101,0101,0101,1101
12	00000	0,0000,0000,0000,0000

E4INWARMCV01

```
OAPEL:  E4INWARMCV01              ALIAS:  E4INWARMCV01
EXT:    B                         PSID:   DL
SCLK1:  03744882:06:0             SCLK2:  03744882:24:0
SCET1:    96-352/21:28:46.020     SCET2:    96-352/21:28:57.400
TARGET: IO                        PARTITION: 1

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

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

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

WETGID:     0713010001          07  13  010  001
WTGRP_SIZ:  13
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1555D	1,0101,0101,0101,1101
1	1555D	1,0101,0101,0101,1101
2	1555D	1,0101,0101,0101,1101
3	1555D	1,0101,0101,0101,1101
4	1555D	1,0101,0101,0101,1101
5	1555D	1,0101,0101,0101,1101
6	1555D	1,0101,0101,0101,1101
7	1555D	1,0101,0101,0101,1101
8	1555D	1,0101,0101,0101,1101
9	1555D	1,0101,0101,0101,1101
10	1555D	1,0101,0101,0101,1101
11	1555D	1,0101,0101,0101,1101
12	00000	0,0000,0000,0000,0000

E4INWARMCV01

```
OAPEL:  E4INWARMCV01              ALIAS:  E4INWARMCV01
EXT:    C                         PSID:   DL
SCLK1:  03744882:82:0             SCLK2:  03744883:07:0
SCET1:    96-352/21:29:36.733     SCET2:    96-352/21:29:47.400
TARGET: IO                        PARTITION: 1

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

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

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

WETGID:     0713010001          07  13  010  001
WTGRP_SIZ:  13
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1555D	1,0101,0101,0101,1101
1	1555D	1,0101,0101,0101,1101
2	1555D	1,0101,0101,0101,1101
3	1555D	1,0101,0101,0101,1101
4	1555D	1,0101,0101,0101,1101
5	1555D	1,0101,0101,0101,1101
6	1555D	1,0101,0101,0101,1101
7	1555D	1,0101,0101,0101,1101
8	1555D	1,0101,0101,0101,1101
9	1555D	1,0101,0101,0101,1101
10	1555D	1,0101,0101,0101,1101
11	1555D	1,0101,0101,0101,1101
12	00000	0,0000,0000,0000,0000

E4INWARMCV01

```
OAPEL:  E4INWARMCV01              ALIAS:  E4INWARMCV01
EXT:    D                         PSID:   DL
SCLK1:  03744883:65:0             SCLK2:  03744883:83:0
SCET1:    96-352/21:30:25.687     SCET2:    96-352/21:30:37.400
TARGET: IO                        PARTITION: 1

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

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

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

WETGID:     0713010001          07  13  010  001
WTGRP_SIZ:  13
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1555D	1,0101,0101,0101,1101
1	1555D	1,0101,0101,0101,1101
2	1555D	1,0101,0101,0101,1101
3	1555D	1,0101,0101,0101,1101
4	1555D	1,0101,0101,0101,1101
5	1555D	1,0101,0101,0101,1101
6	1555D	1,0101,0101,0101,1101
7	1555D	1,0101,0101,0101,1101
8	1555D	1,0101,0101,0101,1101
9	1555D	1,0101,0101,0101,1101
10	1555D	1,0101,0101,0101,1101
11	1555D	1,0101,0101,0101,1101
12	00000	0,0000,0000,0000,0000

E4INWARMCV01

```
OAPEL:  E4INWARMCV01              ALIAS:  E4INWARMCV01
EXT:    E                         PSID:   DL
SCLK1:  03744884:76:0             SCLK2:  03744885:00:0
SCET1:    96-352/21:31:33.400     SCET2:    96-352/21:31:44.066
TARGET: IO                        PARTITION: 1

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

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

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

WETGID:     0713010001          07  13  010  001
WTGRP_SIZ:  13
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1555D	1,0101,0101,0101,1101
1	1555D	1,0101,0101,0101,1101
2	1555D	1,0101,0101,0101,1101
3	1555D	1,0101,0101,0101,1101
4	1555D	1,0101,0101,0101,1101
5	1555D	1,0101,0101,0101,1101
6	1555D	1,0101,0101,0101,1101
7	1555D	1,0101,0101,0101,1101
8	1555D	1,0101,0101,0101,1101
9	1555D	1,0101,0101,0101,1101
10	1555D	1,0101,0101,0101,1101
11	1555D	1,0101,0101,0101,1101
12	00000	0,0000,0000,0000,0000

E4INWARMCV01

```
OAPEL:  E4INWARMCV01              ALIAS:  E4INWARMCV01
EXT:    F                         PSID:   DL
SCLK1:  03744887:00:0             SCLK2:  03744887:19:0
SCET1:    96-352/21:33:45.020     SCET2:    96-352/21:33:57.400
TARGET: IO                        PARTITION: 1

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

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

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

WETGID:    0713010001          07  13  010  001
WTGRP_SIZ: 13
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1555D	1,0101,0101,0101,1101
1	1555D	1,0101,0101,0101,1101
2	1555D	1,0101,0101,0101,1101
3	1555D	1,0101,0101,0101,1101
4	1555D	1,0101,0101,0101,1101
5	1555D	1,0101,0101,0101,1101
6	1555D	1,0101,0101,0101,1101
7	1555D	1,0101,0101,0101,1101
8	1555D	1,0101,0101,0101,1101
9	1555D	1,0101,0101,0101,1101
10	1555D	1,0101,0101,0101,1101
11	1555D	1,0101,0101,0101,1101
12	00000	0,0000,0000,0000,0000

E4INWARMCV02

```
OAPEL:  E4INWARMCV02              ALIAS:  E4INWARMCV02
EXT:    A                         PSID:   DM
SCLK1:  03744915:48:0             SCLK2:  03744915:64:0
SCET1:    96-352/22:02:36.066     SCET2:    96-352/22:02:46.733
TARGET: IO                        PARTITION: 1

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

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

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

WETGID:     0713010001          07  13  010  001
WTGRP_SIZ:  13
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1555D	1,0101,0101,0101,1101
1	1555D	1,0101,0101,0101,1101
2	1555D	1,0101,0101,0101,1101
3	1555D	1,0101,0101,0101,1101
4	1555D	1,0101,0101,0101,1101
5	1555D	1,0101,0101,0101,1101
6	1555D	1,0101,0101,0101,1101
7	1555D	1,0101,0101,0101,1101
8	1555D	1,0101,0101,0101,1101
9	1555D	1,0101,0101,0101,1101
10	1555D	1,0101,0101,0101,1101
11	1555D	1,0101,0101,0101,1101
12	00000	0,0000,0000,0000,0000

E4INWARMCV02

```
OAPEL:  E4INWARMCV02              ALIAS:  E4INWARMCV02
EXT:    B                         PSID:   DM
SCLK1:  03744916:00:0             SCLK2:  03744916:17:0
SCET1:    96-352/22:03:04.353     SCET2:    96-352/22:03:16.066
TARGET: IO                        PARTITION: 1

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

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

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

WETGID:    0713010001          07  13  010  001
WTGRP_SIZ: 13
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1555D	1,0101,0101,0101,1101
1	1555D	1,0101,0101,0101,1101
2	1555D	1,0101,0101,0101,1101
3	1555D	1,0101,0101,0101,1101
4	1555D	1,0101,0101,0101,1101
5	1555D	1,0101,0101,0101,1101
6	1555D	1,0101,0101,0101,1101
7	1555D	1,0101,0101,0101,1101
8	1555D	1,0101,0101,0101,1101
9	1555D	1,0101,0101,0101,1101
10	1555D	1,0101,0101,0101,1101
11	1555D	1,0101,0101,0101,1101
12	00000	0,0000,0000,0000,0000

E4JNFEA04101

```
OAPEL:  E4JNFEA04101              ALIAS:  E4JNFEA04101
EXT:    A                         PSID:   DO
SCLK1:  03745119:87:0             SCLK2:  03745126:47:0
SCET1:    96-353/01:29:18.012     SCET2:    96-353/01:35:56.066
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

E4JNFEA04102

```
OAPEL:  E4JNFEA04102              ALIAS:  E4JNFEA04102
EXT:    A                         PSID:   DQ
SCLK1:  03745140:87:0             SCLK2:  03745141:21:0
SCET1:    96-353/01:50:32.011     SCET2:    96-353/01:50:48.733
TARGET: JUPITER                   PARTITION: 1

MODE:       5                     GAIN:       2
CHOP:       1                     GRAT_OFF:   4
PTAB_A:     1 1 0 1 4 6           PTAB_B:     1 1 0 1 4 6
ECAL:       0                     OPCAL:      0
R/T:        0                     RECORD:     1

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

E4JNFEA04103

```
OAPEL:  E4JNFEA04103            ALIAS:  E4JNFEA04103
EXT:    A                       PSID:   DR
SCLK1:  03745225:87:0           SCLK2:  03745231:09:0
SCET1:    96-353/03:16:28.675   SCET2:    96-353/03:21:40.066
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

E4NNHEALTH02

```
OAPEL:  E4NNHEALTH02            ALIAS:  E4NNHEALTH02
EXT:    R                       PSID:   FX
SCLK1:  03745274:00:0           SCLK2:  03745274:12:0
SCET1:  1996-353/04:05:02.733   SCET2:  1996-353/04:05:10.733
TARGET: CAL                     PARTITION: 1

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

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

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

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

EDIT TABLE

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

E4JNRTHOTS01

OAPEL: E4JNRTHOTS01 ALIAS: E4JNRTHOTS01
EXT: R PSID: DY
SCLK1: 03745713:00:0 SCLK2: 03745713:12:0
SCET1: 1996-353/11:28:55.400 SCET2: 1996-353/11:29:03.400
TARGET: JUPITER PARTITION: 1

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

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

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

WETGID: 0302408000 03 02 408 000
WTGRP_SIZ: 2

EDIT TABLE

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

E4JNFEA01601

```
OAPEL:  E4JNFEA01601            ALIAS:  E4JNFEA01601
EXT:    A                       PSID:   DV
SCLK1:  03745731:87:0           SCLK2:  03745733:25:0
SCET1:    96-353/11:48:05.989   SCET2:    96-353/11:49:26.066
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	11501	1,0001,0101,0000,0001
2	1A000	1,1010,0000,0000,0000
3	00802	0,0000,1000,0000,0010
4	0B810	0,1011,1000,0001,0000
5	00C01	0,0000,1100,0000,0001
6	00000	0,0000,0000,0000,0000

E4JNFEA01602

```
OAPEL:  E4JNFEA01602              ALIAS:  E4JNFEA01602
EXT:    A                         PSID:   DW
SCLK1:  03745739:87:0             SCLK2:  03745745:78:0
SCET1:    96-353/11:56:11.323     SCET2:    96-353/12:02:08.733
TARGET: JUPITER                   PARTITION: 1

MODE:       5                     GAIN:       2
CHOP:       1                     GRAT_OFF:   4
PTAB_A:     1 1 0 1 4 6           PTAB_B:     1 1 0 1 4 6
ECAL:       0                     OPCAL:      0
R/T:        0                     RECORD:     1

MB_DOWN:    00000                 MB_UP:      00000
COMP_FLAG:  1
EST_COMP:   2.0                   EST_COMPV:  0.3
RATE_CON1:  00000                 RATE_CON2:  65525
NWAVETOT:    25                   TLMFMT:     LPU

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

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

EDIT TABLE

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

E4JNFEA01604

```
OAPEL:  E4JNFEA01604              ALIAS:  E4JNFEA01604
EXT:    A                         PSID:   EA
SCLK1:  03745846:77:0             SCLK2:  03745851:67:0
SCET1:    96-353/13:44:15.400     SCET2:    96-353/13:49:12.733
TARGET: JUPITER                   PARTITION: 1

MODE:       5                     GAIN:       2
CHOP:       1                     GRAT_OFF:   4
PTAB_A:     1 1 0 1 4 6           PTAB_B:     1 1 0 1 4 6
ECAL:       0                     OPCAL:      0
R/T:        0                     RECORD:     1

MB_DOWN:    00000                 MB_UP:      00000
COMP_FLAG:  1
EST_COMP:   2.0                   EST_COMPV:  0.3
RATE_CON1:  00000                 RATE_CON2:  65525
NWAVETOT:    25                   TLMFMT:     LPU

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

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

EDIT TABLE

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

E4JNFEASUB01

```
OAPEL:  E4JNFEASUB01              ALIAS:  E4JNFEASUB01
EXT:    A                         PSID:   EB
SCLK1:  03745858:89:0             SCLK2:  03745882:61:0
SCET1:    96-353/13:56:32.066     SCET2:    96-353/14:20:29.400
TARGET: JUPITER                   PARTITION: 1

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

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

E4JNPFTB1603

```
OAPEL:  E4JNPFTB1603            ALIAS:  E4JNPFTB1603
EXT:    A                       PSID:   ED
SCLK1:  03745929:87:0           SCLK2:  03745930:36:0
SCET1:    96-353/15:08:17.982   SCET2:    96-353/15:08:44.733
TARGET: JUPITER                 PARTITION: 1

MODE:       5                   GAIN:       2
CHOP:       1                   GRAT_OFF:   4
PTAB_A:     1 1 0 1 4 6         PTAB_B:     1 1 0 1 4 6
ECAL:       0                   OPCAL:      0
R/T:        0                   RECORD:     1

MB_DOWN:    00000               MB_UP:      00000
COMP_FLAG:  1
EST_COMP:   2.0                 EST_COMPV:  0.3
RATE_CON1:  00000               RATE_CON2:  65525
NWAVETOT:    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	11501	1,0001,0101,0000,0001
2	1A000	1,1010,0000,0000,0000
3	00802	0,0000,1000,0000,0010
4	0B810	0,1011,1000,0001,0000
5	00C01	0,0000,1100,0000,0001
6	00000	0,0000,0000,0000,0000

E4INHRSPEC01

```
OAPEL:  E4INHRSPEC01              ALIAS:  E4INHRSPEC01
EXT:    A                         PSID:   EH
SCLK1:  03746296:47:0             SCLK2:  03746297:46:0
SCET1:    96-353/21:18:56.066     SCET2:    96-353/21:19:56.066
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:     1                   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:     0326001001          03  26  001  001
WTGRP_SIZ:  26
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	00000	0,0000,0000,0000,0000
1	00000	0,0000,0000,0000,0000
2	00000	0,0000,0000,0000,0000
3	00000	0,0000,0000,0000,0000
4	00000	0,0000,0000,0000,0000
5	00000	0,0000,0000,0000,0000
6	00000	0,0000,0000,0000,0000
7	00000	0,0000,0000,0000,0000
8	00000	0,0000,0000,0000,0000
9	00000	0,0000,0000,0000,0000
10	00000	0,0000,0000,0000,0000
11	00000	0,0000,0000,0000,0000
12	00000	0,0000,0000,0000,0000
13	00200	0,0000,0010,0000,0000
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

E4INHRSPEC01

```
OAPEL:  E4INHRSPEC01            ALIAS:  E4INHRSPEC01
EXT:    B                       PSID:   EH
SCLK1:  03746304:77:0           SCLK2:  03746310:18:0
SCET1:    96-353/21:27:20.968   SCET2:    96-353/21:32:45.634
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:    96                 TLMFMT:     LPU

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

WETGID:     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

E4ENXDARLI01

```
OAPEL:  E4ENXDARLI01              ALIAS:  E4ENXDARLI01
EXT:    A                         PSID:   EI
SCLK1:  03746514:19:0             SCLK2:  03746516:90:0
SCET1:    96-354/00:59:02.293     SCET2:    96-354/01:01:50.666
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:    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:     0113096001          01  13  096  001
WTGRP_SIZ:  13
```

EDIT TABLE

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

E4ENXDARLI01

```
OAPEL:  E4ENXDARLI01              ALIAS:  E4ENXDARLI01
EXT:    B                         PSID:   EI
SCLK1:  03746517:00:0             SCLK2:  03746520:70:0
SCET1:    96-354/01:01:51.333     SCET2:    96-354/01:05:40.293
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:    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:     0113096001          01  13  096  001
WTGRP_SIZ:  13
```

EDIT TABLE

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

E4ENSUCOMP02

OAPEL: E4ENSUCOMP02 ALIAS: E4ENSUCOMP02
EXT: A PSID: EM
SCLK1: 03746763:36:0 SCLK2: 03746781:71:0
SCET1: 96-354/05:10:59.333 SCET2: 96-354/05:29:35.333
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: 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

E4ENSUCOMP01

OAPEL: E4ENSUCOMP01 ALIAS: E4ENSUCOMP01
EXT: A PSID: EN
SCLK1: 03746805:31:0 SCLK2: 03746823:51:0
SCET1: 96-354/05:53:24.666 SCET2: 96-354/06:11:49.333
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

E4ENSUCOMP03

```
OAPEL:  E4ENSUCOMP03              ALIAS:  E4ENSUCOMP03
EXT:    A                         PSID:   CO
SCLK1:  03746837:26:0             SCLK2:  03746849:87:0
SCET1:    96-354/06:25:42.666     SCET2:    96-354/06:38:31.333
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:  384                    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:    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

E4JNFEA09501

```
OAPEL:  E4JNFEA09501            ALIAS:  E4JNFEA09501
EXT:    A                       PSID:   EP
SCLK1:  03747104:87:0           SCLK2:  03747111:51:0
SCET1:    96-354/10:56:21.272   SCET2:    96-354/11:03:02.000
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:     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

E4JNFEA09502

```
OAPEL:  E4JNFEA09502              ALIAS:  E4JNFEA09502
EXT:    A                         PSID:   EQ
SCLK1:  03747140:87:0             SCLK2:  03747147:48:0
SCET1:    96-354/11:32:45.270     SCET2:    96-354/11:39:24.000
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:     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

E4JNFEA09503

```
OAPEL:  E4JNFEA09503            ALIAS:  E4JNFEA09503
EXT:    A                       PSID:   ER
SCLK1:  03747158:87:0           SCLK2:  03747159:33:0
SCET1:    96-354/11:50:57.270   SCET2:    96-354/11:51:22.000
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:     5                 TLMFMT:     LPU

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

WETGID:     0507005001          05  07  005  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	00A00	0,0000,1010,0000,0000
4	00000	0,0000,0000,0000,0000
5	00000	0,0000,0000,0000,0000
6	00000	0,0000,0000,0000,0000

E4INCOOLCV02

```
OAPEL:  E4INCOOLCV02              ALIAS:  E4INCOOLCV02
EXT:    A                         PSID:   EV
SCLK1:  03747265:57:0             SCLK2:  03747265:75:0
SCET1:    96-354/13:38:48.000     SCET2:    96-354/13:39:00.666
TARGET: IO                        PARTITION: 1

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

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

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

WETGID:     0713010001          07  13  010  001
WTGRP_SIZ:  13
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1555D	1,0101,0101,0101,1101
1	1555D	1,0101,0101,0101,1101
2	1555D	1,0101,0101,0101,1101
3	1555D	1,0101,0101,0101,1101
4	1555D	1,0101,0101,0101,1101
5	1555D	1,0101,0101,0101,1101
6	1555D	1,0101,0101,0101,1101
7	1555D	1,0101,0101,0101,1101
8	1555D	1,0101,0101,0101,1101
9	1555D	1,0101,0101,0101,1101
10	1555D	1,0101,0101,0101,1101
11	1555D	1,0101,0101,0101,1101
12	00000	0,0000,0000,0000,0000

E4INCOOLCV02

```
OAPEL:  E4INCOOLCV02              ALIAS:  E4INCOOLCV02
EXT:    B                         PSID:   EV
SCLK1:  03747266:19:0             SCLK2:  03747266:41:0
SCET1:    96-354/13:39:23.933     SCET2:    96-354/13:39:38.000
TARGET: IO                        PARTITION: 1

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

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

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

WETGID:     0713010001          07  13  010  001
WTGRP_SIZ:  13
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1555D	1,0101,0101,0101,1101
1	1555D	1,0101,0101,0101,1101
2	1555D	1,0101,0101,0101,1101
3	1555D	1,0101,0101,0101,1101
4	1555D	1,0101,0101,0101,1101
5	1555D	1,0101,0101,0101,1101
6	1555D	1,0101,0101,0101,1101
7	1555D	1,0101,0101,0101,1101
8	1555D	1,0101,0101,0101,1101
9	1555D	1,0101,0101,0101,1101
10	1555D	1,0101,0101,0101,1101
11	1555D	1,0101,0101,0101,1101
12	00000	0,0000,0000,0000,0000

E4INCOOLCV02

```
OAPEL:  E4INCOOLCV02              ALIAS:  E4INCOOLCV02
EXT:    C                         PSID:   EV
SCLK1:  03747267:13:0             SCLK2:  03747267:34:0
SCET1:    96-354/13:40:20.266     SCET2:    96-354/13:40:34.000
TARGET: IO                        PARTITION: 1

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

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

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

WETGID:    0713010001          07  13  010  001
WTGRP_SIZ: 13
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1555D	1,0101,0101,0101,1101
1	1555D	1,0101,0101,0101,1101
2	1555D	1,0101,0101,0101,1101
3	1555D	1,0101,0101,0101,1101
4	1555D	1,0101,0101,0101,1101
5	1555D	1,0101,0101,0101,1101
6	1555D	1,0101,0101,0101,1101
7	1555D	1,0101,0101,0101,1101
8	1555D	1,0101,0101,0101,1101
9	1555D	1,0101,0101,0101,1101
10	1555D	1,0101,0101,0101,1101
11	1555D	1,0101,0101,0101,1101
12	00000	0,0000,0000,0000,0000

E4INCOOLCV02

```
OAPEL:  E4INCOOLCV02              ALIAS:  E4INCOOLCV02
EXT:    D                         PSID:   EV
SCLK1:  03747267:70:0             SCLK2:  03747267:90:0
SCET1:    96-354/13:40:58.666     SCET2:    96-354/13:41:11.333
TARGET: IO                        PARTITION: 1

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

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

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

WETGID:    0713010001          07  13  010  001
WTGRP_SIZ: 13
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1555D	1,0101,0101,0101,1101
1	1555D	1,0101,0101,0101,1101
2	1555D	1,0101,0101,0101,1101
3	1555D	1,0101,0101,0101,1101
4	1555D	1,0101,0101,0101,1101
5	1555D	1,0101,0101,0101,1101
6	1555D	1,0101,0101,0101,1101
7	1555D	1,0101,0101,0101,1101
8	1555D	1,0101,0101,0101,1101
9	1555D	1,0101,0101,0101,1101
10	1555D	1,0101,0101,0101,1101
11	1555D	1,0101,0101,0101,1101
12	00000	0,0000,0000,0000,0000

E4INWARMCV03

```
OAPEL:  E4INWARMCV03              ALIAS:  E4INWARMCV03
EXT:    A                         PSID:   EY
SCLK1:  03747401:52:0             SCLK2:  03747401:72:0
SCET1:    96-354/15:56:16.000     SCET2:    96-354/15:56:29.333
TARGET: IO                        PARTITION: 1

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

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

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

WETGID:    0713010001          07  13  010  001
WTGRP_SIZ: 13
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1555D	1,0101,0101,0101,1101
1	1555D	1,0101,0101,0101,1101
2	1555D	1,0101,0101,0101,1101
3	1555D	1,0101,0101,0101,1101
4	1555D	1,0101,0101,0101,1101
5	1555D	1,0101,0101,0101,1101
6	1555D	1,0101,0101,0101,1101
7	1555D	1,0101,0101,0101,1101
8	1555D	1,0101,0101,0101,1101
9	1555D	1,0101,0101,0101,1101
10	1555D	1,0101,0101,0101,1101
11	1555D	1,0101,0101,0101,1101
12	00000	0,0000,0000,0000,0000

E4INWARMCV03

```
OAPEL:  E4INWARMCV03              ALIAS:  E4INWARMCV03
EXT:    B                         PSID:   EY
SCLK1:  03747402:65:0             SCLK2:  03747402:85:0
SCET1:    96-354/15:57:25.333     SCET2:    96-354/15:57:38.666
TARGET: IO                        PARTITION: 1

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

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

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

WETGID:    0713010001          07  13  010  001
WTGRP_SIZ: 13
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1555D	1,0101,0101,0101,1101
1	1555D	1,0101,0101,0101,1101
2	1555D	1,0101,0101,0101,1101
3	1555D	1,0101,0101,0101,1101
4	1555D	1,0101,0101,0101,1101
5	1555D	1,0101,0101,0101,1101
6	1555D	1,0101,0101,0101,1101
7	1555D	1,0101,0101,0101,1101
8	1555D	1,0101,0101,0101,1101
9	1555D	1,0101,0101,0101,1101
10	1555D	1,0101,0101,0101,1101
11	1555D	1,0101,0101,0101,1101
12	00000	0,0000,0000,0000,0000

E4INWARMCV03

```
OAPEL:  E4INWARMCV03              ALIAS:  E4INWARMCV03
EXT:    C                         PSID:   EY
SCLK1:  03747403:78:0             SCLK2:  03747404:07:0
SCET1:    96-354/15:58:34.666     SCET2:    96-354/15:58:48.000
TARGET: IO                        PARTITION: 1

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

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

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

WETGID:     0713010001          07  13  010  001
WTGRP_SIZ:  13
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1555D	1,0101,0101,0101,1101
1	1555D	1,0101,0101,0101,1101
2	1555D	1,0101,0101,0101,1101
3	1555D	1,0101,0101,0101,1101
4	1555D	1,0101,0101,0101,1101
5	1555D	1,0101,0101,0101,1101
6	1555D	1,0101,0101,0101,1101
7	1555D	1,0101,0101,0101,1101
8	1555D	1,0101,0101,0101,1101
9	1555D	1,0101,0101,0101,1101
10	1555D	1,0101,0101,0101,1101
11	1555D	1,0101,0101,0101,1101
12	00000	0,0000,0000,0000,0000

E4INWARMCV03

```
OAPEL:  E4INWARMCV03              ALIAS:  E4INWARMCV03
EXT:    D                         PSID:   EY
SCLK1:  03747405:00:0             SCLK2:  03747405:20:0
SCET1:    96-354/15:59:43.593     SCET2:    96-354/15:59:57.333
TARGET: IO                        PARTITION: 1

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

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

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

WETGID:     0713010001          07  13  010  001
WTGRP_SIZ:  13
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1555D	1,0101,0101,0101,1101
1	1555D	1,0101,0101,0101,1101
2	1555D	1,0101,0101,0101,1101
3	1555D	1,0101,0101,0101,1101
4	1555D	1,0101,0101,0101,1101
5	1555D	1,0101,0101,0101,1101
6	1555D	1,0101,0101,0101,1101
7	1555D	1,0101,0101,0101,1101
8	1555D	1,0101,0101,0101,1101
9	1555D	1,0101,0101,0101,1101
10	1555D	1,0101,0101,0101,1101
11	1555D	1,0101,0101,0101,1101
12	00000	0,0000,0000,0000,0000

E4INWARMCV03

```
OAPEL:  E4INWARMCV03              ALIAS:  E4INWARMCV03
EXT:    E                         PSID:   EY
SCLK1:  03747406:13:0             SCLK2:  03747406:33:0
SCET1:    96-354/16:00:52.926     SCET2:    96-354/16:01:06.666
TARGET: IO                        PARTITION: 1

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

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

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

WETGID:    0713010001          07  13  010  001
WTGRP_SIZ: 13
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1555D	1,0101,0101,0101,1101
1	1555D	1,0101,0101,0101,1101
2	1555D	1,0101,0101,0101,1101
3	1555D	1,0101,0101,0101,1101
4	1555D	1,0101,0101,0101,1101
5	1555D	1,0101,0101,0101,1101
6	1555D	1,0101,0101,0101,1101
7	1555D	1,0101,0101,0101,1101
8	1555D	1,0101,0101,0101,1101
9	1555D	1,0101,0101,0101,1101
10	1555D	1,0101,0101,0101,1101
11	1555D	1,0101,0101,0101,1101
12	00000	0,0000,0000,0000,0000

E4INWARMCV03

```
OAPEL:  E4INWARMCV03              ALIAS:  E4INWARMCV03
EXT:    F                         PSID:   EY
SCLK1:  03747407:26:0             SCLK2:  03747407:47:0
SCET1:    96-354/16:02:02.260     SCET2:    96-354/16:02:16.000
TARGET: IO                        PARTITION: 1

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

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

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

WETGID:    0713010001          07  13  010  001
WTGRP_SIZ: 13
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1555D	1,0101,0101,0101,1101
1	1555D	1,0101,0101,0101,1101
2	1555D	1,0101,0101,0101,1101
3	1555D	1,0101,0101,0101,1101
4	1555D	1,0101,0101,0101,1101
5	1555D	1,0101,0101,0101,1101
6	1555D	1,0101,0101,0101,1101
7	1555D	1,0101,0101,0101,1101
8	1555D	1,0101,0101,0101,1101
9	1555D	1,0101,0101,0101,1101
10	1555D	1,0101,0101,0101,1101
11	1555D	1,0101,0101,0101,1101
12	00000	0,0000,0000,0000,0000

E4INWARMCV03

```
OAPEL:  E4INWARMCV03              ALIAS:  E4INWARMCV03
EXT:    G                         PSID:   EY
SCLK1:  03747408:39:0             SCLK2:  03747408:59:0
SCET1:    96-354/16:03:11.593     SCET2:    96-354/16:03:25.333
TARGET: IO                        PARTITION: 1

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

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

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

WETGID:    0713010001          07  13  010  001
WTGRP_SIZ: 13
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1555D	1,0101,0101,0101,1101
1	1555D	1,0101,0101,0101,1101
2	1555D	1,0101,0101,0101,1101
3	1555D	1,0101,0101,0101,1101
4	1555D	1,0101,0101,0101,1101
5	1555D	1,0101,0101,0101,1101
6	1555D	1,0101,0101,0101,1101
7	1555D	1,0101,0101,0101,1101
8	1555D	1,0101,0101,0101,1101
9	1555D	1,0101,0101,0101,1101
10	1555D	1,0101,0101,0101,1101
11	1555D	1,0101,0101,0101,1101
12	00000	0,0000,0000,0000,0000

E4INWARMCV03

```
OAPEL:  E4INWARMCV03              ALIAS:  E4INWARMCV03
EXT:    H                         PSID:   EY
SCLK1:  03747409:26:0             SCLK2:  03747409:46:0
SCET1:    96-354/16:04:03.593     SCET2:    96-354/16:04:17.333
TARGET: IO                        PARTITION: 1

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

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

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

WETGID:     0713010001          07  13  010  001
WTGRP_SIZ:  13
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1555D	1,0101,0101,0101,1101
1	1555D	1,0101,0101,0101,1101
2	1555D	1,0101,0101,0101,1101
3	1555D	1,0101,0101,0101,1101
4	1555D	1,0101,0101,0101,1101
5	1555D	1,0101,0101,0101,1101
6	1555D	1,0101,0101,0101,1101
7	1555D	1,0101,0101,0101,1101
8	1555D	1,0101,0101,0101,1101
9	1555D	1,0101,0101,0101,1101
10	1555D	1,0101,0101,0101,1101
11	1555D	1,0101,0101,0101,1101
12	00000	0,0000,0000,0000,0000

E4INRTIMON02

```
OAPEL:  E4INRTIMON02            ALIAS:  E4INRTIMON02
EXT:    R                       PSID:   FS
SCLK1:  03747420:00:0           SCLK2:  03747421:12:0
SCET1:  1996-354/16:14:53.333   SCET2:  1996-354/16:16:02.000
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	12A95	1,0010,1010,1001,0101
1	12A95	1,0010,1010,1001,0101
2	12A95	1,0010,1010,1001,0101
3	12A95	1,0010,1010,1001,0101
4	12A95	1,0010,1010,1001,0101
5	12A95	1,0010,1010,1001,0101
6	12A95	1,0010,1010,1001,0101
7	12A95	1,0010,1010,1001,0101
8	12A95	1,0010,1010,1001,0101
9	12A95	1,0010,1010,1001,0101
10	12A95	1,0010,1010,1001,0101
11	12A95	1,0010,1010,1001,0101
12	00000	0,0000,0000,0000,0000

E4INWARMCV04

```
OAPEL:  E4INWARMCV04              ALIAS:  E4INWARMCV04
EXT:    A                         PSID:   EZ
SCLK1:  03747426:70:0             SCLK2:  03747426:86:0
SCET1:    96-354/16:21:44.000     SCET2:    96-354/16:21:55.333
TARGET: IO                        PARTITION: 1

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

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

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

WETGID:    0713010001          07  13  010  001
WTGRP_SIZ: 13
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1555D	1,0101,0101,0101,1101
1	1555D	1,0101,0101,0101,1101
2	1555D	1,0101,0101,0101,1101
3	1555D	1,0101,0101,0101,1101
4	1555D	1,0101,0101,0101,1101
5	1555D	1,0101,0101,0101,1101
6	1555D	1,0101,0101,0101,1101
7	1555D	1,0101,0101,0101,1101
8	1555D	1,0101,0101,0101,1101
9	1555D	1,0101,0101,0101,1101
10	1555D	1,0101,0101,0101,1101
11	1555D	1,0101,0101,0101,1101
12	00000	0,0000,0000,0000,0000

E4INWARMCV04

```
OAPEL:  E4INWARMCV04              ALIAS:  E4INWARMCV04
EXT:    B                         PSID:   EZ
SCLK1:  03747427:37:0             SCLK2:  03747427:57:0
SCET1:    96-354/16:22:23.333     SCET2:    96-354/16:22:36.666
TARGET: IO                        PARTITION: 1

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

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

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

WETGID:    0713010001          07  13  010  001
WTGRP_SIZ: 13
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1555D	1,0101,0101,0101,1101
1	1555D	1,0101,0101,0101,1101
2	1555D	1,0101,0101,0101,1101
3	1555D	1,0101,0101,0101,1101
4	1555D	1,0101,0101,0101,1101
5	1555D	1,0101,0101,0101,1101
6	1555D	1,0101,0101,0101,1101
7	1555D	1,0101,0101,0101,1101
8	1555D	1,0101,0101,0101,1101
9	1555D	1,0101,0101,0101,1101
10	1555D	1,0101,0101,0101,1101
11	1555D	1,0101,0101,0101,1101
12	00000	0,0000,0000,0000,0000

E4INWARMCV04

```
OAPEL:  E4INWARMCV04              ALIAS:  E4INWARMCV04
EXT:    C                         PSID:   EZ
SCLK1:  03747428:06:0             SCLK2:  03747428:28:0
SCET1:    96-354/16:23:03.260     SCET2:    96-354/16:23:18.000
TARGET: IO                        PARTITION: 1

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

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

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

WETGID:     0713010001          07  13  010  001
WTGRP_SIZ:  13
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1555D	1,0101,0101,0101,1101
1	1555D	1,0101,0101,0101,1101
2	1555D	1,0101,0101,0101,1101
3	1555D	1,0101,0101,0101,1101
4	1555D	1,0101,0101,0101,1101
5	1555D	1,0101,0101,0101,1101
6	1555D	1,0101,0101,0101,1101
7	1555D	1,0101,0101,0101,1101
8	1555D	1,0101,0101,0101,1101
9	1555D	1,0101,0101,0101,1101
10	1555D	1,0101,0101,0101,1101
11	1555D	1,0101,0101,0101,1101
12	00000	0,0000,0000,0000,0000

E4INWARMCV04

```
OAPEL:  E4INWARMCV04              ALIAS:  E4INWARMCV04
EXT:    D                         PSID:   EZ
SCLK1:  03747428:71:0             SCLK2:  03747428:89:0
SCET1:    96-354/16:23:46.000     SCET2:    96-354/16:23:58.666
TARGET: IO                        PARTITION: 1

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

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

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

WETGID:     0713010001          07  13  010  001
WTGRP_SIZ:  13
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1555D	1,0101,0101,0101,1101
1	1555D	1,0101,0101,0101,1101
2	1555D	1,0101,0101,0101,1101
3	1555D	1,0101,0101,0101,1101
4	1555D	1,0101,0101,0101,1101
5	1555D	1,0101,0101,0101,1101
6	1555D	1,0101,0101,0101,1101
7	1555D	1,0101,0101,0101,1101
8	1555D	1,0101,0101,0101,1101
9	1555D	1,0101,0101,0101,1101
10	1555D	1,0101,0101,0101,1101
11	1555D	1,0101,0101,0101,1101
12	00000	0,0000,0000,0000,0000

E4GNGLOBAL01

```
OAPEL:  E4GNGLOBAL01              ALIAS:  E4GNGLOBAL01
EXT:    A                         PSID:   FZ
SCLK1:  03747654:00:0             SCLK2:  03747655:43:0
SCET1:    96-354/20:11:29.333     SCET2:    96-354/20:12:59.333
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:   204                   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:     0326204001          03  26  204  001
WTGRP_SIZ:  26
```

EDIT TABLE

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

E4JNFEA14801

```
OAPEL:  E4JNFEA14801            ALIAS:  E4JNFEA14801
EXT:    A                       PSID:   FG
SCLK1:  03748289:87:0           SCLK2:  03748293:89:0
SCET1:    96-355/06:54:31.228   SCET2:    96-355/06:58:35.266
TARGET: JUPITER                 PARTITION: 1

MODE:       5                   GAIN:       2
CHOP:       1                   GRAT_OFF:   4
PTAB_A:     1 1 0 1 4 6         PTAB_B:     1 1 0 1 4 6
ECAL:       0                   OPCAL:      0
R/T:        0                   RECORD:     1

MB_DOWN:    00000               MB_UP:      00000
COMP_FLAG:  1
EST_COMP:   2.0                 EST_COMPV:  0.3
RATE_CON1:  00000               RATE_CON2:  65525
NWAVETOT:    15                 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:     0507015001          05  07  015  001
WTGRP_SIZ:  7
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	00400	0,0000,0100,0000,0000
1	11500	1,0001,0101,0000,0000
2	1A000	1,1010,0000,0000,0000
3	00800	0,0000,1000,0000,0000
4	09810	0,1001,1000,0001,0000
5	00C00	0,0000,1100,0000,0000
6	00000	0,0000,0000,0000,0000

E4JNFEA14802

```
OAPEL:  E4JNFEA14802            ALIAS:  E4JNFEA14802
EXT:    A                       PSID:   FH
SCLK1:  03748299:87:0           SCLK2:  03748303:89:0
SCET1:    96-355/07:04:37.894   SCET2:    96-355/07:08:41.933
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:    15                 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:     0507015001          05  07  015  001
WTGRP_SIZ:  7
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	00400	0,0000,0100,0000,0000
1	11500	1,0001,0101,0000,0000
2	1A000	1,1010,0000,0000,0000
3	00800	0,0000,1000,0000,0000
4	09810	0,1001,1000,0001,0000
5	00C00	0,0000,1100,0000,0000
6	00000	0,0000,0000,0000,0000

E4JNFEA14803

```
OAPEL:  E4JNFEA14803            ALIAS:  E4JNFEA14803
EXT:    A                       PSID:   FI
SCLK1:  03748319:87:0           SCLK2:  03748323:89:0
SCET1:    96-355/07:24:51.228   SCET2:    96-355/07:28:55.266
TARGET: JUPITER                 PARTITION: 1

MODE:       5                   GAIN:      2
CHOP:       1                   GRAT_OFF:  4
PTAB_A:     1 1 0 1 4 6         PTAB_B:    1 1 0 1 4 6
ECAL:       0                   OPCAL:     0
R/T:        0                   RECORD:    1

MB_DOWN:    00000               MB_UP:     00000
COMP_FLAG:  1
EST_COMP:   2.0                 EST_COMPV: 0.3
RATE_CON1:  00000               RATE_CON2: 65525
NWAVETOT:    15                 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:     0507015001          05  07  015  001
WTGRP_SIZ:  7
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	00400	0,0000,0100,0000,0000
1	11500	1,0001,0101,0000,0000
2	1A000	1,1010,0000,0000,0000
3	00800	0,0000,1000,0000,0000
4	09810	0,1001,1000,0001,0000
5	00C00	0,0000,1100,0000,0000
6	00000	0,0000,0000,0000,0000

E4NNHEALTH04

```
OAPEL:  E4NNHEALTH04              ALIAS:  E4NNHEALTH04
EXT:    R                         PSID:   FW
SCLK1:  03748357:00:0             SCLK2:  03748357:12:0
SCET1:  1996-355/08:02:17.933     SCET2:  1996-355/08:02:25.933
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

E4JNFEA53M01

```
OAPEL:  E4JNFEA53M01            ALIAS:  E4JNFEA53M01
EXT:    A                       PSID:   FJ
SCLK1:  03748409:56:0           SCLK2:  03748420:41:0
SCET1:    96-355/08:55:29.933   SCET2:    96-355/09:06:27.933
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

E4JNFEA5UM01

```
OAPEL:  E4JNFEA5UM01              ALIAS:  E4JNFEA5UM01
EXT:    A                         PSID:   FK
SCLK1:  03748532:32:0             SCLK2:  03748539:70:0
SCET1:    96-355/10:59:35.933     SCET2:    96-355/11:07:05.933
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	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

E4JNFEA16001

```
OAPEL:  E4JNFEA16001            ALIAS:  E4JNFEA16001
EXT:    A                       PSID:   FN
SCLK1:  03748864:87:0           SCLK2:  03748866:79:0
SCET1:    96-355/16:35:54.540   SCET2:    96-355/16:37:50.600
TARGET: JUPITER                 PARTITION: 1

MODE:       5                   GAIN:       2
CHOP:       1                   GRAT_OFF:   4
PTAB_A:     1 1 0 1 4 6         PTAB_B:     1 1 0 1 4 6
ECAL:       0                   OPCAL:      0
R/T:        0                   RECORD:     1

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

E4JNFEA16002

```
OAPEL:  E4JNFEA16002              ALIAS:  E4JNFEA16002
EXT:    A                         PSID:   FO
SCLK1:  03748872:87:0             SCLK2:  03748874:85:0
SCET1:    96-355/16:43:59.873     SCET2:    96-355/16:45:59.933
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

E4JNFEA16003

```
OAPEL:  E4JNFEA16003            ALIAS:  E4JNFEA16003
EXT:    A                       PSID:   FP
SCLK1:  03748879:87:0           SCLK2:  03748881:55:0
SCET1:    96-355/16:51:04.639   SCET2:    96-355/16:52:44.600
TARGET: JUPITER                 PARTITION: 1

MODE:       5                   GAIN:       2
CHOP:       1                   GRAT_OFF:   4
PTAB_A:     1 1 0 1 4 6         PTAB_B:     1 1 0 1 4 6
ECAL:       0                   OPCAL:      0
R/T:        0                   RECORD:     1

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

E4RNMRING_01

```
OAPEL:  E4RNMRING_01              ALIAS:  E4RNMRING_01
EXT:    A                         PSID:   FM
SCLK1:  03748901:00:0             SCLK2:  03748901:90:0
SCET1:    96-355/17:12:20.600     SCET2:    96-355/17:13:21.266
TARGET: RING                      PARTITION: 1

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

MB_DOWN:    00000                 MB_UP:      00000
COMP_FLAG:  1
EST_COMP:   2.0                   EST_COMPV:  0.3
RATE_CON1:  00000                 RATE_CON2:  65525
NWAVETOT:     1                   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:     0113001001          01  13  001  001
WTGRP_SIZ:  13
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	00000	0,0000,0000,0000,0000
1	00000	0,0000,0000,0000,0000
2	00000	0,0000,0000,0000,0000
3	00000	0,0000,0000,0000,0000
4	00000	0,0000,0000,0000,0000
5	00000	0,0000,0000,0000,0000
6	00200	0,0000,0010,0000,0000
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

E4RNMRING_01

```
OAPEL:  E4RNMRING_01              ALIAS:  E4RNMRING_01
EXT:    B                         PSID:   FM
SCLK1:  03748904:90:0             SCLK2:  03748905:90:0
SCET1:    96-355/17:16:22.600     SCET2:    96-355/17:17:23.933
TARGET: RING                      PARTITION: 1

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

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

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

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

EDIT TABLE

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

E4NNPCTRLT01

OAPEL: E4NNPCTRLT01 ALIAS: E4NNPCTRLT01
EXT: R PSID: R
SCLK1: 03759395:00:0 SCLK2: 03759395:12:0
SCET1: 1996-363/02:02:56.200 SCET2: 1996-363/02:03:04.200
TARGET: CAL PARTITION: 1

MODE: 3 GAIN: 4
CHOP: 1 GRAT_OFF: 4
PTAB_A: 1 1 0 0 124 PTAB_B: 1 1 0 0 124
ECAL: 0 OPCAL: 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	1FFC0	1,1111,1111,1100,0000
1	1FFC0	1,1111,1111,1100,0000
2	1FFC0	1,1111,1111,1100,0000
3	1FFC0	1,1111,1111,1100,0000
4	1FFC0	1,1111,1111,1100,0000
5	1FFC0	1,1111,1111,1100,0000
6	1FFC0	1,1111,1111,1100,0000
7	1FFC0	1,1111,1111,1100,0000
8	1FFC0	1,1111,1111,1100,0000
9	1FFC0	1,1111,1111,1100,0000
10	1FFC0	1,1111,1111,1100,0000
11	1FFC0	1,1111,1111,1100,0000
12	1FF80	1,1111,1111,1000,0000
13	1FF80	1,1111,1111,1000,0000
14	1FF80	1,1111,1111,1000,0000
15	1FF80	1,1111,1111,1000,0000
16	1FF80	1,1111,1111,1000,0000
17	1FF80	1,1111,1111,1000,0000
18	1FF80	1,1111,1111,1000,0000
19	1FF80	1,1111,1111,1000,0000
20	1FF80	1,1111,1111,1000,0000
21	1FF80	1,1111,1111,1000,0000
22	1FF80	1,1111,1111,1000,0000
23	1FF80	1,1111,1111,1000,0000
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

E4NNPCTRLT01

```
OAPEL:  E4NNPCTRLT01            ALIAS:  E4NNPCTRLT01
EXT:    S                       PSID:   R
SCLK1:  03759400:00:0           SCLK2:  03759409:12:0
SCET1:  1996-363/02:07:59.533   SCET2:  1996-363/02:17:13.533
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:   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	1FFC0	1,1111,1111,1100,0000
1	1FFC0	1,1111,1111,1100,0000
2	1FFC0	1,1111,1111,1100,0000
3	1FFC0	1,1111,1111,1100,0000
4	1FFC0	1,1111,1111,1100,0000
5	1FFC0	1,1111,1111,1100,0000
6	1FFC0	1,1111,1111,1100,0000
7	1FFC0	1,1111,1111,1100,0000
8	1FFC0	1,1111,1111,1100,0000
9	1FFC0	1,1111,1111,1100,0000
10	1FFC0	1,1111,1111,1100,0000
11	1FFC0	1,1111,1111,1100,0000
12	1FF80	1,1111,1111,1000,0000
13	1FF80	1,1111,1111,1000,0000
14	1FF80	1,1111,1111,1000,0000
15	1FF80	1,1111,1111,1000,0000
16	1FF80	1,1111,1111,1000,0000
17	1FF80	1,1111,1111,1000,0000
18	1FF80	1,1111,1111,1000,0000
19	1FF80	1,1111,1111,1000,0000
20	1FF80	1,1111,1111,1000,0000
21	1FF80	1,1111,1111,1000,0000
22	1FF80	1,1111,1111,1000,0000
23	1FF80	1,1111,1111,1000,0000
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

J5NNOPCAL_01

```
OAPEL:  J5NNOPCAL_01            ALIAS:  J5NNOPCAL_01
EXT:    R                       PSID:   DN
SCLK1:  03831582:00:0           SCLK2:  03831583:12:0
SCET1:  1997-047/18:31:58.200   SCET2:  1997-047/18:33:06.866
TARGET: CAL                     PARTITION: 1

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

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

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

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

EDIT TABLE

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

J5NNOPCAL_01

OAPEL: J5NNOPCAL_01 ALIAS: J5NNOPCAL_01
EXT: S PSID: DN
SCLK1: 03831584:00:0 SCLK2: 03831584:12:0
SCET1: 1997-047/18:33:59.533 SCET2: 1997-047/18:34:07.533
TARGET: CAL PARTITION: 1

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

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

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

WETGID: 0302048000 03 02 048 000
WTGRP_SIZ: 2

EDIT TABLE

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

NIMS E4 OBSTAB

This is a time-ordered ASCII TABLE (listing) of GALILEO NIMS observation parameters for use by downlink data processing of the NIMS E4 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: mmeelllnnn 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
   JRINGS   - R - Jupiter rings
   (the single letter abbreviation appears as the third character in the OAPEL name ).
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E4NNOPCAL_01E4NNOPCAL_01RDN03740784:00:003740788:12:01         CAL      3414 1 1 0 0 124 1 1 0 0 12411100 1101111011 0 0.00.0000
0000000                  120RT 1996-350/00:25:09.6001996-350/00:29:20.266
          000000000000000000000000000000000000000000000000000302120000 224187000200000

E4JNGLOMOS01E4JNGLOMOS01ADA03743811:89:003743813:47:01         JUPITER  7214 1 1 0 5 012 1 1 0 5 01200010 0000000000 1 2.00.3000
0065525                   5LPU  96-352/03:26:47.466  96-352/03:28:20.800
          000000000000000000000000000000000000000000000000000713005001130101581010158101015810101581010158101015810101581010158
810101581010158101015810101581010158101000000
E4JNGLOMOS02E4JNGLOMOS02ADB03743908:90:003743913:39:01         JUPITER  7214 1 1 0 5 012 1 1 0 5 01200010 0000000000 1 2.00.3000
0065525                   5LPU  96-352/05:04:52.133  96-352/05:09:21.466
          000000000000000000000000000000000000000000000000000713005001130101581010158101015810101581010158101015810101581010158
810101581010158101015810101581010158101000000
E4NNHEALTH01E4NNHEALTH01RFY03744238:00:003744238:12:01         CAL      3214 1 1 0 0 124 1 1 0 0 12400100 0000000000 0 0.00.0000
0000000                  003RT 1996-352/10:37:32.1331996-352/10:37:40.133
          000000000000000000000000000000000000000000000000000302003000 201080442500000

E4JNFEA05501E4JNFEA05501ADG03744539:87:003744546:47:01         JUPITER  5214 1 1 0 1 4 6 1 1 0 1 4 600010 0000000000 1 2.00.3000
0065525                   5LPU  96-352/15:42:51.367  96-352/15:49:29.466
          000000000000000000000000000000000000000000000000000507005001 701000000101100011000000100A000100000001000000100000

E4JNFEA05502E4JNFEA05502ADH03744551:87:003744558:48:01         JUPITER  5214 1 1 0 1 4 6 1 1 0 1 4 600010 0000000000 1 2.00.3000
0065525                   4LPU  96-352/15:54:59.366  96-352/16:01:37.400
          000000000000000000000000000000000000000000000000000507004001 701000000101100011000000100800010000001000000100000

E4JNFEA05503E4JNFEA05503ADI03744619:87:003744626:47:01         JUPITER  5214 1 1 0 1 4 6 1 1 0 1 4 600010 0000000000 1 2.00.3000
0065525                   4LPU  96-352/17:03:44.698  96-352/17:10:22.733
          000000000000000000000000000000000000000000000000000507004001 701000000101100011000000100800010000001000000100000

E4INCOOLCV01E4INCOOLCV01ADK03744745:19:003744745:34:01         IO       7414 1 1 021 012 1 1 021 01200012 0000000000 1 2.00.3000
0065525                  10LPU  96-352/19:10:23.359  96-352/19:10:32.733
          030030030000030029028028029028032034031031032030029071301000113011555D011555D011555D011555D011555D011555D011555D01155
5D011555D011555D011555D011555D0100000
E4INCOOLCV01E4INCOOLCV01BDK03744745:83:003744746:06:01         IO       7414 1 1 021 012 1 1 021 01200012 0000000000 1 2.00.3000
0065525                  10LPU  96-352/19:11:05.400  96-352/19:11:14.733
          030030030000030029028028029028032034031031032030029071301000113011555D011555D011555D011555D011555D011555D011555D01155
5D011555D011555D011555D011555D0100000
E4INCOOLCV01E4INCOOLCV01CDK03744747:06:003744747:20:01         IO       7414 1 1 021 012 1 1 021 01200012 0000000000 1 2.00.3000
0065525                  10LPU  96-352/19:12:15.400  96-352/19:12:24.733
          030030030000030029028028029028032034031031032030029071301000113011555D011555D011555D011555D011555D011555D011555D01155
5D011555D011555D011555D011555D0100000
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E4INCOOLCV01E4INCOOLCV01DDK03744749:13:003744749:26:01         IO       7414 1 1 021 012 1 1 021 01200012 0000000000 1 2.00.3000
0065525                  10LPU  96-352/19:14:21.400  96-352/19:14:30.733
          0300300300000300290280280290280320340310310320300290713010001130115550115550115550115550115550115550115550115
5D011555D011555D011555D011555D0100000
E4INCOOLCV01E4INCOOLCV01EDK03744750:89:003744751:12:01         IO       7414 1 1 021 012 1 1 021 01200012 0000000000 1 2.00.3000
0065525                  10LPU  96-352/19:16:13.400  96-352/19:16:22.733
          0300300300000300290280280290280320340310310320300290713010001130115550115550115550115550115550115550115550115
5D011555D011555D011555D011555D0100000
E4INRTIMON01E4INRTIMON01RFR03744814:00:003744814:12:01         IO       7214 1 1 021 012 1 1 021 01200100 1110000111 0 0.00.0000
0000000                 008RT 1996-352/20:19:56.0661996-352/20:20:04.066
          0000000000000000000000000000000000000000000000000702008000 21212A950100000

E4INWARMCV01E4INWARMCV01ADL03744881:23:003744881:39:01         IO       7214 1 1 021 012 1 1 021 01200012 0000000000 1 2.00.3000
0065525                  10LPU  96-352/21:27:56.733  96-352/21:28:07.400
          0300300300000300290280280290280320340310310320300290713010001130115550115550115550115550115550115550115550115
5D011555D011555D011555D011555D0100000
E4INWARMCV01E4INWARMCV01BDL03744882:06:003744882:24:01         IO       7214 1 1 021 012 1 1 021 01200012 0000000000 1 2.00.3000
0065525                  10LPU  96-352/21:28:46.020  96-352/21:28:57.400
          0300300300000300290280280290280320340310310320300290713010001130115550115550115550115550115550115550115550115
5D011555D011555D011555D011555D0100000
E4INWARMCV01E4INWARMCV01CDL03744882:82:003744883:07:01         IO       7214 1 1 021 012 1 1 021 01200012 0000000000 1 2.00.3000
0065525                  10LPU  96-352/21:29:36.733  96-352/21:29:47.400
          0300300300000300290280280290280320340310310320300290713010001130115550115550115550115550115550115550115550115
5D011555D011555D011555D011555D0100000
E4INWARMCV01E4INWARMCV01DDL03744883:65:003744883:83:01         IO       7214 1 1 021 012 1 1 021 01200012 0000000000 1 2.00.3000
0065525                  10LPU  96-352/21:30:25.687  96-352/21:30:37.400
          0300300300000300290280280290280320340310310320300290713010001130115550115550115550115550115550115550115550115
5D011555D011555D011555D011555D0100000
E4INWARMCV01E4INWARMCV01EDL03744884:76:003744885:00:01         IO       7214 1 1 021 012 1 1 021 01200012 0000000000 1 2.00.3000
0065525                  10LPU  96-352/21:31:33.400  96-352/21:31:44.066
          0300300300000300290280280290280320340310310320300290713010001130115550115550115550115550115550115550115550115
5D011555D011555D011555D011555D0100000
E4INWARMCV01E4INWARMCV01FDL03744887:00:003744887:19:01         IO       7214 1 1 021 012 1 1 021 01200012 0000000000 1 2.00.3000
0065525                  10LPU  96-352/21:33:45.020  96-352/21:33:57.400
          0300300300000300290280280290280320340310310320300290713010001130115550115550115550115550115550115550115550115
5D011555D011555D011555D011555D0100000
E4INWARMCV02E4INWARMCV02ADM03744915:48:003744915:64:01         IO       7214 1 1 021 012 1 1 021 01200012 0000000000 1 2.00.3000
0065525                  10LPU  96-352/22:02:36.066  96-352/22:02:46.733
          0300300300000300290280280290280320340310310320300290713010001130115550115550115550115550115550115550115550115
5D011555D011555D011555D011555D0100000
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E4INWARMCV02E4INWARMCV02BDM03744916:00:003744916:17:01         IO       7214 1 1 021 012 1 1 021 01200012 0000000000 1 2.00.3000
0065525                   10LPU  96-352/22:03:04.353  96-352/22:03:16.066
          0300300300000300290280280290280320340310310320300290713010001130115550115550115550115550115550115550115550115
5D011555D011555D011555D011555D0100000
E4JNFEA04101E4JNFEA04101ADO03745119:87:003745126:47:01         JUPITER  5214 1 1 0 1 4 6 1 1 0 1 4 600010 0000000000 1 2.00.3000
0065525                    4LPU  96-353/01:29:18.012  96-353/01:35:56.066
          00000000000000000000000000000000000000000000000000507004001 701000000101100011000001008000100000010000001000000

E4JNFEA04102E4JNFEA04102ADQ03745140:87:003745141:21:01         JUPITER  5214 1 1 0 1 4 6 1 1 0 1 4 600010 0000000000 1 2.00.3000
0065525                    4LPU  96-353/01:50:32.011  96-353/01:50:48.733
          00000000000000000000000000000000000000000000000000507004001 701000000101100011000001008000100000010000001000000

E4JNFEA04103E4JNFEA04103ADR03745225:87:003745231:09:01         JUPITER  5214 1 1 0 1 4 6 1 1 0 1 4 600010 0000000000 1 2.00.3000
0065525                    4LPU  96-353/03:16:28.675  96-353/03:21:40.066
          00000000000000000000000000000000000000000000000000507004001 701000000101100011000001008000100000010000001000000

E4NNHEALTH02E4NNHEALTH02RFX03745274:00:003745274:12:01         CAL      3214 1 1 0 0 124 1 1 0 0 12400100 0000000000 0 0.00.0000
0000000                  003RT 1996-353/04:05:02.7331996-353/04:05:10.733
          00000000000000000000000000000000000000000000000000302003000 201080442500000

E4JNRTHOTS01E4JNRTHOTS01RDY03745713:00:003745713:12:01         JUPITER  3214 1 1 0 0 124 1 1 0 0 12400100 1101111011 0 0.00.0000
0000000                  408RT 1996-353/11:28:55.4001996-353/11:29:03.400
          00000000000000000000000000000000000000000000000000302408000 2241FFFF0200000

E4JNFEA01601E4JNFEA01601ADV03745731:87:003745733:25:01         JUPITER  5214 1 1 0 1 4 6 1 1 0 1 4 600010 0000000000 1 2.00.3000
0065525                   19LPU  96-353/11:48:05.989  96-353/11:49:26.066
          00000000000000000000000000000000000000000000000000507019001 701004000111501011A0000100802010B8100100C010100000

E4JNFEA01602E4JNFEA01602ADW03745739:87:003745745:78:01         JUPITER  5214 1 1 0 1 4 6 1 1 0 1 4 600010 0000000000 1 2.00.3000
0065525                   25LPU  96-353/11:56:11.323  96-353/12:02:08.733
          00000000000000000000000000000000000000000000000000507025001 701004000111D810119900010190201 0B8100100C010100000

E4JNFEA01604E4JNFEA01604AEA03745846:77:003745851:67:01         JUPITER  5214 1 1 0 1 4 6 1 1 0 1 4 600010 0000000000 1 2.00.3000
0065525                   25LPU  96-353/13:44:15.400  96-353/13:49:12.733
          00000000000000000000000000000000000000000000000000507025001 701004000111D810119900010190201 0B8100100C010100000

E4JNFEASUB01E4JNFEASUB01AEB03745858:89:003745882:61:01         JUPITER  3214 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                   80LPU  96-353/13:56:32.066  96-353/14:20:29.400
          00000000000000000000000000000000000000000000000000326080001260111400011140001114000111400011140001114000111400011940
00011A400011A400010A400010A400010A400010AC00010A800010A800011A800011A800011A800011A800011280001128000112800011280001000000100000
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E4JNPFTB1603E4JNPFTB1603AED03745929:87:003745930:36:01         JUPITER  5214 1 1 0 1 4 6 1 1 0 1 4 600010 0000000000 1 2.00.3000
0065525                   19LPU  96-353/15:08:17.982  96-353/15:08:44.733
          00000000000000000000000000000000000000000000000000507019001 701004000111501011A0000100802010B8100100C010100000

E4INHRSPEC01E4INHRSPEC01AEH03746296:47:003746297:46:01         IO       3214 1 1 0 0 124 1 1 0 0 12400012 0000000000 1 2.00.3000
0065525                    1LPU  96-353/21:18:56.066  96-353/21:19:56.066
          0300300300000300290280280290280320340310310320300290326001001260100000010000001000000100000010000001000000100000
000100000010000001000000100000010000001002000100000010000001000000100000010000001000000100000010000001000000100000010000001000000100000
E4INHRSPEC01E4INHRSPEC01BEH03746304:77:003746310:18:01         IO       3214 1 1 0 0 124 1 1 0 0 12400012 0000000000 1 2.00.3000
0065525                   96LPU  96-353/21:27:20.968  96-353/21:32:45.634
          0300300300000300290280280290280320340310310320300290326096001260100000011FDFF010000001000000100000011FDFF010000001000
000100000011FDFF010000001000000100000011FDFF010000001000000100000011FDFF010000001000000100000011FDFF010000001000000100000011FDFF010000001000000100000
E4ENXDARLI01E4ENXDARLI01AEI03746514:19:003746516:90:01         EUROPA   1214 1 1 0 0 212 1 1 0 0 21200012 0000000000 1 2.00.3000
0065525                   96MPW  96-354/00:59:02.293  96-354/01:01:50.666
          0300300300000300290280280290280320340310310320300290113096001130 11FDFF0100000011FDFF0100000011FDFF0100000011FDFF01000
00011FDFF0100000011FDFF01000000100000
E4ENXDARLI01E4ENXDARLI01BEI03746517:00:003746520:70:01         EUROPA   1314 1 1 0 0 212 1 1 0 0 21200012 0000000000 1 2.00.3000
0065525                   96MPW  96-354/01:01:51.333  96-354/01:05:40.293
          0300300300000300290280280290280320340310310320300290113096001130 11FDFF0100000011FDFF0100000011FDFF0100000011FDFF01000
00011FDFF0100000011FDFF01000000100000
E4ENSUCOMP02E4ENSUCOMP02AEM03746763:36:003746781:71:01         EUROPA   3314 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                  192LPU  96-354/05:10:59.333  96-354/05:29:35.333
          0000000000000000000000000000000000000000000000000032619200126010000011FDFF0100000011FDFF0100000011FDFF0100000011FD
FF0100000011FDFF0100000011FDFF0100000011FDFF0100000011FDFF0100000011FDFF0100000011FDFF0100000011FDFF01000000100000
E4ENSUCOMP01E4ENSUCOMP01AEN03746805:31:003746823:51:01         EUROPA   3314 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                  192MPW  96-354/05:53:24.666  96-354/06:11:49.333
          0000000000000000000000000000000000000000000000000032619200126010000011FDFF0100000011FDFF0100000011FDFF0100000011FD
FF0100000011FDFF0100000011FDFF0100000011FDFF0100000011FDFF0100000011FDFF0100000011FDFF01000000100000
E4ENSUCOMP03E4ENSUCOMP03ACO03746837:26:003746849:87:01         EUROPA   3314 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                  384MPW  96-354/06:25:42.666  96-354/06:38:31.333
          0000000000000000000000000000000000000000000000000032638400126011FDFF011FDFF011FDFF011FDFF011FDFF011FDFF011FDFF011FD
FF011FDFF011FDFF011FDFF011FDFF011FDFF011FDFF011FDFF011FDFF011FDFF011FDFF011FDFF011FDFF011FDFF01000000100000
E4JNFEA09501E4JNFEA09501AEP03747104:87:003747111:51:01         JUPITER  5214 1 1 0 1 4 6 1 1 0 1 4 600010 0000000000 1 2.00.3000
0065525                    4LPU  96-354/10:56:21.272  96-354/11:03:02.000
          00000000000000000000000000000000000000000000000000507004001 701000000101100011000001008000100000010000001000000

E4JNFEA09502E4JNFEA09502AEQ03747140:87:003747147:48:01         JUPITER  5214 1 1 0 1 4 6 1 1 0 1 4 600010 0000000000 1 2.00.3000
0065525                    4LPU  96-354/11:32:45.270  96-354/11:39:24.000
          00000000000000000000000000000000000000000000000000507004001 701000000101100011000001008000100000010000001000000

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E4JNFEA09503E4JNFEA09503AER03747158:87:003747159:33:01         JUPITER  5214 1 1 0 1 4 6 1 1 0 1 4 600010 0000000000 1 2.00.3000
0065525                    5LPU  96-354/11:50:57.270  96-354/11:51:22.000
          0000000000000000000000000000000000000000000000000507005001 701000000101100011000001000A0001000000100000010000

E4INCOOLCV02E4INCOOLCV02AEV03747265:57:003747265:75:01         IO       7414 1 1 021 012 1 1 021 01200012 0000000000 1 2.00.3000
0065525                   10LPU  96-354/13:38:48.000  96-354/13:39:00.666
          0300300300000300290280280290280320340310310320300290713010001130115555D011555D011555D011555D011555D011555D011555D01155
5D011555D011555D011555D011555D0100000
E4INCOOLCV02E4INCOOLCV02BEV03747266:19:003747266:41:01         IO       7414 1 1 021 012 1 1 021 01200012 0000000000 1 2.00.3000
0065525                   10LPU  96-354/13:39:23.933  96-354/13:39:38.000
          0300300300000300290280280290280320340310310320300290713010001130115555D011555D011555D011555D011555D011555D011555D01155
5D011555D011555D011555D011555D0100000
E4INCOOLCV02E4INCOOLCV02CEV03747267:13:003747267:34:01         IO       7414 1 1 021 012 1 1 021 01200012 0000000000 1 2.00.3000
0065525                   10LPU  96-354/13:40:20.266  96-354/13:40:34.000
          0300300300000300290280280290280320340310310320300290713010001130115555D011555D011555D011555D011555D011555D011555D01155
5D011555D011555D011555D011555D0100000
E4INCOOLCV02E4INCOOLCV02DEV03747267:70:003747267:90:01         IO       7414 1 1 021 012 1 1 021 01200012 0000000000 1 2.00.3000
0065525                   10LPU  96-354/13:40:58.666  96-354/13:41:11.333
          0300300300000300290280280290280320340310310320300290713010001130115555D011555D011555D011555D011555D011555D011555D01155
5D011555D011555D011555D011555D0100000
E4INWARMCV03E4INWARMCV03AEY03747401:52:003747401:72:01         IO       7214 1 1 021 012 1 1 021 01200012 0000000000 1 2.00.3000
0065525                   10LPU  96-354/15:56:16.000  96-354/15:56:29.333
          0300300300000300290280280290280320340310310320300290713010001130115555D011555D011555D011555D011555D011555D011555D01155
5D011555D011555D011555D011555D0100000
E4INWARMCV03E4INWARMCV03BEY03747402:65:003747402:85:01         IO       7214 1 1 021 012 1 1 021 01200012 0000000000 1 2.00.3000
0065525                   10LPU  96-354/15:57:25.333  96-354/15:57:38.666
          0300300300000300290280280290280320340310310320300290713010001130115555D011555D011555D011555D011555D011555D011555D01155
5D011555D011555D011555D011555D0100000
E4INWARMCV03E4INWARMCV03CEY03747403:78:003747404:07:01         IO       7214 1 1 021 012 1 1 021 01200012 0000000000 1 2.00.3000
0065525                   10LPU  96-354/15:58:34.666  96-354/15:58:48.000
          0300300300000300290280280290280320340310310320300290713010001130115555D011555D011555D011555D011555D011555D011555D01155
5D011555D011555D011555D011555D0100000
E4INWARMCV03E4INWARMCV03DEY03747405:00:003747405:20:01         IO       7214 1 1 021 012 1 1 021 01200012 0000000000 1 2.00.3000
0065525                   10LPU  96-354/15:59:43.593  96-354/15:59:57.333
          0300300300000300290280280290280320340310310320300290713010001130115555D011555D011555D011555D011555D011555D011555D01155
5D011555D011555D011555D011555D0100000
E4INWARMCV03E4INWARMCV03EEY03747406:13:003747406:33:01         IO       7214 1 1 021 012 1 1 021 01200012 0000000000 1 2.00.3000
0065525                   10LPU  96-354/16:00:52.926  96-354/16:01:06.666
          0300300300000300290280280290280320340310310320300290713010001130115555D011555D011555D011555D011555D011555D011555D01155
5D011555D011555D011555D011555D0100000
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E4INWARMCV03E4INWARMCV03FEY03747407:26:003747407:47:01         IO       7214 1 1 021 012 1 1 021 01200012 0000000000 1 2.00.3000
0065525                  10LPU  96-354/16:02:02.260  96-354/16:02:16.000
          0300300300000300290280280290280320340310310320300290713010001130115550115550115550115550115550115550115550115
5D011555D011555D011555D011555D0100000
E4INWARMCV03E4INWARMCV03GEY03747408:39:003747408:59:01         IO       7214 1 1 021 012 1 1 021 01200012 0000000000 1 2.00.3000
0065525                  10LPU  96-354/16:03:11.593  96-354/16:03:25.333
          0300300300000300290280280290280320340310310320300290713010001130115550115550115550115550115550115550115550115
5D011555D011555D011555D011555D0100000
E4INWARMCV03E4INWARMCV03HEY03747409:26:003747409:46:01         IO       7214 1 1 021 012 1 1 021 01200012 0000000000 1 2.00.3000
0065525                  10LPU  96-354/16:04:03.593  96-354/16:04:17.333
          0300300300000300290280280290280320340310310320300290713010001130115550115550115550115550115550115550115550115
5D011555D011555D011555D011555D0100000
E4INRTIMON02E4INRTIMON02RFS03747420:00:003747421:12:01         IO       7214 1 1 021 012 1 1 021 01200100 1110000111 0 0.00.0000
0000000                 008RT 1996-354/16:14:53.3331996-354/16:16:02.000
          0000000000000000000000000000000000000000000000000702008000 21212A950100000

E4INWARMCV04E4INWARMCV04AEZ03747426:70:003747426:86:01         IO       7214 1 1 021 012 1 1 021 01200012 0000000000 1 2.00.3000
0065525                  10LPU  96-354/16:21:44.000  96-354/16:21:55.333
          0300300300000300290280280290280320340310310320300290713010001130115550115550115550115550115550115550115550115
5D011555D011555D011555D011555D0100000
E4INWARMCV04E4INWARMCV04BEZ03747427:37:003747427:57:01         IO       7214 1 1 021 012 1 1 021 01200012 0000000000 1 2.00.3000
0065525                  10LPU  96-354/16:22:23.333  96-354/16:22:36.666
          0300300300000300290280280290280320340310310320300290713010001130115550115550115550115550115550115550115550115
5D011555D011555D011555D011555D0100000
E4INWARMCV04E4INWARMCV04CEZ03747428:06:003747428:28:01         IO       7214 1 1 021 012 1 1 021 01200012 0000000000 1 2.00.3000
0065525                  10LPU  96-354/16:23:03.260  96-354/16:23:18.000
          0300300300000300290280280290280320340310310320300290713010001130115550115550115550115550115550115550115550115
5D011555D011555D011555D011555D0100000
E4INWARMCV04E4INWARMCV04DEZ03747428:71:003747428:89:01         IO       7214 1 1 021 012 1 1 021 01200012 0000000000 1 2.00.3000
0065525                  10LPU  96-354/16:23:46.000  96-354/16:23:58.666
          0300300300000300290280280290280320340310310320300290713010001130115550115550115550115550115550115550115550115
5D011555D011555D011555D011555D0100000
E4GNGLOBAL01E4GNGLOBAL01AFZ03747654:00:003747655:43:01         GANYMEDE 3314 1 1 0 0 124 1 1 0 0 12400012 0000000000 1 2.00.3000
0065525                 204MPW  96-354/20:11:29.333  96-354/20:12:59.333
          0300300300000300290280280290280320340310310320300290326204001260100000011FFFF0100000011FFFF0100000011FFFF0100000011FF
FF0100000011FFFF0100000011FFFF0100000011FFFF0100000011FFFF0100000011FFFF0100000011FFFF0100000011FFFF01000000100000
E4JNFEA14801E4JNFEA14801AFG03748289:87:003748293:89:01         JUPITER  5214 1 1 0 1 4 6 1 1 0 1 4 600010 0000000000 1 2.00.3000
0065525                  15LPU  96-355/06:54:31.228  96-355/06:58:35.266
          0000000000000000000000000000000000000000000000000507015001 701004000111500011A000010080001098100100C000100000

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E4JNFEA14802E4JNFEA14802AFH03748299:87:003748303:89:01         JUPITER  5214 1 1 0 1 4 6 1 1 0 1 4 600010 0000000000 1 2.00.3000
0065525                   15LPU  96-355/07:04:37.894  96-355/07:08:41.933
          00000000000000000000000000000000000000000000000000507015001 701004000111500011A000010080001098100100C000100000

E4JNFEA14803E4JNFEA14803AFI03748319:87:003748323:89:01         JUPITER  5214 1 1 0 1 4 6 1 1 0 1 4 600010 0000000000 1 2.00.3000
0065525                   15LPU  96-355/07:24:51.228  96-355/07:28:55.266
          00000000000000000000000000000000000000000000000000507015001 701004000111500011A000010080001098100100C000100000

E4NNHEALTH04E4NNHEALTH04RFW03748357:00:003748357:12:01         CAL      3214 1 1 0 0 124 1 1 0 0 12400100 0000000000 0 0.00.0000
0000000                  003RT 1996-355/08:02:17.9331996-355/08:02:25.933
          00000000000000000000000000000000000000000000000000302003000 201080442500000

E4JNFEA53M01E4JNFEA53M01AFJ03748409:56:003748420:41:01         JUPITER  3414 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                  160LPU  96-355/08:55:29.933  96-355/09:06:27.933
          00000000000000000000000000000000000000000000000000326160001260101183010118B010118F010118F010118F010118F010118F01001
8F010018F010018F010018F010018F010018F010018F010018F010018F010018F010019F010019F010219F010219F010231F010231F010231F01000000100000
E4JNFEA5UM01E4JNFEA5UM01AFK03748532:32:003748539:70:01         JUPITER  3214 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                   80LPU  96-355/10:59:35.933  96-355/11:07:05.933
          00000000000000000000000000000000000000000000000000326080001260100007010000701000070100007010000701000070100007010000701000
07010000701000070100007010000701000070100007010000701000070100007010000F010000F010000F010000F010000F010000F010000F01000000100000
E4JNFEA16001E4JNFEA16001AFN03748864:87:003748866:79:01         JUPITER  5214 1 1 0 1 4 6 1 1 0 1 4 600010 0000000000 1 2.00.3000
0065525                    4LPU  96-355/16:35:54.540  96-355/16:37:50.600
          00000000000000000000000000000000000000000000000000507004001 701000000101100011000001008000100000010000001000000

E4JNFEA16002E4JNFEA16002AFO03748872:87:003748874:85:01         JUPITER  5214 1 1 0 1 4 6 1 1 0 1 4 600010 0000000000 1 2.00.3000
0065525                    4LPU  96-355/16:43:59.873  96-355/16:45:59.933
          00000000000000000000000000000000000000000000000000507004001 701000000101100011000001008000100000010000001000000

E4JNFEA16003E4JNFEA16003AFP03748879:87:003748881:55:01         JUPITER  5214 1 1 0 1 4 6 1 1 0 1 4 600010 0000000000 1 2.00.3000
0065525                    4LPU  96-355/16:51:04.639  96-355/16:52:44.600
          00000000000000000000000000000000000000000000000000507004001 701000000101100011000001008000100000010000001000000

E4RNMRING_01E4RNMRING_01AFM03748901:00:003748901:90:01         JRINGS   1414 1 1 0 0 212 1 1 0 0 21200010 0000000000 1 2.00.3000
0065525                    1LPU  96-355/17:12:20.600  96-355/17:13:21.266
          00000000000000000000000000000000000000000000000000113001001130100000010000001000000100000010000001000000100200010000
00010000010000001000000100000010000001000000100000
E4RNMRING_01E4RNMRING_01BFM03748904:90:003748905:90:01         JRINGS   1414 1 1 0 0 212 1 1 0 0 21200010 0000000000 1 2.00.3000
0065525                   96LPU  96-355/17:16:22.600  96-355/17:17:23.933
          00000000000000000000000000000000000000000000000000113096001130011FDFF0100000011FDFF0100000011FDFF0100000011FDFF01000
00011FDFF0100000011FDFF01000000100000
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E4NNPCTRLT01E4NNPCTRLT01RR 03759395:00:003759395:12:01         CAL      3414 1 1 0 0 124 1 1 0 0 12400100 1101111011 0 0.00.0000
0000000                  252RT 1996-363/02:02:56.2001996-363/02:03:04.200
           00000000000000000000000000000000000000000000000000303252000 3121FFC0121FF800200000

E4NNPCTRLT01E4NNPCTRLT01SR 03759400:00:003759409:12:01         CAL      3414 1 1 0 0 124 1 1 0 0 12400100 1101111011 0 0.00.0000
0000000                  252RT 1996-363/02:07:59.5331996-363/02:17:13.533
           00000000000000000000000000000000000000000000000000303252000 3121FFC0121FF800200000

J5NNOPCAL_01J5NNOPCAL_01RDN03831582:00:003831583:12:01         CAL      3414 1 1 0 0 124 1 1 0 0 12401100 1101111011 0 0.00.0000
0000000                  048RT 1997-047/18:31:58.2001997-047/18:33:06.866
           00000000000000000000000000000000000000000000000000302048000 224180000200000

J5NNOPCAL_01J5NNOPCAL_01SDN03831584:00:003831584:12:01         CAL      3414 1 1 0 0 124 1 1 0 0 12401100 0000000000 0 0.00.0000
0000000                  048RT 1997-047/18:33:59.5331997-047/18:34:07.533
           00000000000000000000000000000000000000000000000000302048000 224180000200000

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Chapter 5 - Detailed Observation Designs

Contents

Introduction to Chapter 5

Detailed Observation Designs

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

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

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

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

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

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

Optical Calibration

ACTIVITY ID: E4NNOPCAL 01-
START TIME: 96-350/00:21:56.000

Activity ID: Orbit E4 Target N Inst N OAPEL OPCAL SeqNo 01 -

Title	Optical Calibration			Instrument	NIMS
Requestor	NIMS-SWG/J. HUI	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	E4C	Calendar Date	12/15/96	Week	51

Start	96-350/00:21:56.000
End	96-350/00:30:08.000
Duration	000/00:08:12.000

Top Label	E4NNOPCAL 01-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	217	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.

Also perform an Electronics Calibration of the NIMS instrument.

This ECAL was added to test Detector 8's electronics
in light of Detector 8's failure during C3.

The nominal OPCAL wavelength selection of detectors 1 and 2
was expanded to include detectors 7, 8 and 9.

Data Returned

Design Detail

Long Map
Gain State 4
Mirror Block 1B,1B (11011,11011) (select mirror positions 8-11)
ETB selects Detectors 1,2,7,8 and 9.
Select NIMS in Real Time for 5 RIMs.
Five Long Map grating cycles returned.
Rim 1 OPCAL
RIM 2 DARK
Rim 3 OPCAL
Rim 4 DARK
Rim 4 ECAL

Long Map (LM), Gain 4, Grating Start 0, RT, E4OPCAL120

Shield Heater Off/PCT Heaters On	ACTIVITY ID: E4NNSHDOFF01- START TIME: 96-350/02:33:38.000

Activity ID: Orbit E4 Target N Inst N OAPEL SHDOFF SeqNo 01 -

Title	Shield Heater Off/PCT Heaters On			Instrument	NIMS
Requestor	NIMS-SWG/J. HUI		Team NIMS	Working Group	SWG

Time System	CDS	Load ID E4A	Calendar Date	12/15/96	Week 50
Start	EEE-CDS 00005955:00:0	96-350/02:33:38.000		EEE-004/04:21:10.000	
End	EEE-CDS 00005951:00:0	96-350/02:37:40.667		EEE-004/04:17:07.333	
Duration	00000004:00:0	000/00:04:02.667		000/00:04:02.667	

Top Label	E4NNSHDOFF01-				
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

To turn off NIMS shield flash heater at least 48 hours before the first NIMS observation in E4.

Design Detail

NIMS chopper turn on

ACTIVITY ID: E4NNCHOPON01-
START TIME: 96-352/03:01:35.333

Activity ID: Orbit E4 Target N Inst N OAPEL CHOPON SeqNo 01 -

Title	NIMS chopper turn on			Instrument	NIMS
Requestor	NIMS-SWG/J. HUI	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	E4A	Calendar Date	12/17/96 Week 51

Start	JEE-CDS 00002870:00:0	96-352/03:01:35.333	JEE-002/00:21:53.333
End	JEE-CDS 00002860:00:0	96-352/03:11:42.000	JEE-002/00:11:46.666
Duration	00000010:00:0	000/00:10:06.667	000/00:10:06.667

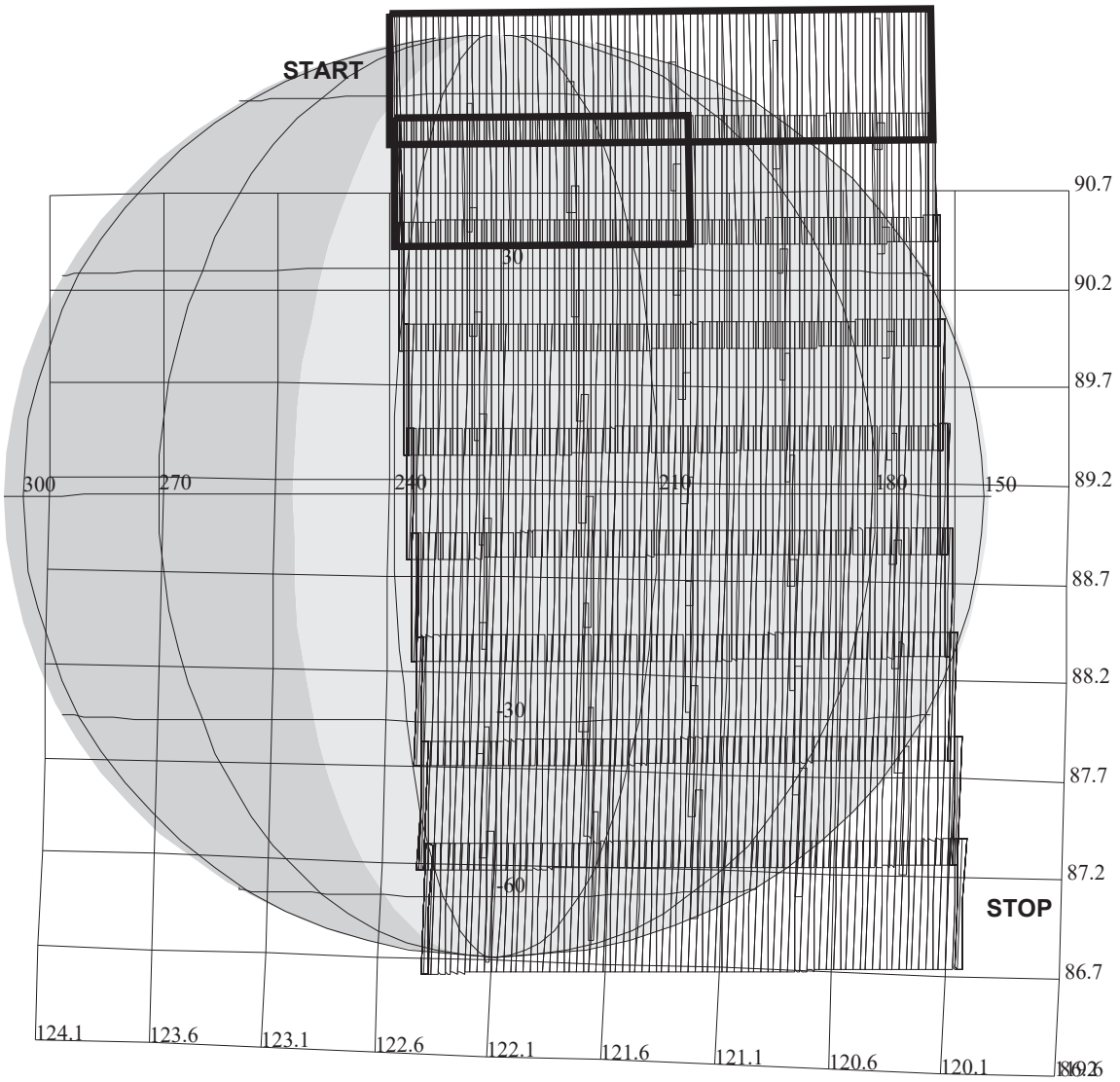
Top Label	E4NNNIMSON01-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	52	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

To turn the NIMS instrument chopper on and change its mode to REFERENCE.

Design Detail

Use two NIMS 37IST commands, the first to turn chopper on and the second to reference:
37IST,1,0,0,OFF,0,0,0 Choper 63 Hz
37IST,1,2,0,OFF,0,0,0 Chopper Reference
Also, issue a 37MB command to enable all mirror positions
37MB,0,0,0,0,0,0 (00000,00000)



165DA:TT= 0 TMC= 1 C= 3.00 XC= -3.00 BS= 0/2824 TC= 1(81 280)
A= 728 pD= 0 SR=17.450 RA50=227.54 DEC50=-17.86 cone=122.62 clock= 91.34
117DA:#SB= 1 OR= 0.750 RR=12.000 BM=F RC= 1 BS= 0/2824
1:#s= 9 Cs= -41.00 XCs= 0.00 Cr= 41.00 XCr= -8.00 sD= 172 rD= 30

E4JNGLOMOS01

TARGET G2.0 jdods:11/ 5/1996 16:32:16

FILE:P.E4JNGLOMOS01

CENTRAL BODY:JUPITER

MINI:m.target.e4.961105

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

PERIAPSIS:

THINNING:NIM 2

START:JEE 96-354/03:23:28.666 -CDS 2845:00:0

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

OBSERVATION:E4JNGLOMOS01

DESCRIP:E4_JUPITER_GLOBAL_MOSAIC_01

Jupiter Global Mosaic Prt 1 — ACTIVITY ID: E4JNGLOMOS01- — START TIME: 96-352/03:21:48.666

Activity ID: Orbit E4 Target J Inst N OAPEL GLOMOS SeqNo 01 -

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

Time System	CDS	Load ID	E4A	Calendar Date	12/17/96 Week 51
Start	JEE-CDS 00002850:00:0	96-352/03:21:48.666			JEE-002/00:01:40.000
End	JEE-CDS 00002835:14:0	96-352/03:36:49.333			JEE-001/23:46:39.333
Duration	00000014:77:0	000/00:15:00.667			000/00:15:00.667

Top Label E4JNGLOMOS01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	121	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Part 1 of 6 Jupiter global mosaics. Jupiter imaged in 5 colors (1.594, 2.156, 2.722, 3.0011, and 4.982 microns) using NIMS playback table JGM05A to obtain global maps depicting features at ~945 km/nimsel resolution. This map acquired near 227 degrees CML (system III) at a phase angle of ~ 65 degrees.

Data Returned

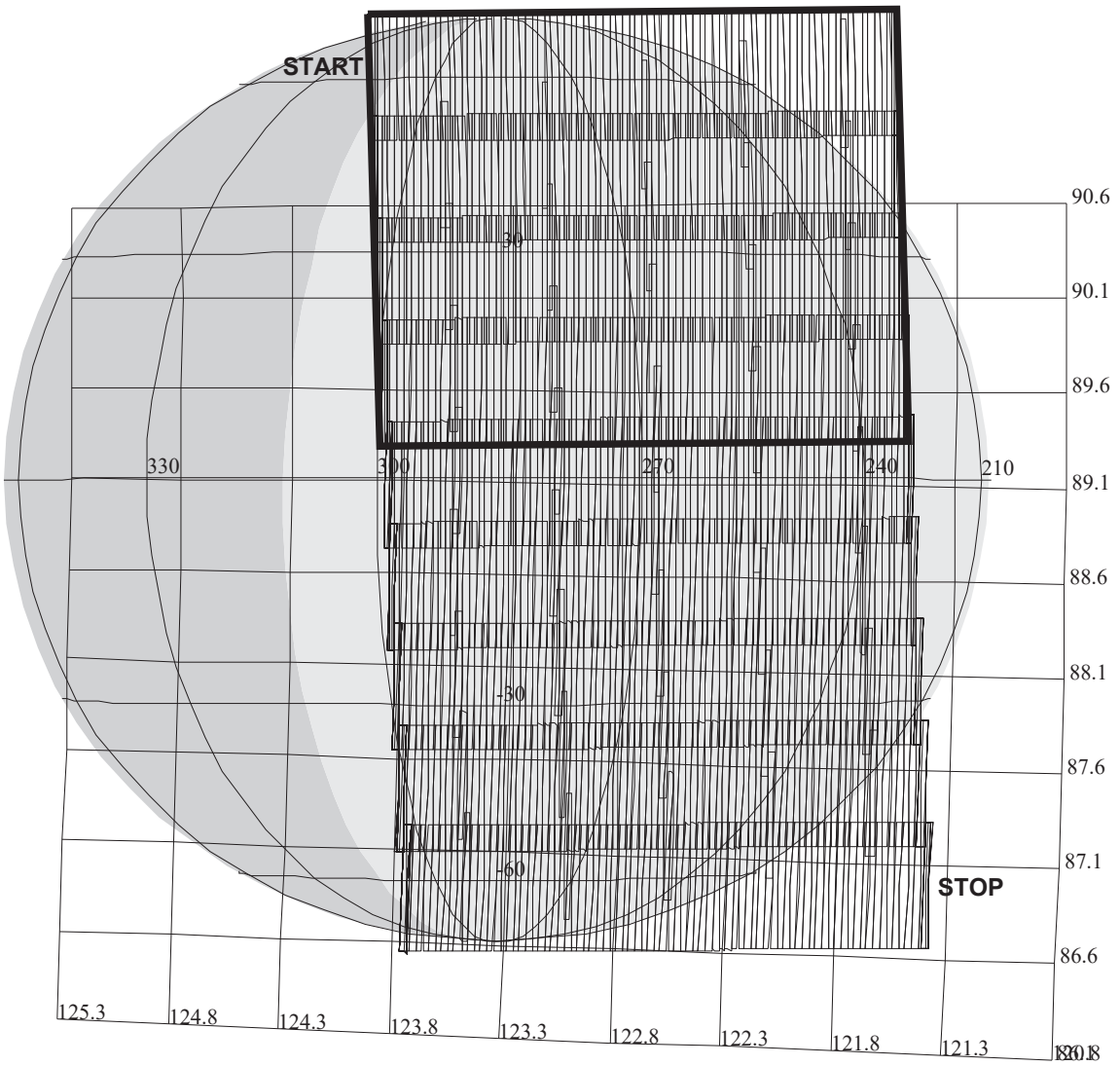
Design Detail

See OPG (page A-17). Fixed grating mode, in 1/2 NIMS mode, Nyquist sampling. 9 tiers, acquired near 1.883 million km, each covering pole-to-pole in N/S direction and about 1 fractional radius in the East-West direction (i.e., ~60 degrees of longitude at the Equator). About 10 minutes of scanning, accumulating 5.70 MBTG and 0.0202 tracks. 4 minutes reserved for targetting.
Wavelength table: JGM05A. TLM: LPU
Note: Only the first 272 secs of the scanning is returned, due to tape cuts, i.e., only the northern hemisphere is recorded.
Note 10/18/96: New solar conjunction playback constraints allow just a small portion of the 6 global mosaics to be played back. (Most likely, we will return about one-fourth of one GLOMOS.)

Only 1.5 swaths out of 9 returned (Northern Hemisphere)

Fixed Map (XM), Gain 2, Grating Start 5, LPU, E4JGM10A, E4JGM05A

Galileo Activity Plan Form 11/15/96 10:45:14 rev 6/95



165DB:TT= 0 TMC= 1 C= 3.00 XC= -4.00 BS= 0/0478 TC= 1(78 340)
A= 728 pD= 0 SR=17.450 RA50=228.86 DEC50=-18.24 cone=123.93 clock= 91.34
117DB:#SB= 1 OR= 0.750 RR=12.000 BM=F RC= 1 BS= 0/0478
1:#s= 9 Cs= -41.00 XCs= 0.00 Cr= 41.00 XCr= -8.00 sD= 172 rD= 30

E4JNGLOMOS02

TARGET G2.0 jdods:11/ 5/1996 16:32:16

FILE:P.E4JNGLOMOS02

CENTRAL BODY:JUPITER

MINI:m.target.e4.961105

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

PERIAPSIS:

THINNING:NIM 2

START:JEE 96-354/03:23:28.666 -CDS 2748:00:0

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

OBSERVATION:E4JNGLOMOS02

DESCRIP:E4_JUPITER_GLOBAL_MOSAIC_02

Jupiter Global Mosaic Prt 2 ACTIVITY ID: E4JNGLOMOS02-
START TIME: 96-352/04:59:53.333

Activity ID: Orbit E4 Target J Inst N OAPEL GLOMOS SeqNo 02 -

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

Time System	CDS	Load ID	E4A	Calendar Date	12/17/96 Week 51

Start	JEE-CDS 00002753:00:0	96-352/04:59:53.333	JEE-001/22:23:35.333
End	JEE-CDS 00002738:14:0	96-352/05:14:54.000	JEE-001/22:08:34.666
Duration	00000014:77:0	000/00:15:00.667	000/00:15:00.667

Top Label	E4JNGLOMOS02-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	121	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Part 2 of 6 Jupiter global mosaics. Jupiter imaged in 5 colors (1.594, 2.156, 2.722, 3.0011, and 4.982 microns) using NIMS playback table JGM05A to obtain global maps depicting features at ~945 km/nimsel resolution. This map acquired near 227 degrees CML (system III) at a phase angle of ~ 65 degrees.

Data Returned

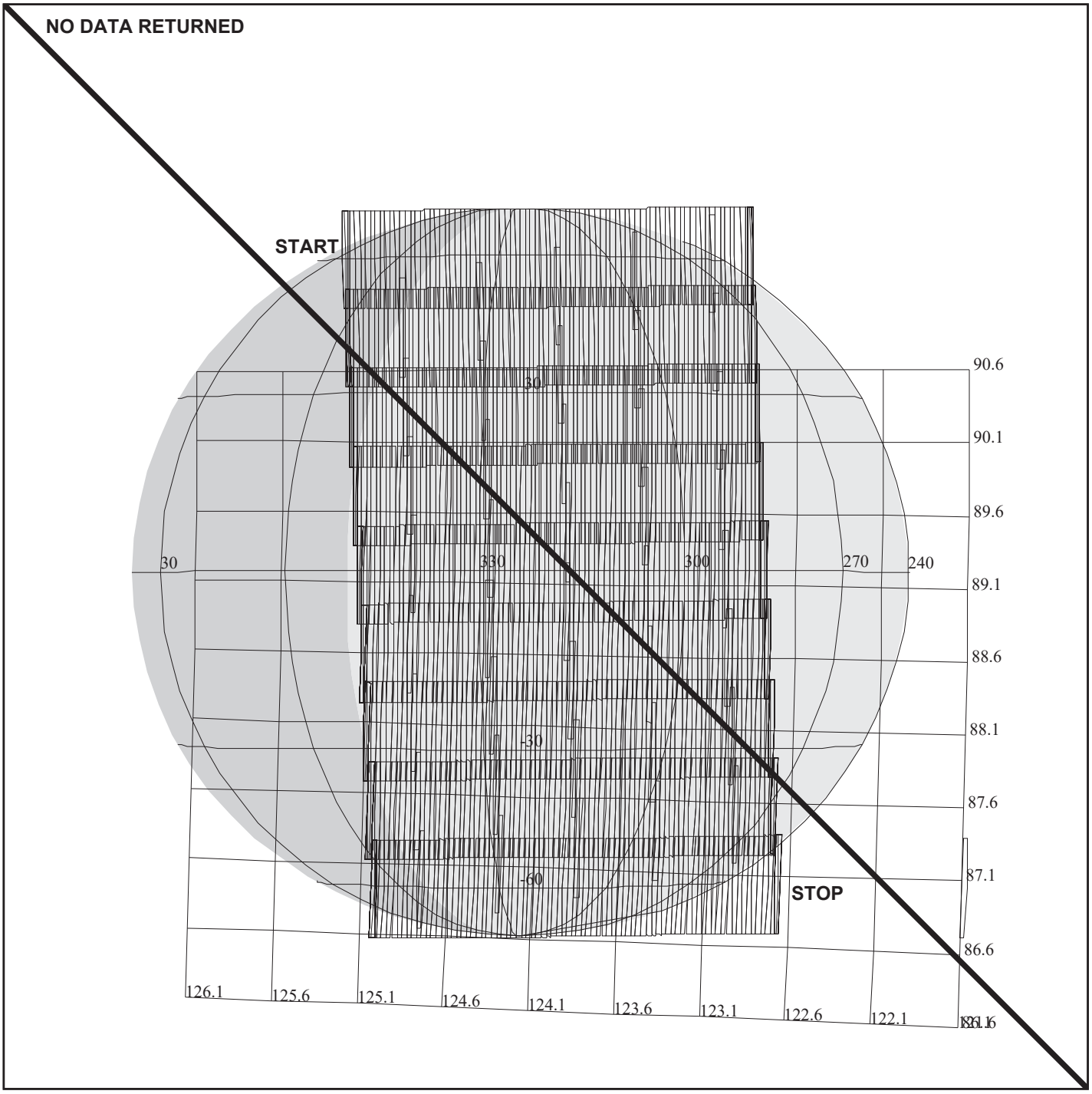
Design Detail

About 10 minutes of scanning, accumulating 5.70 MBTG and 0.0202 tracks.
4 minutes reserved for targetting. Wavelength table: JGM05A. TLM: LPU
Note: Only the first 272 secs of the scanning is returned, due to tape cuts, i.e., only the northern hemisphere is recorded.
Note 10/18/96: New solar conjunction playback constraints allow just a small portion of the 6 global mosaics to be played back. (Most likely, we will return about one-fourth of one GLOMOS.)

Only 4 out of 9 swaths returned (Norther Hemisphere)

Fixed Map (XM), Gain 2, Grating Start 5, LPU, E4JGM10A, E4JGM05A

Galileo Activity Plan Form 11/15/96 10:45:14 rev 6/95



165DC:TT= 0 TMC= 1 C= 10.00 XC= -4.00 BS= 0/1944 TC= 1(75 10)
A= 728 pD= 0 SR=17.450 RA50=230.14 DEC50=-18.57 cone=125.20 clock= 91.37
117DC:#SB= 1 OR= 0.750 RR=12.000 BM=F RC= 1 BS= 0/1944
1:#s= 9 Cs= -41.00 XCs= 0.00 Cr= 41.00 XCr= -8.00 sD= 172 rD= 30

E4JNGLOMOS03

TARGET G2.0 jdods:11/ 5/1996 16:32:16

FILE:P.E4JNGLOMOS03

CENTRAL BODY:JUPITER

MINI:m.target.e4.961105

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

PERIAPSIS: **THINNING:NIM 2**

START:JEE 96-354/03:23:28.666 -CDS 2685:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750**

OBSERVATION:E4JNGLOMOS03 **DESCRIP:E4_JUPITER_GLOBAL_MOSAIC_03**

Jupiter Global Mosaic Prt 3 — ACTIVITY ID: E4JNGLOMOS03- — START TIME: 96-352/06:03:35.333

Activity ID: Orbit E4 Target J Inst N OAPEL GLOMOS SeqNo 03 -

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

Time System	CDS	Load ID	E4A	Calendar Date	12/17/96 Week 51
Start	JEE-CDS 00002690:00:0	96-352/06:03:35.333			JEE-001/21:19:53.333
End	JEE-CDS 00002675:14:0	96-352/06:18:36.000			JEE-001/21:04:52.666
Duration	00000014:77:0	000/00:15:00.667			000/00:15:00.667

Top Label E4JNGLOMOS03-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	121	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Part 3 of 6 Jupiter global mosaics. Jupiter imaged in 5 colors (1.594, 2.156, 2.722, 3.0011, and 4.982 microns) using NIMS playback table JGM05A to obtain global maps depicting features at ~945 km/nimsel resolution. This map acquired near 227 degrees CML (system III) at a phase angle of ~ 65 degrees.

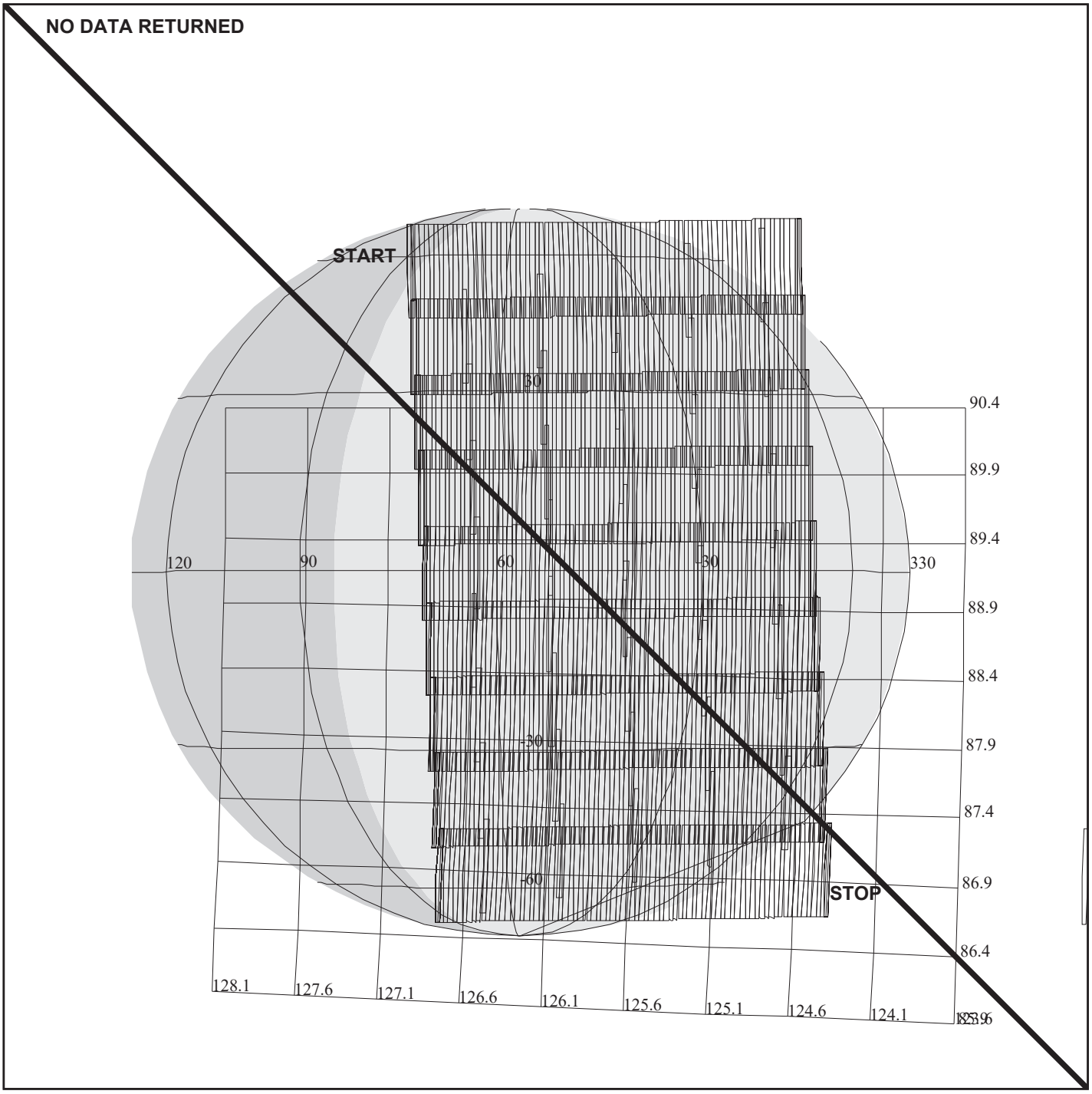
No Data Returned

Design Detail

About 10 minutes of scanning, accumulating 5.70 MBTG and 0.0202 tracks.
4 minutes reserved for targetting. Wavelength table: JGM05A. TLM: LPU
Note: Only the first 272 secs of the scanning is returned, due to tape cuts, i.e., only the northern hemisphere is recorded.
Note 10/18/96: New solar conjunction playback constraints allow just a small portion of the 6 global mosaics to be played back. (Most likely, we will return about one-fourth of one GLOMOS.)

Fixed Map (XM), Gain 2, Grating Start 5, LPU, E4JGM10A, E4JGM05A

Galileo Activity Plan Form 11/15/96 10:45:14 rev 6/95



165DD:TT= 0 TMC= 1 C= 8.00 XC= -5.50 BS= 0/0154 TC= 1(75 76)
A= 728 pD= 0 SR=17.450 RA50=231.94 DEC50=-19.00 cone=126.95 clock= 91.43
117DD:#SB= 1 OR= 0.750 RR=12.000 BM=F RC= 1 BS= 0/0154
1:#s= 9 Cs= -41.00 XCs= 0.00 Cr= 41.00 XCr= -8.00 sD= 172 rD= 30

E4JNGLOMOS04

TARGET G2.0 jdods:11/ 5/1996 16:32:16

FILE:P.E4JNGLOMOS04

CENTRAL BODY:JUPITER

MINI:m.target.e4.961105

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

PERIAPSIS:

THINNING:NIM 2

START:JEE 96-354/03:23:28.666 -CDS 2530:00:0

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

OBSERVATION:E4JNGLOMOS04

DESCRIP:E4_JUPITER_GLOBAL_MOSAIC_04

Jupiter Global Mosaic Prt 4 ACTIVITY ID: E4JNGLOMOS04-
START TIME: 96-352/08:40:18.666

Activity ID: Orbit E4 Target J Inst N OAPEL GLOMOS SeqNo 04 -

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

Time System CDS Load ID E4A Calendar Date 12/17/96 Week 51

Start	JEE-CDS 00002535:00:0	96-352/08:40:18.666	JEE-001/18:43:10.000
End	JEE-CDS 00002520:14:0	96-352/08:55:19.333	JEE-001/18:28:09.333
Duration	00000014:77:0	000/00:15:00.667	000/00:15:00.667

Top Label E4JNGLOMOS04-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	121	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Part 4 of 6 Jupiter global mosaics. Jupiter imaged in 5 colors (1.594, 2.156, 2.722, 3.0011, and 4.982 microns) using NIMS playback table JGM05A. to obtain global maps depicting features at ~945 km/nimsel resolution. This map acquired near 227 degrees CML (system III) at a phase angle of ~ 65 degrees.

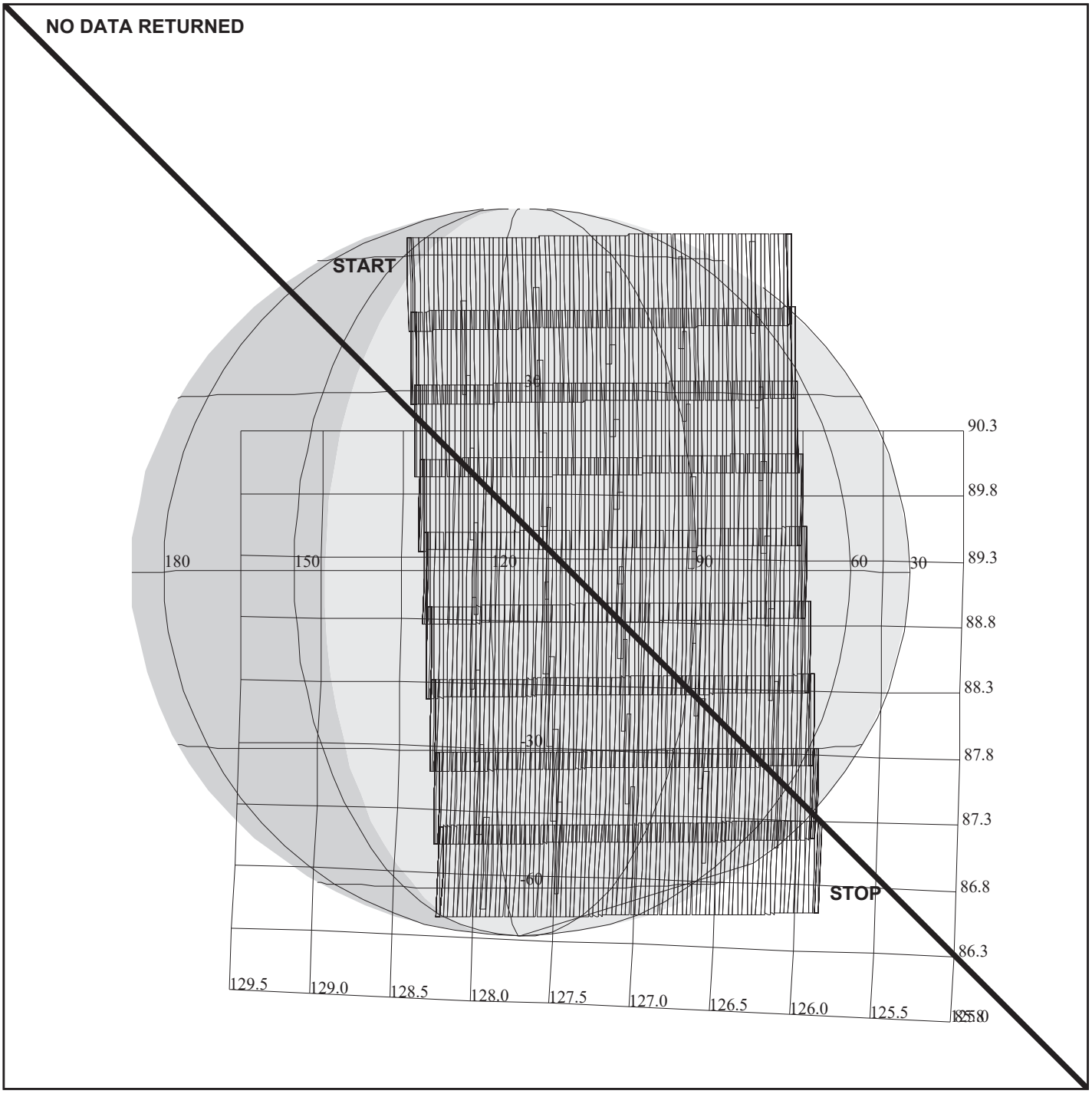
No Data Returned

Design Detail

About 10 minutes of scanning, accumulating 5.70 MBTG and 0.0202 tracks.
4 minutes reserved for targetting. Wavelength table: JGM05A. TLM: LPU
Note: Only the first 272 secs of the scanning is returned, due to tape cuts, i.e., only the northern hemisphere is recorded.
Note 10/18/96: New solar conjunction playback constraints allow just a small portion of the 6 global mosaics to be played back. (Most likely, we will return about one-fourth of one GLOMOS.)

Fixed Map (XM), Gain 2, Grating Start 5, LPU, E4JGM10A, E4JGM05A

Galileo Activity Plan Form 11/15/96 10:45:14 rev 6/95



165DE:TT= 0 TMC= 1 C= 3.00 XC= -7.00 BS= 0/8172 TC= 1(75 167)
A= 728 pD= 0 SR=17.450 RA50=233.43 DEC50=-19.38 cone=128.41 clock= 91.43
117DE:#SB= 1 OR= 0.750 RR=12.000 BM=F RC= 1 BS= 0/8172
1:#s= 9 Cs= -41.00 XCs= 0.00 Cr= 41.00 XCr= -8.00 sD= 172 rD= 30

E4JNGLOMOS05

TARGET G2.0 jdods:11/ 5/1996 16:32:16

FILE:P.E4JNGLOMOS05

CENTRAL BODY:JUPITER

MINI:m.target.e4.961105

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

PERIAPSIS: **THINNING:NIM 2**

START:JEE 96-354/03:23:28.666 -CDS 2431:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750**

OBSERVATION:E4JNGLOMOS05 **DESCRIP:E4_JUPITER_GLOBAL_MOSAIC_05**

Jupiter Global Mosaic Prt 5 ACTIVITY ID: E4JNGLOMOS05-
START TIME: 96-352/10:20:24.666

Activity ID: Orbit E4 Target J Inst N OAPEL GLOMOS SeqNo 05 -

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

Time System CDS Load ID E4A Calendar Date 12/17/96 Week 51

Start	JEE-CDS 00002436:00:0	96-352/10:20:24.666	JEE-001/17:03:04.000
End	JEE-CDS 00002421:21:0	96-352/10:35:20.666	JEE-001/16:48:08.000
Duration	00000014:70:0	000/00:14:56.000	000/00:14:56.000

Top Label E4JNGLOMOS05-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	121	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Part 5 of 6 Jupiter global mosaics. Jupiter imaged in 5 colors (1.594, 2.156, 2.722, 3.0011, and 4.982 microns) using NIMS playback table JGM05A. to obtain global maps depicting features at ~945 km/nimsel resolution. This map acquired near 227 degrees CML (system III) at a phase angle of ~ 65 degrees.

No Data Returned

Design Detail

About 10 minutes of scanning, accumulating 5.70 MBTG and 0.0202 tracks.
4 minutes reserved for targetting. Wavelength table: JGM05A. TLM: LPU
Note: Only the first 272 secs of the scanning is returned, due to tape cuts, i.e., only the northern hemisphere is recorded.
Note 10/18/96: New solar conjunction playback constraints allow just a small portion of the 6 global mosaics to be played back. (Most likely, we will return about one-fourth of one GLOMOS.)

Fixed Map (XM), Gain 2, Grating Start 5, LPU, E4JGM10A, E4JGM05A

Galileo Activity Plan Form 11/15/96 10:45:14 rev 6/95

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E4 Health 1

ACTIVITY ID: E4NNHEALTH01-
START TIME: 96-352/10:35:24.667

Activity ID: Orbit E4 Target N Inst N OAPEL HEALTH SeqNo 01 -

Title	E4 Health 1			Instrument	NIMS
Requestor	NIMS-SWG/J. HUI	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	E4A	Calendar Date	12/17/96 Week 51
Start	EEE-CDS 00002630:15:0	96-352/10:35:24.667		EEE-001/20:19:23.333	
End	EEE-CDS 00002627:00:0	96-352/10:38:36.667		EEE-001/20:16:11.333	
Duration	00000003:15:0	000/00:03:12.000		000/00:03:12.000	

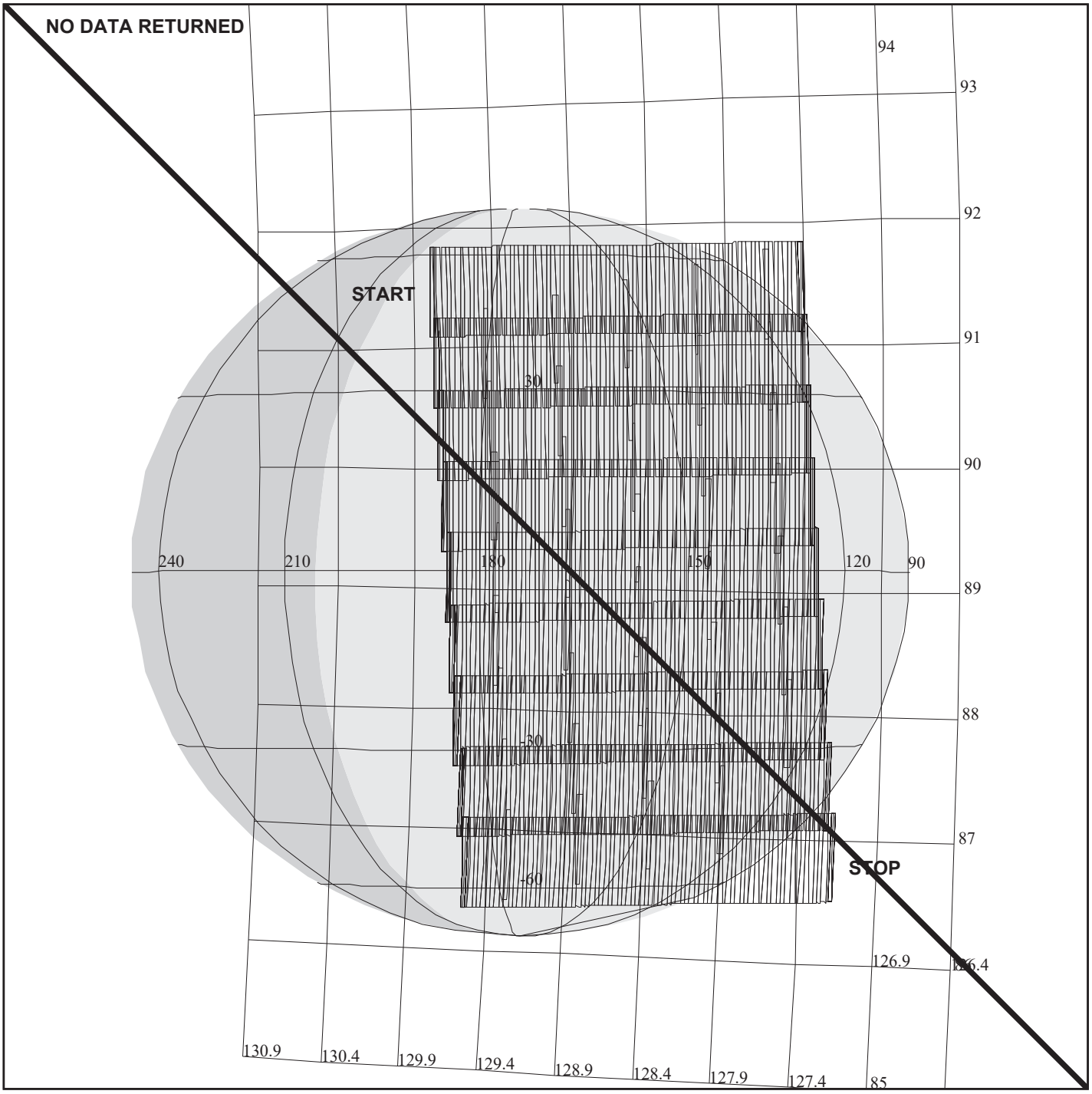
Top Label	E4NNHEALTH01-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	100	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	No

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.

Design Detail

Long Map (LM), Gain 2, Grating Start 0, RT, E4RECVY3



165DF:TT= 0 TMC= 1 C= -1.00 XC= -8.00 BS= 0/6008 TC= 1(75 240)
A= 728 pD= 0 SR=17.450 RA50=234.86 DEC50=-19.70 cone=129.79 clock= 91.47
117DF:#SB= 1 OR= 0.750 RR=12.000 BM=F RC= 1 BS= 0/6008
1:#s= 9 Cs= -41.00 XCs= 0.00 Cr= 41.00 XCr= -8.00 sD= 172 rD= 30

E4JNGLOMOS06

TARGET G2.0 jdods:11/ 5/1996 16:32:16

FILE:P.E4JNGLOMOS06

CENTRAL BODY:JUPITER

MINI:m.target.e4.961105

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

PERIAPSIS:

THINNING:NIM 2

START:JEE 96-354/03:23:28.666 -CDS 2333:00:0

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

OBSERVATION:E4JNGLOMOS06

DESCRIP:E4_JUPITER_GLOBAL_MOSAIC_06

Jupiter Global Mosaic Prt 5 ACTIVITY ID: E4JNGLOMOS06-
START TIME: 96-352/11:59:30.000

Activity ID: Orbit E4 Target J Inst N OAPEL GLOMOS SeqNo 06 -

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

Time System CDS Load ID E4A Calendar Date 12/17/96 Week 51

Start	JEE-CDS 00002338:00:0	96-352/11:59:30.000	JEE-001/15:23:58.666
End	JEE-CDS 00002323:17:0	96-352/12:14:28.666	JEE-001/15:09:00.000
Duration	00000014:74:0	000/00:14:58.666	000/00:14:58.666

Top Label E4JNGLOMOS06-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	121	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Part 6 of 6 Jupiter global mosaics. Jupiter imaged in 5 colors (1.594, 2.156, 2.722, 3.0011, and 4.982 microns) using NIMS playback table JGM05A. to obtain global maps depicting features at ~945 km/nimsel resolution. This map acquired near 227 degrees CML (system III) at a phase angle of ~ 65 degrees.

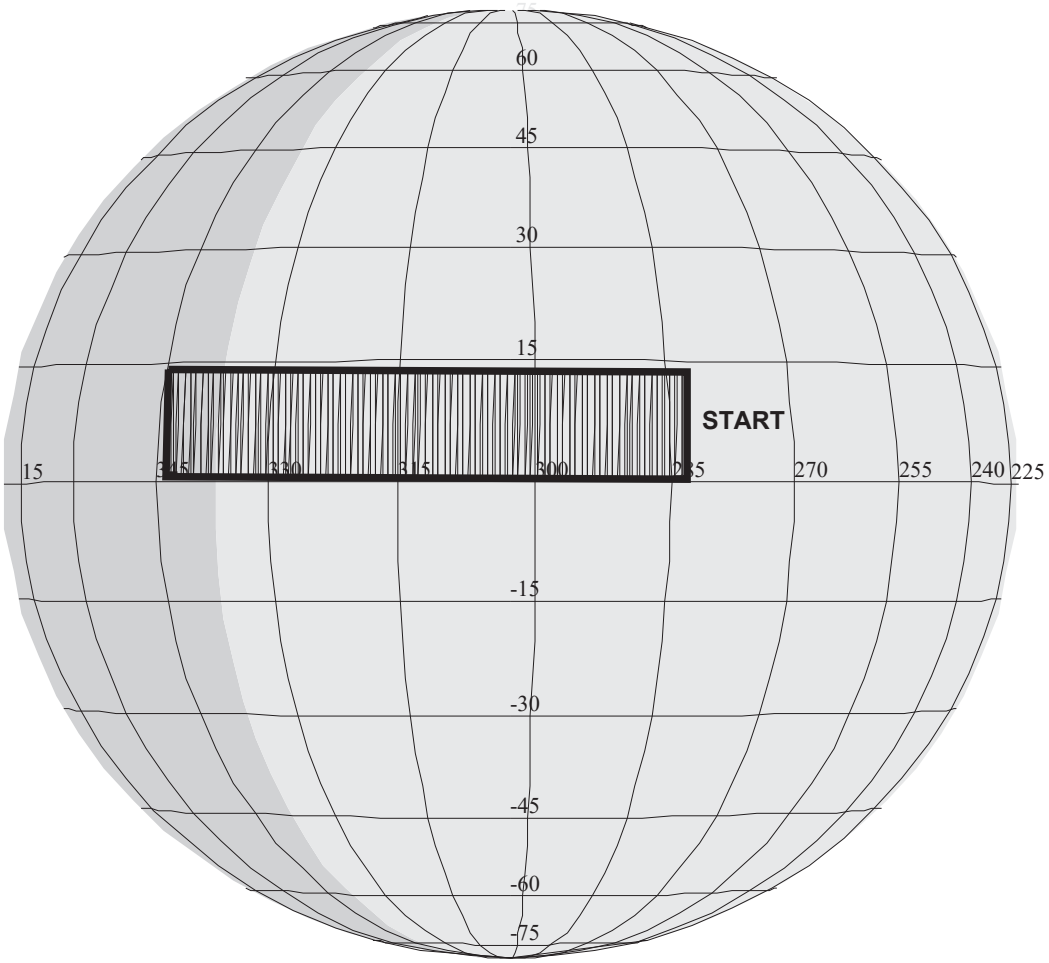
No Data Returned

Design Detail

About 10 minutes of scanning, accumulating 5.70 MBTG and 0.0202 tracks.
4 minutes reserved for targetting. Wavelength table: JGM05A. TLM: LPU
Note: Only the first 272 secs of the scanning is returned, due to tape cuts, i.e., only the northern hemisphere is recorded.
Note 10/18/96: New solar conjunction playback constraints allow just a small portion of the 6 global mosaics to be played back. (Most likely, we will return about one-fourth of one GLOMOS.)

Fixed Map (XM), Gain 2, Grating Start 5, LPU, E4JGM10A, E4JGM05A

Galileo Activity Plan Form 11/15/96 10:45:15 rev 6/95



165DG:TT= 0 TMC= 1 C= -38.00 XC= -3.50 BS= 0/5320 TC= 1(12 330)
A= 728 pD= 0 SR=17.450 RA50=236.75 DEC50=-21.62 cone=131.96 clock= 89.55
117DG:#SB= 1 OR= 0.120 RR=12.000 BM=F RC= 1 BS= 0/5320
1:#s= 1 Cs= 47.50 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 1192 rD= 2

E4JNFEA05501

TARGET G2.0 jdods:11/ 5/1996 16:32:16

FILE:P.E4JNFEA05501

CENTRAL BODY:JUPITER

MINI:m.target.e4.961105

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

PERIAPSIS: **THINNING:NIM 2**

START:JFC 96-353/02:52:18.733 -CDS 0662:00:0 **BODY PLOT TIME:END-TIME D= 0 S= 0.750**

OBSERVATION:E4JNFEA05501 **DESCRIP:E4_FEAT_CAMP_55_PHASE_01**

Jupiter Camp. feat. 55 deg. phase Prt 1 ACTIVITY ID: E4JNFEA05501-
START TIME: 96-352/15:37:54.067

Activity ID: Orbit E4 Target J Inst N OAPEL FEA055 SeqNo 01 -

Title	Jupiter Camp. feat. 55 deg. phase Prt 1	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS Working Group AWG

Time System	CDS	Load ID	E4A	Calendar Date	12/17/96 Week 51
Start	JFC-CDS	00000667:00:0	96-352/15:37:54.067		JFC-000/11:14:24.666
End	JFC-CDS	00000655:00:0	96-352/15:50:02.067		JFC-000/11:02:16.666
Duration		00000012:00:0	000/00:12:08.000		000/00:12:08.000

Top Label	E4JNFEA05501-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	121	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of 20 OAPELs constituting the feature tracks for this feature campaign. This is the first observation obtained on a rotation with phase angle approximately 55 degrees. Jupiter imaged in 4 colors, using NIMS downlink wavelength table JFT04A. This observation acquired with feature (a region of hot spots) near the terminator, assuming feature coordinates 7.0 degrees North latitude and 331 degrees West longitude (System III).

Data Returned

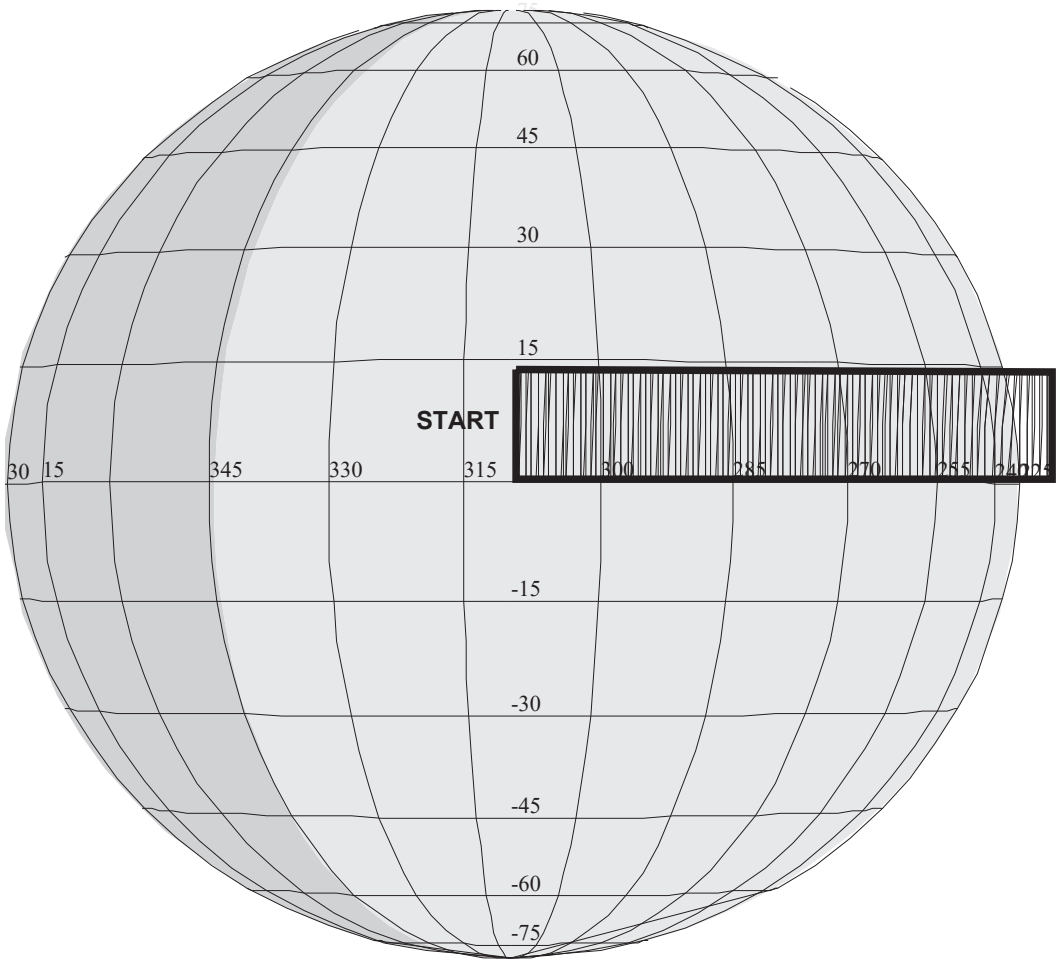
Design Detail

Shortmap, Nyquist-sampled observation of 4*1 (40*10 mrad) area centered on hot spot near 331 degrees West longitude, 7.0 degrees North latitude. S/C distance about 1.47 million KM, NIMS IFOV (NIMSEL) = 735 KM; 4*1 mosaic covers 58800*14700 KM. About 400 seconds of scanning, accumulating 0.1022 MBTG in 4 colors, and using 0.01344 tracks. 4 minutes reserved for targetting. Wavelength table: JFT04A, TLM: LPU
Note 10/18/96: This and other feature track OAPELs account for the 100.3 m/sec (-7 degrees per day) zonal windfield.

A detector 8 wavelength was added to the playback edit table E4JFT04A, making E4JFT05A, to monitor the failed detector 8.

Short Map (SM), Gain 2, Grating Start 1, LPU, E4JFT68A, E4JFT05A

Galileo Activity Plan Form 11/15/96 10:45:15 rev 6/95



165DH:TT= 0 TMC= 1 C= -17.00 XC= -3.50 BS= 0/7504 TC= 1(12 330)
A= 728 pD= 0 SR=17.450 RA50=237.93 DEC50=-21.86 cone=133.08 clock= 89.56
117DH:#SB= 1 OR= 0.120 RR=12.000 BM=F RC= 1 BS= 0/7504
1:#s= 1 Cs= -47.50 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 1192 rD= 2

E4JNFEA05502

TARGET G2.0 jdods:11/ 5/1996 16:32:16

FILE:P.E4JNFEA05502

CENTRAL BODY:JUPITER

MINI:m.target.e4.961105

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

PERIAPSIS: **THINNING:NIM 2**

START:JFC 96-353/02:52:18.733 -CDS 650:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750**

OBSERVATION:E4JNFEA05502 **DESCRIP:E4_FEAT_CAMP_55_PHASE_02**

Jupiter Camp. feat. 55 deg. phase Prt 2 ACTIVITY ID: E4JNFEA05502-
START TIME: 96-352/15:50:29.400

Activity ID: Orbit E4 Target J Inst N OAPEL FEA055 SeqNo 02 -

Title	Jupiter Camp. feat. 55 deg. phase Prt 2	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS Working Group AWG

Time System	CDS	Load ID	E4A	Calendar Date	12/17/96 Week 51
Start	JFC-CDS	00000654:50:0	96-352/15:50:29.400		JFC-000/11:01:49.333
End	JFC-CDS	00000643:00:0	96-352/16:02:10.067		JFC-000/10:50:08.666
Duration		00000011:50:0	000/00:11:40.667		000/00:11:40.667

Top Label	E4JNFEA05502-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	121	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of 20 OAPELs constituting the feature tracks for this feature campaign. This is the second observation obtained on a rotation with phase angle approximately 55 degrees. Jupiter imaged in 4 colors, using NIMS downlink wavelength table JFT04A. This observation acquired with feature (a region of hot spots) near the central meridian, assuming feature coordinates 7.0 degrees North latitude and 331 degrees West longitude (System III).

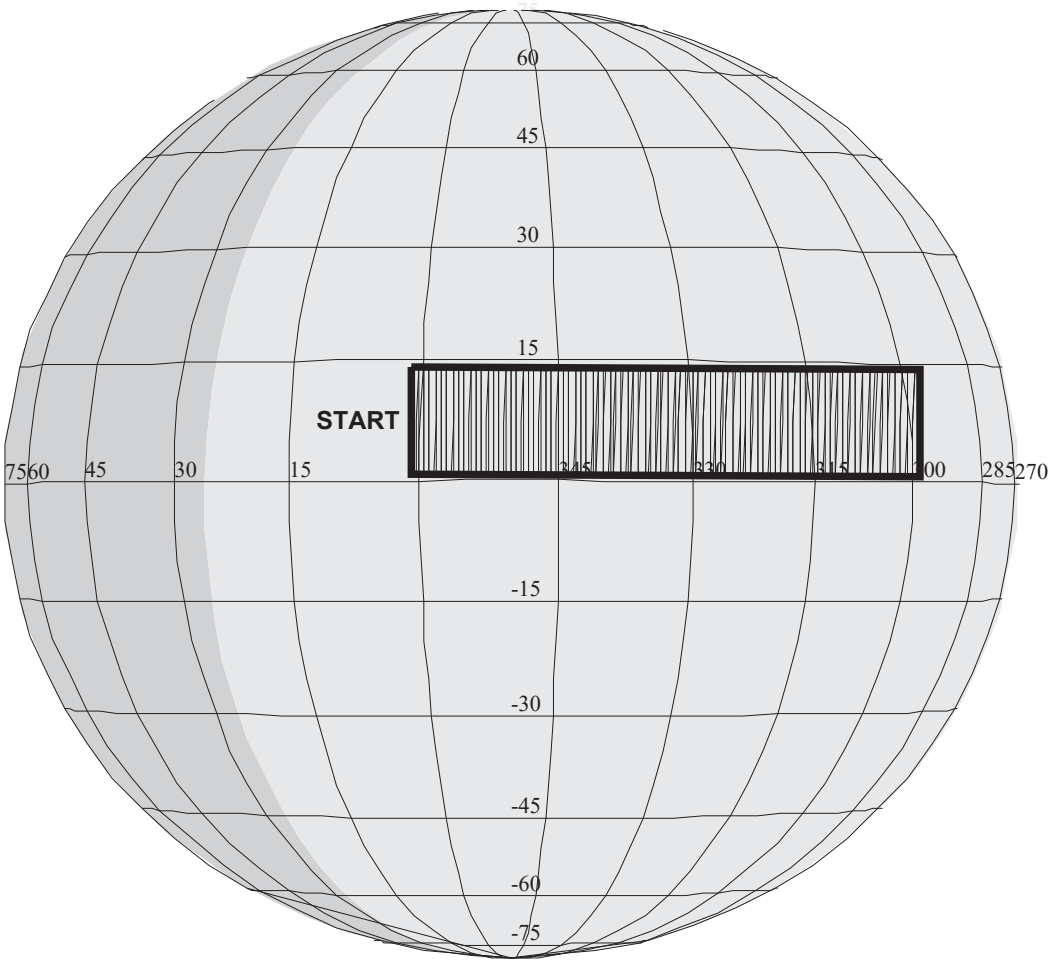
Data Returned

Design Detail

Shortmap, Nyquist-sampled observation of 4*1 (40*10 mrad) area centered on hot spot near 331 degrees West longitude, 7.0 degrees North latitude.
S/C distance about 1.46 million KM, NIMS IFOV (NIMSEL) = 730 KM;
4*1 mosaic covers 58400*14600 KM. About 400 seconds of scanning, accumulating 0.1022 MBTG in 4 colors, and using 0.01344 tracks.
4 minutes reserved for targetting. Wavelength table: JFT04A, TLM: LPU
Note 10/18/96: This and other feature track OAPELs account for the 100.3 m/sec (-7 degrees per day) zonal windfield.

Short Map (SM), Gain 2, Grating Start 1, LPU, E4JFT68A, E4JFT04A

Galileo Activity Plan Form 11/15/96 10:45:15 rev 6/95



165DI:TT= 0 TMC= 1 C= 26.00 XC= -3.50 BS= 0/9880 TC= 1(12 330)
A= 728 pD= 0 SR=17.450 RA50=239.85 DEC50=-22.20 cone=134.90 clock= 89.60
117DI:#SB= 1 OR= 0.120 RR=12.000 BM=F RC= 1 BS= 0/9880
1:#s= 1 Cs= -47.50 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 1192 rD= 2

E4JNFEA05503

TARGET G2.0 jdods:11/ 5/1996 16:32:16

FILE:P.E4JNFEA05503

CENTRAL BODY:JUPITER

MINI:m.target.e4.961105

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

PERIAPSIS: **THINNING:NIM 2**

START:JFC 96-353/02:52:18.733 -CDS 582:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750**

OBSERVATION:E4JNFEA05503 **DESCRIP:E4_FEAT_CAMP_55_PHASE_03**

Jupiter Camp. feat. 55 deg. phase Prt 3 ACTIVITY ID: E4JNFEA05503-
START TIME: 96-352/16:58:47.400

Activity ID: Orbit E4 Target J Inst N OAPEL FEA055 SeqNo 03 -

Title	Jupiter Camp. feat. 55 deg. phase Prt 3	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS Working Group AWG

Time System CDS Load ID E4A Calendar Date 12/17/96 Week 51

Start	JFC-CDS 00000587:00:0	96-352/16:58:47.400	JFC-000/09:53:31.333
End	JFC-CDS 00000575:00:0	96-352/17:10:55.400	JFC-000/09:41:23.333
Duration	00000012:00:0	000/00:12:08.000	000/00:12:08.000

Top Label E4JNFEA05503-
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 20 OAPELs constituting the feature tracks for this feature campaign. This is the third observation obtained on a rotation with phase angle approximately 55 degrees. Jupiter imaged in 4 colors, using NIMS downlink wavelength table JFT04A. This observation acquired with feature (a region of hot spots) near minimum airmass, assuming feature coordinates 7.0 degrees North latitude and 331 degrees West longitude (System III).

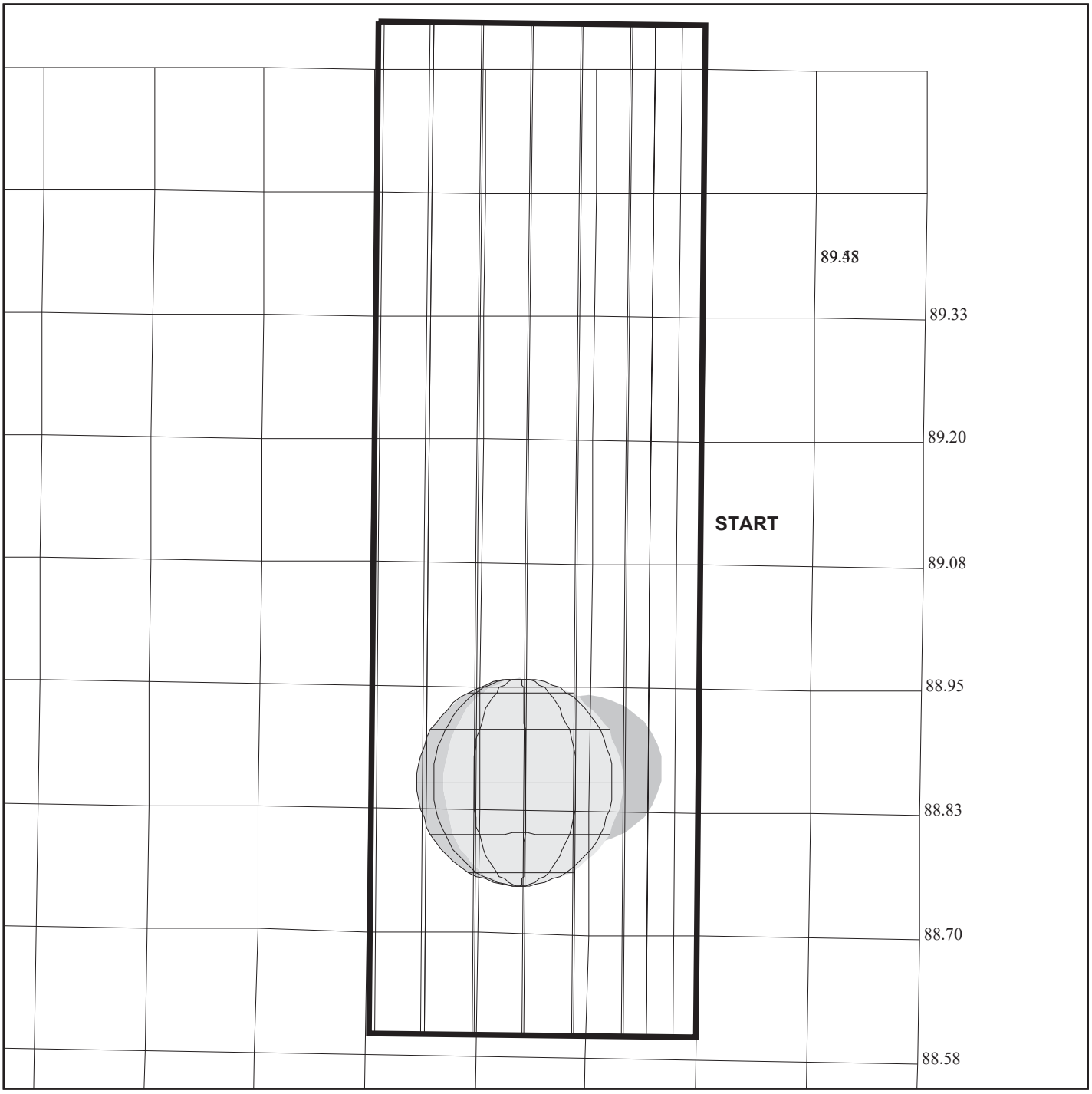
Data Returned

Design Detail

Shortmap, Nyquist-sampled observation of 4*1 (40*10 mrad) area centered on hot spot near 331 degrees West longitude, 7.0 degrees North latitude. S/C distance about 1.43 million KM, NIMS IFOV (NIMSEL) = 715 KM; 4*1 mosaic covers 57200*14300 KM. About 400 seconds of scanning, accumulating 0.1022 MBTG in 4 colors, and using 0.01344 tracks. 4 minutes reserved for targetting. Wavelength table: JFT04A, TLM: LPU
Note 10/18/96: This and other feature track OAPELs account for the 100.3 m/sec (-7 degrees per day) zonal windfield.

Short Map (SM), Gain 2, Grating Start 1, LPU, E4JFT68A, E4JFT04A

Galileo Activity Plan Form 11/15/96 10:45:15 rev 6/95



165DK:TT= 0 TMC= 1 C= -1.50 XC= 2.50 BS= 0/2630 TC= 3
A= 728 pD= 1632 SR=17.450 RA50=251.63 DEC50=-24.23 cone=145.90 clock= 89.11
117DK:#SB= 1 OR= 0.750 RR= 1.400 BM=F RC= 1 BS= 0/2630
1:#s= 28 Cs= 2.80 XCs= 0.00 Cr= -2.61 XCr= 0.00 sD= 26 rD= 16

E4INCOOLCV01

TARGET G2.0 jdods:11/ 5/1996 16:32:16

FILE:P.E4INCOOLCV01

TARGET BODY : IO

MINI:m.target.e4.961105

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

PERIAPSIS: **THINNING:NIM 2**

START:IEE 96-353/21:36:40.066 -CDS 1569:00:0 **BODY PLOT TIME:START-TIME D= 1632 S= 0.200**

OBSERVATION:E4INCOOLCV01 **DESCRIP:ECLIPSE INGRESS**

NIMS Io Eclipse Observation (ingress) ACTIVITY ID: E4INCOOLCV01-
START TIME: 96-352/19:05:10.733

Activity ID: Orbit E4 Target I Inst N OAPEL COOLCV SeqNo 01 -

Title	NIMS Io Eclipse Observation (ingress)	Instrument	NIMS
Requestor	NIMS-SWG/R. LOPES	Team NIMS	Working Group SWG

Time System CDS Load ID E4A Calendar Date 12/17/96 Week 51

Start	IEE-CDS 00001574:00:0	96-352/19:05:10.733	IEE-001/02:31:29.333
End	IEE-CDS 00001560:00:0	96-352/19:19:20.066	IEE-001/02:17:20.000
Duration	00000014:00:0	000/00:14:09.333	000/00:14:09.333

Top Label E4INCOOLCV01-
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 investigate cooling of hot spots on Io's surface as Io is eclipsed by Jupiter.

Data Returned

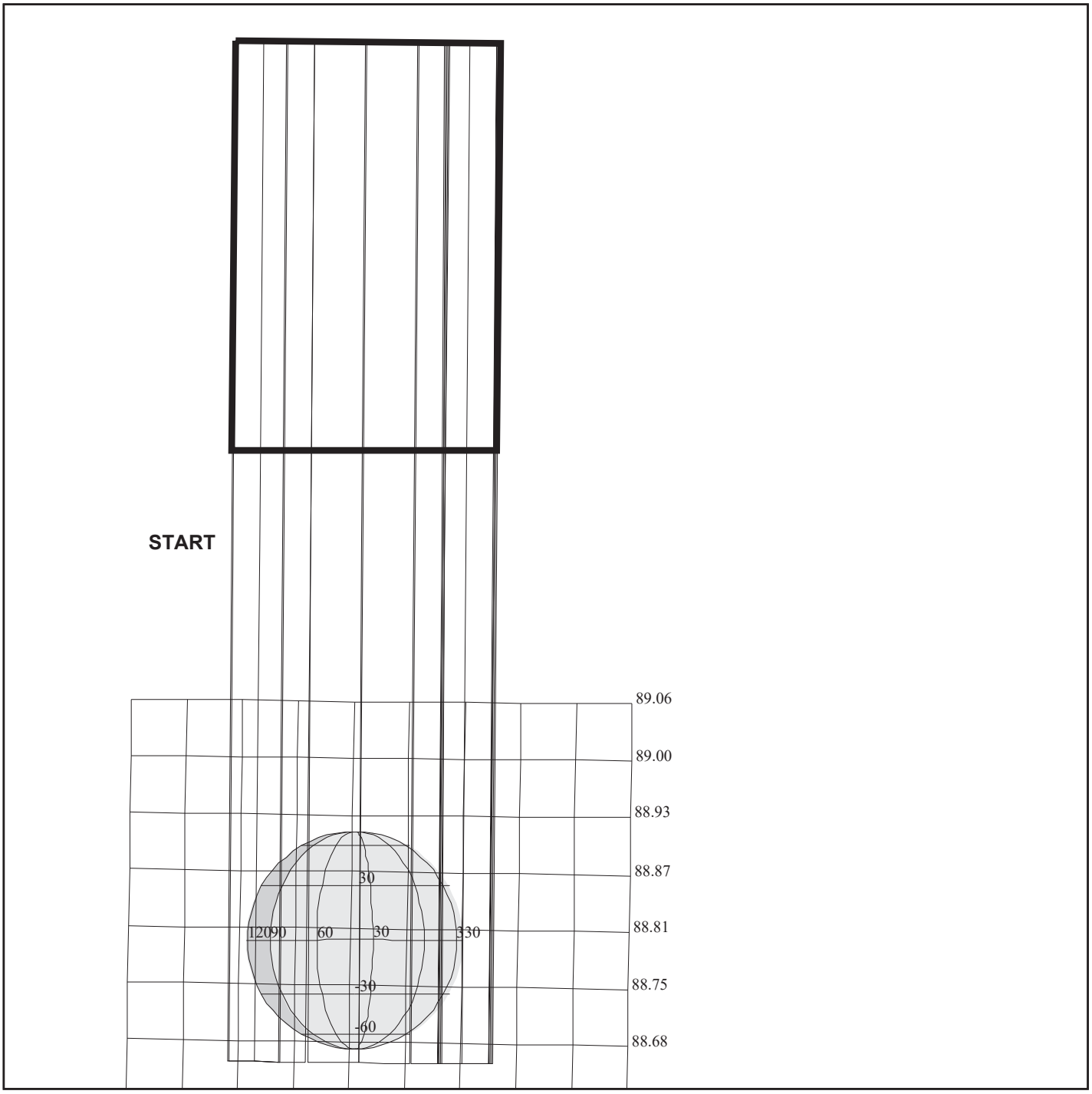
Design Detail

Instrument mode: Fixed Map
Number of wavelengths: 10
Wavelengths P/B: 10
Wavelength table: IXM10
Scan back and forth across disc, 28 times.
TLM: LPU

Swath numbers 2 (A), 5 (B), 10 (C), 19 (D) and 27 (E) selected, but only swaths A, D and E were received on Earth; other 2 lost due to playback gaps.

Fixed Map (XM), Gain 4, Grating Start 21, LPU, E4IXM10B, E4IXM10B

Galileo Activity Plan Form 11/15/96 10:45:15 rev 6/95



165FR:TT= 0 TMC= 1 C= 1.00 XC= 3.80 BS= 0/5188 TC= 3
A= 728 pD= 0 SR=17.450 RA50=255.40 DEC50=-24.51 cone=149.35 clock= 89.22
117FR:#SB= 1 OR= 0.750 RR=12.000 BM=F RC= 1 BS= 0/5188
1:#s= 1 Cs= -2.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 20 rD= 2

E4INRTIMON01

TARGET G2.0 jdods:11/ 5/1996 16:32:16

FILE:P.E4INRTIMON01

TARGET BODY : IO

MINI:m.target.e4.961105

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

PERIAPSIS: **THINNING:NIM 2**

START:IEE 96-353/21:36:40.066 -CDS 1500:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.300**

OBSERVATION:E4INRTIMON01 **DESCRIP:REAL TIME IO MONORING**

Real Time Io monoring

ACTIVITY ID: E4INRTIMON01-
START TIME: 96-352/20:14:56.733

Activity ID: Orbit E4 Target I Inst N OAPEL RTIMON SeqNo 01 -

Title	Real Time Io monoring			Instrument	NIMS
Requestor	NIMS-SWG/R. LOPES	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	E4A	Calendar Date	12/17/96 Week 51
Start	IEE-CDS 00001505:00:0	96-352/20:14:56.733		IEE-001/01:21:43.333	
End	IEE-CDS 00001497:00:0	96-352/20:23:02.066		IEE-001/01:13:38.000	
Duration	00000008:00:0	000/00:08:05.333		000/00:08:05.333	

Top Label E4INRTIMON01
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	184	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

Observation of Io's nightside to map hot spots and look for thermal changes on the surface.

Data Returned

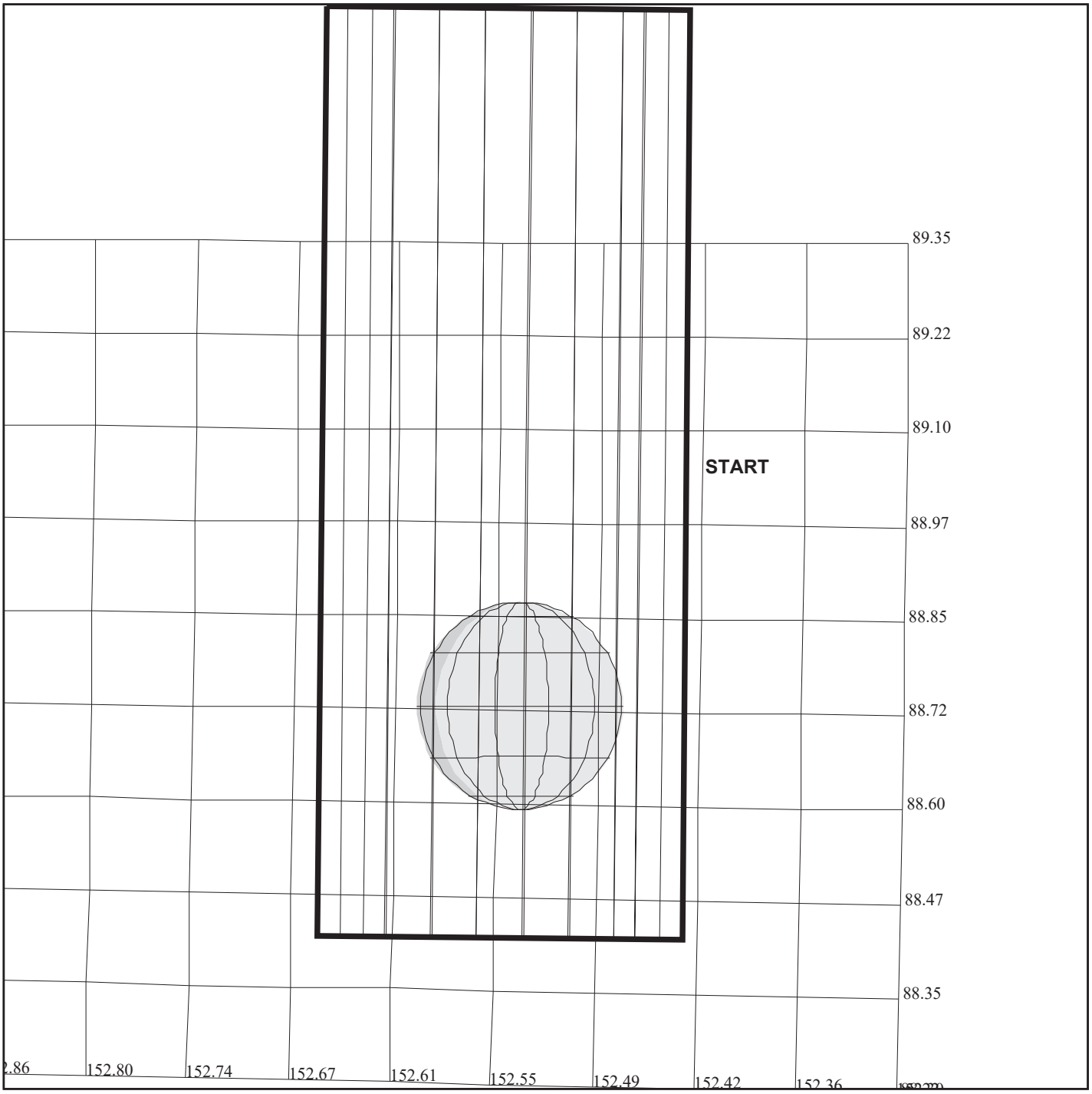
Design Detail

Observation duration per rim: 12 minor frames.
These 12 minor frames must be the first 12 of a rim.
NIMS mirror scan cut from 20 to 8.
Fixed map, 8 wavelengths.
MBTG = 0.017 R/T = 3.5 % MUB.
Offset target center by 2 mrad in cone, either direction.
8 mirror positions will get 23 fields of view, use double Nyquist.
Design the observation to bias toward the bottom of the scan, i.e., cover the satellite with the bottom mirrors accounting for pointing uncertainty. Plot all 20 mirror positions.

Mirror Blocked (1C,07) (11100,00111)
The 8 mirror positions selected are OFF TARGET!
Only Dark Sky returned.

Fixed Map (XM), Gain 2, Grating Start 21, RT, E4IXM8RT

Galileo Activity Plan Form 11/15/96 10:45:15 rev 6/95



165DL:TT= 0 TMC= 1 C= -1.50 XC= 2.50 BS= 0/7382 TC= 3
A= 728 pD= 0 SR=17.450 RA50=258.79 DEC50=-24.83 cone=152.45 clock= 89.04
117DL:#SB= 1 OR= 0.750 RR= 1.400 BM=F RC= 1 BS= 0/7382
1:#s= 24 Cs= 3.50 XCs= 0.00 Cr= -3.30 XCr= 0.00 sD= 30 rD= 20

E4INWARMCV01

TARGET G2.0 jdods:11/ 5/1996 16:32:16

FILE:P.E4INWARMCV01

TARGET BODY : IO

MINI:m.target.e4.961105

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

PERIAPSIS: **THINNING:NIM 2**

START:IEE 96-353/21:36:40.066 -CDS 1433:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.200**

OBSERVATION:E4INWARMCV01 **DESCRIP:ECLIPSE EGRESS**

NIMS Io Eclipse Observation (egress) ACTIVITY ID: E4INWARMCV01-
START TIME: 96-352/21:22:41.400

Activity ID: Orbit E4 Target I Inst N OAPEL WARMCV SeqNo 01 -

Title	NIMS Io Eclipse Observation (egress)	Instrument	NIMS
Requestor	NIMS-SWG/R. LOPES	Team NIMS	Working Group SWG

Time System CDS Load ID E4A Calendar Date 12/17/96 Week 51

Start	IEE-CDS 00001438:00:0	96-352/21:22:41.400	IEE-001/00:13:58.666
End	IEE-CDS 00001424:00:0	96-352/21:36:50.733	IEE-000/23:59:49.333
Duration	00000014:00:0	000/00:14:09.333	000/00:14:09.333

Top Label E4INWARMCV01-
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 investigate warming of hot spots on Io's surface
as Io is eclipsed by Jupiter.

Data Returned

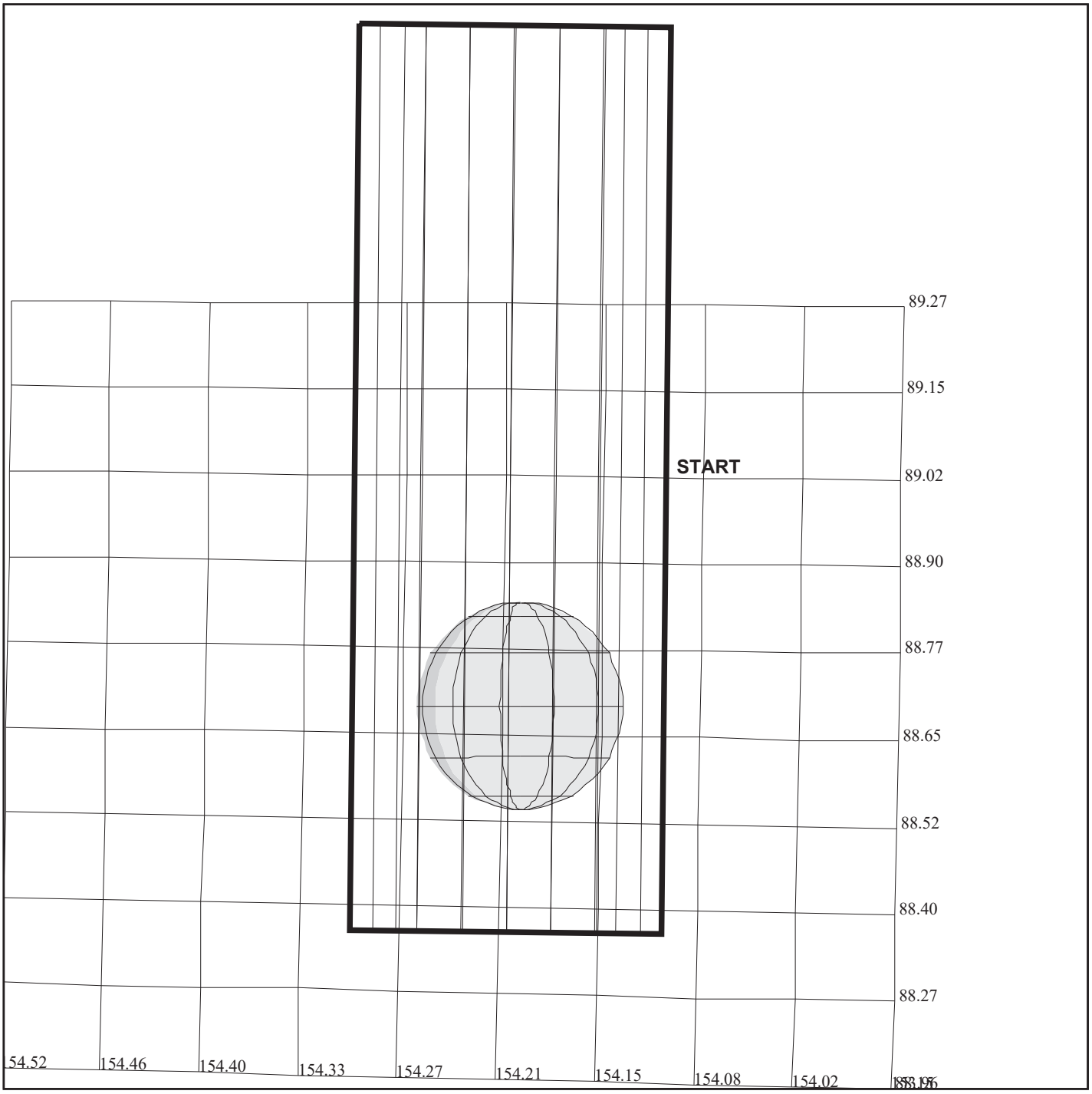
Design Detail

Instrument Mode: Fixed Map
Number of wavelengths: 10
Wavelengths P/B: 10
Wavelength table: IXM10
Scan back and forth across disc, 24 times
TLM: LPU

Swath numbers 2 (A), 5 (B), 8 (C), 11 (D), 15 (E) and 23 (F) selected.

Fixed Map (XM), Gain 2, Grating Start 21, LPU, E4IXM10B, E4IXM10B

Galileo Activity Plan Form 11/15/96 10:45:15 rev 6/95



165DM:TT= 0 TMC= 1 C= -1.50 XC= 2.50 BS=30/3570 TC= 3
A= 60 pD= 0 SR=17.450 RA50=260.62 DEC50=-24.92 cone=154.11 clock= 89.02
117DM:#SB= 1 OR= 0.750 RR= 1.400 BM=F RC= 1 BS=30/3570
1:#s= 5 Cs= 3.00 XCs= 0.00 Cr= -2.75 XCr= 0.00 sD= 28 rD= 16

E4INWARMCV02

TARGET G2.0 jdods:11/ 5/1996 16:32:16

FILE:P.E4INWARMCV02

TARGET BODY : IO

MINI:m.target.e4.961105

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

PERIAPSIS: **THINNING:NIM 2**

START:IEE 96-353/21:36:40.066 -CDS 1399:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.200**

OBSERVATION:E4INWARMCV02 **DESCRIP:ECLIPSE EGRESS**

NIMS Io Eclipse Obs. (post-egress) ACTIVITY ID: E4INWARMCV02-
START TIME: 96-352/22:01:06.733

Activity ID: Orbit E4 Target I Inst N OAPEL WARMCV SeqNo 02 -

Title	NIMS Io Eclipse Obs. (post-egress)	Instrument	NIMS
Requestor	NIMS-SWG/R. LOPES	Team NIMS	Working Group SWG

Time System CDS Load ID E4A Calendar Date 12/17/96 Week 51

Start	IEE-CDS 00001400:00:0	96-352/22:01:06.733	IEE-000/23:35:33.333
End	IEE-CDS 00001397:00:0	96-352/22:04:08.733	IEE-000/23:32:31.333
Duration	00000003:00:0	000/00:03:02.000	000/00:03:02.000

Top Label E4INWARMCV02-
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 investigate warming of hot spots on Io's surface as Io is eclipsed by Jupiter.

Data Returned

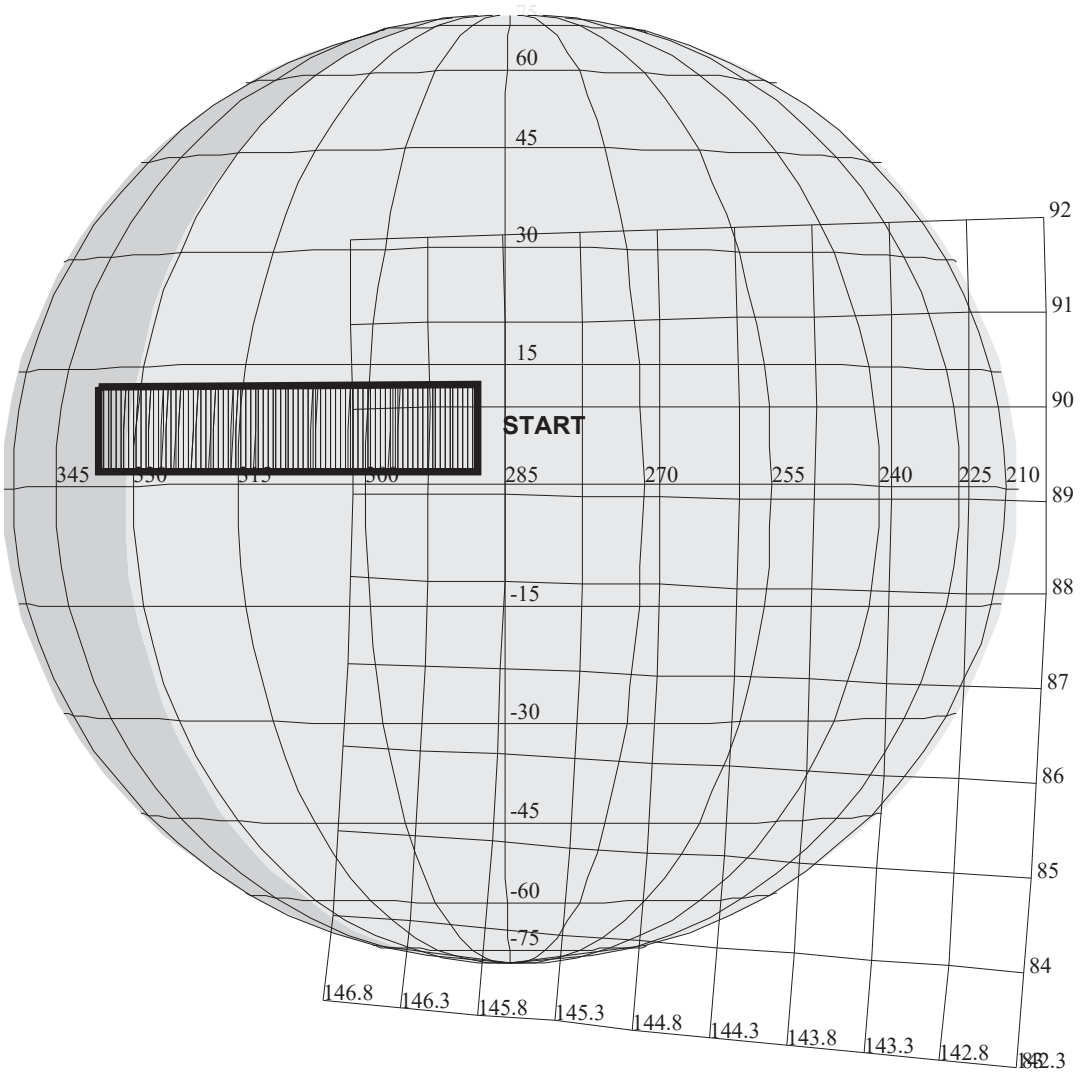
Design Detail

Instrument Mode: Fixed Map
Number of Wavelengths: 10
Wavelengths P/B: 10
Wavelength Table: IXM10,
Scan back and forth across disc, 5 times
TLM: LPU.

Swath numbers 2 (A) and 4 (B) selected.

Fixed Map (XM), Gain 2, Grating Start 21, LPU, E4IXM10B, E4IXM10B

Galileo Activity Plan Form 11/15/96 10:45:16 rev 6/95



165DO:TT= 0 TMC= 1 C= -38.00 XC= -4.30 BS= 0/0880 TC= 1(12 330)
A= 728 pD= 0 SR=17.450 RA50=251.79 DEC50=-23.88 cone=146.01 clock= 89.77
117DO:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/0880
1:#s= 1 Cs= 43.50 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 1192 rD= 2

E4JNFEA04101

TARGET G2.0 jdods:11/ 5/1996 16:32:16

FILE:P.E4JNFEA04101

CENTRAL BODY:JUPITER

MINI:m.target.e4.961105

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

PERIAPSIS: **THINNING:NIM 2**

START:JFC 96-353/02:52:18.733 -CDS 082:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750**

OBSERVATION:E4JNFEA04101 **DESCRIP:E4_FEAT_CAMP_41_PHASE_01**

Jupiter Camp. feat. 41 deg. phase Prt 1 ACTIVITY ID: E4JNFEA04101-
START TIME: 96-353/01:24:20.733

Activity ID: Orbit E4 Target J Inst N OAPEL FEA041 SeqNo 01 -

Title	Jupiter Camp. feat. 41 deg. phase Prt 1	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS Working Group AWG

Time System CDS Load ID E4A Calendar Date 12/18/96 Week 51

Start	JFC-CDS 00000087:00:0	96-353/01:24:20.733	JFC-000/01:27:58.000
End	JFC-CDS 00000075:00:0	96-353/01:36:28.733	JFC-000/01:15:50.000
Duration	00000012:00:0	000/00:12:08.000	000/00:12:08.000

Top Label E4JNFEA04101-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	121	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of 20 OAPELs constituting the feature tracks for this feature campaign. This is the first observation obtained on a rotation with phase angle approximately 41 degrees. Jupiter imaged in 4 colors, using NIMS downlink wavelength table JFT04A. This observation acquired with feature (a region of hot spots) near the terminator, assuming feature coordinates 7.0 degrees North latitude and 328 degrees West longitude (System III).

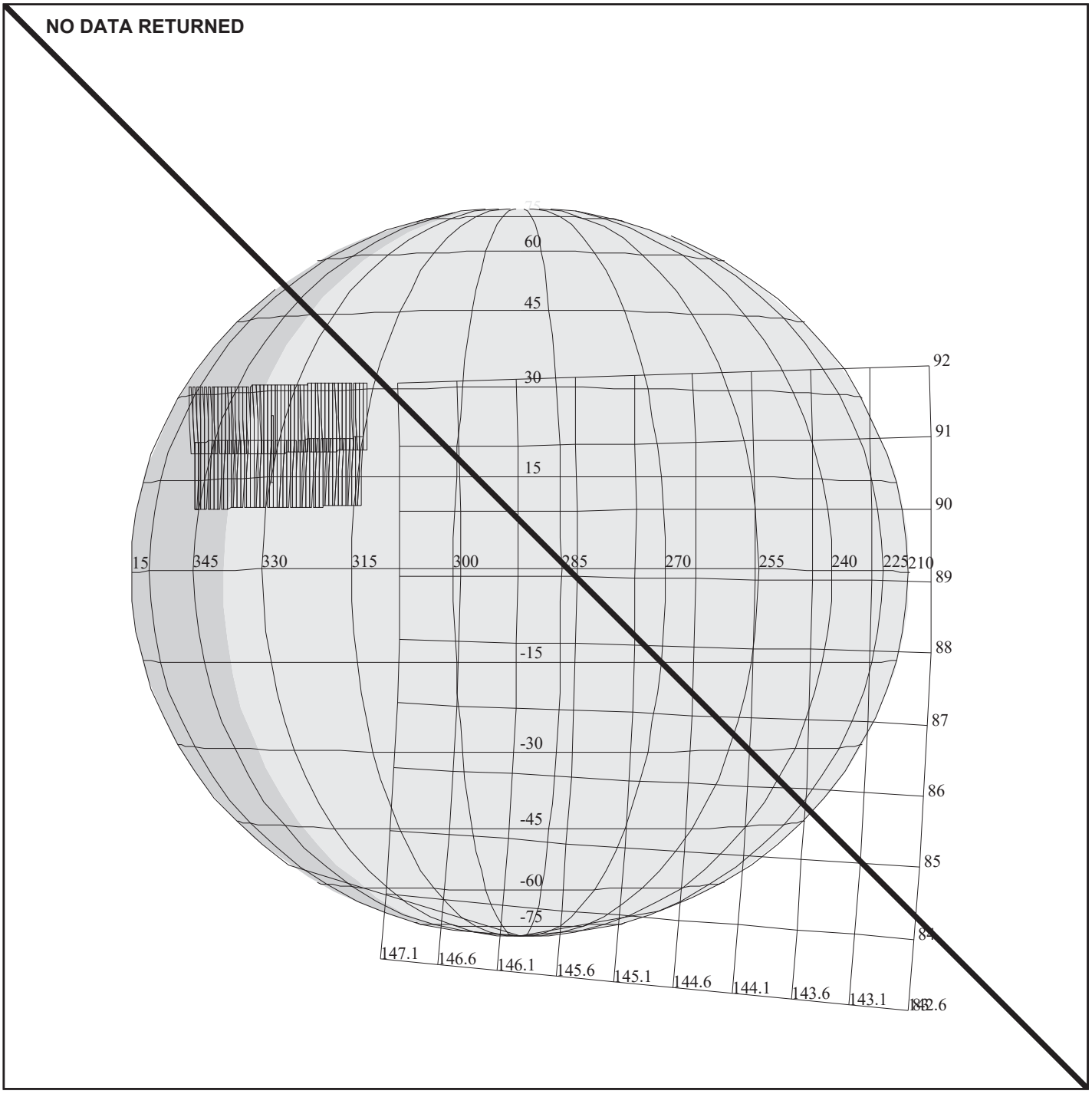
Data Returned

Design Detail

Shortmap, Nyquist-sampled observation of 4*1 (40*10 mrad) area centered on hot spot near 328 degrees West longitude, 7.0 degrees North latitude. S/C distance about 1.19 million KM, NIMS IFOV (NIMSEL) = 595 KM; 4*1 mosaic covers 47600*11900 KM. About 400 seconds of scanning, accumulating 0.1022 MBTG in 4 colors, and using 0.01344 tracks. 4 minutes reserved for targetting. Wavelength table: JFT04A, TLM: LPU
Note 10/18/96: This and other feature track OAPELs account for the 100.3 m/sec (-7 degrees per day) zonal windfield.

Short Map (SM), Gain 2, Grating Start 1, LPU, E4JFT68A, E4JFT04A

Galileo Activity Plan Form 11/15/96 10:45:16 rev 6/95



165DP:TT= 0 TMC= 1 C= 12.60 XC= 4.50 BS= 0/2882 TC= 1(19.8 330)
A= 364 pD= 0 SR=17.450 RA50=255.02 DEC50=-23.30 cone=148.87 clock= 91.50
117DP:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/2882
1:#s= 2 Cs= -25.80 XCs= 0.00 Cr= 26.00 XCr= -8.00 sD= 708 rD= 40

E4JNPFTA4101

TARGET G2.0 jdods:11/ 5/1996 16:32:16

FILE:P.E4JNPFTA4101

CENTRAL BODY:JUPITER

MINI:m.target.e4.961105

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

PERIAPSIS: **THINNING:NIM 2**

START:JFC 96-353/02:52:18.733 -CDS 071:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750**

OBSERVATION:E4JNPFTA4101 **DESCRIP:E4_PARTIAL_FEA_41_PHASE_01**

Jup. Prt. Feat. Tr. A 41 deg Phse Prt 1 ACTIVITY ID: E4JNPFTA4101-
START TIME: 96-353/01:37:29.400

Activity ID: Orbit E4 Target J Inst N OAPEL PFTA41 SeqNo 01 -

Title	Jup. Prt. Feat. Tr. A 41 deg Phse Prt 1	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team NIMS	Working Group AWG

Time System	CDS	Load ID	E4A	Calendar Date	12/18/96 Week 51
Start	JFC-CDS	00000074:00:0	96-353/01:37:29.400		JFC-000/01:14:49.333
End	JFC-CDS	00000063:02:0	96-353/01:48:35.400		JFC-000/01:03:43.333
Duration		00000010:89:0	000/00:11:06.000		000/00:11:06.000

Top Label E4JNPFTA4101-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	121	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of 5 OAPELs constituting the partial feature track for feature A.
This is the first observation of this feature and the first observation obtained on a rotation with phase angle approximately 41 degrees.
Jupiter imaged in 19 colors, using NIMS downlink wavelength table JFT19A.
This observation acquired with feature (NTRZ region to the north of the hot spot feature campaign region) near the terminator, assuming partial feature campaign coordinates 14.0 degrees north latitude and 328 degrees west longitude (system III).

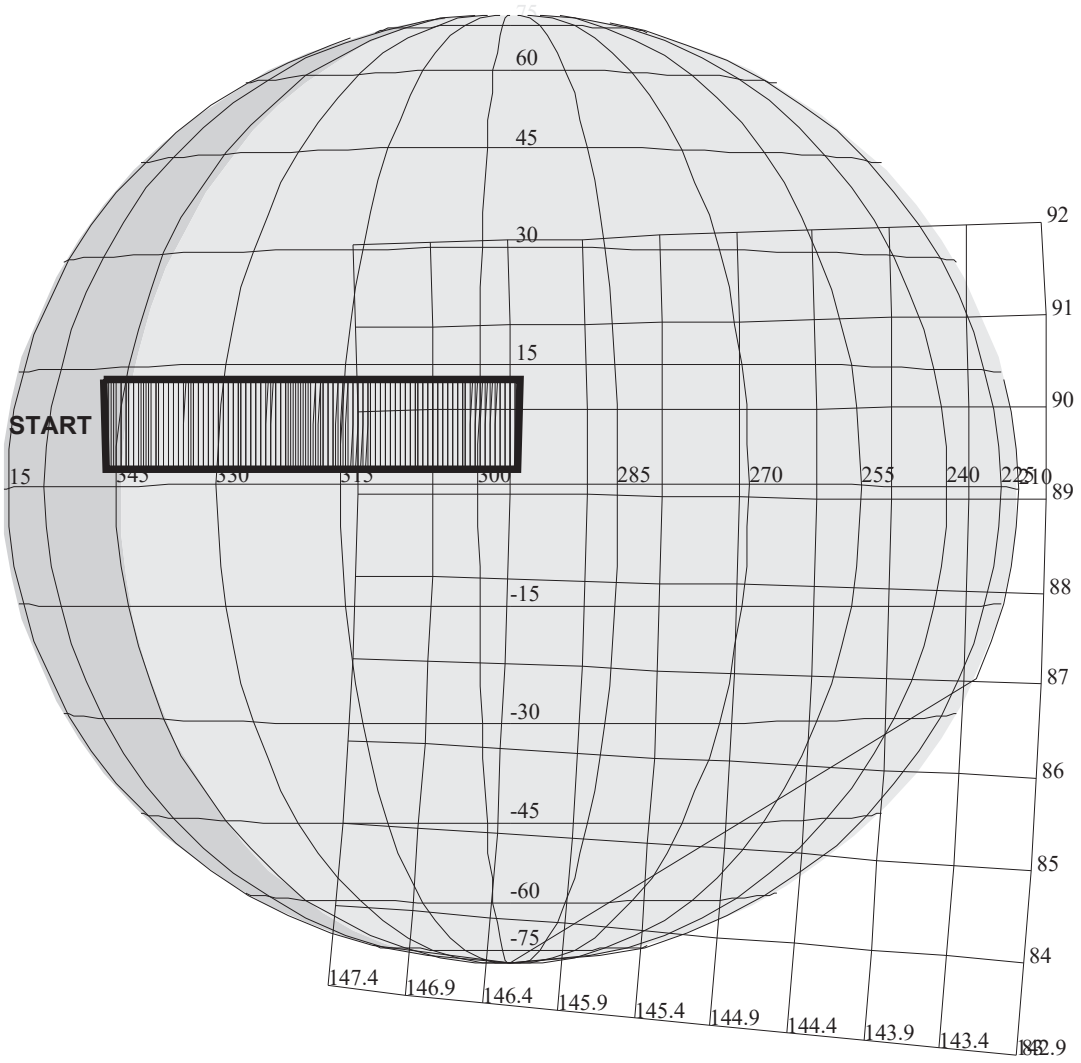
No Data Returned

Design Detail

Shortmap, Nyquist-sampled observation of 2*2 (20*20 mrad) area centered on NTRZ near 328 degrees West longitude, 14 degrees north latitude.
S/C distance about 1.18 million KM, NIMS IFOV (NIMSEL) = 590 KM.
2*2 mosaic covers 23600 * 23600 KM. About 420 seconds of scanning (including 20 secs for reposition slews) accumulating 0.3773 MBTG in 19 colors, and using 0.01411 tracks. 2 minutes reserved for targetting,
TLM: LPU Wavelength table: JFT19A
Note 10/18/96: New solar conjunction playback constraints resulted in almost total deletion of playback (just 2 seconds remain).

Short Map (SM), Gain 2, Grating Start 1, LPU, E4JFT68A, E4JFT04A

Galileo Activity Plan Form 11/15/96 10:45:16 rev 6/95



165DQ:TT= 0 TMC= 1 C= 15.00 XC= -4.00 BS= 0/4702 TC= 1(12 328)
A= 182 pD= 0 SR=17.450 RA50=255.06 DEC50=-24.17 cone=149.01 clock= 89.84
117DQ:#SB= 1 OR= 0.120 RR=12.000 BM=F RC= 1 BS= 0/4702
1:#s= 1 Cs= -47.70 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 1198 rD= 2

E4JNFEA04102

TARGET G2.0 jdods:11/ 5/1996 16:32:16

FILE:P.E4JNFEA04102

CENTRAL BODY:JUPITER

MINI:m.target.e4.961105

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

PERIAPSIS: **THINNING:NIM 2**

START:JFC 96-353/02:52:18.733 -CDS 061:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750**

OBSERVATION:E4JNFEA04102 **DESCRIP:E4_FEAT_CAMP_41_PHASE_02**

Jupiter Camp. feat. 41 deg. phase Prt 2 ACTIVITY ID: E4JNFEA04102-
START TIME: 96-353/01:48:36.733

Activity ID: Orbit E4 Target J Inst N OAPEL FEA041 SeqNo 02 -

Title	Jupiter Camp. feat. 41 deg. phase Prt 2	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS Working Group AWG

Time System	CDS	Load ID	E4A	Calendar Date	12/18/96 Week 51
Start	JFC-CDS	00000063:00:0	96-353/01:48:36.733		JFC-000/01:03:42.000
End	JFC-CDS	00000054:00:0	96-353/01:57:42.733		JFC-000/00:54:36.000
Duration		00000009:00:0	000/00:09:06.000		000/00:09:06.000

Top Label	E4JNFEA04102-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	121	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of 20 OAPELs constituting the feature tracks for this feature campaign. This is is the second observation obtained on a rotation with phase angle approximately 41 degrees. Jupiter imaged in 4 colors, using NIMS downlink wavelength table JFT04A. This observation acquired with feature (a region of hot spots) near 30 degrees relative longitude, 17 degrees from the terminator, assumming campaign feature coordinates 7 degrees North latitude and 328 degrees West longitude.

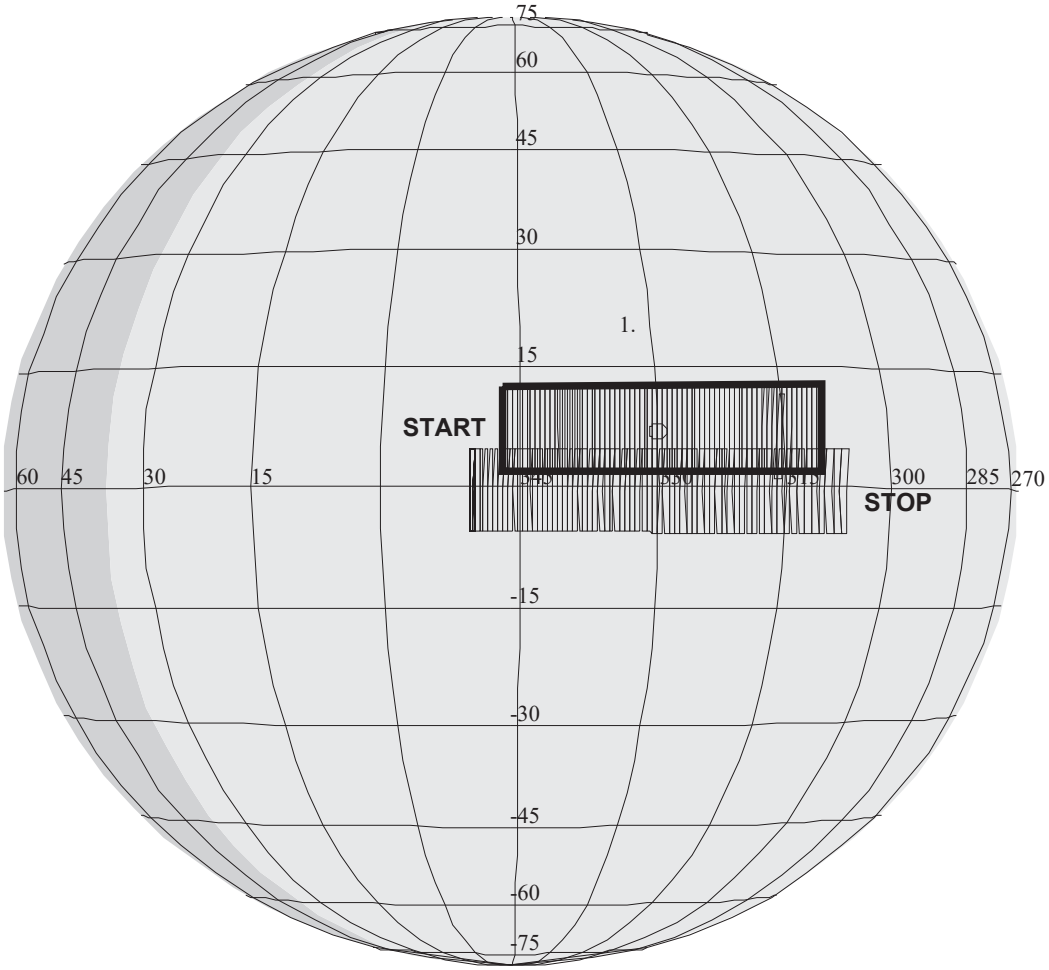
Data Returned

Design Detail

Shortmap, Nyquist-sampled observation of 4*1 (40*10 mrad).
Observation centered on hot spot near 328 degrees west longitude,
7 degrees north latitude. S/C distance about 1.17 million KM,
NIMS IFOV (NIMSEL) = 585 KM; 4*1 scan covers 46800*11700 KM;
about 400 seconds of scanning. Scan accumulates 0.1022 MBTG in
4 colors, and uses 0.01344 tracks. 1 minute reserved for targetting.
Wavelength table: JFT04A, TLM: LPU
Note 9/1996: Observation record time and consequent playback time
reduced to 27 seconds to fit new tape budget.
Note 10/18/96: This and other feature track OAPELs account for the
100.3 m/sec (-7 degrees per day) zonal wind.

Short Map (SM), Gain 2, Grating Start 1, LPU, E4JFT68A, E4JFT04A

Galileo Activity Plan Form 11/15/96 10:45:16 rev 6/95



165DU:TT= 0 TMC= 1 C= 20.00 XC= -4.50 BS= 0/0172 TC= 1(12 328)
A= 182 pD= 1860 SR=17.450 RA50=254.91 DEC50=-24.13 cone=148.87 clock= 89.87
117DU:#SB= 1 OR= 0.120 RR=12.000 BM=F RC= 1 BS= 0/0172
1:#s= 1 Cs= -37.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 930 rD= 2
165DR:TT= 0 TMC= 1 C= 20.00 XC= -12.00 BS= 0/5268 TC= 1(12 330)
A= 182 pD= 0 SR=17.450 RA50=254.91 DEC50=-24.55 cone=148.91 clock= 89.08
117DR:#SB= 1 OR= 0.120 RR=12.000 BM=F RC= 1 BS= 0/5268
1:#s= 1 Cs= -37.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 930 rD= 2

E4JNFEA04103

TARGET G2.0 jdods:11/ 5/1996 16:32:16

FILE:P.E4JNFEA04103

CENTRAL BODY:JUPITER

MINI:m.target.e4.961105

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

PERIAPSIS:

THINNING:NIM 2

START:JFC 96-353/02:52:18.733 +CDS 24:00:0

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

OBSERVATION:E4JNFEA04103

DESCRIP:E4_FEAT_CAMP_41_PHASE_03

Jupiter Camp. feat. 41 deg. phase Prt 3 ACTIVITY ID: E4JNFEA04103-
START TIME: 96-353/03:12:32.066

Activity ID: Orbit E4 Target J Inst N OAPEL FEA041 SeqNo 03 -

Title	Jupiter Camp. feat. 41 deg. phase Prt 3	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS Working Group AWG

Time System	CDS	Load ID	E4A	Calendar Date	12/18/96 Week 51
Start	JFC+CDS	00000020:00:0	96-353/03:12:32.066		JFC+000/00:20:13.333
End	JFC+CDS	00000058:00:0	96-353/03:50:57.399		JFC+000/00:58:38.666
Duration		00000038:00:0	000/00:38:25.333		000/00:38:25.333

Top Label E4JNFEA04103-
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

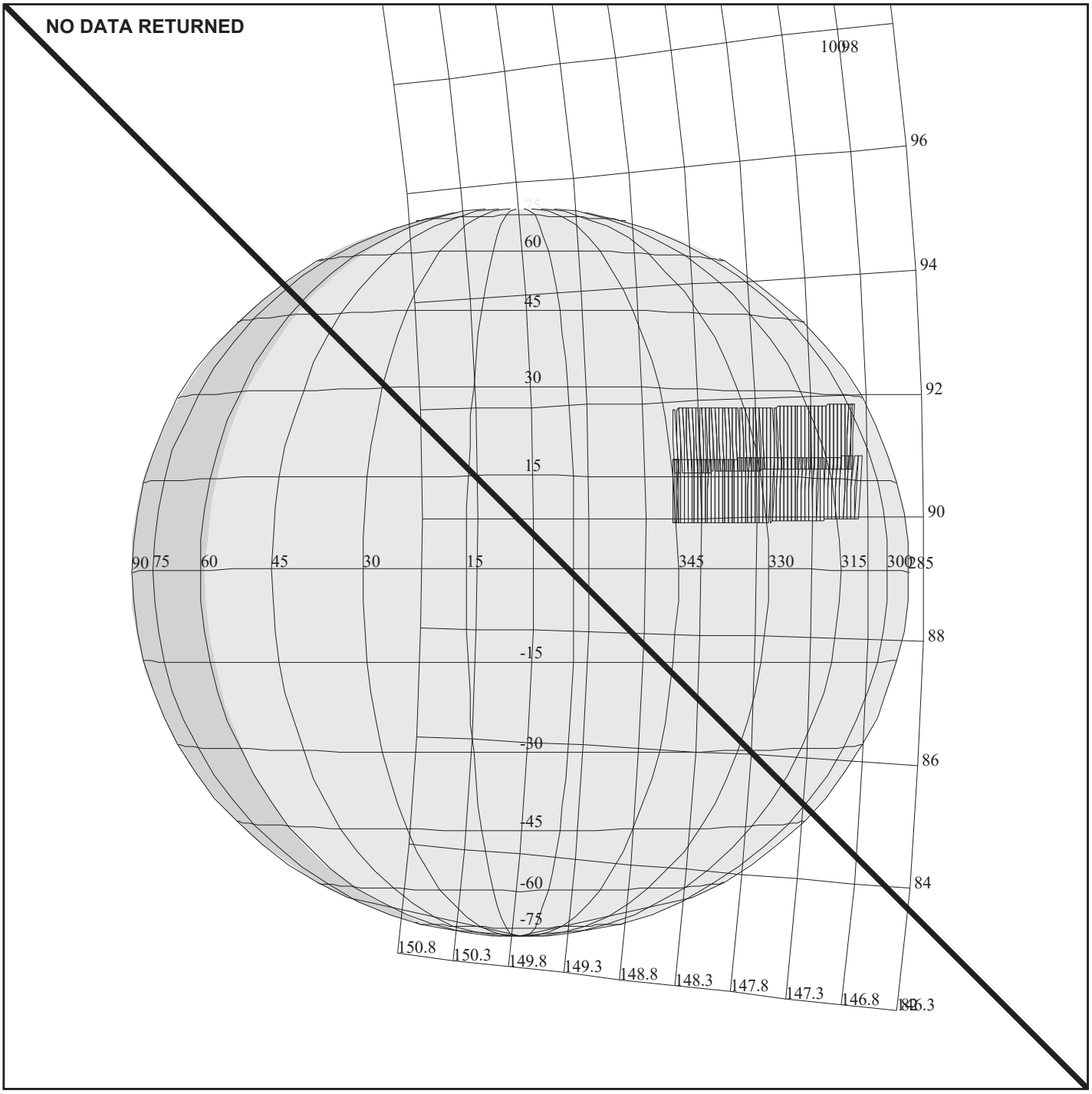
One of 20 OAPELs constituting the feature tracks for this feature campaign. Also, the second of 5 OAPELs constituting the partial feature track for feature B. For the primary feature campaign, this is the third observation obtained on a rotation with phase angle approximately 41 degrees. For the campaign feature, Jupiter imaged in 4 colors, using NIMS downlink wavelength table JFT04A. For the partial feature track, imaged on the subsequent scan, Jupiter is mapped in 19 colors, using NIMS downlink wavelength table JFT19A. This observation acquired with features (the primary feature is a region of hot spots, the partial feature is the northern equatorial region, including a plume head) near minimum airmass, assumming campaign feature coordinates 7 degrees North latitude and 328 degrees West longitude and partial feature coordinates 2 degrees North latitude, 328 degrees West longitude (System III).

Data Returned

Design Detail

Shortmap, Nyquist-sampled observation of 4*1 (40*10 mrad) and 3*1 (30*10 mrad) contiguous areas. Hot spot near 328 degrees west longitude, 7 degrees north latitude, is centered on first, more northern tier. Equatorial region plumehead near 2 degrees latitude centered on subsequent 3*1 scan. S/C distance about 1.13 million KM, NIMS IFOV (NIMSEL) = 565 KM; 4*1 scan covers 45200*11300 KM; 3*1 scan covers 33900*11300 KM about 400 seconds of scanning on the northern, hotspot tier, 360 seconds on more southern tier, with 2 minutes reserved in between for wavelength table and SCIREC switching.
First scan accumulates 0.1022 MBTG in 4 colors, and uses 0.01344 tracks.
Second scan accumulates 0.2695 MBTG in 19 colors, and uses 0.01008 tracks.
Total OAPEL resource use: 0.3717 MBTG and 0.02352 tracks. 1 minute reserved for targetting. Wavelength tables: JFT04A and JFT19A, TLM: LPU.
Note 10/18/96: New solar conjunction playback constraints resulted in reduction of first scan to 310 secs of playback, and near total deletion (2 secs remain) of second scan.
Short Map (SM), Gain 2, Grating Start 1, LPU, E4JFT68A, E4JFT04A

Galileo Activity Plan Form 11/15/96 10:45:16 rev 6/95



165DS:TT= 0 TMC= 1 C= 12.60 XC= 1.50 BS= 0/6906 TC= 1(19.8 330)
A= 364 pD= 0 SR=17.450 RA50=254.67 DEC50=-23.35 cone=148.56 clock= 91.33
117DS:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/6906
1:#s= 2 Cs= -26.50 XCs= 0.00 Cr= 26.50 XCr= -8.00 sD= 728 rD= 40

E4JNPFTA4102

TARGET G2.0 jdods:11/ 5/1996 16:32:16

FILE:P.E4JNPFTA4102

CENTRAL BODY:JUPITER

MINI:m.target.e4.961105

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

PERIAPSIS: **THINNING:NIM 2**

START:JFC 96-353/02:52:18.733 +CDS 61:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750**

OBSERVATION:E4JNPFTA4102 **DESCRIP:E4_PARTIAL_FEA_41_PHASE_02**

Jup. Prt. Feat. Tr. A 41 deg Phse Prt 2 ACTIVITY ID: E4JNPFTA4102-
START TIME: 96-353/03:51:30.733

Activity ID: Orbit E4 Target J Inst N OAPEL PFTA41 SeqNo 02 -

Title	Jup. Prt. Feat. Tr. A 41 deg Phse Prt 2	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team NIMS	Working Group AWG

Time System	CDS	Load ID	E4A	Calendar Date	12/18/96 Week 51
Start	JFC+CDS	00000058:50:0	96-353/03:51:30.733		JFC+000/00:59:12.000
End	JFC+CDS	00000069:35:0	96-353/04:02:28.066		JFC+000/01:10:09.333
Duration		00000010:76:0	000/00:10:57.333		000/00:10:57.333

Top Label E4JNPFTA4102-
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 5 OAPELs constituting the partial feature track for feature A. This is the second observation of this feature and the second obtained on a rotation with phase angle approximately 41 degrees. Jupiter imaged in 19 colors, using NIMS downlink wavelength table JFT19A. This observation acquired with feature (N TRZ region to the north of the hot spot feature campaign region) near the terminator, assuming partial feature campaign coordinates 12 degrees north latitude and 328 degrees west longitude (system III).

No Data Returned

Design Detail

Shortmap, Nyquist-sampled observation of 2*2 (20*20 mrad) area centered on NTRZ near 328 degrees West longitude, 12 degrees north latitude. S/C distance about 1.12 million KM, NIMS IFOV (NIMSEL) = 560 KM. 2*2 mosaic covers 22400 * 22400 KM. About 420 seconds of scanning (including 20 secs for reposition slew) accumulating 0.3773 MBTG in 19 colors, and using 0.01411 tracks. 2 minutes reserved for targetting. Wavelength table: JFT19A, TLM: LPU
Note 10/18/96: New solar conjunction playback constraints resulted in near total deletion of playback. Only 2secs of playback remain.

Short Map (SM), Gain 2, Grating Start 1, LPU, E4JFT68A, E4JFT04A

Galileo Activity Plan Form 11/15/96 10:45:16 rev 6/95

E4 Health 2 ACTIVITY ID: E4NNHEALTH02-
START TIME: 96-353/04:02:45.334

Activity ID: Orbit E4 Target N Inst N OAPEL HEALTH SeqNo 02 -

Title	E4 Health 2			Instrument	NIMS
Requestor	NIMS-SWG/J. HUI	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	E4A	Calendar Date	12/18/96 Week 51

Start	EEE-CDS 00001594:30:0	96-353/04:02:45.334	EEE-001/02:52:02.666
End	EEE-CDS 00001591:00:0	96-353/04:06:07.334	EEE-001/02:48:40.666
Duration	00000003:30:0	000/00:03:22.000	000/00:03:22.000

Top Label E4NNHEALTH02-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	100	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

Long Map (LM), Gain 2, Grating Start 0, RT, E4RECVY3

Galileo Activity Plan Form 11/15/96 10:45:16 rev 6/95

Reload NIMS Memory

ACTIVITY ID: E4NNRELOAD01-
START TIME: 96-353/04:30:23.334

Activity ID: Orbit E4 Target N Inst N OAPEL RELOAD SeqNo 01 -

Title	Reload NIMS Memory			Instrument	NIMS
Requestor	NIMS-SWG/J. HUI	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	E4A	Calendar Date	12/18/96 Week 51
Start	EEE-CDS	00001567:00:0	96-353/04:30:23.334		EEE-001/02:24:24.666
End	EEE-CDS	00001552:00:0	96-353/04:45:33.334		EEE-001/02:09:14.666
Duration		00000015:00:0	000/00:15:10.000		000/00:15:10.000

Top Label	E4NNRELOAD01-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	50	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

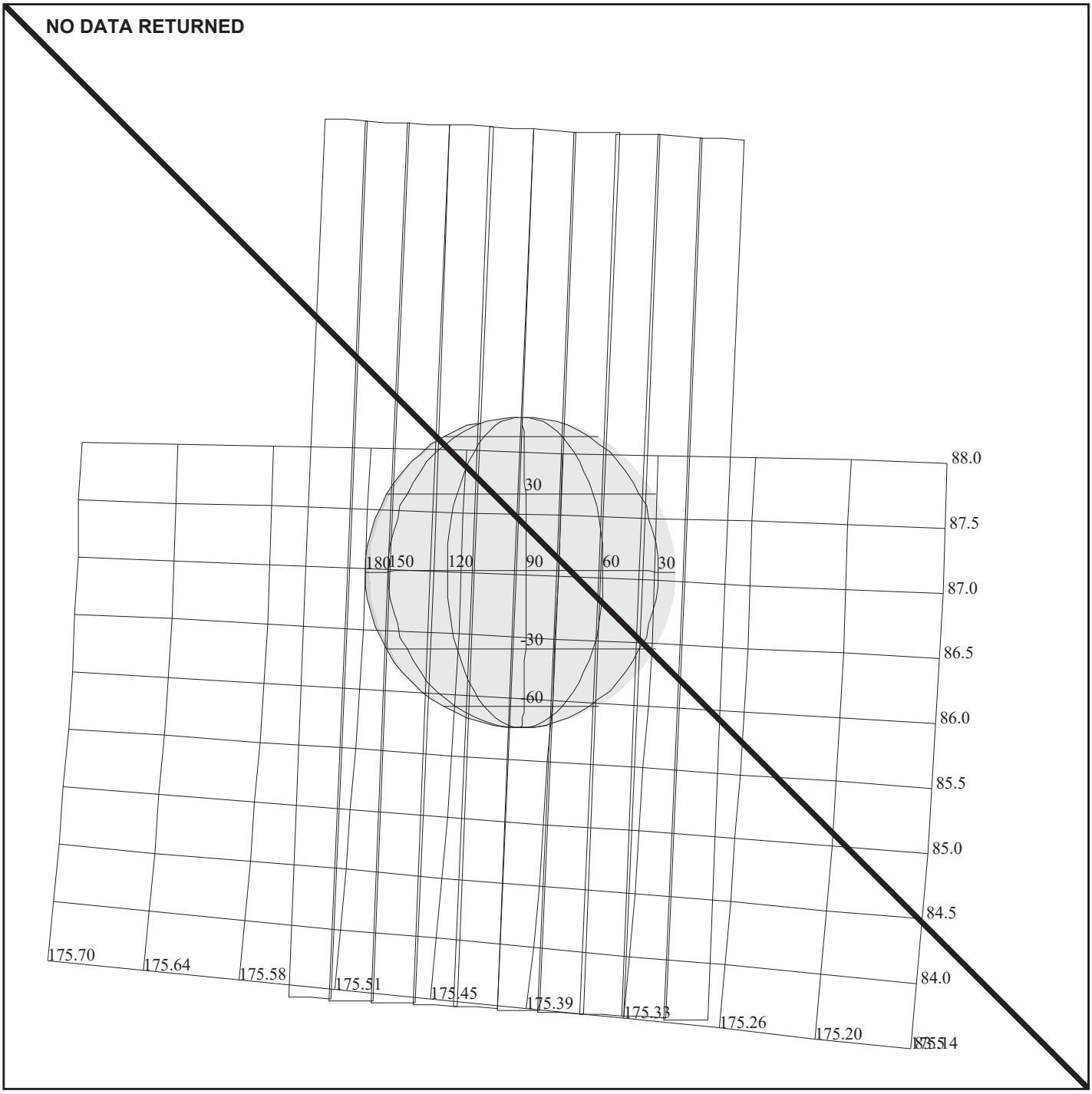
Observation Objective

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 11/15/96 10:45:17 rev 6/95



165DT:TT= 0 TMC= 1 C= -2.20 XC= 0.00 BS= 0/5470 TC= 3
A= 728 pD= 0 SR=17.450 RA50=283.93 DEC50=-24.23 cone=175.29 clock= 87.04
117DT:#SB= 1 OR= 0.040 RR=12.000 BM=F RC= 1 BS= 0/5470
1:#s= 1 Cs= 6.40 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 484 rD= 2

E4INCHEMIS01

TARGET G2.0 jdods:11/ 5/1996 16:32:16

FILE:P.E4INCHEMIS01

TARGET BODY : IO

MINI:m.target.e4.961105

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

PERIAPSIS:

THINNING:NIM 2

START:IEE 96-353/21:36:40.066 -CDS 949:00:0

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

OBSERVATION:E4INCHEMIS01

DESCRIP:IO DAYSIDE

Monitoring of Io's Dayside

ACTIVITY ID: E4INCHEMIS01-
START TIME: 96-353/05:32:04.066

Activity ID: Orbit E4 Target I Inst N OAPEL CHEMIS SeqNo 01 -

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

Time System	CDS	Load ID	E4A	Calendar Date	12/18/96 Week 51
Start	IEE-CDS 00000954:00:0	96-353/05:32:04.066		IEE-000/16:04:36.000	
End	IEE-CDS 00000946:31:0	96-353/05:39:48.733		IEE-000/15:56:51.333	
Duration	00000007:60:0	000/00:07:44.667		000/00:07:44.667	

Top Label	E4INCHEMIS01-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	128	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, 102 wavelengths.
Tracks used per orbit: 0.05 to 0.42.
Bits To Ground per orbit: 0.3 to 2.2 Mbits.
Wavelength table: ILM102, TLM: LPU
UVS ridealong.

Long Map (LM), Gain 2, Grating Start 0, LPU, E4ILM245, E4ILM102

Galileo Activity Plan Form 11/15/96 10:45:17 rev 6/95

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Jup. AWG window - 16 d. ph. opportunity ACTIVITY ID: E4JNAWGWIN01-
START TIME: 96-353/08:46:12.066

Activity ID: Orbit E4 Target J Inst N OAPEL AWGWIN SeqNo 01 -

Title	Jup. AWG window - 16 d. ph. opportunity	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS Working Group

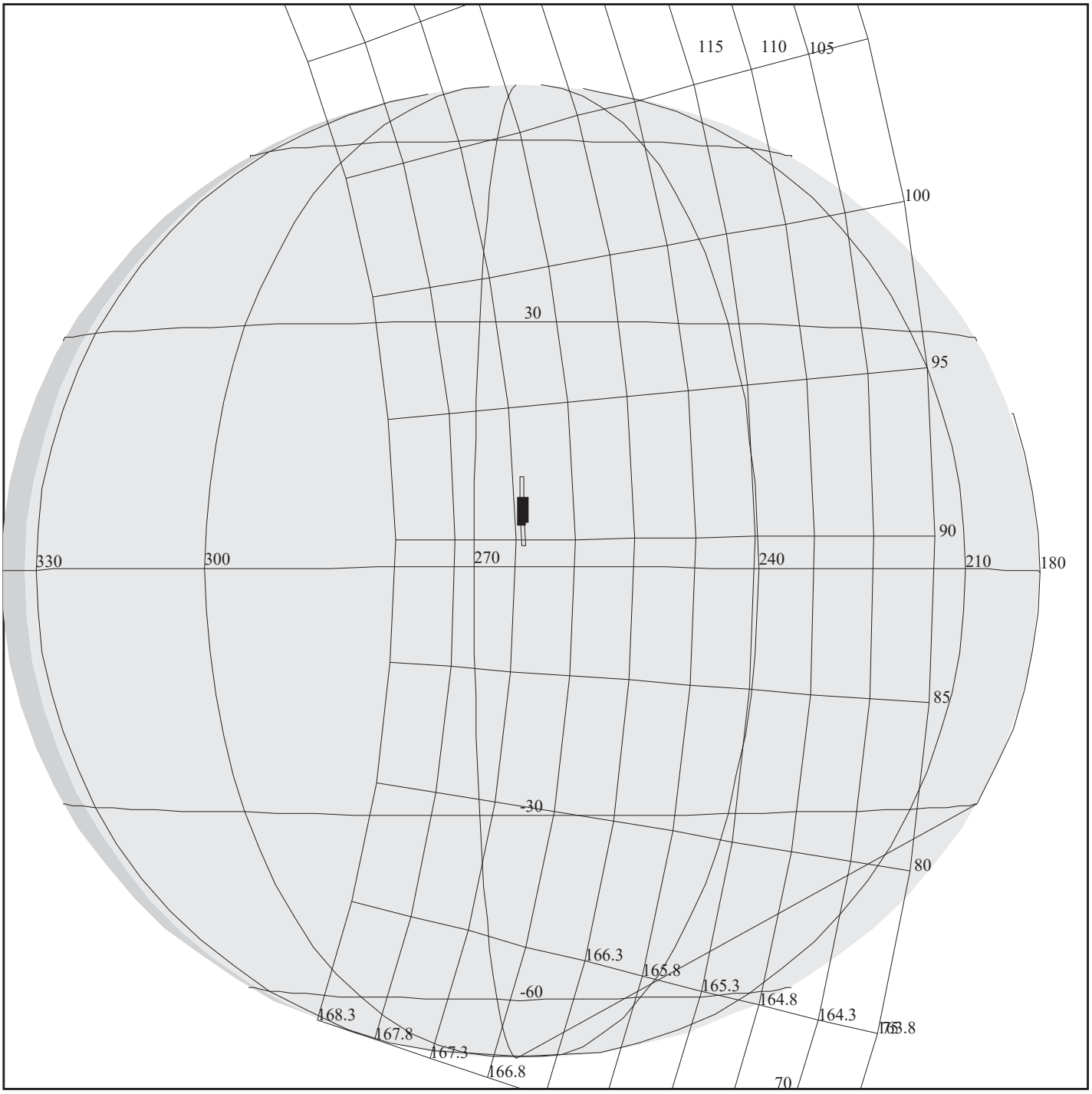
Time System	CDS	Load ID	E4A	Calendar Date	12/18/96 Week 51
Start	JLP+CDS	00000350:00:0	96-353/08:46:12.066		JLP+000/05:53:53.333
End	JLP+CDS	00000820:00:0	96-353/16:41:25.399		JLP+000/13:49:06.666
Duration		00000470:00:0	000/07:55:13.333		000/07:55:13.333

Top Label	E4JNAWGWIN01-				
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

This 8 hour window defines the period within which all observations are tied to the low phase angle epoch (JLP) during the 16-degree phase opportunity. All observations within this window should refer to the JLP (Jupiter Low Phase).

Design Detail



165DY:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/8806 TC= 1(6.5 265)
A= 518 pD= 0 SR=17.450 RA50=275.06 DEC50=-24.38 cone=167.22 clock= 91.03
117DY:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/8806
1:#s= 1 Cs= 1.70 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 182 rD= 2

E4JNRTHOTS01

TARGET G2.0 jdods:11/ 5/1996 16:32:16

FILE:P.E4JNRTHOTS01

CENTRAL BODY:JUPITER

MINI:m.target.e4.961105

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

PERIAPSIS:

THINNING:NIM 7

START:JLP 96-353/02:52:18.733 +CDS 511:00:0

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

OBSERVATION:E4JNRTHOTS01

DESCRIP:JUPITER_REAL_TIME_HOTSPOT

Jupiter Real Time Hotspot — ACTIVITY ID: E4JNRTHOTS01-
START TIME: 96-353/11:25:57.399

Activity ID: Orbit E4 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 E4A Calendar Date 12/18/96 Week 51

Start	JLP+CDS 00000508:00:0	96-353/11:25:57.399	JLP+000/08:33:38.666
End	JLP+CDS 00000513:00:0	96-353/11:31:00.733	JLP+000/08:38:42.000
Duration	00000005:00:0	000/00:05:03.334	000/00:05:03.334

Top Label E4JNRTHOTS01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	184	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

Longmap spectra of the brightest hotspot observed on Jupiter, (as of October 2, 1996), at nearly the highest spatial resolution achievable by NIMS (430 km/pixel). This feature is located at the position of the probe entry site, when winddrift (100.5 m/sec) is accounted for. Determination of water and phosphine content within the hotspot are primary objectives.

Data Returned

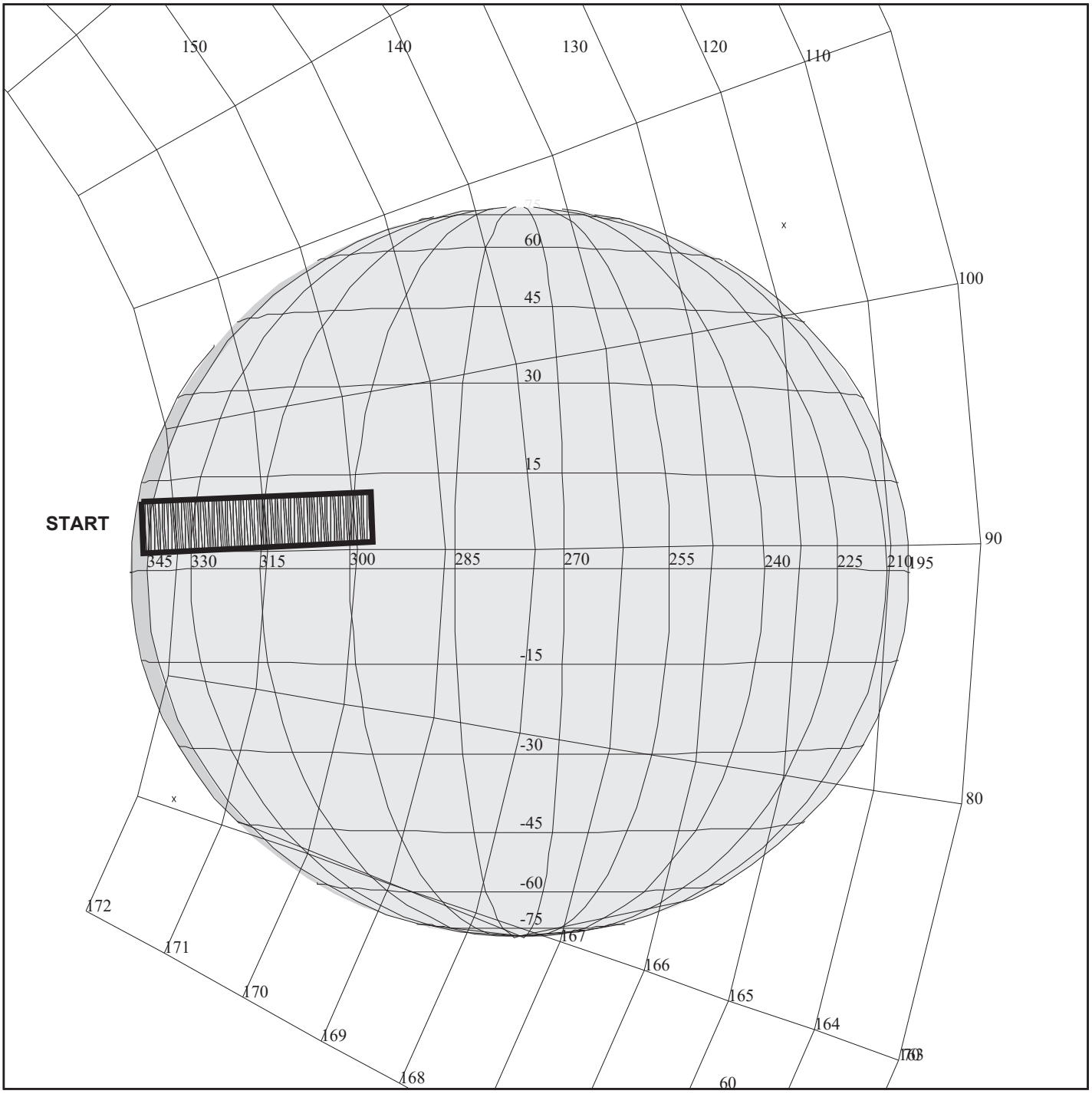
Design Detail

Longmap real time 1-rim spectra at 4 mirror positions centered on the nominal bright hotspot located at 265 degrees West longitude, 6.5 degrees North latitude. Acquired when hotspot is near the central meridian on the 16-degree phase angle apparition. Spatial resolution: 430 km/pixel.
CDS 02:70:0 used for targeting.
Note 11/5/96: This obsevation will be "buffer dumped" and will be played back during playback.

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

Long Map (LM), Gain 2, Grating Start 0, RT, E4JLM408

Galileo Activity Plan Form 11/15/96 10:45:17 rev 6/95



165DV:TT= 0 TMC= 1 C= 11.00 XC= -5.50 BS= 0/2264 TC= 1(12 330)
A= 364 pD= 0 SR=17.450 RA50=280.70 DEC50=-23.99 cone=172.38 clock= 92.16
117DV:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/2264
1:#s= 1 Cs= -43.80 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 1200 rD= 2

E4JNFEA01601

TARGET G2.0 jdods:11/ 5/1996 16:32:16

FILE:P.E4JNFEA01601

CENTRAL BODY:JUPITER

MINI:m.target.e4.961105

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

PERIAPSIS: **THINNING:NIM 2**

START:JLP 96-353/02:52:18.733 +CDS 0530:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750**

OBSERVATION:E4JNFEA01601 **DESCRIP:E4_FEAT_CAMP_16_PHASE_01**

Jupiter Camp. feat. 16 deg. phase Prt 1 ACTIVITY ID: E4JNFEA01601-
START TIME: 96-353/11:45:10.066

Activity ID: Orbit E4 Target J Inst N OAPEL FEA016 SeqNo 01 -

Title	Jupiter Camp. feat. 16 deg. phase Prt 1	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS Working Group AWG

Time System	CDS	Load ID	E4A	Calendar Date	12/18/96 Week 51
Start	JLP+CDS	00000527:00:0	96-353/11:45:10.066		JLP+000/08:52:51.333
End	JLP+CDS	00000536:50:0	96-353/11:54:49.399		JLP+000/09:02:30.666
Duration		00000009:50:0	000/00:09:39.333		000/00:09:39.333

Top Label	E4JNFEA01601-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	121	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of 20 OAPELs constituting the feature tracks for this feature campaign. This is the first observation obtained on a rotation with phase angle approximately 16 degrees. Jupiter imaged in 19 colors, using NIMS downlink wavelength table JFT19A. This observation acquired with feature (a region of hot spots) near the morning terminator, assuming feature coordinates 7 degrees North latitude and 325 degrees West longitude (System III).

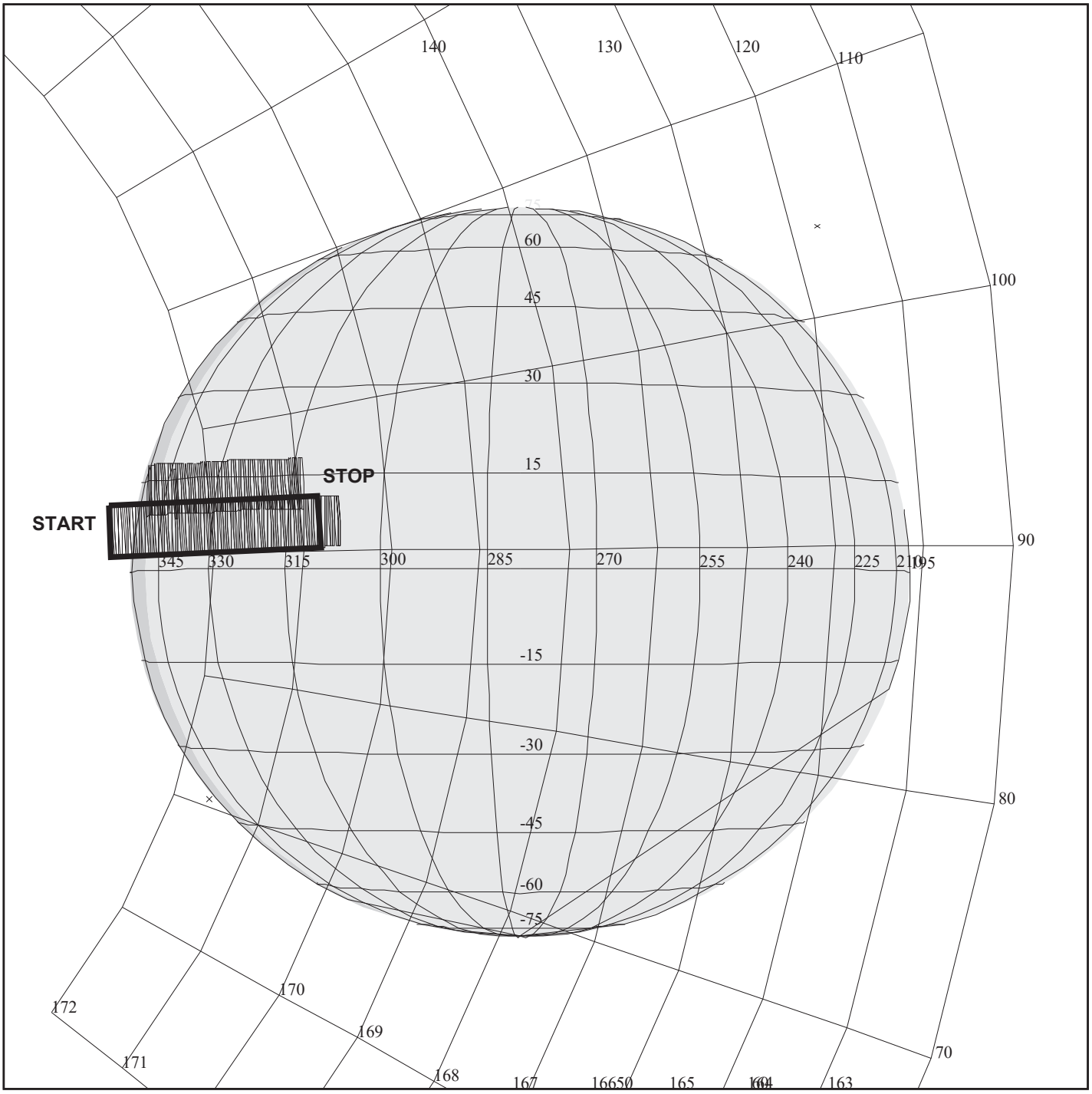
Data Returned

Design Detail

Shortmap, Nyquist-sampled observation of 4*1 (40*10 mrad) area centered on hot spot region near 325 degrees West longitude, 7 degrees North latitude. S/C distance about 0.89 million KM, NIMS IFOV (NIMSEL) = 445 KM; 4*1 mosaic covers 35600*8900 KM, about 400 seconds of scanning, accumulating 0.3593 MBTG in 19 colors, and using 0.01344 tracks.
2 minutes reserved for targetting. Wavelength table: JFT19A, TLM: LPU
Note 9/96: Observation record time and consequent playback reduced to 81 secs to satisfy reduced tape budget.
Note 10/96: This and other feature track OAPELs account for the 100.3 m/sec (-7 degrees per day) zonal wind.

Short Map (SM), Gain 2, Grating Start 1, LPU, E4JFT68C, E4JFT19A

Galileo Activity Plan Form 11/15/96 10:45:17 rev 6/95



165DW:TT= 0 TMC= 1 C= 21.00 XC= -6.00 BS= 0/3720 TC= 1(12 330)
A= 222 pD= 0 SR=17.450 RA50=281.55 DEC50=-23.95 cone=173.16 clock= 92.11
117DW:#SB= 2 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/3720
1:#s= 1 Cs= -43.70 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 1200 rD= 2
2:#s= 1 Cs= -32.70 XCs= 0.00 Cr= 41.00 XCr= 8.00 sD= 900 rD= 40

E4JNFEA01602

TARGET G2.0 jdods:11/ 5/1996 16:32:16

FILE:P.E4JNFEA01602

CENTRAL BODY:JUPITER

MINI:m.target.e4.961105

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

PERIAPSIS: **THINNING:NIM 2**

START:JLP 96-353/02:52:18.733 +CDS 538:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750**

OBSERVATION:E4JNFEA01602 **DESCRIP:E4_FEAT_CAMP_16_PHASE_02**

Jupiter Camp. feat. 16 deg. phase Prt 2 ACTIVITY ID: E4JNFEA01602-
START TIME: 96-353/11:54:59.399

Activity ID: Orbit E4 Target J Inst N OAPEL FEA016 SeqNo 02 -

Title	Jupiter Camp. feat. 16 deg. phase Prt 2	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS Working Group AWG

Time System	CDS	Load ID	E4A	Calendar Date	12/18/96 Week 51
Start	JLP+CDS	00000536:65:0	96-353/11:54:59.399		JLP+000/09:02:40.666
End	JLP+CDS	00000549:84:0	96-353/12:08:20.733		JLP+000/09:16:02.000
Duration		00000013:19:0	000/00:13:21.334		000/00:13:21.334

Top Label E4JNFEA01602-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	121	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

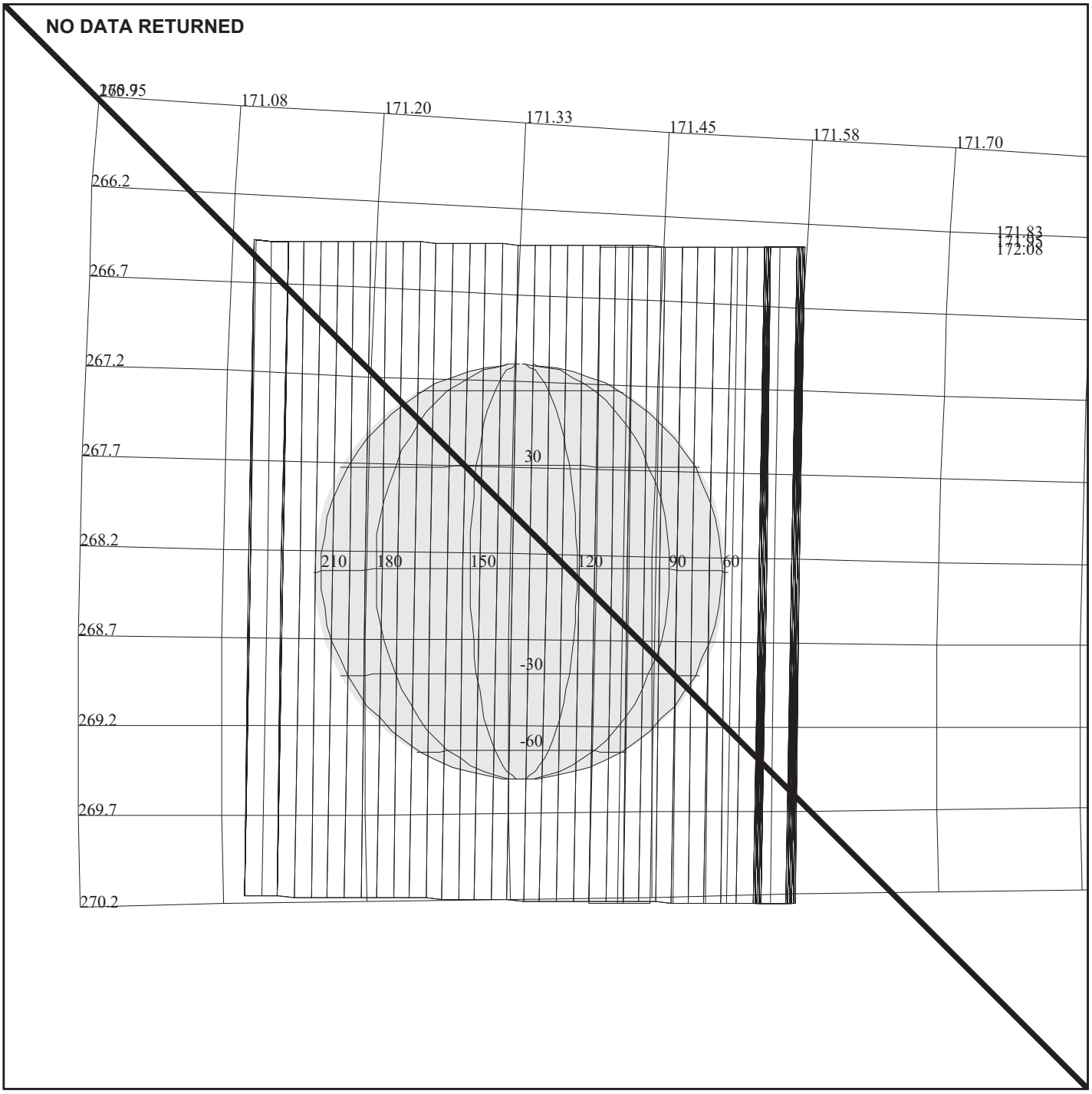
One of 20 OAPELs constituting the feature tracks for this feature campaign. Also, the second of 5 OAPELs constituting the partial feature track for feature B. For the primary feature campaign, this is the second observation obtained on a rotation with phase angle approximately 16 degrees. For the partial feature track B, this is the first observation obtained on this rotation. For both features Jupiter imaged in 25 colors, using NIMS downlink wavelength table JFT25A. This observation acquired with features (the primary feature is a region of hot spots; the partial feature is the northern equatorial region, including a plume head) near 40 degrees relative longitude, assumming campaign feature coordinates 7 degrees North latitude and 325 degrees West longitude and partial feature coordinates 2 degrees North latitude, 325 degrees West longitude (System III).

Data Returned

Design Detail

Shortmap, Nyquist-sampled observation of 4*1 (40*10 mrad) and 3*1 (30*10 mrad) contiguous areas. Hot spot near 325 degrees west longitude, 7 degrees north latitude, is centered on first, more northern tier. Equatorial region plumehead near 2 degrees latitude centered on subsequent 3*1 scan. S/C distance about 0.88 million KM, NIMS IFOV (NIMSEL) = 440 KM; 4*1 scan covers 35200*8800 KM; 3*1 scan covers 26400*8800 KM. About 400 seconds of scanning on the northern, hotspot tier, 300 seconds on southern tier,and 20 seconds for reposition slew accumulating 0.6468 MBTG in 25 colors, and using 0.02419 tracks. 1 minute reserved for targetting. Wavelength table: JFT25A, TLM: LPU
Note 10/18/96: This and other feature track OAPELs account for the 100.3 m/sec (-7 degrees per day) zonal wind.

Short Map (SM), Gain 2, Grating Start 1, LPU, E4JFT68C, E4JFT25A



165FD:TT= 0 TMC= 1 C= 4.00 XC= 0.00 BS=40/8270 TC= 3
A= 80 pD= 0 SR=17.450 RA50=297.95 DEC50=-21.70 cone=188.43 clock=268.32
117FD:#SB= 1 OR= 0.380 RR=12.000 BM=F RC= 1 BS=40/8270
1:#s= 1 Cs= 8.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 74 rD= 2

E4INVOLCAN05

TARGET G2.0 jdods:11/ 5/1996 16:32:16

FILE:P.E4INVOLCAN05

TARGET BODY : IO

MINI:m.target.e4.961105

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

PERIAPSIS: **THINNING:NIM 2**

START:JLP 96-353/02:52:18.733 +CDS 563:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.400**

OBSERVATION:E4INVOLCAN05 **DESCRIP:IO VOLCANOES**

Monitoring of Selected Volcanic Regions ACTIVITY ID: E4INVOLCAN05-
START TIME: 96-353/12:18:32.066

Activity ID: Orbit E4 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	E4A	Calendar Date	12/18/96 Week 51
Start	JLP+CDS	00000560:00:0	96-353/12:18:32.066		JLP+000/09:26:13.333
End	JLP+CDS	00000574:00:0	96-353/12:32:41.399		JLP+000/09:40:22.666
Duration		00000014:00:0	000/00:14:09.333		000/00:14:09.333

Top Label E4INVOLCAN05-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	153	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

To monitor time variations in activity of selected regions
(Loki, Pelee, Kanehekili) using selected wavelengths.

No Data Returned

Design Detail

Fixed Map, 10 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.)

Wavelength table: IXM10
TLM: LPU

Fixed Map (XM), Gain 2, Grating Start 21, LPU, E4IXM10B, E4IXM10B

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Reload NIMS Memory

ACTIVITY ID: E4NNRELOAD02-
START TIME: 96-353/12:59:59.334

Activity ID: Orbit E4 Target N Inst N OAPEL RELOAD SeqNo 02 -

Title	Reload NIMS Memory			Instrument	NIMS
Requestor	NIMS-SWG/J. HUI	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	E4A	Calendar Date	12/18/96 Week 51
Start	EEE-CDS	00001063:00:0	96-353/12:59:59.334		EEE-000/17:54:48.666
End	EEE-CDS	00001048:00:0	96-353/13:15:09.334		EEE-000/17:39:38.666
Duration		00000015:00:0	000/00:15:10.000		000/00:15:10.000

Top Label	E4NNRELOAD02-				
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

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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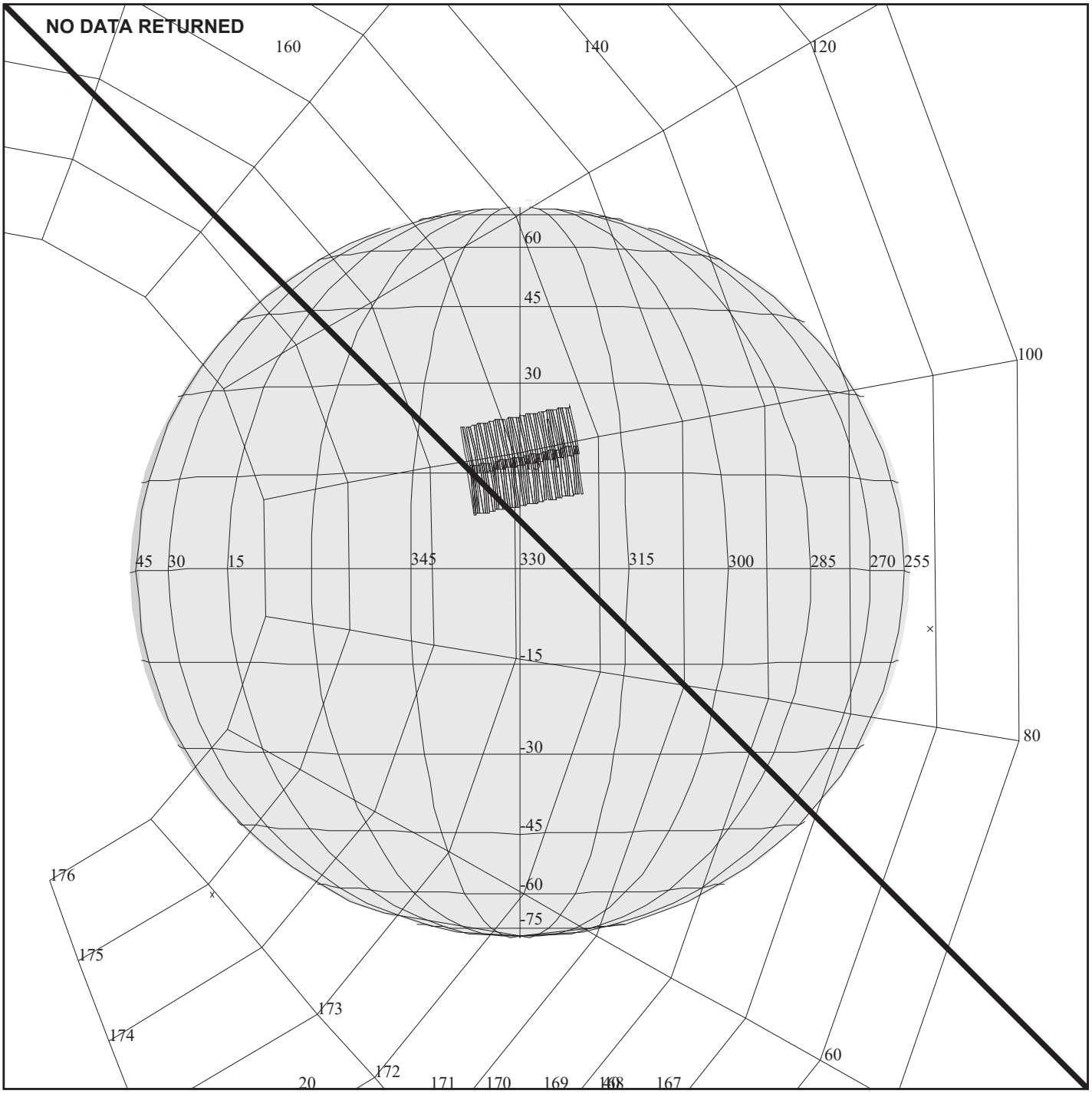


165DZ:TT= 0 TMC= 1 C= 11.00 XC= 0.50 BS= 0/9736 TC= 1(19.8 330)
A= 182 pD= 0 SR=17.450 RA50=282.02 DEC50=-22.93 cone=173.56 clock=101.05
117DZ:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/9736
1:#s= 2 Cs= -22.10 XCs= 0.00 Cr= 23.00 XCr= -8.00 sD= 608 rD= 40

E4JNPFTA1602

TARGET G2.0 jdods:11/ 5/1996 16:32:16

FILE:P.E4JNPFTA1602

CENTRAL BODY:JUPITER

MINI:m.target.e4.961105

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

PERIAPSIS: **THINNING:NIM 2**

START:JLP 96-353/02:52:18.733 +CDS 626:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750**

OBSERVATION:E4JNPFTA1602 **DESCRIP:E4_PARTIAL_FEA_16_PHASE_02**

Jup. Prt. Feat. Tr. A 16 deg Phse Prt 2 ACTIVITY ID: E4JNPFTA1602-
START TIME: 96-353/13:22:14.066

Activity ID: Orbit E4 Target J Inst N OAPEL PFTA16 SeqNo 02 -

Title	Jup. Prt. Feat. Tr. A 16 deg Phse Prt 2	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS Working Group AWG

Time System	CDS	Load ID	E4A	Calendar Date	12/18/96 Week 51
Start	JLP+CDS	00000623:00:0	96-353/13:22:14.066		JLP+000/10:29:55.333
End	JLP+CDS	00000634:00:0	96-353/13:33:21.399		JLP+000/10:41:02.666
Duration		00000011:00:0	000/00:11:07.333		000/00:11:07.333

Top Label E4JNPFTA1602-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	121	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

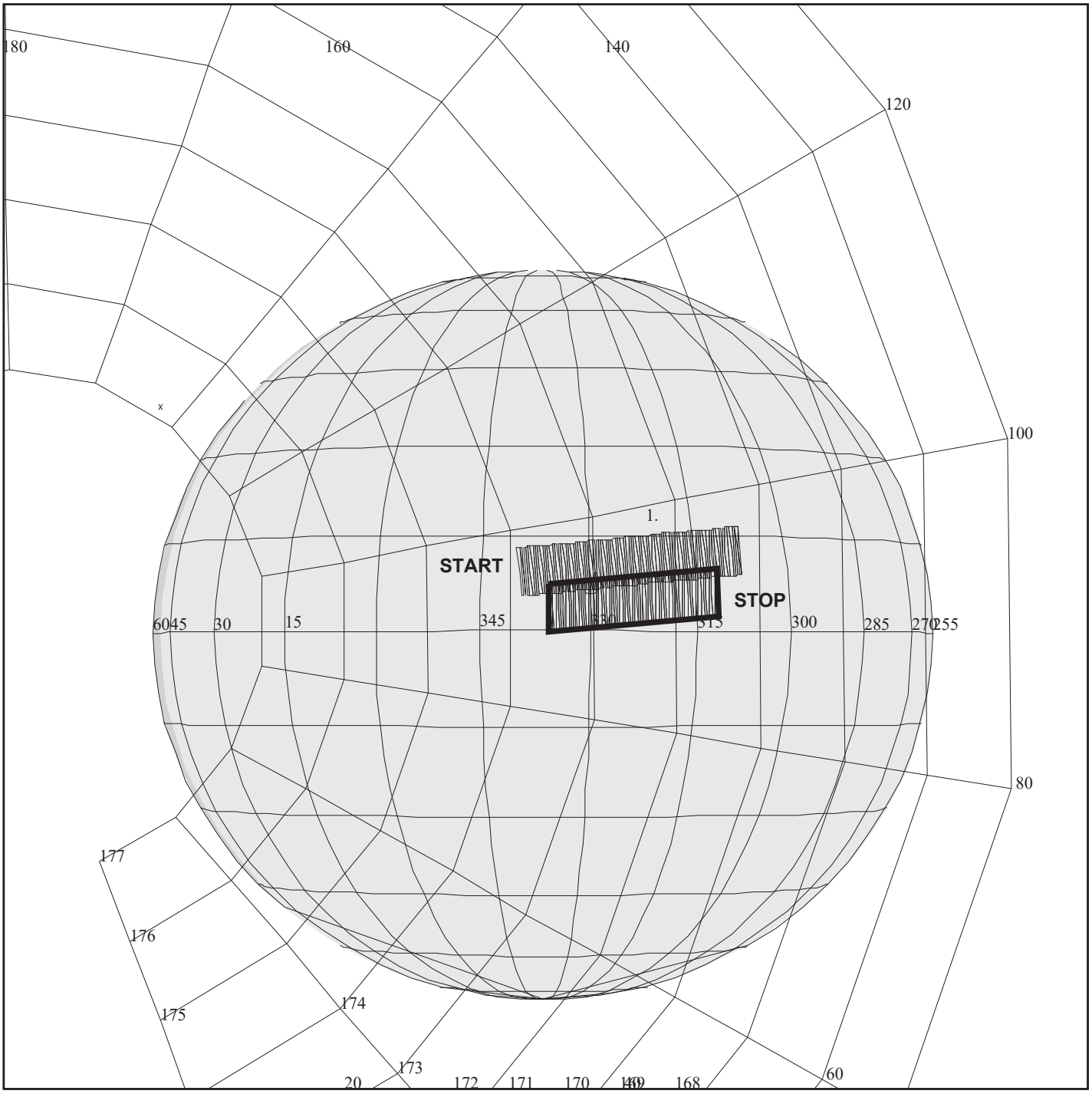
One of 5 OAPELs constituting the partial feature track for feature A.
This is the fourth observation of this feature and the second observation obtained on a rotation with phase angle approximately 16 degrees.
Jupiter imaged in 19 colors, using NIMS downlink wavelength table JFT19A.
This observation acquired with feature (NTRZ region to the north of the hot spot feature campaign region) near the terminator, assuming partial feature campaign coordinates 12 degrees North latitude and 325 degrees West longitude (system III).

No Data Returned

Design Detail

Shortmap, Nyquist-sampled observation of 2*2 (20*20 mrad) area centered on NTRZ near 325 degrees West longitude, 12 degrees North latitude.
S/C distance about 0.84 million KM. NIMS IFOV (NIMSEL) = 410 KM.
2*2 mosaic covers 16800*16800 KM. About 420 seconds of scanning (including 20 secs for reposition slew) accumulating 0.3773 MBTG in 19 colors, and using 0.01411 tracks. 1 minute reserved for targetting.
Wavelength table: JFT19A, TLM: LPU
Note 10/18/96: New solar conjunction playback constraints resulted in near total deletion of playback, only 2 secs of playback remain.

Short Map (SM), Gain 2, Grating Start 1, LPU, E4JFT68C, E4JFT19A



165EA:TT= 0 TMC= 1 C= 22.00 XC= -1.50 BS= 0/1920 TC= 1(12 325)
A= 364 pD= 0 SR=17.450 RA50=282.39 DEC50=-23.58 cone=173.94 clock= 95.25
117EA:#SB= 2 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/1920
1:#s= 1 Cs= -43.80 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 1200 rD= 2
2:#s= 1 Cs= -32.90 XCs= 0.00 Cr= 39.00 XCr= -8.00 sD= 900 rD= 40

E4JNFEA01604

TARGET G2.0 jdods:11/ 5/1996 16:32:16

FILE:P.E4JNFEA01604

CENTRAL BODY:JUPITER

MINI:m.target.e4.961105

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

PERIAPSIS:

THINNING:NIM 2

START:JLP 96-353/02:52:18.733 +CDS 638:00:0

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

OBSERVATION:E4JNFEA01604

DESCRIP:E4_FEAT_CAMP_16_PHASE_04

Jupiter Camp. feat. 16 deg. phase Prt 4 ACTIVITY ID: E4JNFEA01604-
START TIME: 96-353/13:34:22.066

Activity ID: Orbit E4 Target J Inst N OAPEL FEA016 SeqNo 04 -

Title	Jupiter Camp. feat. 16 deg. phase Prt 4	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS Working Group AWG

Time System	CDS	Load ID	E4A	Calendar Date	12/18/96 Week 51
Start	JLP+CDS	00000635:00:0	96-353/13:34:22.066		JLP+000/10:42:03.333
End	JLP+CDS	00000650:00:0	96-353/13:49:32.066		JLP+000/10:57:13.333
Duration		00000015:00:0	000/00:15:10.000		000/00:15:10.000

Top Label E4JNFEA01604-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	121	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

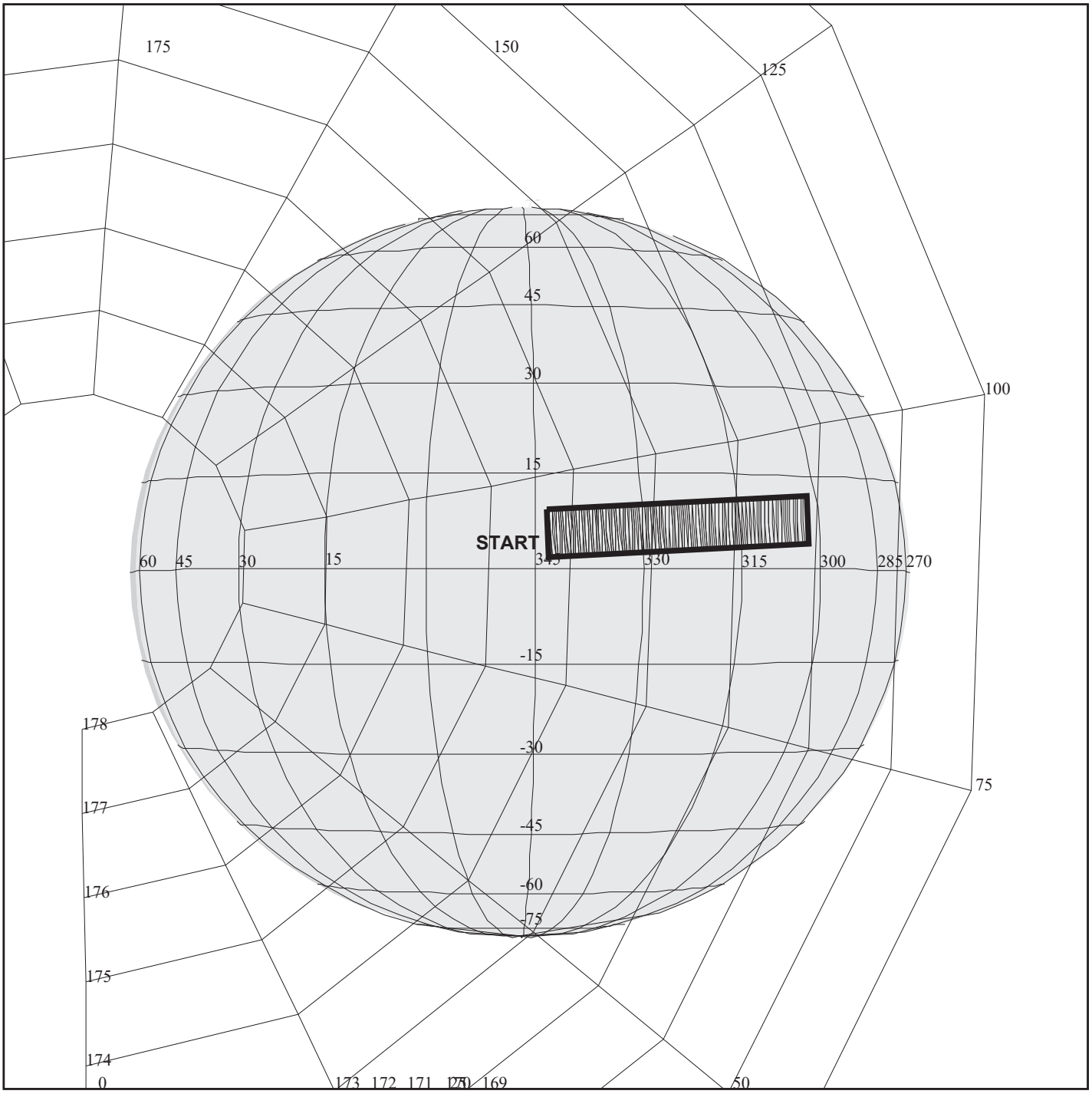
One of 20 OAPELs constituting the feature tracks for this feature campaign. Also obtains territory just to the north of the hot spot latitudinal scan; for the primary feature campaign, this is the fourth observation obtained on a rotation with phase angle approximately 16 degrees. For both features Jupiter imaged in 25 colors, using NIMS downlink wavelength table JFT25A. This observation acquired with features (the primary feature is a region of hot spots, the partial feature is the northern equatorial region, including a plume head) near minimum airmass, asumming campaign feature coordinates 7 degrees North latitude and 325 degrees West longitude and partial feature coordinates 2 degrees North latitude, 325 degrees West longitude (System III).

No Data Returned

Design Detail

Shortmap, Nyquist-sampled observation of 4*1 (40*10 mrad) and 3*1 (30*10 mrad) contiguous areas. Hot spot near 325 degrees west longitude, 7 degrees north latitude, is centered on first, more northern tier. North Equatorial Belt region near 2 degrees latitude centered on subsequent 3*1 scan for the partial feature. S/C distance about 0.82 million KM, NIMS IFOV (NIMSEL) = 410 KM; 4*1 scan covers 32800*8200 KM; 3*1 scan covers 24600*8200 KM. About 8 minutes of scanning on the northern, hotspot tier, 300 seconds on southern tier, and 20 secs for reposition slew, accumulating 0.6468 MBTG in 25 colors, and using 0.02419 tracks. 2 minutes reserved for targetting.
Wavelength table: JFT25A, TLM: LPU
Note 10/18/96: New solar conjunction playback constraints resulted in significant of cutback of playback. Only 297secs of data returned, covering the scan to the north of the hotspot region. This and other feature track OAPELs account for the 100.3 m/sec (-7 degrees per day) zonal wind.

Short Map (SM), Gain 2, Grating Start 1, LPU, E4JFT68C, E4JFT25A



165EB:TT= 0 TMC= 1 C= 20.00 XC= -7.50 BS= 0/5378 TC= 1(12 330)
A= 728 pD= 0 SR=17.450 RA50=282.88 DEC50=-23.80 cone=174.38 clock= 92.90
117EB:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/5378
1:#s= 1 Cs= -43.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 4312 rD= 2

E4JNFEASUB01

TARGET G2.0 jdods:11/ 5/1996 16:32:16

FILE:P.E4JNFEASUB01

CENTRAL BODY:JUPITER

MINI:m.target.e4.961105

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

PERIAPSIS: **THINNING:NIM 2**

START:JLP 96-353/02:52:18.733 +CDS 0657:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750**

OBSERVATION:E4JNFEASUB01 **DESCRIP:E4_FEAT_CAMP_SUB_SPECTRA**

Jupiter Camp. feat. sub-spectra ACTIVITY ID: E4JNFEASUB01-
START TIME: 96-353/13:51:33.399

Activity ID: Orbit E4 Target J Inst N OAPEL FEASUB SeqNo 01 -

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

Time System	CDS	Load ID	E4A	Calendar Date	12/18/96 Week 51
Start	JLP+CDS	00000652:00:0	96-353/13:51:33.399		JLP+000/10:59:14.666
End	JLP+CDS	00000681:00:0	96-353/14:20:52.733		JLP+000/11:28:34.000
Duration		00000029:00:0	000/00:29:19.334		000/00:29:19.334

Top Label	E4JNFEASUB01-				
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 (hot spot near 7 degrees north latitude, 325 degrees west longitude), acquired in several CH4 and H2 absorption features. This single partial-spectra map obtained under good lighting conditions (14 degrees solar incidence angle, 25 degrees emission angle). During this phase angle ~ 16 degrees rotation, Jupiter imaged in 80 colors distributed among five spectral regions, using NIMS downlink wavelength table JSB80A.

Data Returned

Design Detail

Longmap, Nyquist-sampled observation of 4*1 (40*10 mrad) area centered on the north hemisphere hot spot region. S/C distance about 0.81 million KM. NIMS IFOV = 405 KM. Map covers 32400*8100 KM. About 24 minutes of scanning, accumulating 1.450 MBTG and using 0.0484 tracks. 4 minutes reserved for targetting. Wavelength table: JSB80A, TLM: LPU
Note 10/18/96: This and other feature track OAPELs account for the 100.3 m/sec (-7 degree per day) zonal wind.

Long Map (LM), Gain 2, Grating Start 0, LPU, E4JSB253A, E4JSB80A

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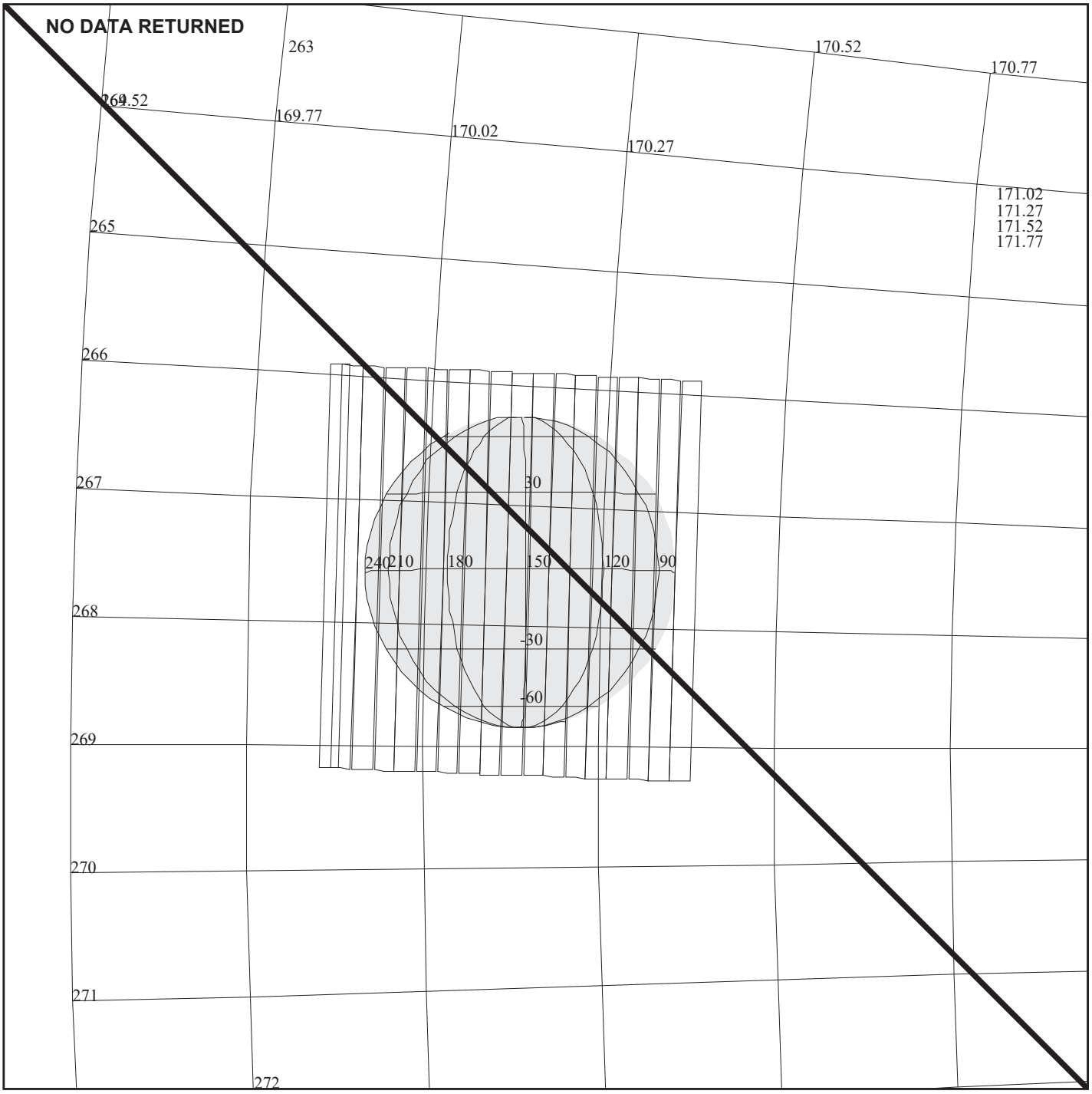

165EC:TT= 0 TMC= 1 C= -4.60 XC= 0.00 BS=18/0656 TC= 3
A= 582 pD= 0 SR=17.450 RA50=299.66 DEC50=-21.17 cone=169.89 clock=267.55
117EC:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS=18/0656
1:#s= 1 Cs= 9.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 904 rD= 2

E4INCHEMIS02

TARGET G2.0 jdods:11/ 5/1996 16:32:16

FILE:P.E4INCHEMIS02

TARGET BODY : IO

MINI:m.target.e4.961105

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

PERIAPSIS: **THINNING:NIM 2**

START:JLP 96-353/02:52:18.733 +CDS 686:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.300**

OBSERVATION:E4INCHEMIS02 **DESCRIP:IO DAYSIDE**

Monitoring of Io's Dayside

ACTIVITY ID: E4INCHEMIS02-
START TIME: 96-353/14:21:53.399

Activity ID: Orbit E4 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	E4A	Calendar Date	12/18/96 Week 51

Start	JLP+CDS 00000682:00:0	96-353/14:21:53.399	JLP+000/11:29:34.666
End	JLP+CDS 00000692:00:0	96-353/14:32:00.066	JLP+000/11:39:41.333
Duration	00000010:00:0	000/00:10:06.667	000/00:10:06.667

Top Label	E4INCHEMIS02-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	128	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, 102 wavelengths.
Tracks used per orbit: 0.05 to 0.42.
Bits To Ground per orbit: 0.3 to 2.2 Mbits.
Wavelength table: ILM102, TLM: LPU.

Long Map (LM), Gain 2, Grating Start 0, LPU, E4ILM245, E4ILM102

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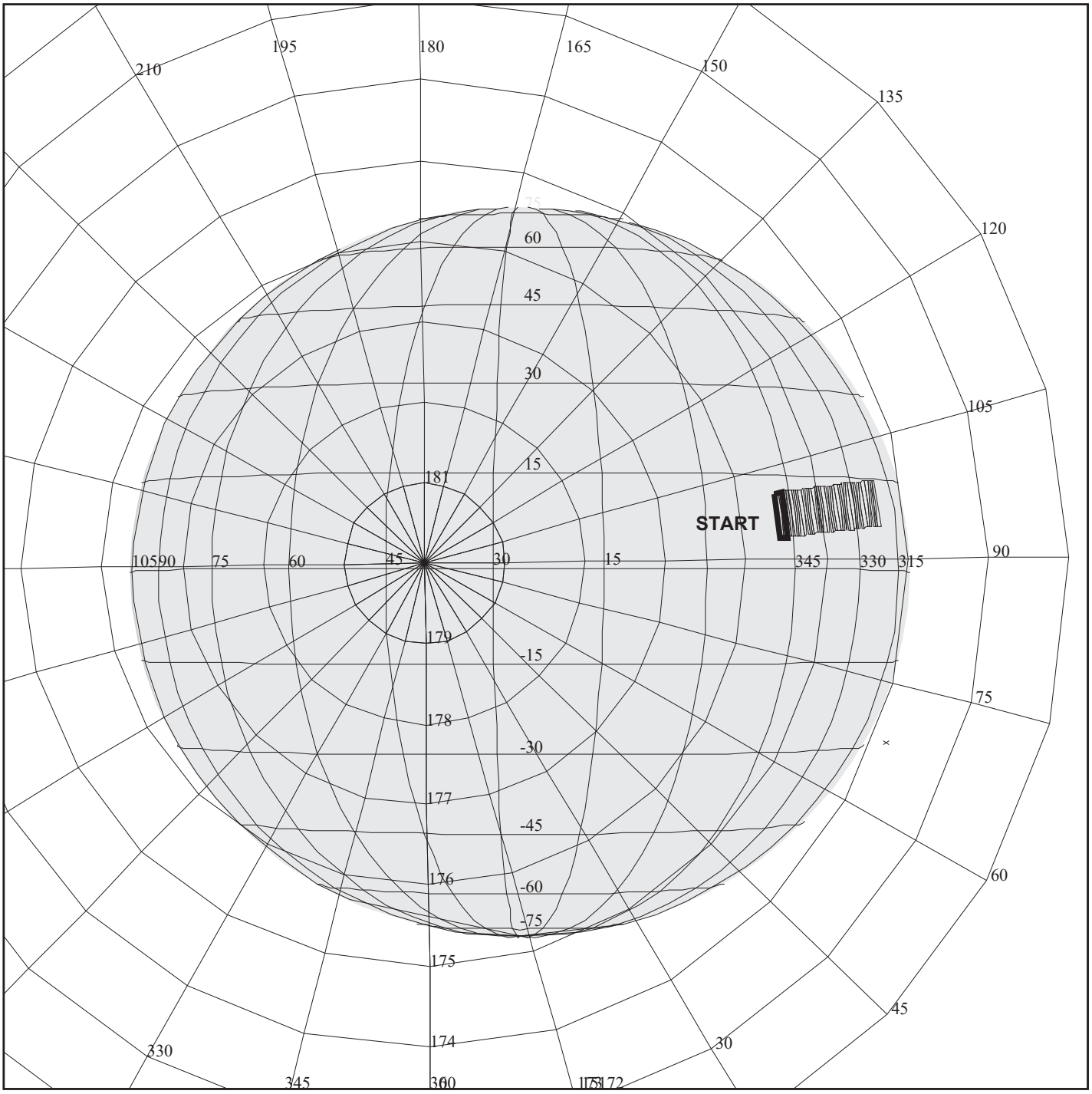


165ED:TT= 0 TMC= 1 C= 17.00 XC= 5.00 BS= 0/8300 TC= 1(6.8 330)
A= 770 pD= 0 SR=17.450 RA50=284.18 DEC50=-23.41 cone=175.57 clock= 97.11
117ED:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/8300
1:#s= 1 Cs= -19.50 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 536 rD= 2

E4JNPFTB1603

TARGET G2.0 jdods:11/ 5/1996 16:32:16

FILE:P.E4JNPFTB1603

CENTRAL BODY:JUPITER

MINI:m.target.e4.961105

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

PERIAPSIS:

THINNING:NIM 2

START:JLP 96-353/02:52:18.733 +CDS 728:00:0

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

OBSERVATION:E4JNPFTB1603

DESCRIP:E4_PARTIAL_FEA_16_PHASE_03

Jup. partial feat. tr. for feat. B Prt 4 ACTIVITY ID: E4JNPFTB1603
START TIME: 96-353/15:03:20.733

Activity ID: Orbit E4 Target J Inst N OAPEL PFTB16 SeqNo 03

Title	Jup. partial feat. tr. for feat. B Prt 4	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS Working Group AWG

Time System	CDS	Load ID	E4A	Calendar Date	12/18/96 Week 51
Start	JLP+CDS	00000723:00:0	96-353/15:03:20.733		JLP+000/12:11:02.000
End	JLP+CDS	00000731:00:0	96-353/15:11:26.066		JLP+000/12:19:07.333
Duration		00000008:00:0	000/00:08:05.333		000/00:08:05.333

Top Label E4JNPFTB1603-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	121	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

The fourth of 5 OAPELs constituting the partial feature track for feature B; the third observation obtained on this rotation (4 other observations of this feature can be found imbedded within OAPELs FEA04103, FEA01602, FEA01604 and FEA01605). Jupiter imaged in 19 colors, using NIMS downlink wavelength table JFT19A. This observation acquired with feature (the northern equatorial region, including a plume head) near 40 degrees relative longitude, assuming partial feature coordinates 2 degrees North latitude, 325 degrees West longitude (System III).

Data Returned

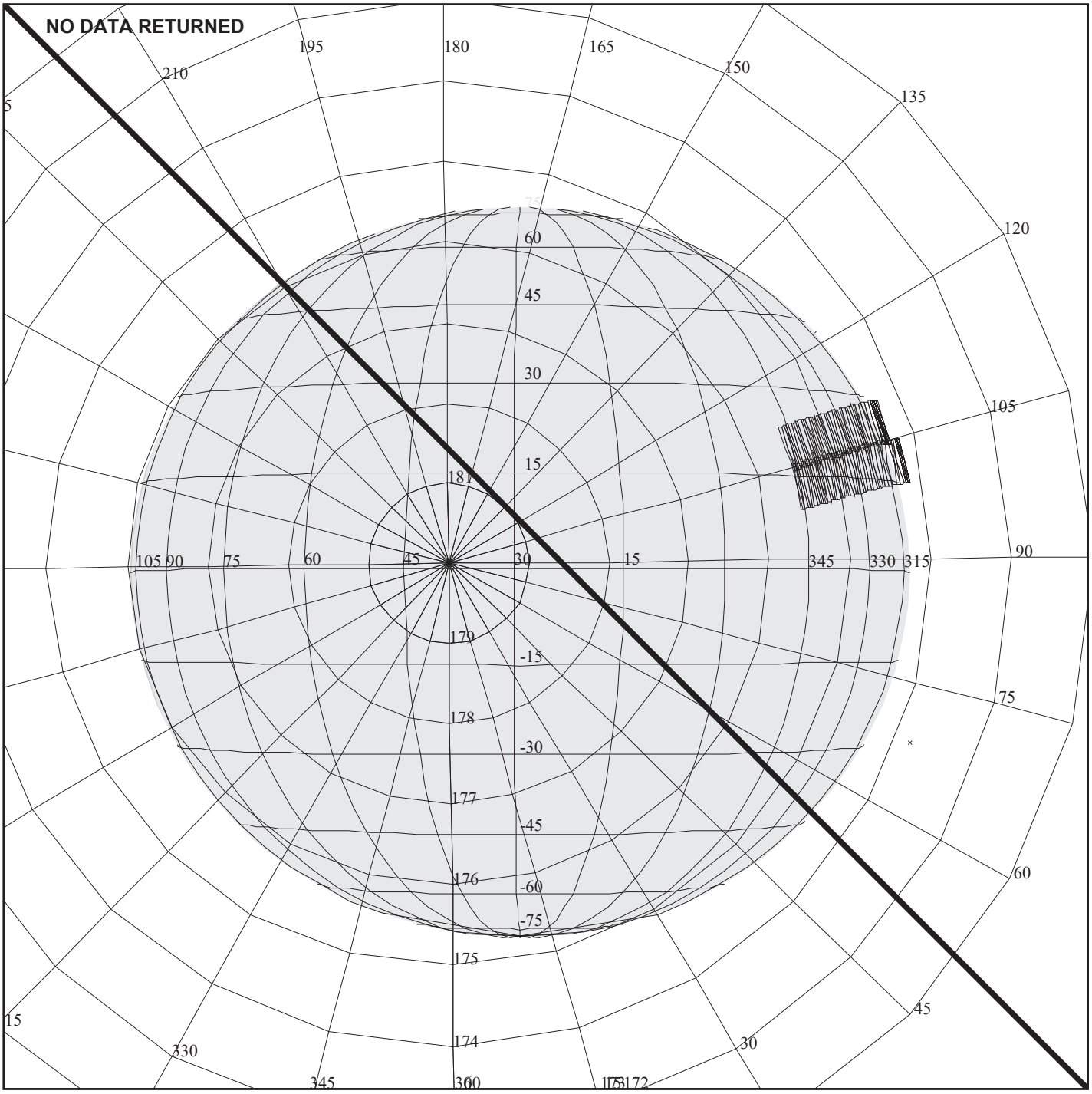
Design Detail

Shortmap, Nyquist-sampled observation of 3*1 (30*10 mrad) contiguous area of feature track B. Equatorial region plumehead near 2 degrees latitude centered on 3*1 scan. S/C distance about 0.88 million KM, NIMS IFOV (NIMSEL) = 440 KM; 3*1 scan covers 26400*8800 KM. About 300 seconds of scanning on southern tier, accumulating 0.2695 MBTG in 19 colors, and using 0.01008 tracks. 4 minutes reserved for targetting.
Wavelength table: JFT19A, TLM: LPU
Note 9/96: Observation record time and consequent playback reduced to 27 seconds to satisfy reduced tape budget.

Only 6 grating cycles returned.

Short Map (SM), Gain 2, Grating Start 1, LPU, E4JFT68C, E4JFT19A

Galileo Activity Plan Form 11/15/96 10:45:18 rev 6/95



165EE:TT= 0 TMC= 1 C= 13.00 XC= 4.50 BS= 0/9210 TC= 1(19.8 330)
A= 302 pD= 0 SR=17.450 RA50=284.25 DEC50=-22.57 cone=175.55 clock=108.09
117EE:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/9210
1:#s= 2 Cs= -18.00 XCs= 0.00 Cr= 20.00 XCr= -8.00 sD= 662 rD= 48

E4JNPFTA1603

TARGET G2.0 jdods:11/ 5/1996 16:32:16

FILE:P.E4JNPFTA1603

CENTRAL BODY:JUPITER

MINI:m.target.e4.961105

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

PERIAPSIS:

THINNING:NIM 2

START:JLP 96-353/02:52:18.733 +CDS 733:00:0

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

OBSERVATION:E4JNPFTA1603

DESCRIP:E4_PARTIAL_FEA_16_PHASE_03

Jup. Prt. Feat. Tr. A 16 deg Phse Prt 3 ACTIVITY ID: E4JNPFTA1603-
START TIME: 96-353/15:11:32.733

Activity ID: Orbit E4 Target J Inst N OAPEL PFTA16 SeqNo 03 -

Title	Jup. Prt. Feat. Tr. A 16 deg Phse Prt 3	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS Working Group AWG

Time System	CDS	Load ID	E4A	Calendar Date	12/18/96 Week 51
Start	JLP+CDS	00000731:10:0	96-353/15:11:32.733		JLP+000/12:19:14.000
End	JLP+CDS	00000743:00:0	96-353/15:23:34.066		JLP+000/12:31:15.333
Duration		00000011:81:0	000/00:12:01.333		000/00:12:01.333

Top Label E4JNPFTA1603-
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 5 OAPELs constituting the partial feature track for feature A. This is the fifth observation of this feature and the third observation obtained on a rotation with phase angle approximately 16 degrees. Jupiter imaged in 19 colors, using NIMS downlink wavelength table JFT19A. This observation acquired with feature (NTRZ region to the north of the hot spot feature campaign region) near the evening limb, assuming partial feature campaign coordinates 12 degrees North latitude and 325 degrees West longitude (system III).

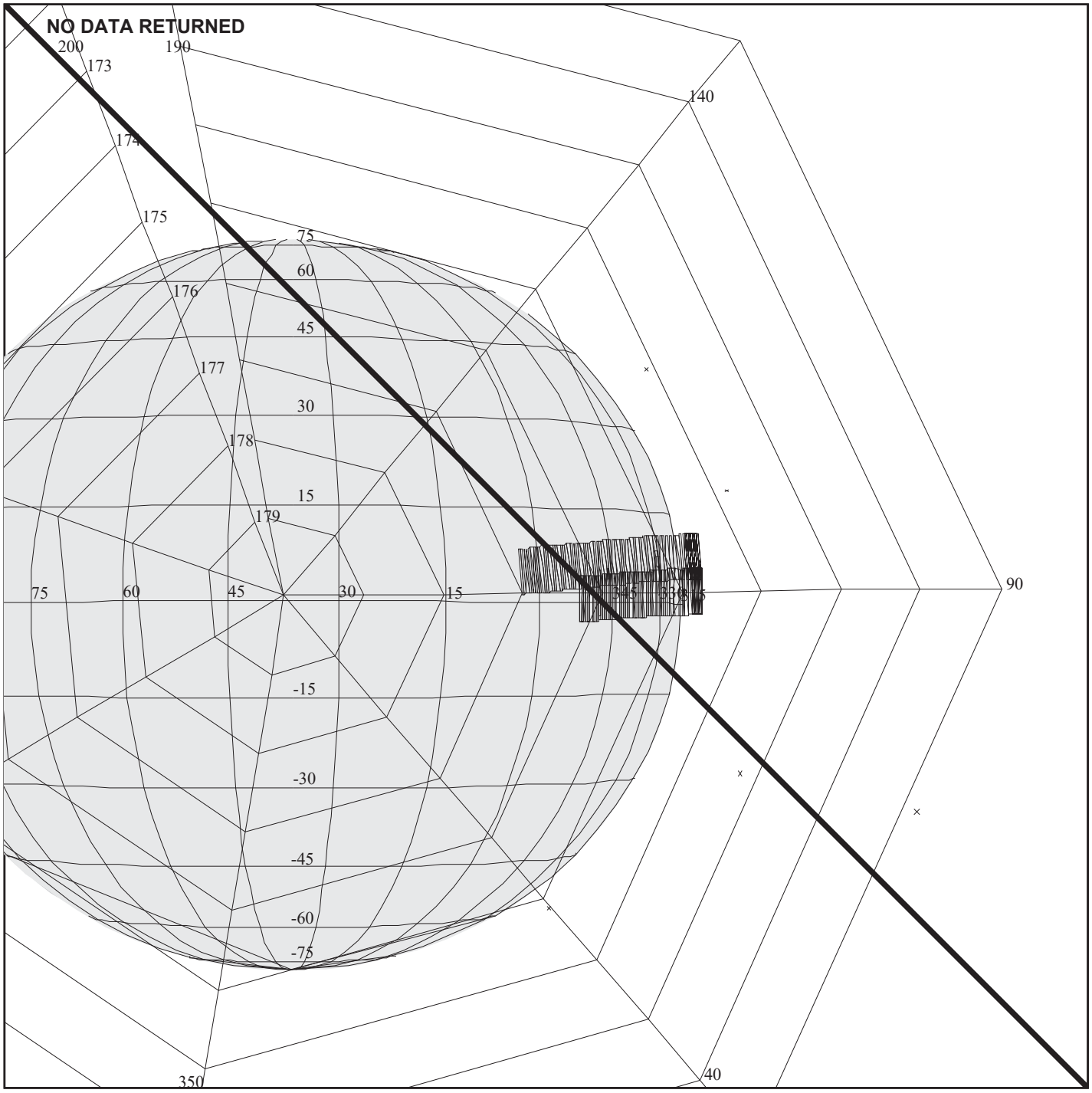
No Data Returned

Design Detail

Shortmap, Nyquist-sampled observation of 2*2 (20*20 mrad) area centered on NTRZ near 325 degrees West longitude, 12 degrees North latitude. S/C distance about 0.82 million KM. NIMS IFOV (NIMSEL) = 4100 KM. 2*2 mosaic covers 16400*16400 KM. About 420 seconds of scanning (including 20 secs for reposition slew) accumulating 0.3773 MBTG in 19 colors, and using 0.01411 tracks. 4 minutes reserved for targetting. Wavelength table: JFT19A, TLM: LPU
Note 10/18/96: Playback severely reduced (to 2 seconds) due to new solar conjunction playback constraints.

Short Map (SM), Gain 2, Grating Start 1, LPU, E4JFT68C, E4JFT19A

Galileo Activity Plan Form 11/15/96 10:45:18 rev 6/95



165EF:TT= 0 TMC= 1 C= 30.00 XC= -6.00 BS= 0/1576 TC= 1(12 330)
A= 364 pD= 0 SR=17.450 RA50=285.74 DEC50=-23.52 cone=177.01 clock= 95.35
117EF:#SB= 2 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/1576
1:#s= 1 Cs= -32.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 1288 rD= 2
2:#s= 1 Cs= -17.00 XCs= 0.00 Cr= 23.00 XCr= -7.00 sD= 978 rD= 54

E4JNFEA01605

TARGET G2.0 jdods:11/ 5/1996 16:32:16

FILE:P.E4JNFEA01605

CENTRAL BODY:JUPITER

MINI:m.target.e4.961105

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

PERIAPSIS: **THINNING:NIM 2**

START:JLP 96-353/02:52:18.733 +CDS 0746:00:0 **BODY PLOT TIME:CENTER-TIME D= 0 S= 0.750**

OBSERVATION:E4JNFEA01605 **DESCRIP:E4_FEAT_CAMP_16_PHASE_05**

Jupiter Camp. feat. 16 deg. phase Prt 5 ACTIVITY ID: E4JNFEA01605-
START TIME: 96-353/15:24:34.733

Activity ID: Orbit E4 Target J Inst N OAPEL FEA016 SeqNo 05 -

Title	Jupiter Camp. feat. 16 deg. phase Prt 5	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS Working Group AWG

Time System	CDS	Load ID	E4A	Calendar Date	12/18/96 Week 51
Start	JLP+CDS	00000744:00:0	96-353/15:24:34.733		JLP+000/12:32:16.000
End	JLP+CDS	00000759:00:0	96-353/15:39:44.733		JLP+000/12:47:26.000
Duration		00000015:00:0	000/00:15:10.000		000/00:15:10.000

Top Label E4JNFEA01605-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	121	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of 20 OAPELs constituting the feature tracks for this feature campaign. Also, the fifth of five OAPELs constituting the partial feature track for feature B. For the primary feature campaign, this is the fifth observation obtained on a rotation with phase angle approximately 16 degrees. For the partial feature track B, this is the fourth observation obtained on this rotation. For both features Jupiter imaged in 19 colors, using NIMS downlink wavelength table JFT19A. This observation acquired with features (the primary feature is a region of hot spots, the partial feature is the northern equatorial region, including a plume head) near the evening limb, assumming campaign feature coordinates 7 degrees North latitude and 325 degrees West longitude and partial feature coordinates 2 degrees North latitude, 325 degrees West longitude (System III).

No Data Returned

Design Detail

Shortmap, Nyquist-sampled observation of 4*1 (40*10 mrad) and 3*1 (30*10 mrad) contiguous areas. Hot spot near 330 degrees west longitude, 12 degrees north latitude, is centered on primary, more northern tier. Equatorial region plumehead near 6.8 degrees latitude centered on subsequent 3*1 scan for the partial feature. S/C distance about 0.82 million KM, NIMS IFOV (NIMSEL) = 410 KM; 4*1 scan covers 32800*8200 KM; 3*1 scan covers 24600*8200 KM. About 400 secs of scanning on the northern, hotspot tier and 300 seconds on southern tier, and 20 secs for reposition slew, accumulating 0.6468 MBTG in 19 colors, and using 0.02419 tracks. 2 minutes reserved for targetting. Wavelength table: JFT19A, TLM: LPU
Note 10/18/96: Playback severely reduced (to 2.0 seconds) due to new solar conjunction playback constraints.

Short Map (SM), Gain 2, Grating Start 1, LPU, E4JFT68C, E4JFT19A

Galileo Activity Plan Form 11/15/96 10:45:18 rev 6/95

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Reload NIMS Memory

ACTIVITY ID: E4NNRELOAD03-
START TIME: 96-353/16:59:37.334

Activity ID: Orbit E4 Target N Inst N OAPEL RELOAD SeqNo 03 -

Title	Reload NIMS Memory			Instrument	NIMS
Requestor	NIMS-SWG/J. HUI	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	E4A	Calendar Date	12/18/96 Week 51
Start	EEE-CDS 00000826:00:0	96-353/16:59:37.334		EEE-000/13:55:10.666	
End	EEE-CDS 00000811:00:0	96-353/17:14:47.334		EEE-000/13:40:00.666	
Duration	00000015:00:0	000/00:15:10.000		000/00:15:10.000	

Top Label	E4NNRELOAD03-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	50	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

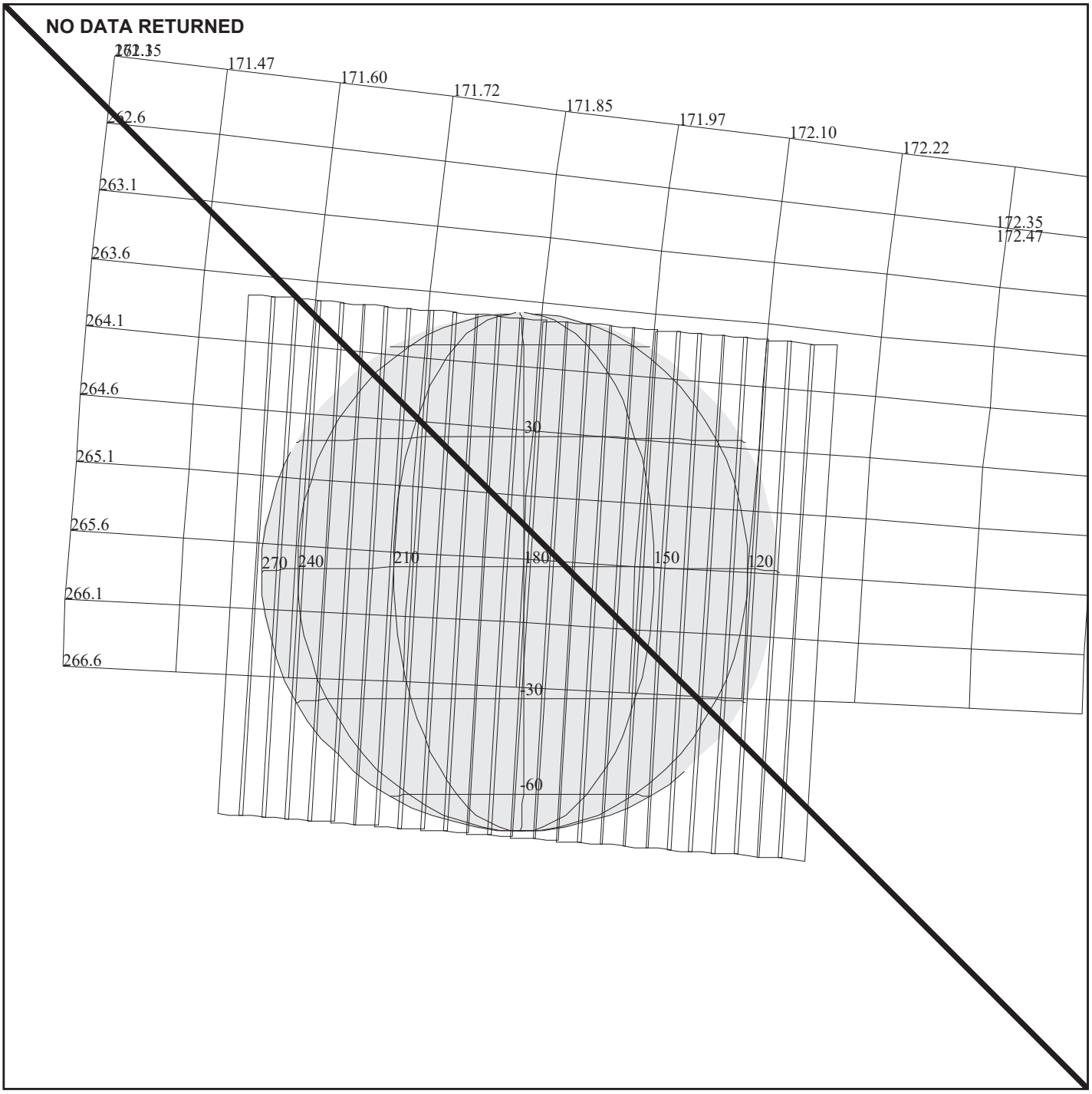
Observation Objective

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 11/15/96 10:45:19 rev 6/95



165EG:TT= 0 TMC= 1 C= -5.40 XC= 0.00 BS= 0/5054 TC= 3
A= 910 pD= 0 SR=17.450 RA50=297.87 DEC50=-21.31 cone=171.54 clock=265.68
117EG:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/5054
1:#s= 1 Cs= 13.20 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 1324 rD= 2

E4INCHEMIS03

TARGET G2.0 jdods:11/ 5/1996 16:32:16

FILE:P.E4INCHEMIS03

TARGET BODY : IO

MINI:m.target.e4.961105

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

PERIAPSIS: **THINNING:NIM 2**

START:IEE 96-353/21:36:40.066 -CDS 237:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.500**

OBSERVATION:E4INCHEMIS03 **DESCRIP:IO DAYSIDE**

Monitoring of Io's Dayside

ACTIVITY ID: E4INCHEMIS03-
START TIME: 96-353/17:31:58.733

Activity ID: Orbit E4 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	E4A	Calendar Date	12/18/96 Week 51
Start	IEE-CDS 00000242:00:0	96-353/17:31:58.733		IEE-000/04:04:41.333	
End	IEE-CDS 00000229:00:0	96-353/17:45:07.400		IEE-000/03:51:32.666	
Duration	00000013:00:0	000/00:13:08.667		000/00:13:08.667	

Top Label E4INCHEMIS03-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	128	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, 228 wavelengths.
Tracks used per orbit: 0.05 to 0.42.
Bits To Ground per orbit: 0.3 to 2.2 Mbits.
Wavelength table: ILM228, TLM: LPU.

Long Map (LM), Gain 2, Grating Start 0, LPU, E4ILM245, E4ILM228

Galileo Activity Plan Form 11/15/96 10:45:19 rev 6/95

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Full NIMS Memory Read Out Part 1 ACTIVITY ID: E4NNFULMRO01-
START TIME: 96-353/17:50:10.667

Activity ID: Orbit E4 Target N Inst N OAPEL FULMRO SeqNo 01 -

Title	Full NIMS Memory Read Out Part 1	Instrument	NIMS
Requestor	NIMS-SWG/J. HUI	Team NIMS	Working Group SWG

Time System	CDS	Load ID	E4A	Calendar Date	12/18/96 Week 51
Start	EEE-CDS	00000776:00:0	96-353/17:50:10.667		EEE-000/13:04:37.333
End	EEE-CDS	00000578:00:0	96-353/21:10:22.667		EEE-000/09:44:25.333
Duration		00000198:00:0	000/03:20:12.000		000/03:20:12.000

Top Label	E4NNFULMRO01-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	50	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

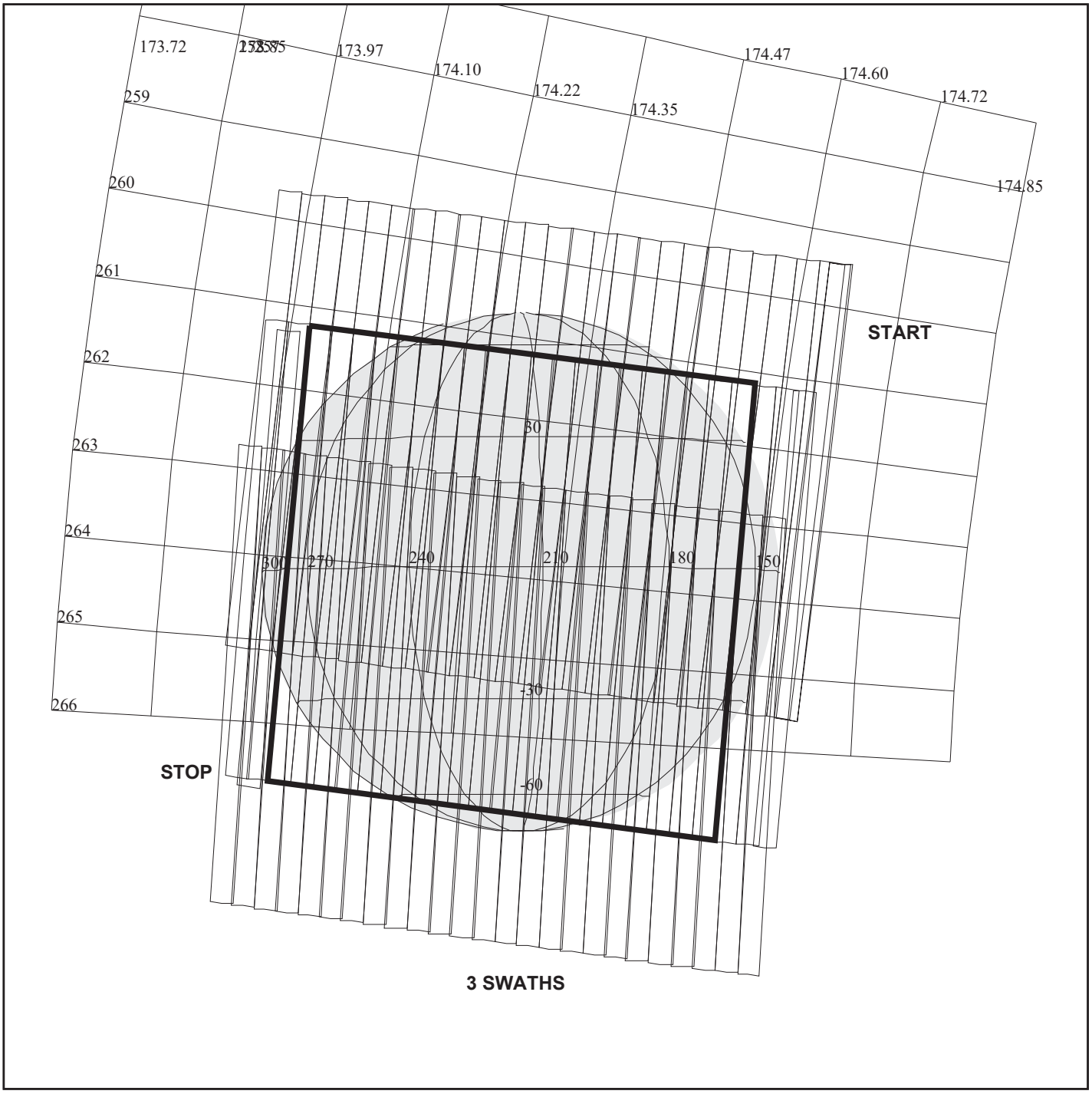
Observation Objective

Full memory readout to help understand software failure problem.

Design Detail

Read out 30 blocks of 32 bytes each of NIMS memory.
Start at 1000 HEX
End at 13BF HEX

Galileo Activity Plan Form 11/15/96 10:45:19 rev 6/95



165EH:TT= 0 TMC= 1 C= 6.20 XC= -2.50 BS=48/4912 TC= 3
A= 728 pD= 0 SR=17.450 RA50=294.55 DEC50=-21.85 cone=174.65 clock=262.48
117EH:#SB= 1 OR= 0.030 RR= 3.000 BM=F RC= 1 BS=48/4912
1:#s= 3 Cs= -12.80 XCs= 0.00 Cr= 11.90 XCr= 3.00 sD= 1284 rD= 48

E4INHRSPEC01

TARGET G2.0 jdods:11/ 5/1996 16:32:16

FILE:P.E4INHRSPEC01

TARGET BODY : IO

MINI:m.target.e4.961105

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

PERIAPSIS:

THINNING:NIM 2

START:IEE 96-353/21:36:40.066 -CDS 18:00:0

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

OBSERVATION:E4INHRSPEC01

DESCRIP:IO HI RES OBSERVATIONS

High Spatial & Spectral Obs. of Io ACTIVITY ID: E4INHRSPEC01-
START TIME: 96-353/21:14:25.400

Activity ID: Orbit E4 Target I Inst N OAPEL HRSPEC SeqNo 01 -

Title	High Spatial & Spectral Obs. of Io	Instrument	NIMS
Requestor	NIMS-SWG/R. LOPES	Team NIMS	Working Group SWG

Time System	CDS	Load ID	E4A	Calendar Date	12/18/96 Week 51
Start	IEE-CDS 00000022:00:0	96-353/21:14:25.400		IEE-000/00:22:14.666	
End	IEE+CDS 00000014:00:0	96-353/21:50:49.399		IEE+000/00:14:09.333	
Duration	00000036:00:0	000/00:36:23.999		000/00:36:23.999	

Top Label	E4INHRSPEC01-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	128	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, 228 wavelengths
Wavelength table: ILM228, TLM: LPU

3 overlapping Swaths.
Only the second (middle) Swath returned.

A small part of Swath 1 was returned with only 1 wavelength from detector 8 to monitor detector 8's failure status.

Long Map (LM), Gain 2, Grating Start 0, LPU, E4ILM245, E4ILM001
Long Map (LM), Gain 2, Grating Start 0, LPU, E4ILM245, E4ILM96

Galileo Activity Plan Form 11/15/96 10:45:19 rev 6/95

NIMS Checksum

ACTIVITY ID: E4NNCHKSUM01-
START TIME: 96-353/22:59:34.667

Activity ID: Orbit E4 Target N Inst N OAPEL CHKSUM SeqNo 01 -

Title	NIMS Checksum			Instrument	NIMS
Requestor	NIMS-SWG/J. HUI	Team	NIMS	Working Group	SWG

Time System CDS Load ID E4A Calendar Date 12/18/96 Week 51

Start	EEE-CDS 00000470:00:0	96-353/22:59:34.667	EEE-000/07:55:13.333
End	EEE-CDS 00000455:00:0	96-353/23:14:44.667	EEE-000/07:40:03.333
Duration	00000015:00:0	000/00:15:10.000	000/00:15:10.000

Top Label E4NNCHKSUM01-
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

Required to diagnose NIMS software corruption problem. It will do five checksums and it will store the results in NIMS memory and then read out by MRO.

Design Detail

37PL - Halt NIMS Processor
6CKSUM - Check Sum NIMS from 1000 to 10FF to LLM1A 2282,2283
6MCOPY - CDS copy to NIMS 14FA from LLM1A 2282,2283
6CKSUM - Check Sum NIMS, from 1100 to 11FF to LLM1A 2282,2283
6MCOPY - CDS copy to NIMS 14FB from LLM1A 2282,2283
6CKSUM - Check Sum NIMS from 1200 to 12FF to LLM1A 2282,2283
6MCOPY - CDS copy to NIMS 14FC from LLM1A 2282,2283
6CKSUM - Check Sum NIMS from 1300 to 13FF to LLM1A 2282,2283
6MCOPY - CDS copy to NIMS 14FD from LLM1A 2282,2283
6CKSUM - Check Sum NIMS from 1400 to 14B3 to LLM1A 2282,2283
6MCOPY - CDS copy to NIMS 14FE from LLM1A 2282,2283
6CKSUM - Check Sum NIMS from 1598 to 15BD to LLM1A 2282,2283
6MCOPY - CDS copy to NIMS 14FF from LLM1A 2282,2283
6MROH - MRO of NIMS 14FA to 14FF (37,14FA,1,A2)

Galileo Activity Plan Form 11/15/96 10:45:19 rev 6/95

Reload NIMS Memory

ACTIVITY ID: E4NNRELOAD04-
START TIME: 96-354/00:10:21.334

Activity ID: Orbit E4 Target N Inst N OAPEL RELOAD SeqNo 04 -

Title	Reload NIMS Memory			Instrument	NIMS
Requestor	NIMS-SWG/J. HUI	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	E4A	Calendar Date	12/19/96 Week 51
Start	EEE-CDS	00000400:00:0	96-354/00:10:21.334		EEE-000/06:44:26.666
End	EEE-CDS	00000385:00:0	96-354/00:25:31.334		EEE-000/06:29:16.666
Duration		00000015:00:0	000/00:15:10.000		000/00:15:10.000

Top Label E4NNRELOAD04-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	50	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

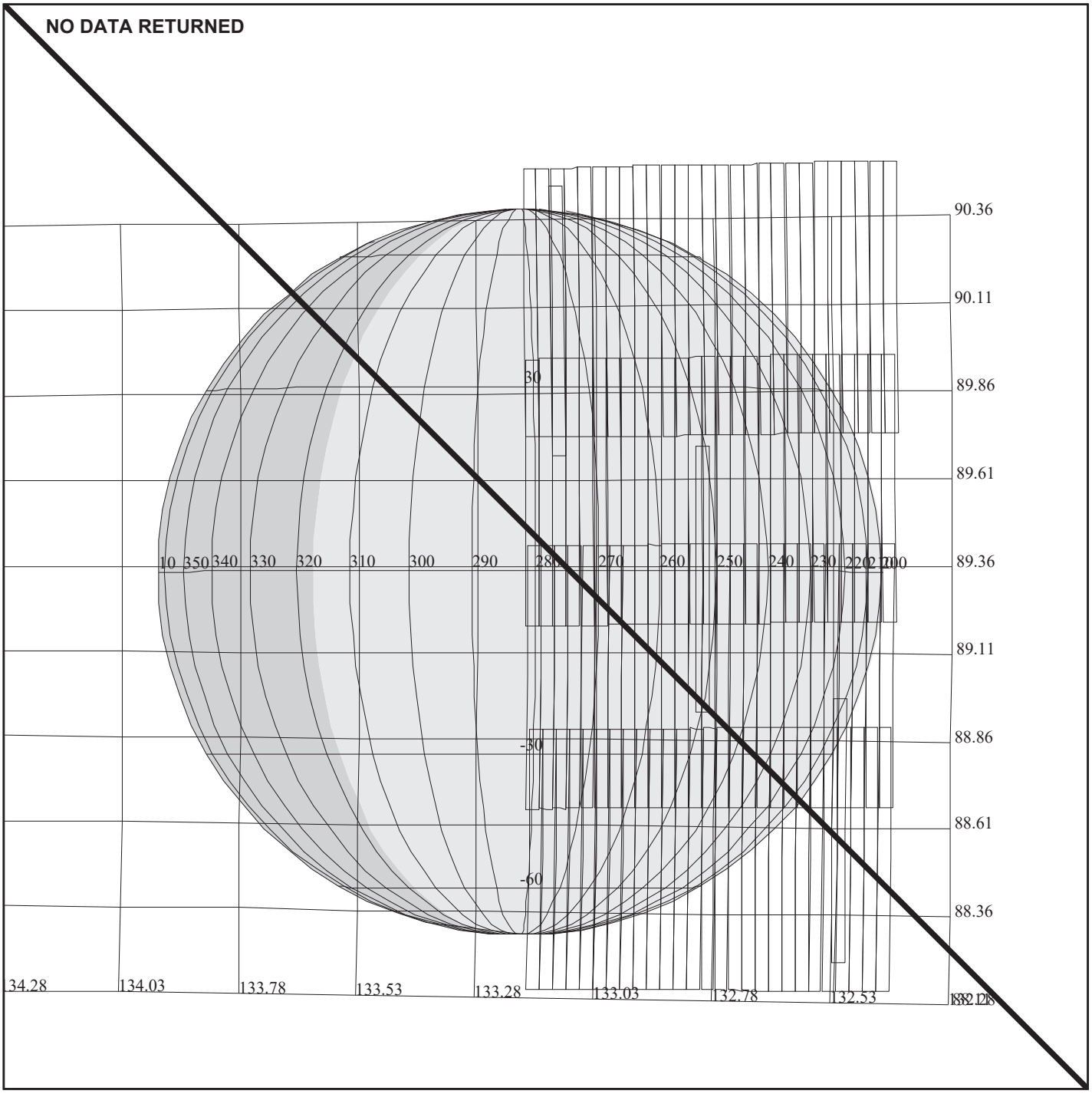
Observation Objective

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 11/15/96 10:45:19 rev 6/95



165El:TT= 0 TMC= 1 C= -13.80 XC= 10.00 BS= 0/2950 TC= 3
A= 728 pD= 0 SR=17.450 RA50=237.31 DEC50=-21.30 cone=132.40 clock= 90.13
117El:#SB= 1 OR= 0.060 RR= 4.000 BM=F RC= 1 BS= 0/2950
1:#s= 4 Cs= 14.00 XCs= 0.00 Cr= -13.80 XCr= -7.00 sD= 704 rD= 20

E4ENXDARLI01

TARGET G2.0 jdods:11/ 5/1996 16:32:16

FILE:P.E4ENXDARLI01

TARGET BODY : EUROPA

MINI:m.target.e4.961105

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

PERIAPSIS:

THINNING:NIM 2

START:EEE 96-354/06:54:48.000 -CDS 361:00:0

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.700

OBSERVATION:E4ENXDARLI01

DESCRIP:DARK AND LIT

Europa Linea Region Observation

ACTIVITY ID: E4ENXDARLI01-
START TIME: 96-354/00:44:44.000

Activity ID: Orbit E4 Target E Inst N OAPEL XDARLI SeqNo 01 -

Title	Europa Linea Region Observation	Instrument	NIMS
Requestor	NIMS-SWG/A. OCAMPO	Team NIMS	Working Group SWG

Time System CDS Load ID E4A Calendar Date 12/19/96 Week 51

Start	EEE-CDS 00000366:00:0	96-354/00:44:44.000	EEE-000/06:10:04.000
End	EEE-CDS 00000345:00:0	96-354/01:05:58.000	EEE-000/05:48:50.000
Duration	00000021:00:0	000/00:21:14.000	000/00:21:14.000

Top Label E4ENXDARLI01-
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

This observation is part of Europa's global map campaign of the Trailing hemisphere (W. Long. 280 to 210 deg.), where there is a concentration of Linea crossing between hemispheres.

W. Long. span: 280 - 210 degrees
Lat. span: +/- 90 degrees
Disk Coverage: 50%
Sub s/c longitude: 281.6 degrees
Sub s/c latitude: -0.39 degrees

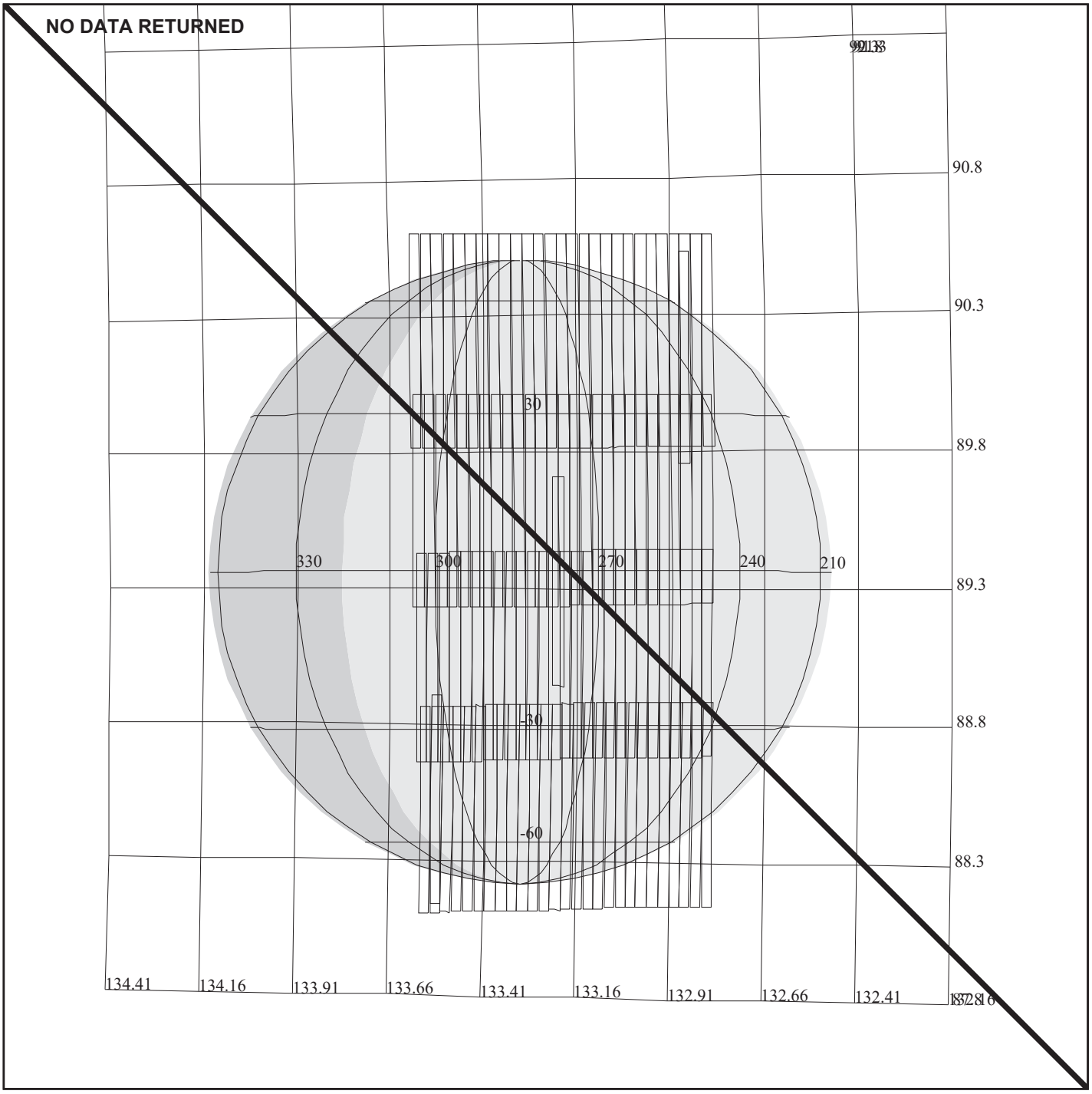
No Data Returned

Design Detail

Distance: 114,798 KM	Mode: Full Map
Phase: 55.75 degrees	Slew Rate: 60 MR/S
Cone: 128.84 degrees	% overlap: 30
Wavelengths: 204	Num. of strips: 4
Wavelengths P/B: 102	NIMS F.O.V./ strip: 41
Resolution: 57.4 KM/PIX	Booms: not in F.O.V.
DMS Mode: 28.8	TLM: MPW
ASD: 0.773 degrees	Area cov. in pixels: 2329
Wavelength table: EFM221 (0.69 - 4.92 microns)	
Compression: 2.0	Gain State: 3/2/2/3 Threshold: 2

Full Map (FM), Gain 3,2,3, Grating Start 0, MPW, E4EFM221, E4EFM102

Galileo Activity Plan Form 11/15/96 10:45:19 rev 6/95



165EJ:TT= 0 TMC= 1 C= 5.00 XC= 10.80 BS= 0/8410 TC= 3
A= 364 pD= 0 SR=17.450 RA50=238.57 DEC50=-21.52 cone=133.60 clock= 90.19
117EJ:#SB= 1 OR= 0.060 RR= 4.500 BM=F RC= 1 BS= 0/8410
1:#s= 4 Cs= -14.00 XCs= 0.00 Cr= 14.30 XCr= -7.40 sD= 704 rD= 20

E4ENASTERI01

TARGET G2.0 jdods:11/ 5/1996 16:32:16

FILE:P.E4ENASTERI01

TARGET BODY : EUROPA

MINI:m.target.e4.961105

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

PERIAPSIS: **THINNING:NIM 2**

START:EEE 96-354/06:54:48.000 -CDS 331:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.600**

OBSERVATION:E4ENASTERI01 **DESCRIP:PART GLOBAL MOSAIC**

Europa Global Mosaic

ACTIVITY ID: E4ENASTERI01-
START TIME: 96-354/01:17:05.334

Activity ID: Orbit E4 Target E Inst N OAPEL ASTERI SeqNo 01 -

Title	Europa Global Mosaic	Instrument	NIMS
Requestor	NIMS-SWG/A. OCAMPO	Team NIMS	Working Group SWG

Time System CDS Load ID E4A Calendar Date 12/19/96 Week 51

Start	EEE-CDS 00000334:00:0	96-354/01:17:05.334	EEE-000/05:37:42.666
End	EEE-CDS 00000315:00:0	96-354/01:36:18.000	EEE-000/05:18:30.000
Duration	00000019:00:0	000/00:19:12.666	000/00:19:12.666

Top Label E4ENASTERI01-
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 MOSAIC campaign of Europa which contains the longitude range 244-300 degrees and centers around Asteri Linea.
Cuts: This observation was reduced to P/B 102 wavelengths instead of the original 204 to accomodate cuts.

No Data Returned

Design Detail

DISTANCE: 100,000 KM	MODE: FULL MAP	AREA IN PIX: 1995
PHASE: 55 DEG	SLEW RATE: 60 MR/S	TRACKS: 0.0314
CONE: 124 DEG	% OVERLAP: 26	ASD: 0.86 DEG
W.L.: 102	NUM OF STRIPS: 4	LONG SPAN: 240-315 DEG
BOOMS: NOT IN F.O.V.	NIMS FOV/STRIP: 16-40	LAT SPAN: N/S 90 DEG
RESOLUTION: 19 KM/PIX	DMS MODE: 7.68	COVERAGE: 60 %
SUB S/C LONG: 284 DEG	SUB S/C LAT: -0.41 DG	TLM:LPU
GAIN: 3/2/2/3	INCID ANG: 7-100 DEG	EMM ANG: 110 DEG
WAVELENGTHS P/B: 102	WAVELENGTH TABLE: EFM126	
Compression=2	THRESHOLD: 2	

Full Map (FM), Gain 3,2,3, Grating Start 0, LPU, E4EFM126, E4EFM102

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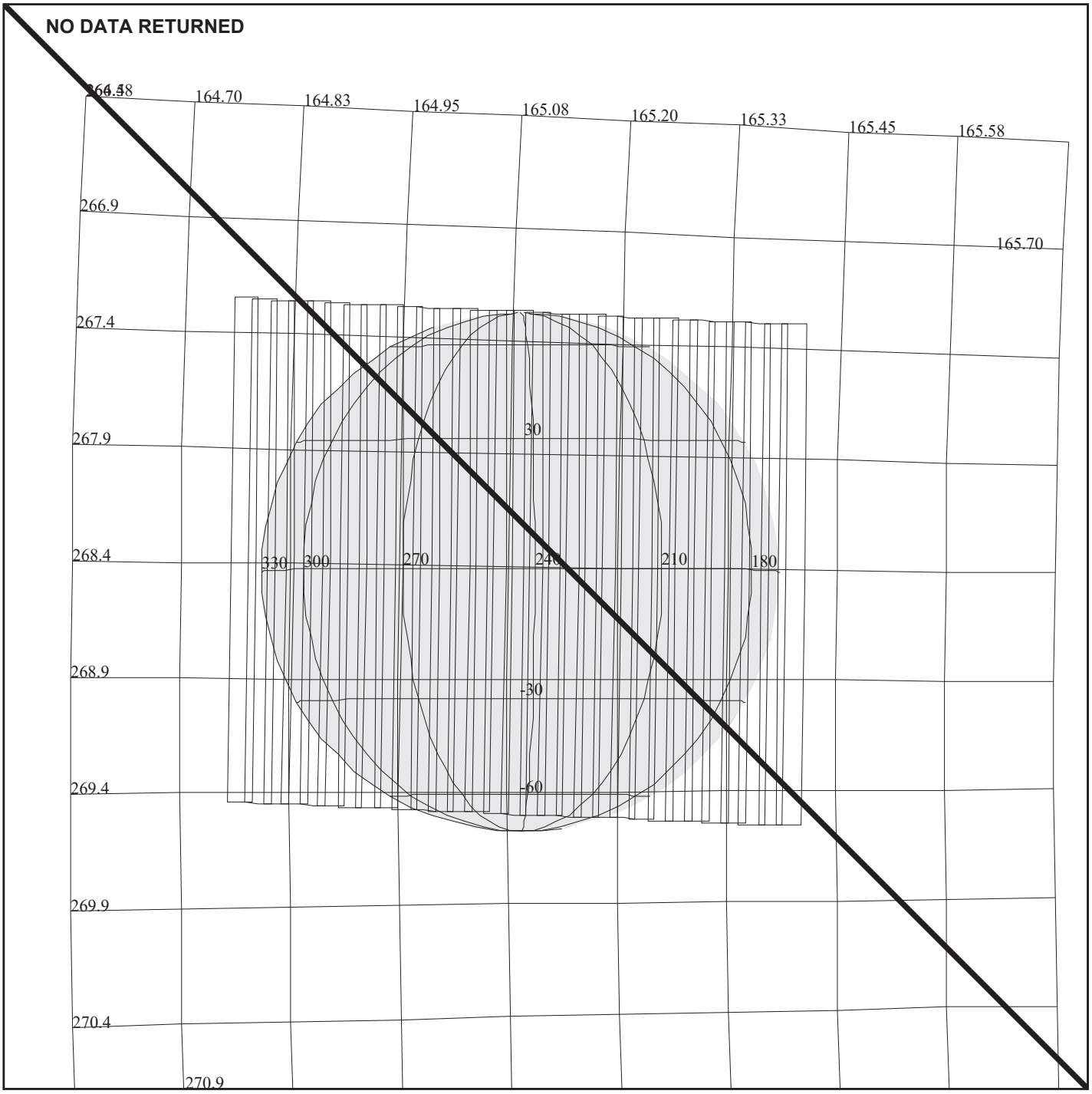

165EK:TT= 0 TMC= 1 C= 5.50 XC= 0.00 BS= 0/2960 TC= 3
A= 728 pD= 0 SR=17.450 RA50=304.34 DEC50=-20.19 cone=165.41 clock=268.47
117EK:#SB= 1 OR= 0.040 RR=12.000 BM=F RC= 1 BS= 0/2960
1:#s= 1 Cs= -21.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 1580 rD= 2

E4INCHEMIS04

TARGET G2.0 jdods:11/ 5/1996 16:32:16

FILE:P.E4INCHEMIS04

TARGET BODY : IO

MINI:m.target.e4.961105

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

PERIAPSIS: **THINNING:NIM 2**

START:IEE 96-353/21:36:40.066 +CDS 246:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.500**

OBSERVATION:E4INCHEMIS04 **DESCRIP:IO DAYSIDE**

Monitoring of Io's Dayside

ACTIVITY ID: E4INCHEMIS04-
START TIME: 96-354/01:40:20.732

Activity ID: Orbit E4 Target I Inst N OAPEL CHEMIS SeqNo 04 -

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

Time System	CDS	Load ID	E4A	Calendar Date	12/19/96 Week 51
Start	IEE+CDS 00000241:00:0	96-354/01:40:20.732		IEE+000/04:03:40.666	
End	IEE+CDS 00000255:00:0	96-354/01:54:30.066		IEE+000/04:17:50.000	
Duration	00000014:00:0	000/00:14:09.334		000/00:14:09.334	

Top Label	E4INCHEMIS04-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	128	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, 102 wavelengths.
Tracks used per orbit: 0.05 to 0.42.
Bits To Ground per orbit: 0.3 to 2.2 Mbits.
Wavelength table: ILM102, TLM: LPU.

Long Map (LM), Gain 2, Grating Start 0, LPU, E4ILM245, E4ILM102

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Full NIMS Memory Read Out Part 2 ACTIVITY ID: E4NNFULMRO02-
START TIME: 96-354/01:57:32.000

Activity ID: Orbit E4 Target N Inst N OAPEL FULMRO SeqNo 02 -

Title	Full NIMS Memory Read Out Part 2	Instrument	NIMS
Requestor	NIMS-SWG/J. HUI	Team NIMS	Working Group SWG

Time System CDS Load ID E4A Calendar Date 12/19/96 Week 51

Start	EEE-CDS 00000294:00:0	96-354/01:57:32.000	EEE-000/04:57:16.000
End	EEE-CDS 00000173:00:0	96-354/03:59:52.667	EEE-000/02:54:55.333
Duration	00000121:00:0	000/02:02:20.667	000/02:02:20.667

Top Label E4NNFULMRO02-
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

Full memory readout to help understand software failure problem.

Design Detail

Read out 18 blocks of 32 bytes each of NIMS memory.
Start at 13C0 HEX
End at 15FF HEX

Galileo Activity Plan Form 11/15/96 10:45:20 rev 6/95

Reload NIMS Memory

ACTIVITY ID: E4NNRELOAD05-
START TIME: 96-354/04:30:12.667

Activity ID: Orbit E4 Target N Inst N OAPEL RELOAD SeqNo 05 -

Title	Reload NIMS Memory			Instrument	NIMS
Requestor	NIMS-SWG/J. HUI	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	E4A	Calendar Date	12/19/96 Week 51
Start	EEE-CDS	00000143:00:0	96-354/04:30:12.667		EEE-000/02:24:35.333
End	EEE-CDS	00000128:00:0	96-354/04:45:22.667		EEE-000/02:09:25.333
Duration		00000015:00:0	000/00:15:10.000		000/00:15:10.000

Top Label	E4NNRELOAD05-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	50	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

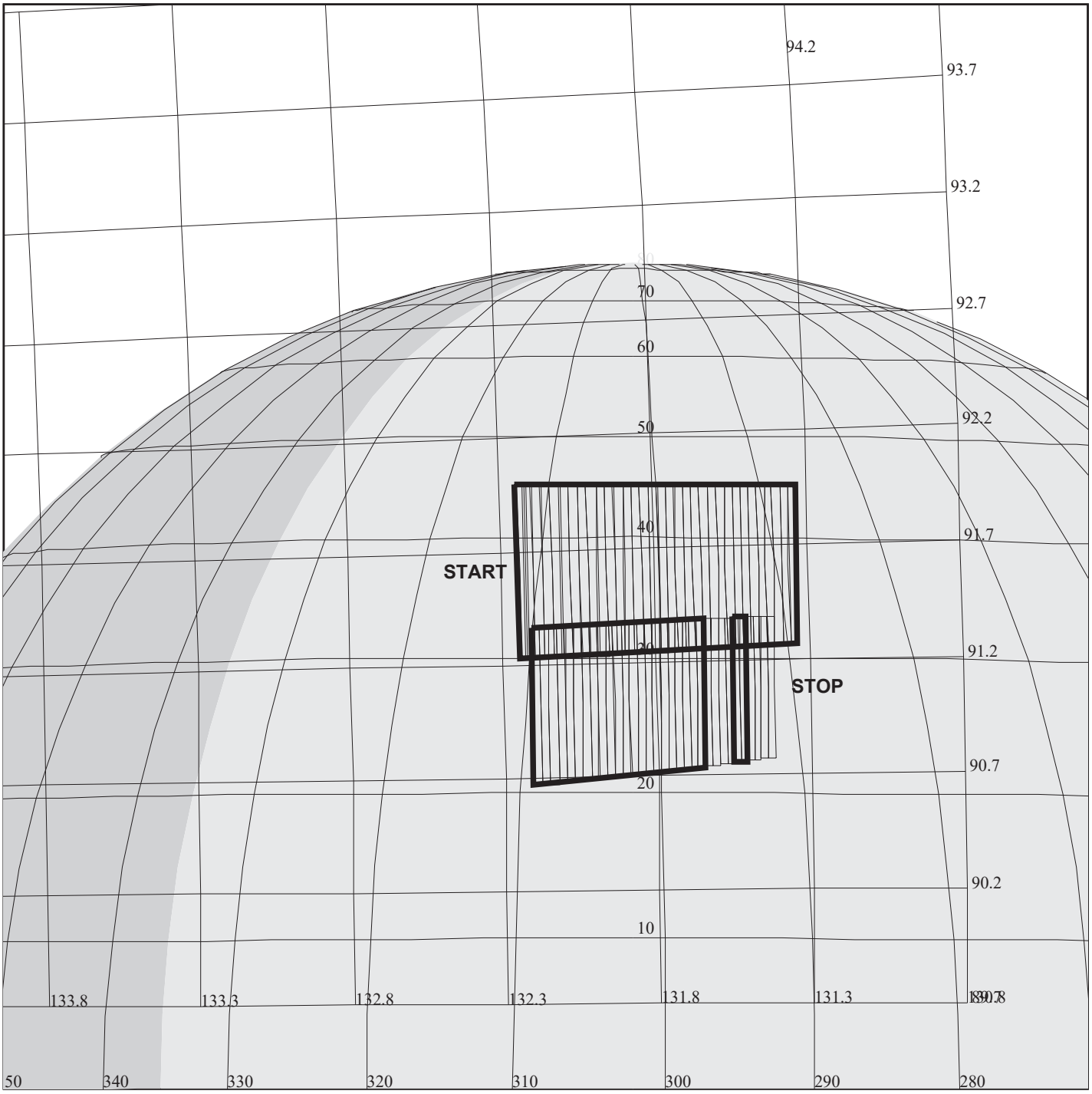
Observation Objective

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 11/15/96 10:45:20 rev 6/95



165EM:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS=36/0270 TC= 1(37.0 311.5)
A= 728 pD= 3372 SR=17.450 RA50=237.46 DEC50=-20.17 cone=132.28 clock= 91.66
117EM:#SB= 1 OR= 0.030 RR= 5.000 BM=F RC= 1 BS=36/0270
1:#s= 2 Cs= -16.60 XCs= 0.00 Cr= 16.50 XCr= -8.50 sD= 1676 rD= 20

E4ENSUCOMP02

TARGET G2.0 jdods:11/ 5/1996 16:32:16

FILE:P.E4ENSUCOMP02

TARGET BODY : EUROPA

MINI:m.target.e4.961105

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

PERIAPSIS:

THINNING:NIM 2

START:ETE 96-354/06:54:48.000 -CDS 101:00:0

BODY PLOT TIME:TARGET-TIME D= 3372 S= 1.600

OBSERVATION:E4ENSUCOMP02

DESCRIP:DARK ICE

Surface Composition / Dark Ice — ACTIVITY ID: E4ENSUCOMP02-
START TIME: 96-354/05:08:38.000

Activity ID: Orbit E4 Target E Inst N OAPEL SUCOMP SeqNo 02 -

Title	Surface Composition / Dark Ice	Instrument	NIMS
Requestor	NIMS-SWG/A. OCAMPO	Team NIMS	Working Group SWG

Time System CDS Load ID E4A Calendar Date 12/19/96 Week 51

Start	ETE-CDS 00000105:00:0	96-354/05:08:38.000	ETE-000/01:46:10.000
End	ETE-CDS 00000081:14:0	96-354/05:32:44.667	ETE-000/01:22:03.333
Duration	00000023:77:0	000/00:24:06.667	000/00:24:06.667

Top Label E4ENSUCOMP02-
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 determine the surface composition of a dark portion of the surface of Europa at very high resolution, centered at 305 Deg. W.Long. and 35 deg. N. Lat.
25% tape cut: To accomodate tape cut, this observation's telemetry rate was changed from MPW to LPU.
PPR and UVS desire to ride along in this observation.
Cuts: Compression ratio was increased from 2 to 3 to reduce BTG.

Data Returned

Design Detail

DISTANCE: 23,713 KM	MODE: LONG MAP	TRACKS:0.0345
PHASE: 58 DEG	SLEW RATE: 30 MR/S	LONG SPAN: 300-310 DEG
CONE: 126 DEG	% OVERLAP: 15	LAT SPAN: 28-42 DEG
WAVELENGTHS: 228	NUM OF STRIPS: 2	COVERAGE: 200 X 200 KM
WAVELENGTHS P/B: 228	RESOLUTION: 11 KM/PIX	NIMS F.O.V.: 46
SUB S/C LONG: 303 DEG	BOOMS: NOT IN F.O.V.	DMS MODE : 7.68
SUB S/C LAT:-0.4 DEG	ASD : 3.558 DEG	AREA COV IN PIX: 2760
TLM: LPU	GAIN: 3	INCID ANG: 60-70 DEG
EMM ANG: 34-42 DEG	WAVELENGTH TABLE: ELM245	COMPRESSION: 3
THRESHOLD: 2		

Small Gaps Throughout.
Large Gap in Second Swath, one packet misplaced in center of gap with incorrect SCLK.

Long Map (LM), Gain 3, Grating Start 0, LPU, E4ELM245, E4ELM192

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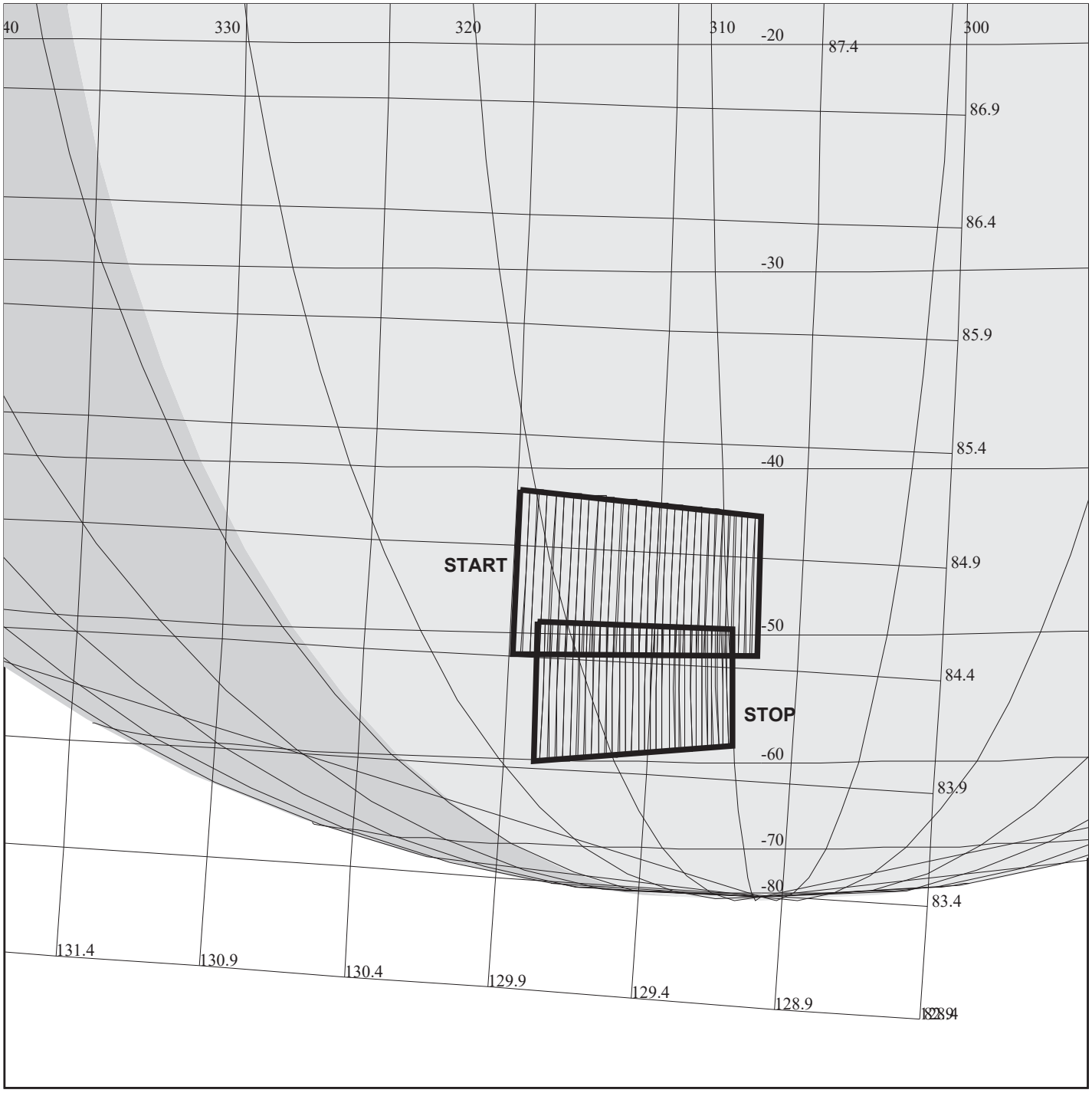

165EN:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS=32/7914 TC= 1(-46.0 322.0)
A= 70 pD= 3314 SR=17.450 RA50=233.70 DEC50=-24.74 cone=129.84 clock= 84.76
117EN:#SB= 1 OR= 0.030 RR= 3.000 BM=F RC= 1 BS=32/7914
1:#s= 2 Cs= -16.40 XCs= 0.00 Cr= 15.70 XCr= -8.50 sD= 1644 rD= 26

E4ENSUCOMP01

TARGET G2.0 jdods:11/ 5/1996 16:32:16

FILE:P.E4ENSUCOMP01

TARGET BODY : EUROPA

MINI:m.target.e4.961105

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

PERIAPSIS:

THINNING:NIM 2

START:ETE 96-354/06:54:48.000 -CDS 59:00:0

BODY PLOT TIME:TARGET-TIME D= 3314 S= 2.600

OBSERVATION:E4ENSUCOMP01

DESCRIP:LIGHT ICE

Surface Composition / Light Ice ACTIVITY ID: E4ENSUCOMP01-
START TIME: 96-354/05:54:08.000

Activity ID: Orbit E4 Target E Inst N OAPEL SUCOMP SeqNo 01 -

Title	Surface Composition / Light Ice	Instrument	NIMS
Requestor	NIMS-SWG/A. OCAMPO	Team NIMS	Working Group SWG

Time System CDS Load ID E4A Calendar Date 12/19/96 Week 51

Start	ETE-CDS 00000060:00:0	96-354/05:54:08.000	ETE-000/01:00:40.000
End	ETE-CDS 00000040:00:0	96-354/06:14:21.334	ETE-000/00:40:26.666
Duration	00000020:00:0	000/00:20:13.334	000/00:20:13.334

Top Label E4ENSUCOMP01-
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 determine the surface composition of a light colored Southern region of Europa's surface at very high resolution, centered at 317 Deg. W. long. and -50 Deg. S. Lat. PPR & UVS will like to ride along in this observation. Cuts: Compression was increased from 2 to 3 to reduce BTG.

Data Returned

Design Detail

DISTANCE: 18465 KM	MODE: LONG MAP	TRACKS:0.0485
PHASE: 59 DEG	SLEW RATE: 30 MR/S	LONG SPAN: 314-320 DEG
CONE: 125 DEG	% OVERLAP: 15	LAT SPAN: -60 to -58 DEG
WAVELENGTHS: 408	NUM OF STRIPS: 2	COVERAGE: 100 X 100 KM
WAVELENGTHS P/B: 408	RESOLUTION: 9.23 KM/PIX	NUM OF F.O.V.: 70
SUB S/C LONG: 306 DEG	BOOMS: NOT IN NIMS FOV	DMS MODE:28.8
SUB S/C LAT:-0.4 DEG	ASD: 4.49	AREA COV IN PIX: 5015
TLM: MPW	GAIN STATE: 3	INCID ANG: 69-79 DEG
EMM ANG: 59-61 DEG	COMPRESSION: 3	THRESHOLD: 2

WAVELENGTH TABLE: ELM442 (0.69 - 4.92 MICRONS)

Long Map (LM), Gain 3, Grating Start 0, MPW, E4ELM442, E4ELM192

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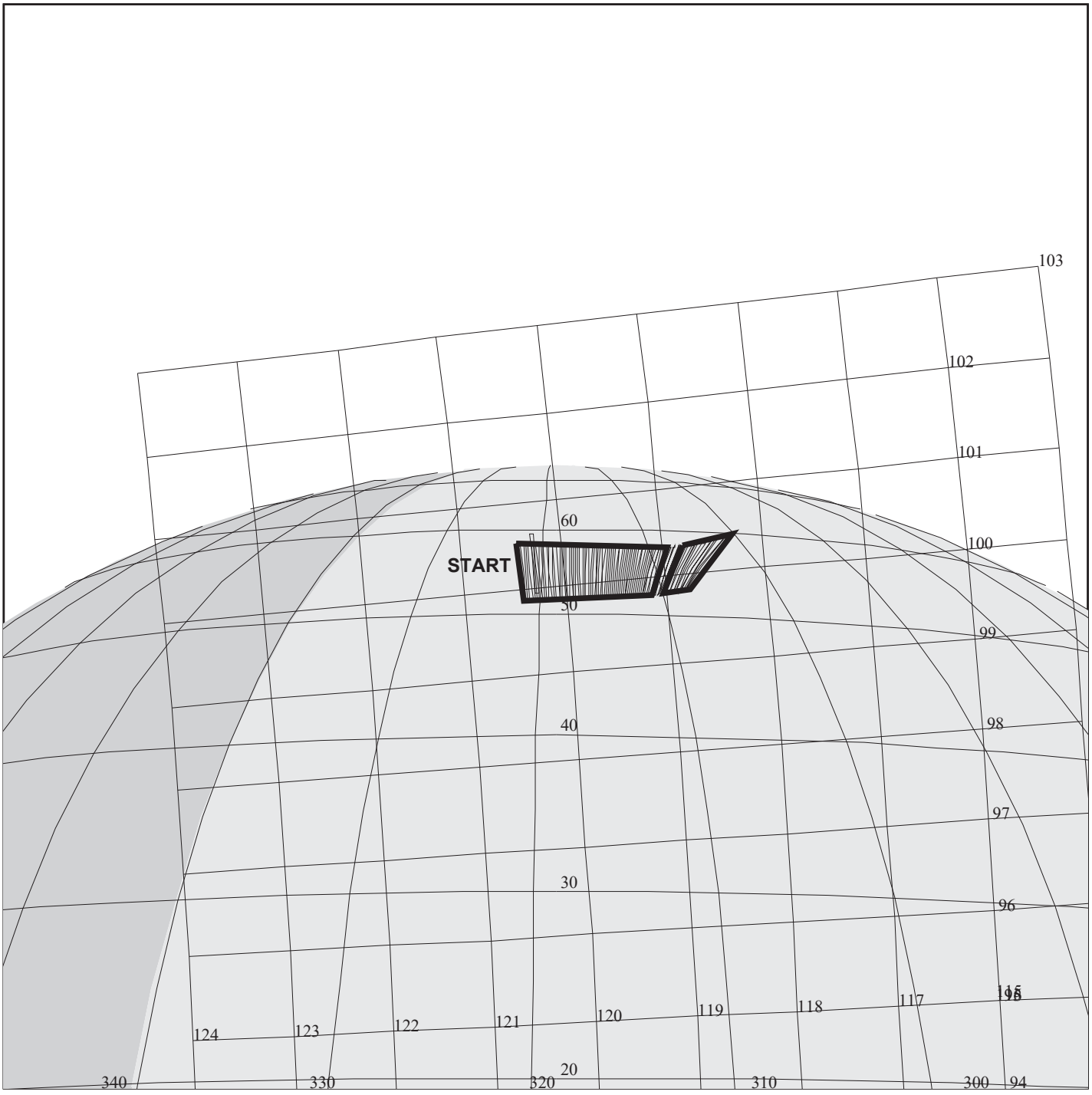

165EO:TT= 0 TMC= 1 C= 25.00 XC= 10.00 BS=27/3738 TC= 1(50.0 310.0)
A= 142 pD= 2306 SR=17.450 RA50=227.95 DEC50=-10.00 cone=120.43 clock=100.21
117EO:#SB= 1 OR= 0.030 RR= 3.000 BM=F RC= 1 BS=27/3738
1:#s= 1 Cs= -23.00 XCs= 0.00 Cr= 9.50 XCr= -9.00 sD= 2306 rD= 22

E4ENSUCOMP03

TARGET G2.0 jdods:11/ 5/1996 16:32:16

FILE:P.E4ENSUCOMP03

TARGET BODY : EUROPA

MINI:m.target.e4.961105

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

PERIAPSIS:

THINNING:NIM 2

START:ETE 96-354/06:54:48.000 -CDS 27:00:0

BODY PLOT TIME:TARGET-TIME D= 2306 S= 2.000

OBSERVATION:E4ENSUCOMP03

DESCRIP:DOUBLE LINEA

Surface Composition of Double Linea Area ACTIVITY ID: E4ENSUCOMP03-
START TIME: 96-354/06:26:29.334

Activity ID: Orbit E4 Target E Inst N OAPEL SUCOMP SeqNo 03 -

Title	Surface Composition of Double Linea Area	Instrument	NIMS
Requestor	NIMS-SWG/A. OCAMPO	Team	NIMS Working Group SWG

Time System	CDS	Load ID	E4A	Calendar Date	12/19/96 Week 51
Start	ETE-CDS	00000028:00:0	96-354/06:26:29.334		ETE-000/00:28:18.666
End	ETE-CDS	00000014:00:0	96-354/06:40:38.667		ETE-000/00:14:09.333
Duration		00000014:00:0	000/00:14:09.333		000/00:14:09.333

Top Label E4ENSUCOMP03-
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 determine surface composition of double lineas and surrounding area of Europa's Northern Latitudes. Center at +54 degrees latitude and 315 degrees west longitude.

Long. span: 320 - 310 degrees
Lat. span: +52 to +58 degrees
% coverage: 10
Sub s/c longitude: 306.14 degrees Sub s/c latitude: -0.40 degrees
PPR and UVS may ride along in this observation.
Cuts: Compression was increased from 2 to 3 to reduce BTG.

Data Returned

Design Detail

Distance: 5000 KM	Mode: Long Map
Phase: 70 degrees	Slew Rate: 30 MR/S
Cone: 110 degrees	% overlap: 5
Wavelengths: 408	Num. of strips: 1
Wavelengths P/B: 408	Gain State: 3
Resolution: 2.5 NIMSEL	NIMS F.O.V.: 84
Booms: not in F.O.V.	DMS Mode: 28.8
ASD: 4.442 degrees	Area cov. in pixels: 9008,
TLM: MPW	Wavelength table: ELM408 (0.69 - 4.92 microns)
Compression: 3	Threshold: 2

1 Rim missing near the end of the Swath.

Long Map (LM), Gain 3, Grating Start 0, MPW, E4ELM442, E4ELM384

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NIMS Checksum

ACTIVITY ID: E4NNCHKSUM02-
START TIME: 96-354/06:59:51.333

Activity ID: Orbit E4 Target N Inst N OAPEL CHKSUM SeqNo 02 -

Title	NIMS Checksum		Instrument
Requestor	NIMS-SWG/J. HUI	Team NIMS	Working Group NIMS SWG

Time System	CDS	Load ID E4A	Calendar Date	12/19/96	Week 51

Start	EEE+CDS 00000005:00:0	96-354/06:59:51.333	EEE+000/00:05:03.333
End	EEE+CDS 00000020:00:0	96-354/07:15:01.333	EEE+000/00:20:13.333
Duration	00000015:00:0	000/00:15:10.000	000/00:15:10.000

Top Label E4NNCHKSUM02-
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

Required to diagnose NIMS software corruption problem. It will do five checksums and it will store the results in NIMS memory and then read out by MRO.

Design Detail

6CKSUM - Check Sum NIMS from 1000 to 10FF to LLM1A 2282,2283
6MCOPY - CDS copy to NIMS 14FA from LLM1A 2282,2283
6CKSUM - Check Sum NIMS, from 1100 to 11FF to LLM1A 2282,2283
6MCOPY - CDS copy to NIMS 14FB from LLM1A 2282,2283
6CKSUM - Check Sum NIMS from 1200 to 12FF to LLM1A 2282,2283
6MCOPY - CDS copy to NIMS 14FC from LLM1A 2282,2283
6CKSUM - Check Sum NIMS from 1300 to 13FF to LLM1A 2282,2283
6MCOPY - CDS copy to NIMS 14FD from LLM1A 2282,2283
6CKSUM - Check Sum NIMS from 1400 to 14B3 to LLM1A 2282,2283
6MCOPY - CDS copy to NIMS 14FE from LLM1A 2282,2283
6CKSUM - Check Sum NIMS from 1598 to 15BD to LLM1A 2282,2283
6MCOPY - CDS copy to NIMS 14FF from LLM1A 2282,2283
6MROH - MRO of NIMS 14FA to 14FF (37,14FA,1,A2)

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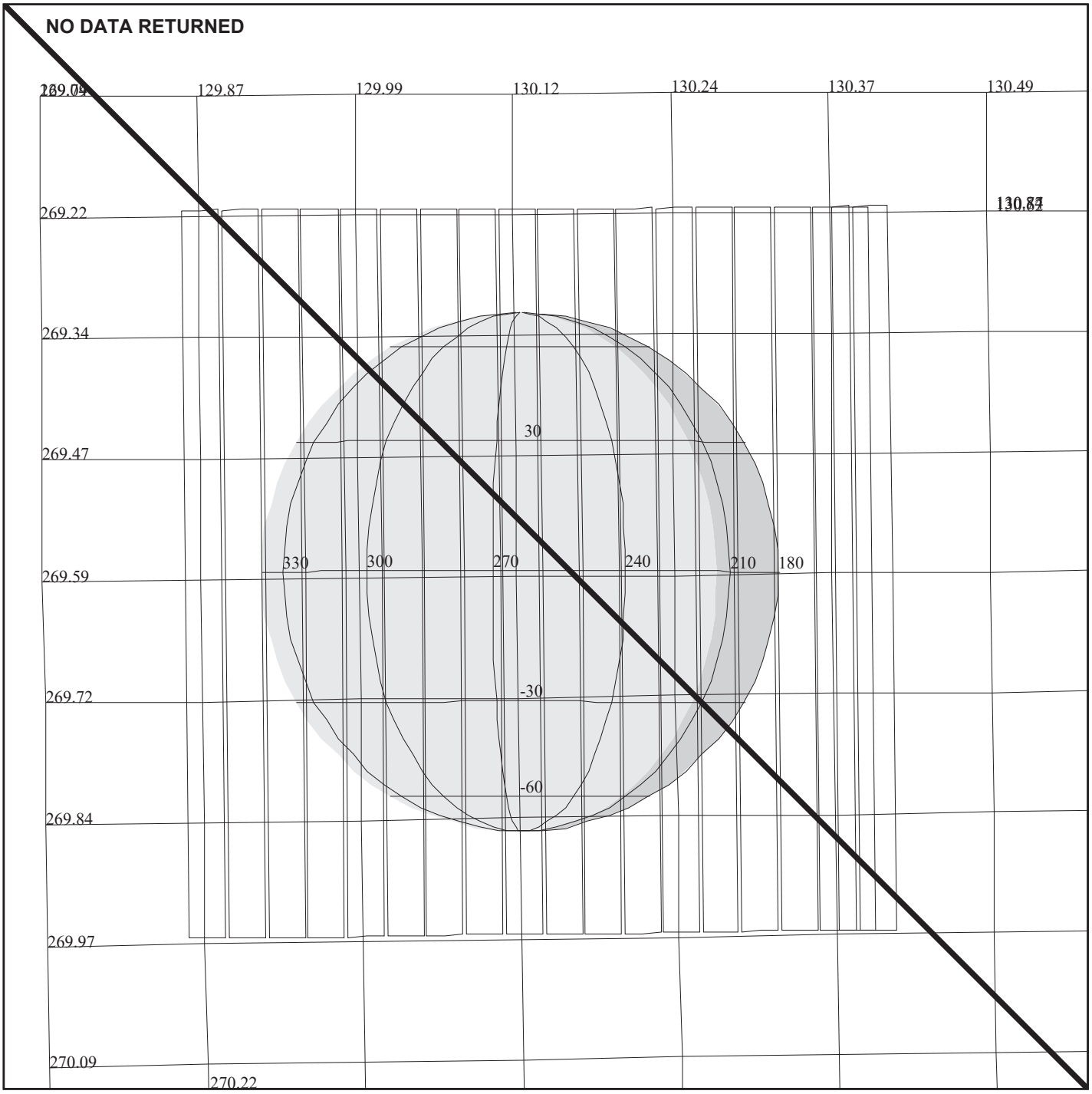

165EL:TT= 0 TMC= 1 C= 5.00 XC= 0.00 BS=27/3758 TC= 3
A= 728 pD= 0 SR=17.450 RA50=338.61 DEC50= -8.77 cone=130.41 clock=269.59
117EL:#SB= 1 OR= 0.050 RR=12.000 BM=F RC= 1 BS=27/3758
1:#s= 1 Cs= -18.50 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 930 rD= 2

E4INCHEMIS05

TARGET G2.0 jdods:11/ 5/1996 16:32:16

FILE:P.E4INCHEMIS05

TARGET BODY : IO

MINI:m.target.e4.961105

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

PERIAPSIS: **THINNING:NIM 2**

START:IEE 96-353/21:36:40.066 +CDS 635:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.500**

OBSERVATION:E4INCHEMIS05 **DESCRIP:IO DAYSIDE**

Monitoring of Io's Dayside

ACTIVITY ID: E4INCHEMIS05-
START TIME: 96-354/08:14:40.732

Activity ID: Orbit E4 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	E4A	Calendar Date	12/19/96 Week 51
Start	IEE+CDS 00000631:00:0	96-354/08:14:40.732		IEE+000/10:38:00.666	
End	IEE+CDS 00000641:00:0	96-354/08:24:47.399		IEE+000/10:48:07.333	
Duration	00000010:00:0	000/00:10:06.667		000/00:10:06.667	

Top Label E4INCHEMIS05-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	128	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, 408 wavelengths.
Tracks used per orbit: 0.05 to 0.42.
Bits To Ground per orbit: 0.3 to 2.2 Mbits.
Wavelength table: ILM228, TLM: LPU.

Long Map (LM), Gain 2, Grating Start 0, LPU, E4ILM245, E4ILM228

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Reload NIMS Memory

ACTIVITY ID: E4NNRELOAD06-
START TIME: 96-354/09:29:30.000

Activity ID: Orbit E4 Target N Inst N OAPEL RELOAD SeqNo 06 -

Title	Reload NIMS Memory			Instrument	NIMS
Requestor	NIMS-SWG/J. HUI	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	E4A	Calendar Date	12/19/96 Week 51
Start	EEE+CDS	00000153:00:0	96-354/09:29:30.000		EEE+000/02:34:42.000
End	EEE+CDS	00000168:00:0	96-354/09:44:40.000		EEE+000/02:49:52.000
Duration		00000015:00:0	000/00:15:10.000		000/00:15:10.000

Top Label	E4NNRELOAD06-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	50	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

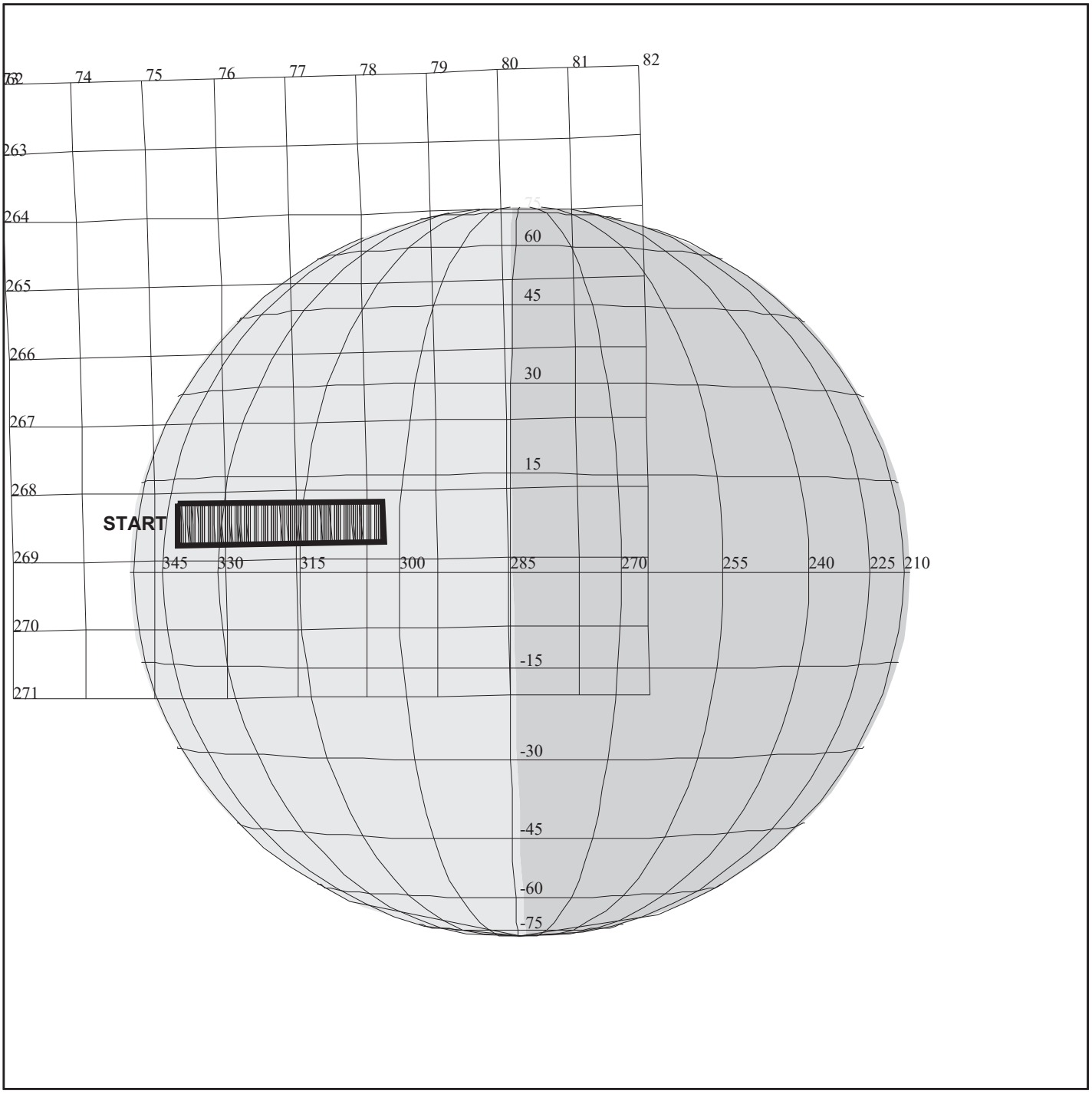
Observation Objective

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 11/15/96 10:45:21 rev 6/95



165EP:TT= 0 TMC= 1 C= -24.00 XC= 7.00 BS= 0/2150 TC= 1(12 320)
A= 182 pD= 0 SR=17.450 RA50= 28.94 DEC50= 14.54 cone= 75.34 clock=268.46
117EP:#SB= 1 OR= 0.120 RR=12.000 BM=F RC= 1 BS= 0/2150
1:#s= 1 Cs= 47.70 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 1198 rD= 2

E4JNFEA09501

TARGET G2.0 jdods:11/ 5/1996 16:32:16

FILE:P.E4JNFEA09501

CENTRAL BODY:JUPITER

MINI:m.target.e4.961105

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

PERIAPSIS: **THINNING:NIM 2**

START:EEE 96-354/06:54:48.000 +CDS 0239:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750**

OBSERVATION:E4JNFEA09501 **DESCRIP:E4_FEAT_CAMP_95_PHASE_01**

Jupiter Camp. feat. 95 deg. phase Prt 1 ACTIVITY ID: E4JNFEA09501-
START TIME: 96-354/10:54:26.000

Activity ID: Orbit E4 Target J Inst N OAPEL FEA095 SeqNo 01 -

Title	Jupiter Camp. feat. 95 deg. phase Prt 1	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS Working Group AWG

Time System	CDS	Load ID	E4A	Calendar Date	12/19/96 Week 51
Start	EEE+CDS 00000237:00:0	96-354/10:54:26.000		EEE+000/03:59:38.000	
End	EEE+CDS 00000245:53:0	96-354/11:03:06.666		EEE+000/04:08:18.666	
Duration	00000008:53:0	000/00:08:40.666		000/00:08:40.666	

Top Label	E4JNFEA09501-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	121	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of 20 OAPELs constituting the feature tracks for this feature campaign. This is the first 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 feature (a region of hot spots) near minimum airmass, assuming feature coordinates 7 degrees North latitude and 319 degrees West longitude (System III).

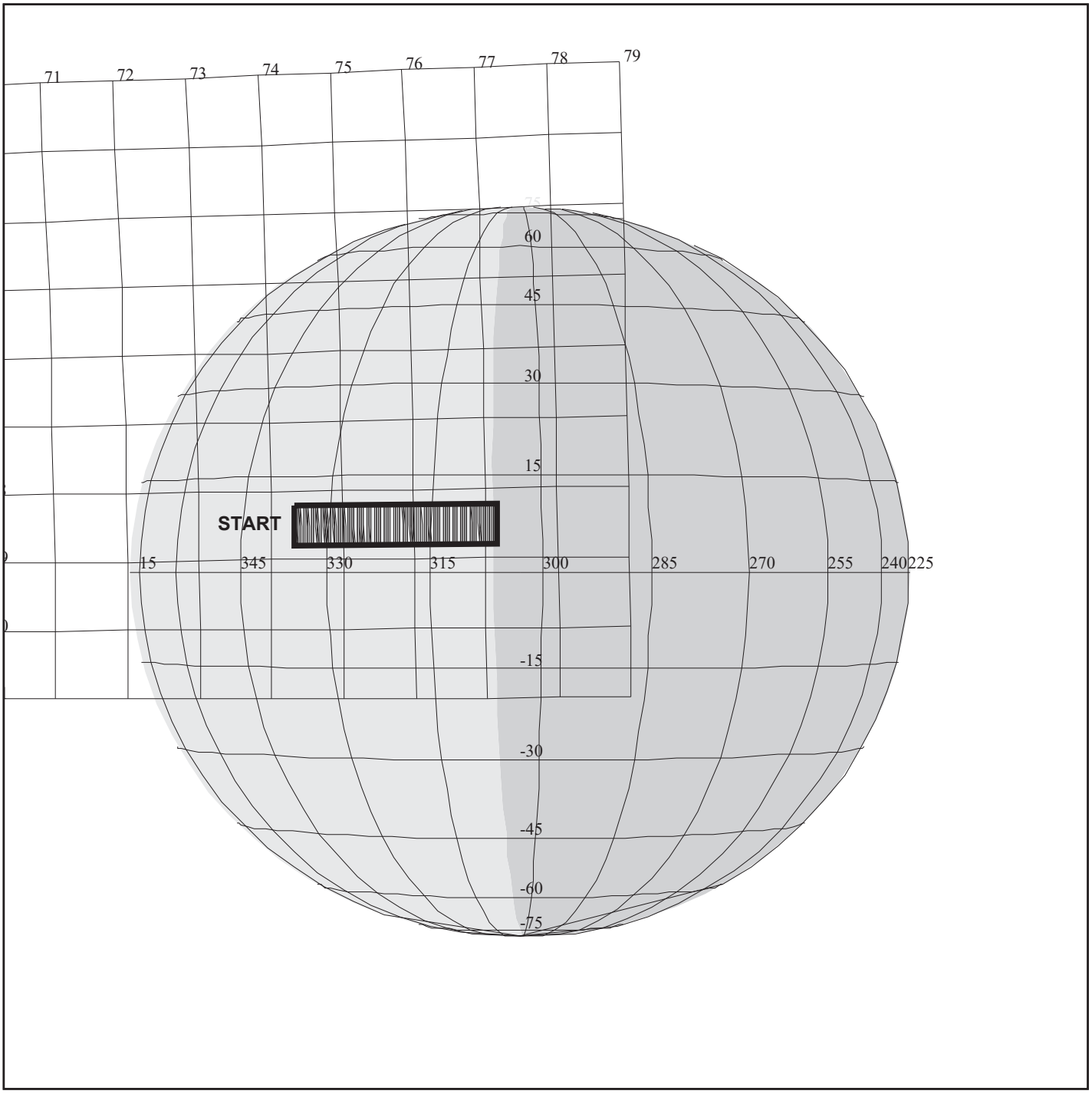
Data Returned

Design Detail

Shortmap, Nyquist-sampled observation of 4*1 (40*10 mrad) area centered on hot spot near 319 degrees west longitude, 7 degrees North latitude. S/C distance about 0.69 million KM, NIMS IFOV (NIMSEL) = 345 KM; 4*1 mosaic covers 27600*6900 KM, about 400 seconds of scanning, accumulating 0.1022 MBTG in 4 colors, and using 0.01344 tracks. 1 minute reserved for targetting, following the PPR DARKMAP02 of Europa (28 sec target time calculated by POINTER). Wavelength table: JFT04A, TLM: LPU
Note 10/18/96: This and other feature track OAPELs account for the 100.3 m/sec (-7 degrees per day) zonal wind.

Short Map (SM), Gain 2, Grating Start 1, LPU, E4JFT68A, E4JFT04A

Galileo Activity Plan Form 11/15/96 10:45:21 rev 6/95



165EQ:TT= 0 TMC= 1 C= -25.00 XC= 7.50 BS= 0/8702 TC= 1(12 320)
A= 728 pD= 0 SR=17.450 RA50= 29.93 DEC50= 14.86 cone= 74.33 clock=268.51
117EQ:#SB= 1 OR= 0.120 RR=12.000 BM=F RC= 1 BS= 0/8702
1:#s= 1 Cs= 47.50 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 1192 rD= 2

E4JNFEA09502

TARGET G2.0 jdods:11/ 5/1996 16:32:16

FILE:P.E4JNFEA09502

CENTRAL BODY:JUPITER

MINI:m.target.e4.961105

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

PERIAPSIS: **THINNING:NIM 2**

START:EEE 96-354/06:54:48.000 +CDS 0275:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750**

OBSERVATION:E4JNFEA09502 **DESCRIP:E4_FEAT_CAMP_95_PHASE_02**

Jupiter Camp. feat. 95 deg. phase Prt 2 ACTIVITY ID: E4JNFEA09502-
START TIME: 96-354/11:27:48.000

Activity ID: Orbit E4 Target J Inst N OAPEL FEA095 SeqNo 02 -

Title	Jupiter Camp. feat. 95 deg. phase Prt 2	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS Working Group AWG

Time System	CDS	Load ID	E4A	Calendar Date	12/19/96 Week 51
Start	EEE+CDS 00000270:00:0	96-354/11:27:48.000		EEE+000/04:33:00.000	
End	EEE+CDS 00000281:50:0	96-354/11:39:28.666		EEE+000/04:44:40.666	
Duration	00000011:50:0	000/00:11:40.666		000/00:11:40.666	

Top Label E4JNFEA09502-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	121	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of 20 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 feature (a region of hot spots) 20 degrees from evening terminator, assuming feature coordinates 7 degrees North latitude and 319 degrees West longitude (System III).

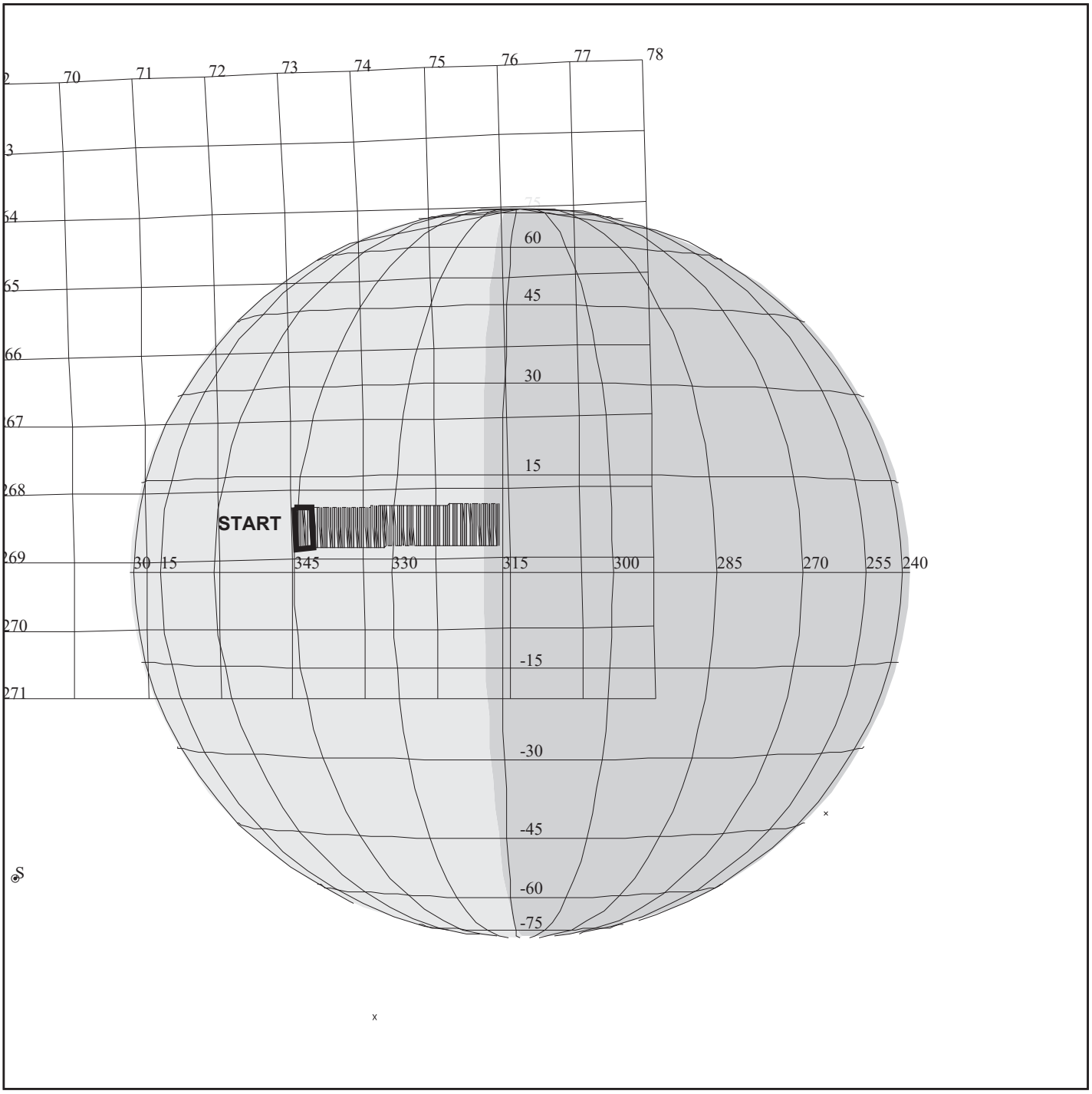
Data Returned

Design Detail

Shortmap, Nyquist-sampled observation of 4*1 (40*10 mrad) area centered on hot spot near 319 degrees west longitude, 7 degrees North latitude. S/C distance about 0.69 million KM, NIMS IFOV (NIMSEL) = 345 KM; 4*1 mosaic covers 27600*6900 KM, about 400 seconds of scanning, accumulating 0.1022 MBTG in 4 colors, and using 0.01344 tracks. 4 minutes reserved for targetting. Wavelength table: JFT04A,
TLM: LPU
Note 10/18/96: This and other feature track OAPELs account for the 100.3 m/sec (-7 degrees per day) zonal wind.

Short Map (SM), Gain 2, Grating Start 1, LPU, E4JFT68A, E4JFT04A

Galileo Activity Plan Form 11/15/96 10:45:21 rev 6/95



165ER:TT= 0 TMC= 1 C= -24.00 XC= 7.75 BS= 0/1978 TC= 1(12 330)
A= 728 pD= 0 SR=17.450 RA50= 31.17 DEC50= 15.28 cone= 73.06 clock=268.53
117ER:#SB= 1 OR= 0.120 RR=12.000 BM=F RC= 1 BS= 0/1978
1:#s= 1 Cs= 47.50 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 1192 rD= 2

E4JNFEA09503

TARGET G2.0 jdods:11/ 5/1996 16:32:16

FILE:P.E4JNFEA09503

CENTRAL BODY:JUPITER

MINI:m.target.e4.961105

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

PERIAPSIS: **THINNING:NIM 2**

START:EEE 96-354/06:54:48.000 +CDS 0293:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750**

OBSERVATION:E4JNFEA09503 **DESCRIP:E4_FEAT_CAMP_95_PHASE_03**

Jupiter Camp. feat. 95 deg. phase Prt 3 ACTIVITY ID: E4JNFEA09503-
START TIME: 96-354/11:46:00.000

Activity ID: Orbit E4 Target J Inst N OAPEL FEA095 SeqNo 03 -

Title	Jupiter Camp. feat. 95 deg. phase Prt 3	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS Working Group AWG

Time System	CDS	Load ID	E4A	Calendar Date	12/19/96 Week 51
Start	EEE+CDS 00000288:00:0	96-354/11:46:00.000		EEE+000/04:51:12.000	
End	EEE+CDS 00000299:50:0	96-354/11:57:40.666		EEE+000/05:02:52.666	
Duration	00000011:50:0	000/00:11:40.666		000/00:11:40.666	

Top Label	E4JNFEA09503-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	121	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of 20 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 feature (a region of hot spots) near evening terminator, assuming feature coordinates 7 degrees North latitude and 319 degrees West longitude (System III).

Data Returned

Design Detail

Shortmap, Nyquist-sampled observation of 4*1 (40*10 mrad) area centered on hot spot near 319 degrees west longitude, 7 degrees North latitude. S/C distance about 0.69 million KM, NIMS IFOV (NIMSEL) = 345 KM; 4*1 mosaic covers 27600*6900 KM, about 400 seconds of scanning, accumulating 0.1022 MBTG in 4 colors, and using 0.01344 tracks. 4 minutes reserved for targetting. Wavelength table: JFT04A,
TLM: LPU
Note 10/18/96: This and other feature track OAPELs account for the 100.3 m/sec (-7 degrees per day) zonal wind.

Only 13 grating cycles at start of Swath returned.

A detector 8 wavelength was added to the playback edit table E4JFT04A, making E4JFT05A, to monitor the failed detector 8.

Short Map (SM), Gain 2, Grating Start 1, LPU, E4JFT68A, E4JFT05A

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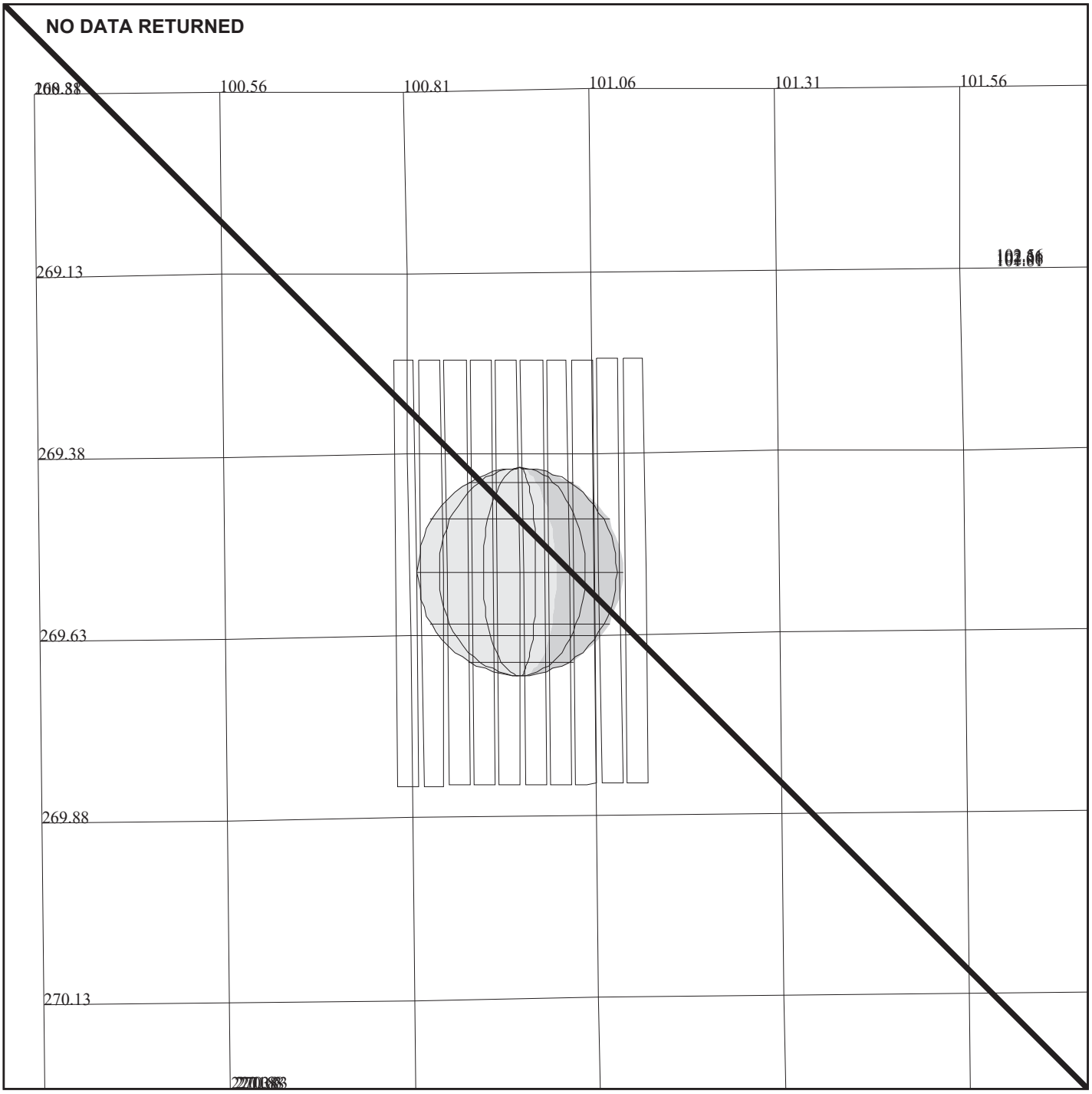

165ES:TT= 0 TMC= 1 C= 2.85 XC= 0.00 BS= 0/9814 TC= 3
A= 728 pD= 0 SR=17.450 RA50= 5.33 DEC50= 3.40 cone=101.12 clock=269.54
117ES:#SB= 1 OR= 0.050 RR=12.000 BM=F RC= 1 BS= 0/9814
1:#s= 1 Cs= -10.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 504 rD= 2

E4INCHEMIS06

TARGET G2.0 jdods:11/ 5/1996 16:32:16

FILE:P.E4INCHEMIS06

TARGET BODY : IO

MINI:m.target.e4.961105

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

PERIAPSIS: **THINNING:NIM 2**

START:IEE 96-353/21:36:40.066 +CDS 943:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.200**

OBSERVATION:E4INCHEMIS06 **DESCRIP:IO DAYSIDE**

Monitoring of Io's Dayside

ACTIVITY ID: E4INCHEMIS06-
START TIME: 96-354/13:25:05.399

Activity ID: Orbit E4 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	E4A	Calendar Date	12/19/96 Week 51
Start	IEE+CDS 00000938:00:0	96-354/13:25:05.399		IEE+000/15:48:25.333	
End	IEE+CDS 00000945:80:0	96-354/13:33:03.399		IEE+000/15:56:23.333	
Duration	00000007:80:0	000/00:07:58.000		000/00:07:58.000	

Top Label	E4INCHEMIS06-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	128	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, 408 wavelengths.
Tracks used per orbit: 0.05 to 0.42.
Bits To Ground per orbit: 0.3 to 2.2 Mbits.
Wavelength table: ILM408, TLM: LPU.

Long Map (LM), Gain 2, Grating Start 0, MPW, E4ILM442, E4ILM408

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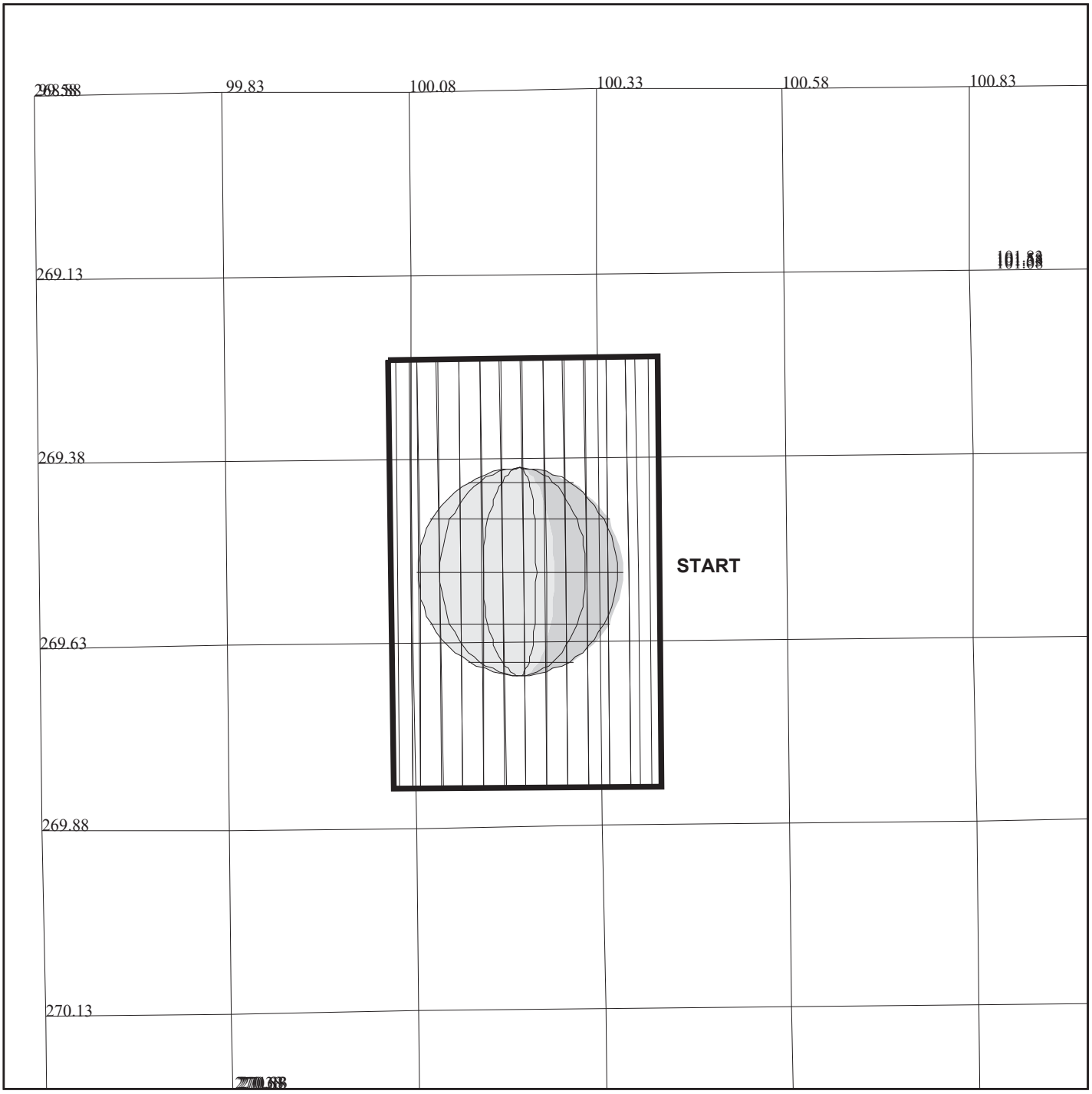

165EU:TT= 0 TMC= 1 C= 2.95 XC= 0.00 BS=30/1270 TC= 3
A= 60 pD= 0 SR= 1.000 RA50= 6.00 DEC50= 3.71 cone=100.39 clock=269.54
117EU:#SB= 1 OR= 0.750 RR= 2.580 BM=F RC= 1 BS=30/1270
1:#s= 13 Cs= -6.00 XCs= 0.00 Cr= 5.53 XCr= 0.00 sD= 36 rD= 20

E4INCOOLCV02

TARGET G2.0 jdods:11/ 5/1996 16:32:16

FILE:P.E4INCOOLCV02

TARGET BODY : IO

MINI:m.target.e4.961105

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

PERIAPSIS: **THINNING:NIM 2**

START:IEE 96-353/21:36:40.066 +CDS 951:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.200**

OBSERVATION:E4INCOOLCV02 **DESCRIP:ECLIPSE INGRESS**

NIMS Io Eclipse Observation (ingress) ACTIVITY ID: E4INCOOLCV02-
START TIME: 96-354/13:36:12.732

Activity ID: Orbit E4 Target I Inst N OAPEL COOLCV SeqNo 02 -

Title	NIMS Io Eclipse Observation (ingress)	Instrument	NIMS
Requestor	NIMS-SWG/R. LOPES	Team NIMS	Working Group SWG

Time System	CDS	Load ID	E4A	Calendar Date	12/19/96 Week 51
Start	IEE+CDS	00000949:00:0	96-354/13:36:12.732		IEE+000/15:59:32.666
End	IEE+CDS	00000964:00:0	96-354/13:51:22.732		IEE+000/16:14:42.666
Duration		00000015:00:0	000/00:15:10.000		000/00:15:10.000

Top Label E4INCOOLCV02-
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 investigate cooling of hot spots on Io's surface as Io is eclipsed by Jupiter.

Data Returned

Design Detail

Instrument Mode: Fixed Map
Number of Wavelengths: 10
Wavelengths P/B: 10
Wavelength table: IXM10,
Scan back and forth across disc, 13 times
TLM: LPU

Swath numbers 2 (A), 4 (B), 7 (C) and 9 (D) selected.

Fixed Map (XM), Gain 4, Grating Start 21, LPU, E4IXM10B, E4IXM10B

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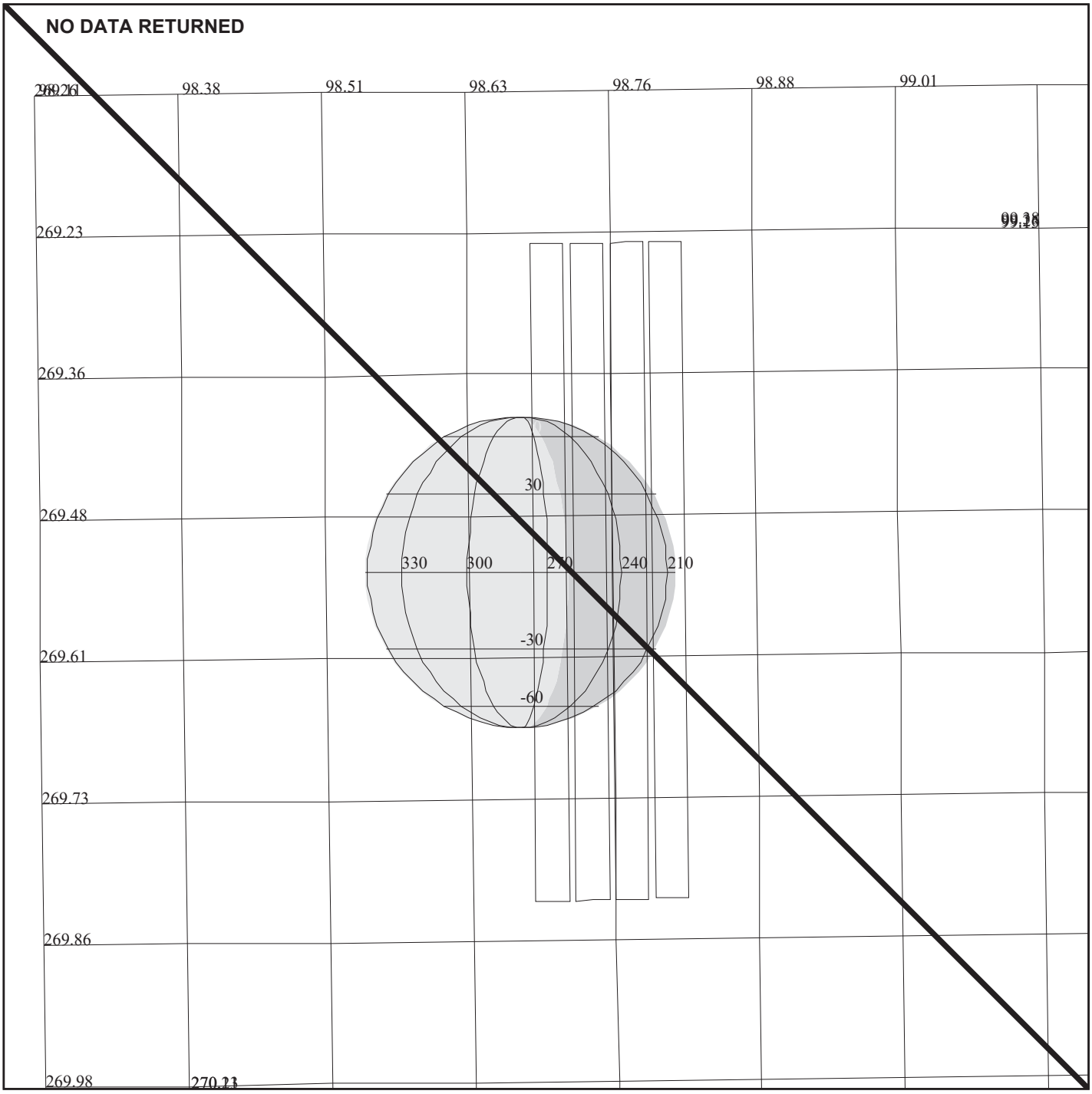


165EV:TT= 0 TMC= 1 C= 2.40 XC= 0.00 BS= 0/4546 TC= 3
A= 728 pD= 0 SR=17.450 RA50= 7.43 DEC50= 4.37 cone= 98.81 clock=269.53
117EV:#SB= 1 OR= 0.050 RR=12.000 BM=F RC= 1 BS= 0/4546
1:#s= 1 Cs= -3.40 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 174 rD= 2

E4INTHRMAL01

TARGET G2.0 jdods:11/ 5/1996 16:32:16

FILE:P.E4INTHRMAL01

TARGET BODY : IO

MINI:m.target.e4.961105

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

PERIAPSIS:

THINNING:NIM 2

START:IEE 96-353/21:36:40.066 +CDS 969:00:0

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

OBSERVATION:E4INTHRMAL01

DESCRIP:IO NIGHTSIDE

Monitoring of Io's Nightside

ACTIVITY ID: E4INTHRMAL01-
START TIME: 96-354/13:51:56.066

Activity ID: Orbit E4 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	E4A	Calendar Date	12/19/96 Week 51
Start	IEE+CDS	00000964:50:0	96-354/13:51:56.066		IEE+000/16:15:16.000
End	IEE+CDS	00000970:00:0	96-354/13:57:26.732		IEE+000/16:20:46.666
Duration		00000005:41:0	000/00:05:30.666		000/00:05:30.666

Top Label	E4INTHRMAL01-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	128	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.

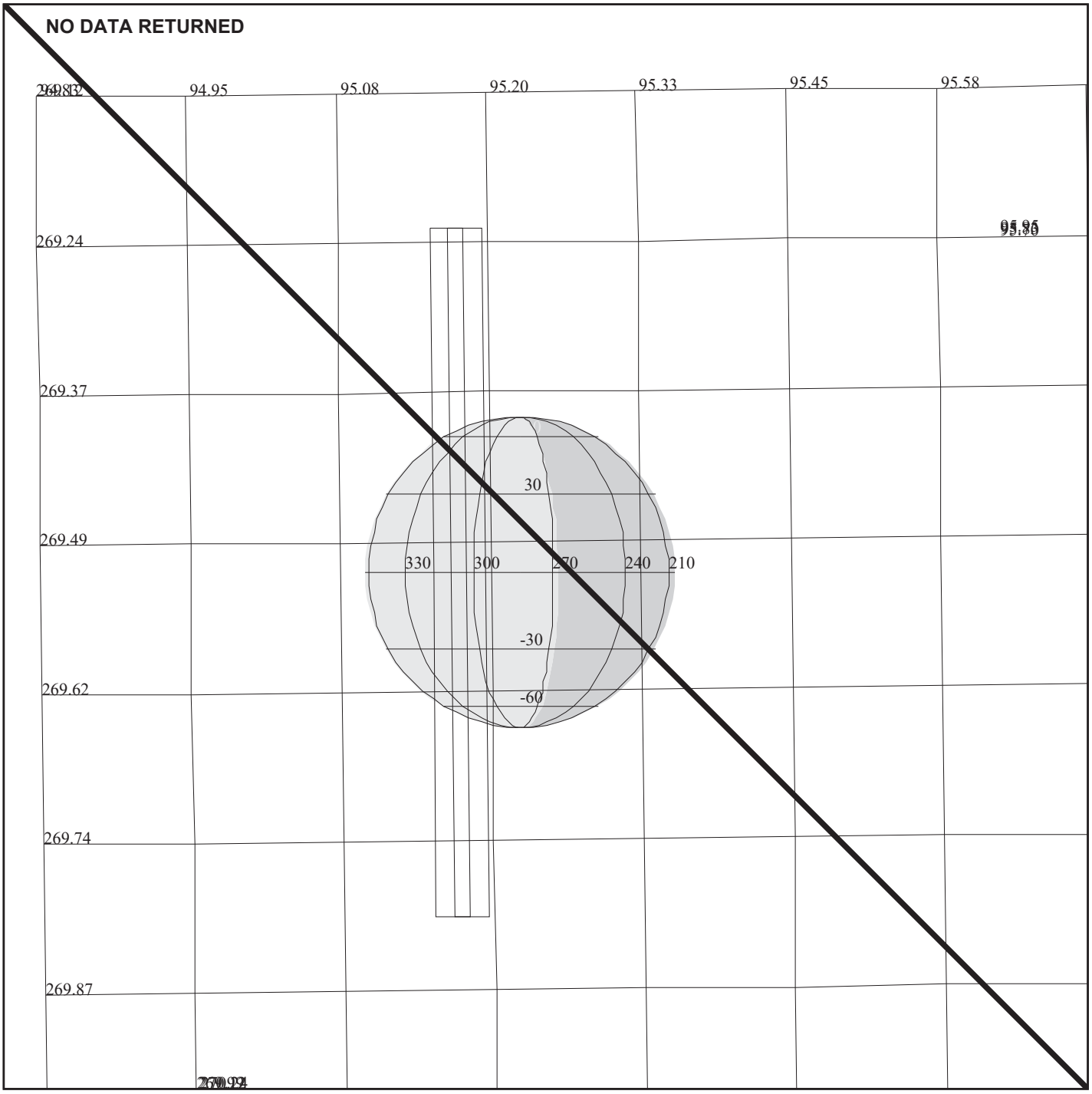
No Data Returned

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: 102.
Tracks used per orbit: 0.01 to 0.1.
Bits To Ground used per orbit: 0.01 to 0.5 Mbits.
Wavelength table: ILM102.
TLM: LPU.

Long Map (LM), Gain 4, Grating Start 0, LPU, E4ILMDK245, E4ILMDK102



165EW:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/1826 TC= 1(0.0 300.0)
A= 728 pD= 0 SR=17.450 RA50= 10.74 DEC50= 5.89 cone= 95.19 clock=269.52
117EW:#SB= 1 OR= 0.040 RR=12.000 BM=F RC= 1 BS= 0/1826
1:#s= 1 Cs= -1.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 80 rD= 2

E4INVOLCAN01

TARGET G2.0 jdods:11/ 5/1996 16:32:16

FILE:P.E4INVOLCAN01

TARGET BODY : IO

MINI:m.target.e4.961105

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

PERIAPSIS:

THINNING:NIM 2

START:IEE 96-353/21:36:40.066 +CDS 1009:00:0

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

OBSERVATION:E4INVOLCAN01

DESCRIP:IO VOLCANOES

Monitoring of Selected Volcanic Regions ACTIVITY ID: E4INVOLCAN01-
START TIME: 96-354/14:31:49.399

Activity ID: Orbit E4 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	E4A	Calendar Date	12/19/96 Week 51
Start	IEE+CDS 00001004:00:0	96-354/14:31:49.399			IEE+000/16:55:09.333
End	IEE+CDS 00001010:00:0	96-354/14:37:53.399			IEE+000/17:01:13.333
Duration	00000006:00:0	000/00:06:04.000			000/00:06:04.000

Top Label	E4INVOLCAN01-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	153	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

To monitor time variations in activity of selected regions
(Loki, Pelee, Kanehekili) using selected wavelengths.

No Data Returned

Design Detail

Long Map, 102 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.)

Wavelength table: ILM102
TLM: LPU

Long Map (LM), Gain 2, Grating Start 0, LPU, E4ILM245, E4ILM102

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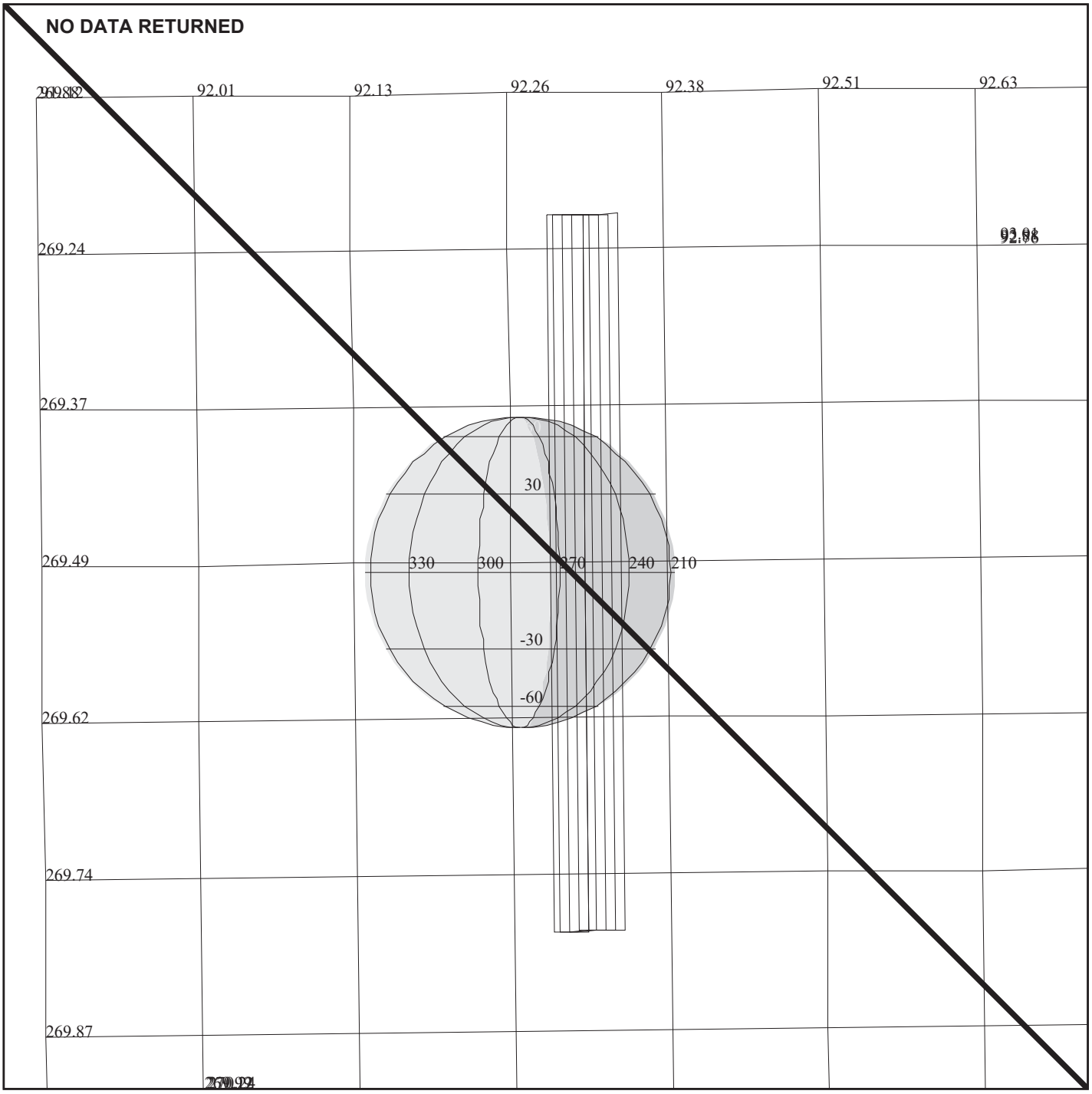

165EX:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/8196 TC= 1(0.0 250.0)
A= 728 pD= 0 SR=17.450 RA50= 13.36 DEC50= 7.06 cone= 92.33 clock=269.50
117EX:#SB= 1 OR= 0.040 RR=12.000 BM=F RC= 1 BS= 0/8196
1:#s= 1 Cs= -1.50 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 118 rD= 2

E4INVOLCAN02

TARGET G2.0 jdods:11/ 5/1996 16:32:16

FILE:P.E4INVOLCAN02

TARGET BODY : IO

MINI:m.target.e4.961105

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

PERIAPSIS: **THINNING:NIM 1**

START:IEE 96-353/21:36:40.066 +CDS 1044:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.300**

OBSERVATION:E4INVOLCAN02 **DESCRIP:IO VOLCANOES**

Monitoring of Selected Volcanic Regions ACTIVITY ID: E4INVOLCAN02-
START TIME: 96-354/15:07:12.732

Activity ID: Orbit E4 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	E4A	Calendar Date	12/19/96 Week 51
Start	IEE+CDS 00001039:00:0	96-354/15:07:12.732		IEE+000/17:30:32.666	
End	IEE+CDS 00001045:00:0	96-354/15:13:16.732		IEE+000/17:36:36.666	
Duration	00000006:00:0	000/00:06:04.000		000/00:06:04.000	

Top Label	E4INVOLCAN02-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	153	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

To monitor time variations in activity of selected regions
(Loki, Pelee, Kanehekili) using selected wavelengths.

No Data Returned

Design Detail

Long Map, 228 wavelengths, 30 secs duration (or less).
Orbit 7 is high priority for Loki region,
will be seen at the best nightside resolution (278 km).
~ 5 observations per orbit.
Tracks: 0.005 per observation.

Locations of features: Kanehekili (-10 d. lat. +40 d. long.)
Pelee (-20 d. lat. -255 d. long.)
Loki (+12 d. lat. 310 d. long.)

Wavelength table: ILMDK228
TLM: LPU

Long Map (LM), Gain 4, Grating Start 0, LPU, E4ILMDK245, E4ILMDK228

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Reload NIMS Memory

ACTIVITY ID: E4NNRELOAD07-
START TIME: 96-354/15:30:28.000

Activity ID: Orbit E4 Target N Inst N OAPEL RELOAD SeqNo 07 -

Title	Reload NIMS Memory			Instrument	NIMS
Requestor	NIMS-SWG/J. HUI	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	E4A	Calendar Date	12/19/96 Week 51
Start	EEE+CDS 00000510:00:0	96-354/15:30:28.000		EEE+000/08:35:40.000	
End	EEE+CDS 00000525:00:0	96-354/15:45:38.000		EEE+000/08:50:50.000	
Duration	00000015:00:0	000/00:15:10.000		000/00:15:10.000	

Top Label E4NNRELOAD07-
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

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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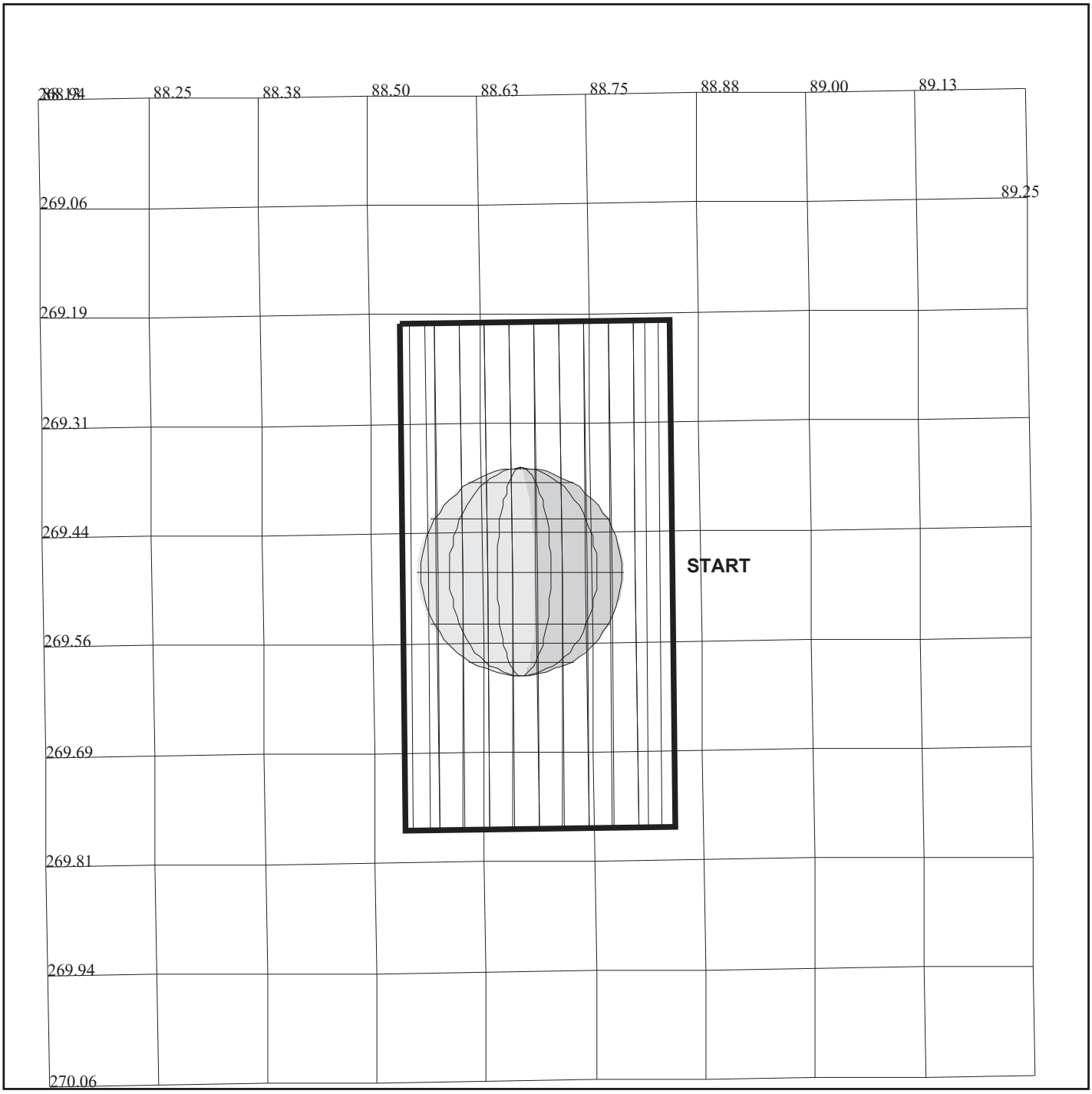

165EY:TT= 0 TMC= 1 C= 2.50 XC= 0.00 BS=30/6022 TC= 3
A= 60 pD= 0 SR=17.450 RA50= 16.60 DEC50= 8.49 cone= 88.82 clock=269.48
117EY:#SB= 1 OR= 0.750 RR= 2.580 BM=F RC= 1 BS=30/6022
1:#s= 30 Cs= -5.00 XCs= 0.00 Cr= 4.60 XCr= 0.00 sD= 34 rD= 18

E4INWARMCV03

TARGET G2.0 jdods:11/ 5/1996 16:32:16

FILE:P.E4INWARMCV03

TARGET BODY : IO

MINI:m.target.e4.961105

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

PERIAPSIS: **THINNING:NIM 2**

START:IEE 96-353/21:36:40.066 +CDS 1087:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.200**

OBSERVATION:E4INWARMCV03 **DESCRIP:ECLIPSE INGRESS**

NIMS Io Eclipse Observation (egress) ACTIVITY ID: E4INWARMCV03-
START TIME: 96-354/15:53:43.399

Activity ID: Orbit E4 Target I Inst N OAPEL WARMCV SeqNo 03 -

Title	NIMS Io Eclipse Observation (egress)	Instrument	NIMS
Requestor	NIMS-SWG/R. LOPES	Team NIMS	Working Group SWG

Time System	CDS	Load ID	E4A	Calendar Date	12/19/96 Week 51
Start	IEE+CDS	00001085:00:0	96-354/15:53:43.399		IEE+000/18:17:03.333
End	IEE+CDS	00001100:00:0	96-354/16:08:53.399		IEE+000/18:32:13.333
Duration		00000015:00:0	000/00:15:10.000		000/00:15:10.000

Top Label E4INWARMCV03-
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 investigate warming of hot spots on Io's surface as Io is eclipsed by Jupiter.

Data Returned

Design Detail

Instrument Mode: Fixed Map,
Number of wavelengths: 10
Wavelengths,P/B: 10,
Wavelength table: IXM10,
Scan back and forth across disc, 30 times
TLM: LPU

Swath numbers 2 (A), 6 (B), 10 (C), 14 (D),
Swath numbers 18 (E), 22 (F), 26 (G) and 29 (H) selected.

Fixed Map (XM), Gain 2, Grating Start 21, LPU, E4IXM10B, E4IXM10B

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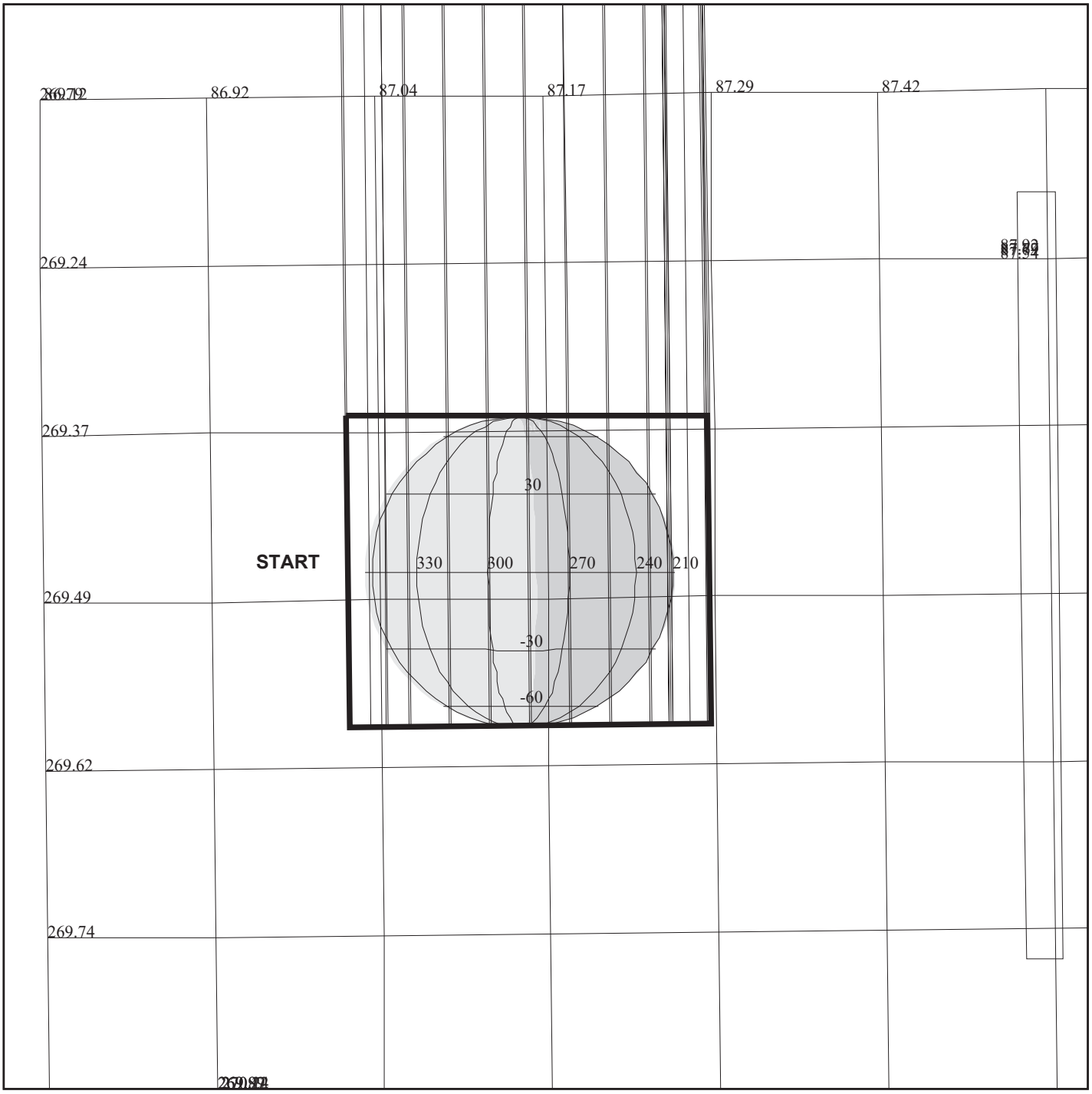

165FS:TT= 0 TMC= 1 C= -2.00 XC= -3.00 BS= 0/9480 TC= 3
A= 728 pD= 0 SR=17.450 RA50= 18.18 DEC50= 9.37 cone= 87.03 clock=269.30
117FS:#SB= 1 OR= 0.750 RR=12.000 BM=F RC= 1 BS= 0/9480
1:#s= 1 Cs= 4.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 28 rD= 2

E4INRTIMON02

TARGET G2.0 jdods:11/ 5/1996 16:32:16

FILE:P.E4INRTIMON02

TARGET BODY : IO

MINI:m.target.e4.961105

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

PERIAPSIS: **THINNING:NIM 2**

START:IEE 96-353/21:36:40.066 +CDS 1106:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.300**

OBSERVATION:E4INRTIMON02 **DESCRIP:REAL TIME IO MONORING**

Real Time Io monoring

ACTIVITY ID: E4INRTIMON02-
START TIME: 96-354/16:09:54.066

Activity ID: Orbit E4 Target I Inst N OAPEL RTIMON SeqNo 02 -

Title	Real Time Io monoring			Instrument	NIMS
Requestor	NIMS-SWG/R. LOPES	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	E4A	Calendar Date	12/19/96 Week 51
Start	IEE+CDS 00001101:00:0	96-354/16:09:54.066		IEE+000/18:33:14.000	
End	IEE+CDS 00001109:00:0	96-354/16:17:59.399		IEE+000/18:41:19.333	
Duration	00000008:00:0	000/00:08:05.333		000/00:08:05.333	

Top Label	E4INRTIMON02				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	50	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

Observation of Io's nightside to map hot spots and look for thermal changes on the surface.

Data Returned

Design Detail

Observation duration per rim: 12 minor frames.
These 12 minor frames must be the first 12 of a rim.
NIMS mirror scan cut from 20 to 8.
Fixed map, 8 wavelengths.
MBTG = 0.017 R/T = 3.5 % MUB.
Offset target center by 2 mrad in cone, either direction.
8 mirror positions will get 23 fields of view, use double Nyquist.
Design the observation to bias toward the bottom of the scan, i.e., cover the satellite with the bottom mirrors accounting for pointing uncertainty. Plot all 20 mirror positions.

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

Fixed Map (XM), Gain 2, Grating Start 21, RT, E4IXM8RT

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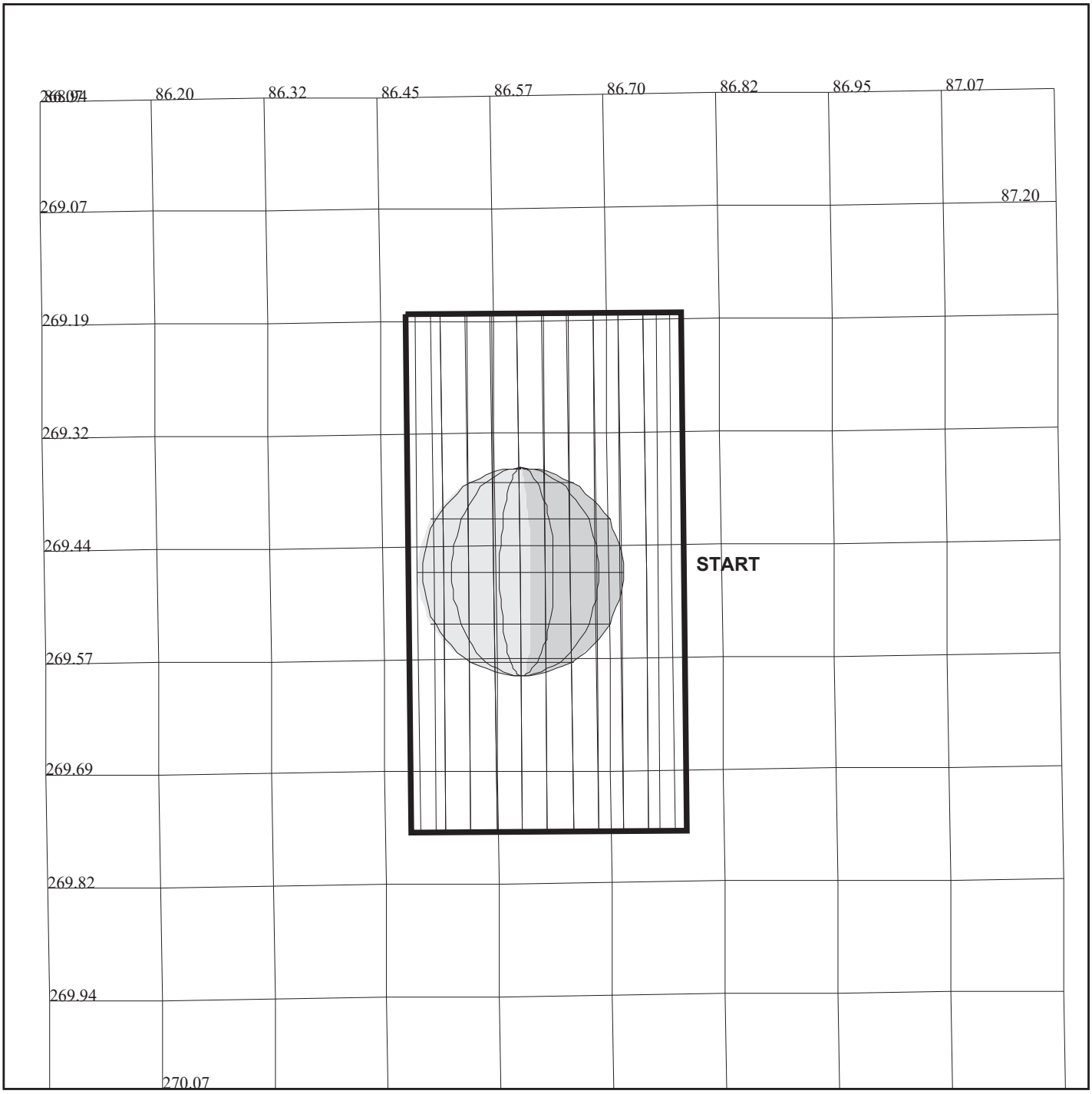

165EZ:TT= 0 TMC= 1 C= 2.40 XC= 0.00 BS=70/0572 TC= 3
A= 464 pD= 0 SR=17.450 RA50= 18.53 DEC50= 9.33 cone= 86.74 clock=269.47
117EZ:#SB= 1 OR= 0.750 RR= 1.400 BM=F RC= 1 BS=70/0572
1:#s= 7 Cs= -5.00 XCs= 0.00 Cr= 4.60 XCr= 0.00 sD= 36 rD= 26

E4INWARMCV04

TARGET G2.0 jdods:11/ 5/1996 16:32:16

FILE:P.E4INWARMCV04

TARGET BODY : IO

MINI:m.target.e4.961105

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

PERIAPSIS: **THINNING:NIM 2**

START:IEE 96-353/21:36:40.066 +CDS 1112:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.200**

OBSERVATION:E4INWARMCV04 **DESCRIP:ECLIPSE EGRESS**

NNIMS Io Eclipse Obs. (post-egress) ACTIVITY ID: E4INWARMCV04-
START TIME: 96-354/16:19:00.066

Activity ID: Orbit E4 Target I Inst N OAPEL WARMCV SeqNo 04 -

Title	NNIMS Io Eclipse Obs. (post-egress)	Instrument	NIMS
Requestor	NIMS-SWG/R. LOPES	Team NIMS	Working Group SWG

Time System CDS Load ID E4A Calendar Date 12/19/96 Week 51

Start	IEE+CDS 00001110:00:0	96-354/16:19:00.066	IEE+000/18:42:20.000
End	IEE+CDS 00001115:20:0	96-354/16:24:16.732	IEE+000/18:47:36.666
Duration	00000005:20:0	000/00:05:16.666	000/00:05:16.666

Top Label E4INWARMCV04-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	50	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

To investigate warming of hot spots on Io's surface as Io is eclipsed by Jupiter.

Data Returned

Design Detail

Instrument Mode: Fixed Map
Number of wavelengths: 10
Wavelengths P/B: 10
Wavelength table: IXM10,
Scan back and forth across disc, 7 times
TLM: LPU

Swath numbers 1 (A), 3 (B), 5 (C), and 7 (D) selected.

Fixed Map (XM), Gain 2, Grating Start 21, LPU, E4IXM10B, E4IXM10B

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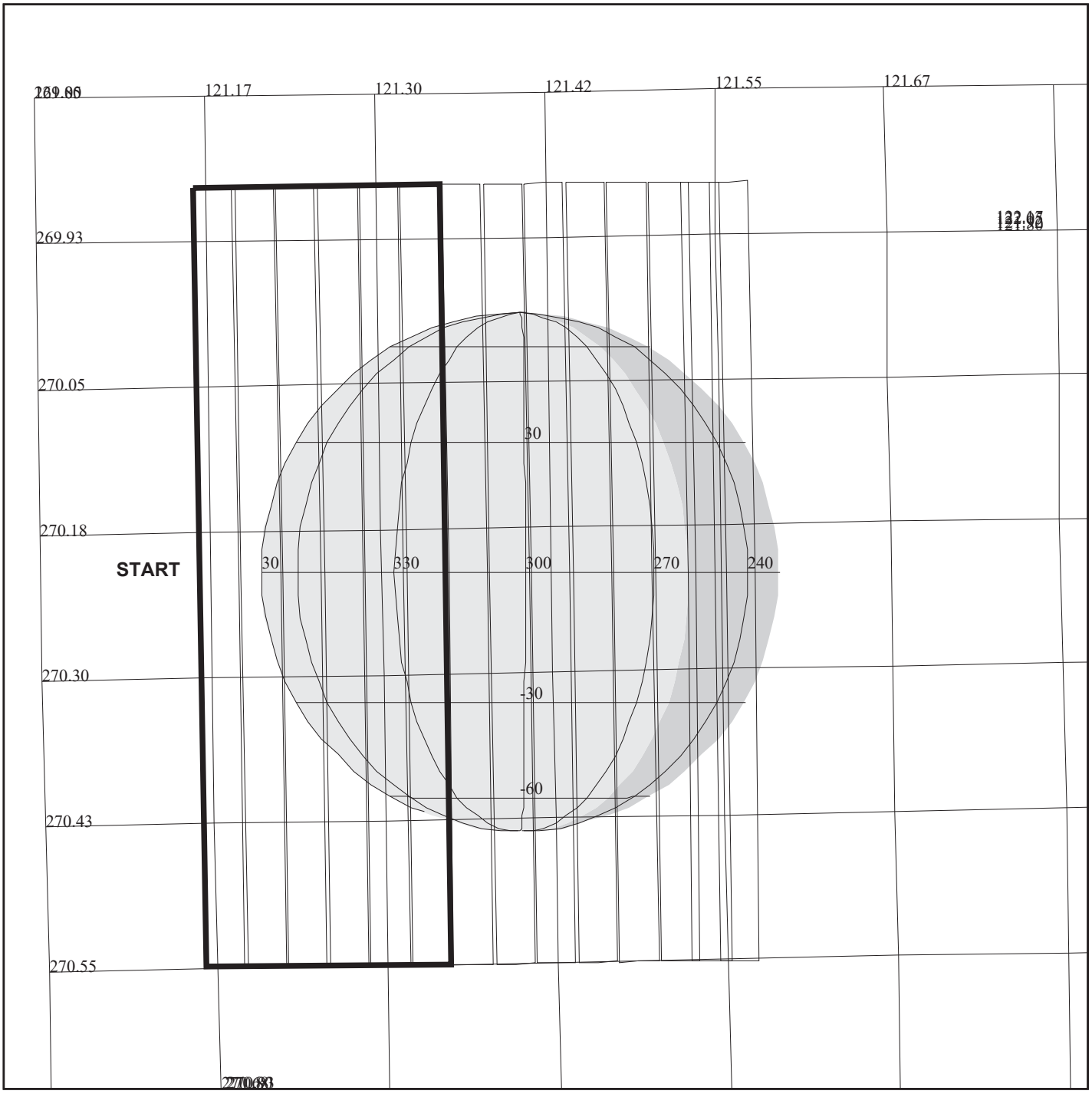

165FZ:TT= 0 TMC= 1 C= -4.00 XC= 0.00 BS= 0/2068 TC= 3
A= 728 pD= 0 SR=17.450 RA50=347.35 DEC50= -5.51 cone=121.17 clock=270.21
117FZ:#SB= 1 OR= 0.010 RR=17.000 BM=F RC= 1 BS= 0/2068
1:#s= 1 Cs= 2.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 696 rD= 2

E4GNGLOBAL01

TARGET G2.0 jdods:11/ 5/1996 16:32:16

FILE:P.E4GNGLOBAL01

TARGET BODY : GANYMEDE

MINI:m.target.e4.961105

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

PERIAPSIS: **THINNING:NIM 2**

START:GEE 96-354/20:13:34.666 -CDS 02:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.500**

OBSERVATION:E4GNGLOBAL01 **DESCRIP:GANYMEDE GLOBAL MAP**

Ganymede Global Map

ACTIVITY ID: E4GNGLOBAL01-
START TIME: 96-354/20:06:30.000

Activity ID: Orbit E4 Target G Inst N OAPEL GLOBAL SeqNo 01 -

Title	Ganymede Global Map			Instrument	NIMS
Requestor	NIMS-SWG/J. HUI	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	E4A	Calendar Date	12/19/96 Week 51
Start	GEE-CDS	00000007:00:0	96-354/20:06:30.000		GEE-000/00:07:04.666
End	GEE+CDS	00000002:00:0	96-354/20:15:35.999		GEE+000/00:02:01.333
Duration		00000009:00:0	000/00:09:05.999		000/00:09:05.999

Top Label E4GNGLOBAL01-
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

Objective is to understand the global distribution of chemical composition over the surface of Ganymede.

Data Returned

Design Detail

This one of a series of global observations to cover the entire surface of Ganymede. This observation covers longitude 245 to 30 at resolution of ~400 km per NIMS pixel. NIMS in LM mode, gain state 3, chopper reference. Scan platform slew at 0.03 mrad/sec.
Recording in MPW 442 wavelengths and plan to return 204 wavelengths.

Only first third of Swath returned to pick up Longitudinal Coverage.

Long Map (LM), Gain 3, Grating Start 0, MPW, E4GLM442, E4GLM204

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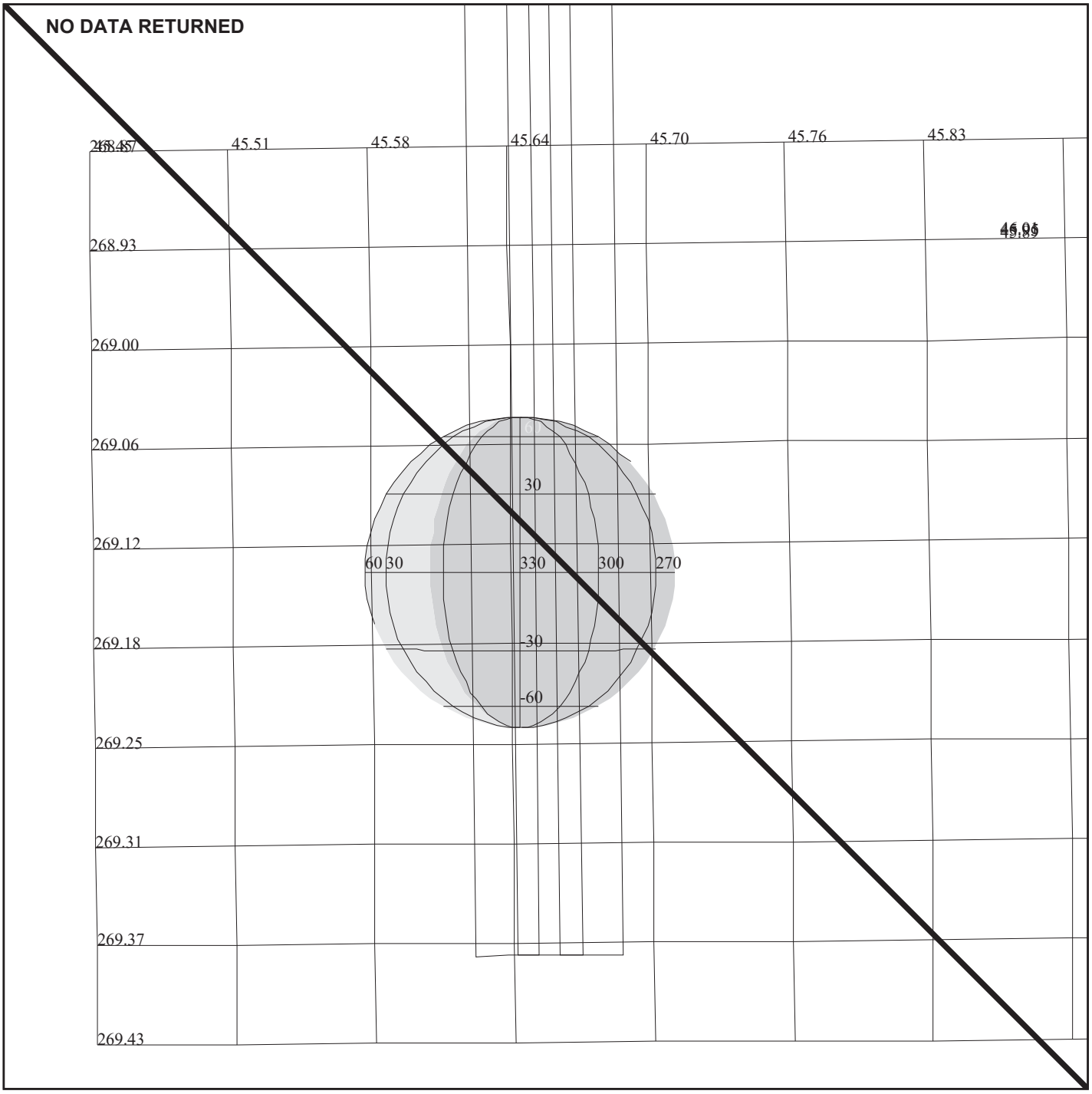

165FB:TT= 0 TMC= 1 C= -0.30 XC= -2.00 BS= 0/5950 TC= 3
A= 728 pD= 0 SR=17.450 RA50= 59.20 DEC50= 22.53 cone= 45.63 clock=268.98
117FB:#SB= 1 OR= 0.020 RR=12.000 BM=F RC= 1 BS= 0/5950
1:#s= 1 Cs= 0.51 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 82 rD= 2

E4INVOLCAN03

TARGET G2.0 jdods:11/ 5/1996 16:32:16

FILE:P.E4INVOLCAN03

TARGET BODY : IO

MINI:m.target.e4.961105

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

PERIAPSIS: **THINNING:NIM 1**

START:IEE 96-353/21:36:40.066 +CDS 1691:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.300**

OBSERVATION:E4INVOLCAN03 **DESCRIP:IO VOLCANOES**

Monitoring of Selected Volcanic Regions ACTIVITY ID: E4INVOLCAN03-
START TIME: 96-355/02:01:24.066

Activity ID: Orbit E4 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	E4A	Calendar Date	12/20/96 Week 51
Start	IEE+CDS 00001686:00:0	96-355/02:01:24.066		IEE+001/04:24:44.000	
End	IEE+CDS 00001692:00:0	96-355/02:07:28.066		IEE+001/04:30:48.000	
Duration	00000006:00:0	000/00:06:04.000		000/00:06:04.000	

Top Label	E4INVOLCAN03-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	153	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

To monitor time variations in activity of selected regions
(Loki, Pelee, Kanehekili) using selected wavelengths.

No Data Returned

Design Detail

Long Map, 102 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.)

Wavelength table: ILMDK102,
TLM: LPU

Long Map (LM), Gain 4, Grating Start 0, LPU, E4ILMDK245, E4ILMDK102

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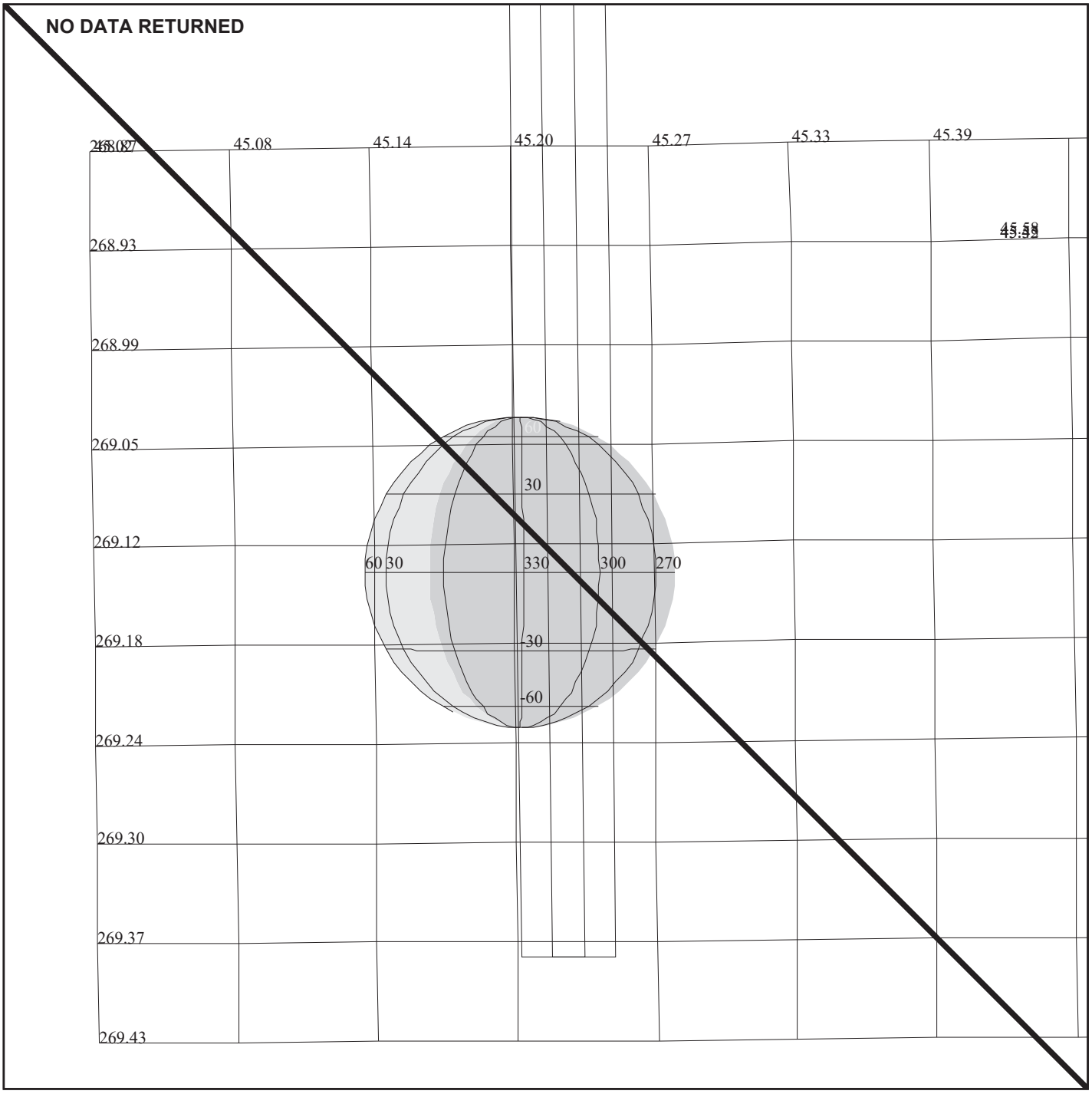

165FC:TT= 0 TMC= 1 C= 0.10 XC= -2.00 BS= 0/7224 TC= 3
A= 728 pD= 0 SR=17.450 RA50= 59.64 DEC50= 22.62 cone= 45.21 clock=268.97
117FC:#SB= 1 OR= 0.010 RR=12.000 BM=F RC= 1 BS= 0/7224
1:#s= 1 Cs= 0.20 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 64 rD= 2

E4INVOLCAN04

TARGET G2.0 jdods:11/ 5/1996 16:32:16

FILE:P.E4INVOLCAN04

TARGET BODY : IO

MINI:m.target.e4.961105

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

PERIAPSIS: **THINNING:NIM 1**

START:IEE 96-353/21:36:40.066 +CDS 1698:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.300**

OBSERVATION:E4INVOLCAN04 **DESCRIP:IO VOLCANOES**

Monitoring of Selected Volcanic Regions ACTIVITY ID: E4INVOLCAN04-
START TIME: 96-355/02:08:28.732

Activity ID: Orbit E4 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	E4A	Calendar Date	12/20/96 Week 51
Start	IEE+CDS 00001693:00:0	96-355/02:08:28.732		IEE+001/04:31:48.666	
End	IEE+CDS 00001698:53:0	96-355/02:14:07.399		IEE+001/04:37:27.333	
Duration	00000005:53:0	000/00:05:38.667		000/00:05:38.667	

Top Label	E4INVOLCAN04-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	153	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

To monitor time variations in activity of selected regions
(Loki, Pelee, Kanehekili) using selected wavelengths.

No Data Returned

Design Detail

Long Map, 102 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.)

Wavelength table: ILMDK102,
TLM: LPU

Long Map (LM), Gain 4, Grating Start 0, LPU, E4ILMDK245, E4ILMDK102

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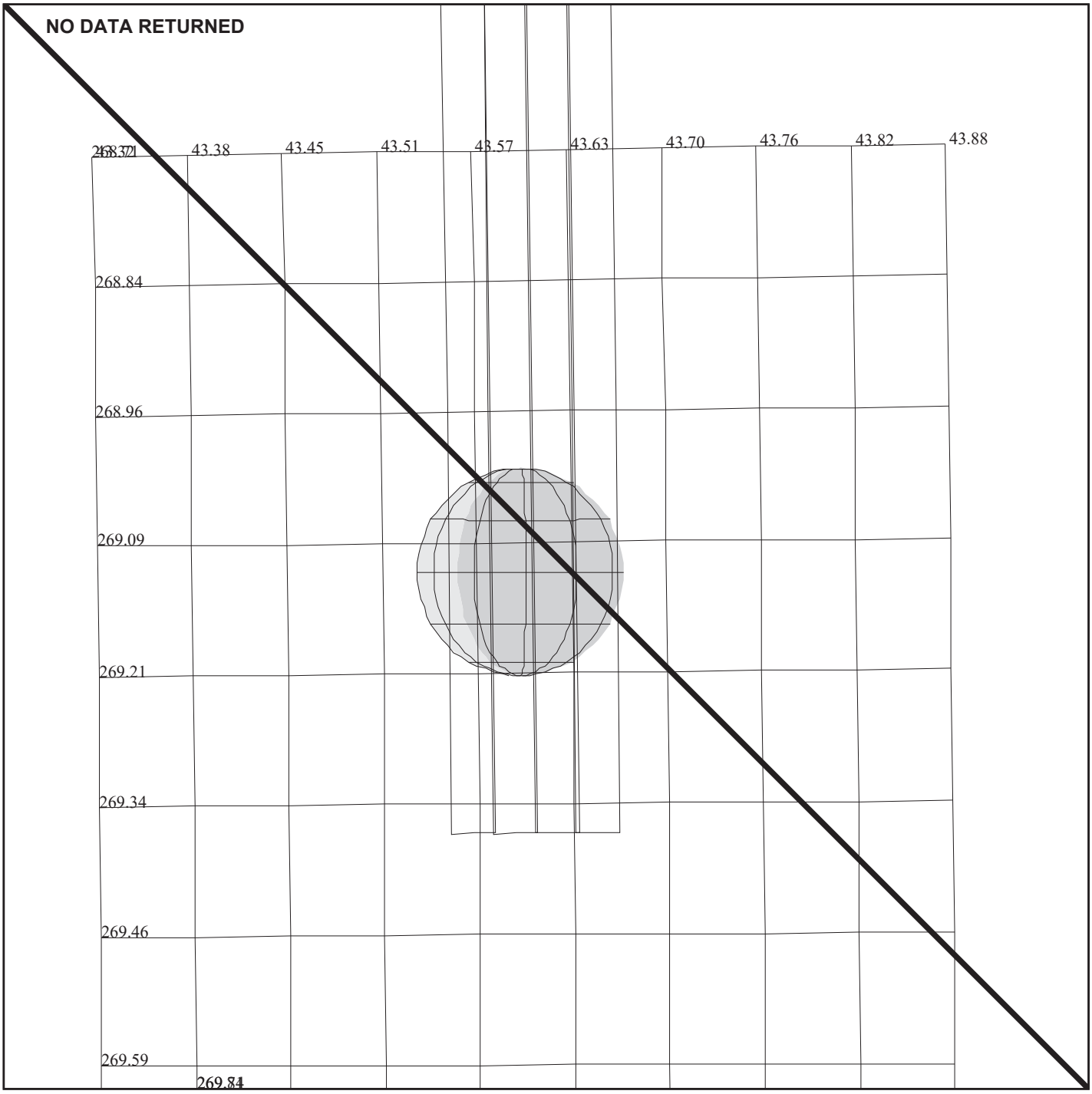

165FE:TT= 0 TMC= 1 C= -0.70 XC= -2.00 BS= 0/1956 TC= 3
A= 728 pD= 0 SR=17.450 RA50= 61.39 DEC50= 22.94 cone= 43.56 clock=268.95
117FE:#SB= 1 OR= 0.010 RR=12.000 BM=F RC= 1 BS= 0/1956
1:#s= 1 Cs= 0.70 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 214 rD= 2

E4INTHRMAL02

TARGET G2.0 jdods:11/ 5/1996 16:32:16

FILE:P.E4INTHRMAL02

TARGET BODY : IO

MINI:m.target.e4.961105

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

PERIAPSIS: **THINNING:NIM 2**

START:IEE 96-353/21:36:40.066 +CDS 1724:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.200**

OBSERVATION:E4INTHRMAL02 **DESCRIP:IO NIGHTSIDE**

Monitoring of Io's Nightside

ACTIVITY ID: E4INTHRMAL02-
START TIME: 96-355/02:34:46.066

Activity ID: Orbit E4 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	E4A	Calendar Date	12/20/96 Week 51
Start	IEE+CDS 00001719:00:0	96-355/02:34:46.066		IEE+001/04:58:06.000	
End	IEE+CDS 00001725:40:0	96-355/02:41:16.732		IEE+001/05:04:36.666	
Duration	00000006:40:0	000/00:06:30.666		000/00:06:30.666	

Top Label	E4INTHRMAL02-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	128	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 surfac 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: 102,
Tracks used per orbit: 0.01 to 0.1,
Bits To Ground used per orbit: 0.01 to 0.5 Mbits.
Wavelength table: ILMDK102,
TLM: LPU

Long Map (LM), Gain 4, Grating Start 0, LPU, E4ILMDK245, E4ILMDK102

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Jupiter High Phase Angle Science Turn ACTIVITY ID: E4JNSCITRN01-
START TIME: 96-355/03:59:42.000

Activity ID: Orbit E4 Target J Inst N OAPEL SCITRN SeqNo 01 -

Title	Jupiter High Phase Angle Science Turn	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team NIMS	Working Group AWG

Time System CDS Load ID E4A Calendar Date 12/20/96 Week 51

Start	EEE+CDS 00001251:00:0	96-355/03:59:42.000	EEE+000/21:04:54.000
End	EEE+CDS 00002078:00:0	96-355/17:55:53.333	EEE+001/11:01:05.333
Duration	00000827:00:0	000/13:56:11.333	000/13:56:11.333

Top Label E4JNSCITRN01-
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

18:10:00 Science turn window for AWG observations of Jupiter at 148 -160 degrees phase angle. Observations within this window should refer to epoch JHP (Jupiter High Phase) for 148 degrees observation and epoch JSP for 160 degrees observation.

Design Detail

3 hours assumed to enter the turn, 3 hours to leave it, 0.5 additional hours assumed at both beginning and end for the sliding observation window required to ensure observations of the feature campaign target. Nominal observing period for nominal target at 330 degrees west longitude:
JPE+001/03:30:00 to JPE+001/14:40:00

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Reload NIMS Memory

ACTIVITY ID: E4NNRELOAD08-
START TIME: 96-355/06:29:20.666

Activity ID: Orbit E4 Target N Inst N OAPEL RELOAD SeqNo 08 -

Title	Reload NIMS Memory			Instrument	NIMS
Requestor	NIMS-SWG/J. HUI	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	Calendar Date	12/20/96	Week 51
Start	EEE+CDS	00001399:00:0	96-355/06:29:20.666	EEE+000/23:34:32.666	
End	EEE+CDS	00001415:00:0	96-355/06:45:31.333	EEE+000/23:50:43.333	
Duration		00000016:00:0	000/00:16:10.667	000/00:16:10.667	

Top Label	E4NNRELOAD08-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	50	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

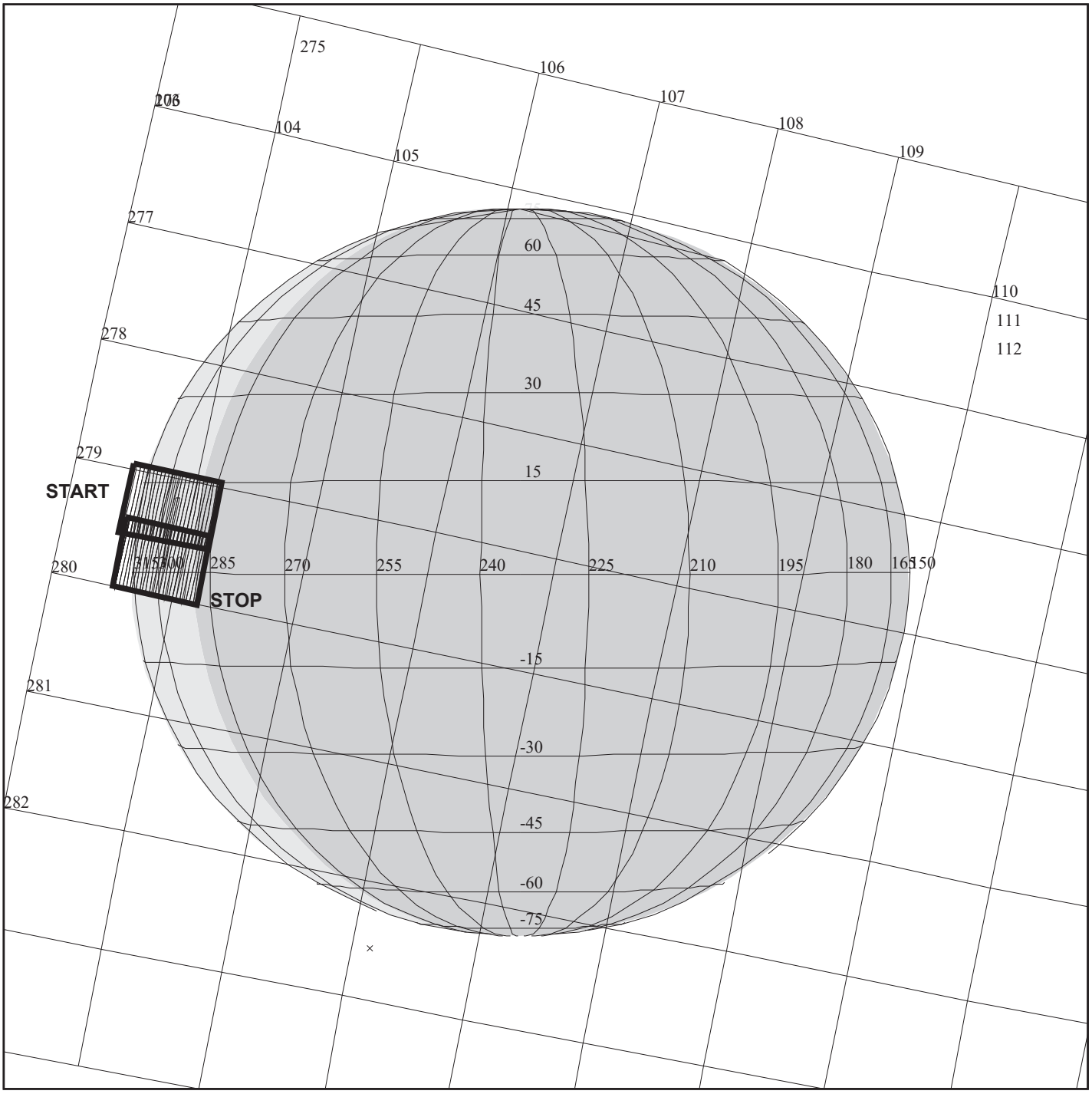
Observation Objective

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 11/15/96 10:45:23 rev 6/95



165FG:TT= 0 TMC= 1 C= -2.30 XC= 0.00 BS= 0/7820 TC= 1(12 313)
A= 728 pD= 0 SR=17.450 RA50= 83.16 DEC50= 25.64 cone=103.47 clock=279.25
117FG:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/7820
1:#s= 2 Cs= 12.50 XCs= 0.00 Cr= -12.50 XCr= 8.00 sD= 344 rD= 40

E4JNFEA14801

TARGET G2.0 jdods:11/ 5/1996 16:32:16

FILE:P.E4JNFEA14801

CENTRAL BODY:JUPITER

MINI:m.target.e4.961105

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

PERIAPSIS: **THINNING:NIM 2**

START:JHP 96-353/02:21:58.733 +CDS 03118:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750**

OBSERVATION:E4JNFEA14801 **DESCRIP:E4_FEA_148_PHASE_01**

Jupiter Camp. feat. 148 deg. phase Prt 1 ACTIVITY ID: E4JNFEA14801-
START TIME: 96-355/06:49:34.066

Activity ID: Orbit E4 Target J Inst N OAPEL FEA148 SeqNo 01 -

Title	Jupiter Camp. feat. 148 deg. phase Prt 1	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS Working Group AWG

Time System	CDS	Load ID	E4A	Calendar Date	12/20/96 Week 51
Start	JHP+CDS	00003113:00:0	96-355/06:49:34.066		JHP+002/04:27:35.333
End	JHP+CDS	00003122:20:0	96-355/06:58:53.399		JHP+002/04:36:54.666
Duration		00000009:20:0	000/00:09:19.333		000/00:09:19.333

Top Label	E4JNFEA14801-				
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 20 OAPELs constituting the feature tracks for this feature campaign. This is the first observation obtained on a rotation with phase angle approximately 148 degrees. Jupiter imaged in 15 colors, using NIMS downlink wavelength table JFT15A. This observation acquired with feature (a region of hot spots) near the bright limb, assuming feature coordinates 7 degrees North latitude and 313 degrees West longitude (System III).

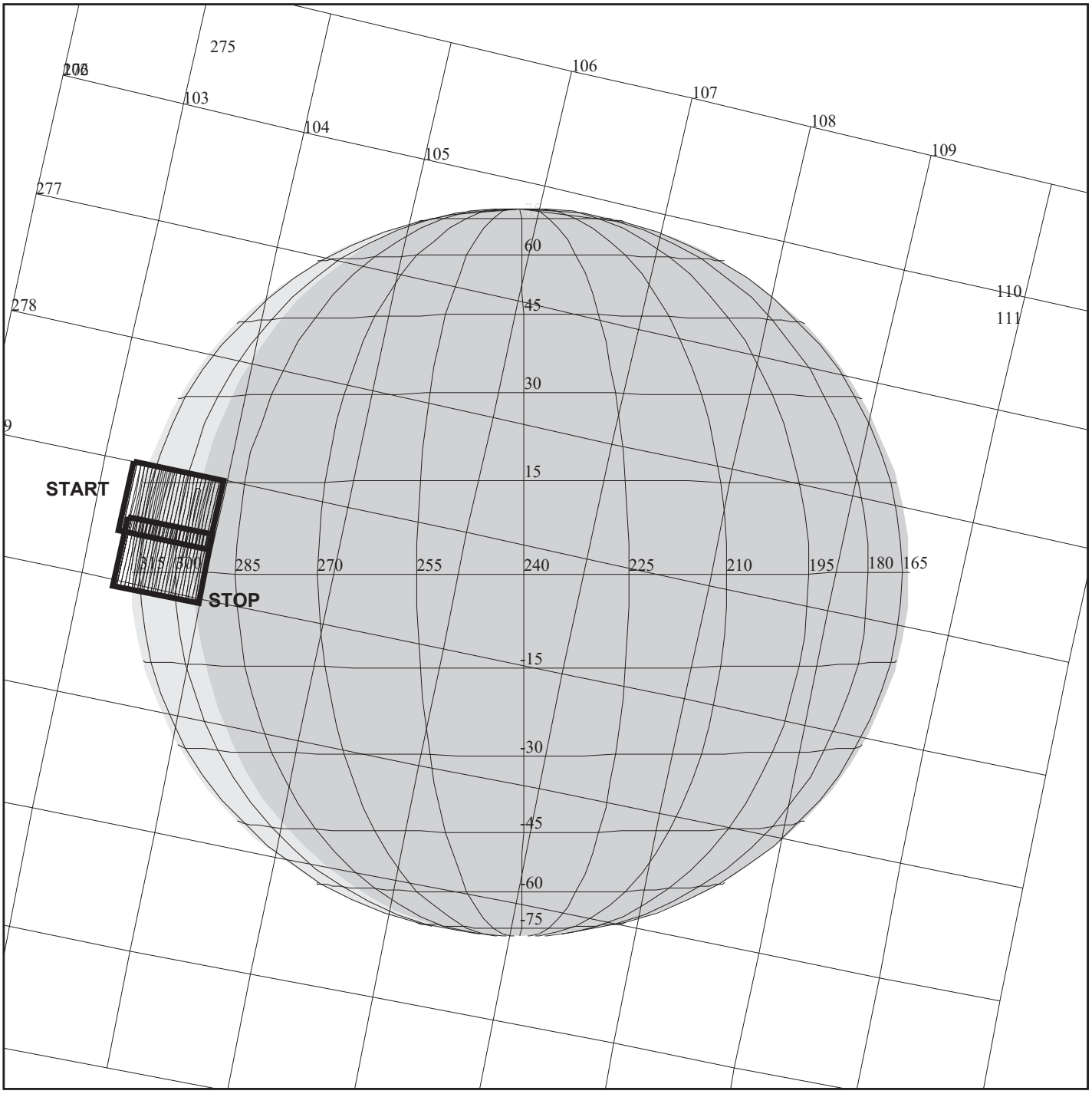
Data Returned

Design Detail

Shortmap, Nyquist-sampled observation of 2*1 (20*10 mrad) area centered on hot spot near 313 degrees west longitude, 7 degrees North latitude. S/C distance about 1.29 million KM, NIMS IFOV (NIMSEL) = 645 KM; 2*1 mosaic covers 25800*12900 KM, about 4 minutes of scanning, accumulating 0.1745 MBTG in 15 colors, and using 0.0081 tracks. 4 minutes reserved for targetting. Observation is first of those accomplished while the spacecraft is turned off-Earthline. (A 2.5 hour pad is needed for flexibility in feature selection). Wavelength table: JFT15A, TLM: LPU
Note 10/18/96: This and other feature track OAPELs account for the 100.3 m/sec (-7 degrees per day) zonal wind.

Short Map (SM), Gain 2, Grating Start 1, LPU, E4JFT68B, E4JFT15A

Galileo Activity Plan Form 11/15/96 10:45:23 rev 6/95



165FH:TT= 0 TMC= 1 C= -3.30 XC= 0.00 BS= 0/9640 TC= 1(12 313)
A= 364 pD= 0 SR=17.450 RA50= 83.41 DEC50= 25.66 cone=103.24 clock=279.29
117FH:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/9640
1:#s= 2 Cs= 12.50 XCs= 0.00 Cr= -12.50 XCr= 8.00 sD= 346 rD= 36

E4JNFEA14802

TARGET G2.0 jdods:11/ 5/1996 16:32:16

FILE:P.E4JNFEA14802

CENTRAL BODY:JUPITER

MINI:m.target.e4.961105

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

PERIAPSIS: **THINNING:NIM 2**

START:JHP 96-353/02:21:58.733 +CDS 03128:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750**

OBSERVATION:E4JNFEA14802 **DESCRIP:E4_FEA_148_PHASE_02**

Jupiter Camp. feat. 148 deg. phase Prt 2 ACTIVITY ID: E4JNFEA14802-
START TIME: 96-355/07:01:42.066

Activity ID: Orbit E4 Target J Inst N OAPEL FEA148 SeqNo 02 -

Title	Jupiter Camp. feat. 148 deg. phase Prt 2	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS Working Group AWG

Time System	CDS	Load ID	E4A	Calendar Date	12/20/96 Week 51
Start	JHP+CDS 00003125:00:0	96-355/07:01:42.066		JHP+002/04:39:43.333	
End	JHP+CDS 00003132:20:0	96-355/07:09:00.066		JHP+002/04:47:01.333	
Duration	00000007:20:0	000/00:07:18.000		000/00:07:18.000	

Top Label	E4JNFEA14802-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	121	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of 20 OAPELs constituting the feature tracks for this feature campaign. This is the second observation obtained on a rotation with phase angle approximately 148 degrees. Jupiter imaged in 15 colors, using NIMS downlink wavelength table JFT15A. This observation acquired with feature (a region of hot spots) near minimum airmass, assuming feature coordinates 7 degrees North latitude and 313 degrees West longitude (System III).

Data Returned

Design Detail

Shortmap, Nyquist-sampled observation of 2*1 (20*10 mrad) area centered on hot spot near 313 degrees west longitude, 7 degrees North latitude.
S/C distance about 1.29 million KM, NIMS IFOV (NIMSEL) = 645 KM;
2*1 mosaic covers 25800*12900 KM, about 4 minutes of scanning,
accumulating 0.1745 MBTG in 15 colors, and using 0.0081 tracks.
2 minutes reserved for targetting.
Spacecraft is turned off-Earthline during this observation.
Wavelength table: JFT15A, TLM: LPU
Note 10/18/96: This and other feature track OAPELs account for the 100.3 m/sec (-7 degrees per day) zonal wind.

Short Map (SM), Gain 2, Grating Start 1, LPU, E4JFT68B, E4JFT15A

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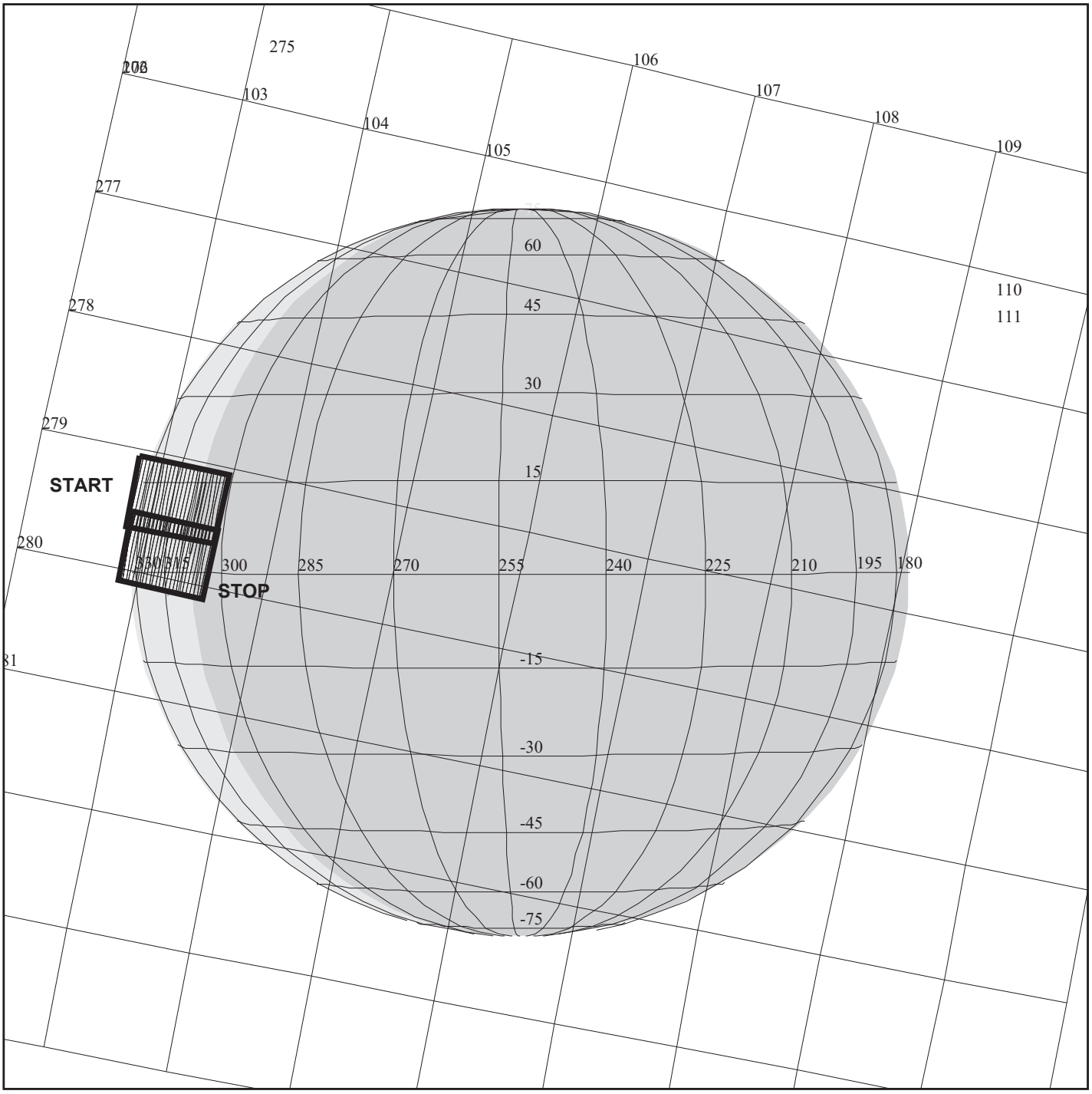

165Fl:TT= 0 TMC= 1 C= -6.50 XC= 0.00 BS= 0/3280 TC= 1(12 313)
A= 364 pD= 0 SR=17.450 RA50= 83.89 DEC50= 25.70 cone=102.81 clock=279.35
117Fl:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/3280
1:#s= 2 Cs= 12.50 XCs= 0.00 Cr= -12.50 XCr= 8.00 sD= 346 rD= 36

E4JNFEA14803

TARGET G2.0 jdods:11/ 5/1996 16:32:16

FILE:P.E4JNFEA14803

CENTRAL BODY:JUPITER

MINI:m.target.e4.961105

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

PERIAPSIS: **THINNING:NIM 2**

START:JHP 96-353/02:21:58.733 +CDS 03148:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750**

OBSERVATION:E4JNFEA14803 **DESCRIP:E4_FEA_148_PHASE_03**

Jupiter Camp. feat. 148 deg. phase Prt 3 ACTIVITY ID: E4JNFEA14803-
START TIME: 96-355/07:21:55.399

Activity ID: Orbit E4 Target J Inst N OAPEL FEA148 SeqNo 03 -

Title	Jupiter Camp. feat. 148 deg. phase Prt 3	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS Working Group AWG

Time System	CDS	Load ID	E4A	Calendar Date	12/20/96 Week 51
Start	JHP+CDS 00003145:00:0	96-355/07:21:55.399		JHP+002/04:59:56.666	
End	JHP+CDS 00003152:20:0	96-355/07:29:13.399		JHP+002/05:07:14.666	
Duration	00000007:20:0	000/00:07:18.000		000/00:07:18.000	

Top Label	E4JNFEA14803-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	121	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of 20 OAPELs constituting the feature tracks for this feature campaign. This is the third observation obtained on a rotation with phase angle approximately 148 degrees. Jupiter imaged in 15 colors, using NIMS downlink wavelength table JFT15A. This observation acquired with feature (a region of hot spots) near the evening terminator, assuming feature coordinates 7 degrees North latitude and 313 degrees West longitude (System III).

Data Returned

Design Detail

Shortmap, Nyquist-sampled observation of 2*1 (20*10 mrad) area centered on hot spot near 313 degrees West longitude, 7 degrees North latitude.
S/C distance about 1.29 million KM, NIMS IFOV (NIMSEL) = 645 KM;
2*1 mosaic covers 25800*12900 KM, about 4 minutes of scanning,
accumulating 0.1745 MBTG in 15 colors, and using 0.0081 tracks.
2 minutes reserved for targetting.
Spacecraft is turned off-Earthline during this observation.
Wavelength table: JFT15A, TLM: LPU
Note 10/18/96: This and other feature track OAPELs account for the 100.3 m/sec (-7 degrees per day) zonal wind.

Short Map (SM), Gain 2, Grating Start 1, LPU, E4JFT68B, E4JFT15A

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E4 Health 4

ACTIVITY ID: E4NNHEALTH04-
START TIME: 96-355/07:59:20.000

Activity ID: Orbit E4 Target N Inst N OAPEL HEALTH SeqNo 04 -

Title	E4 Health 4			Instrument	NIMS
Requestor	NIMS-SWG/J. HUI		Team NIMS	Working Group	SWG

Time System	CDS	Load ID E4A	Calendar Date	12/20/96	Week 51
Start	EEE+CDS	00001488:00:0	96-355/07:59:20.000	EEE+001/01:04:32.000	
End	EEE+CDS	00001492:00:0	96-355/08:03:22.666	EEE+001/01:08:34.666	
Duration		00000004:00:0	000/00:04:02.666	000/00:04:02.666	

Top Label E4NNHEALTH04-
Bottom Label

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

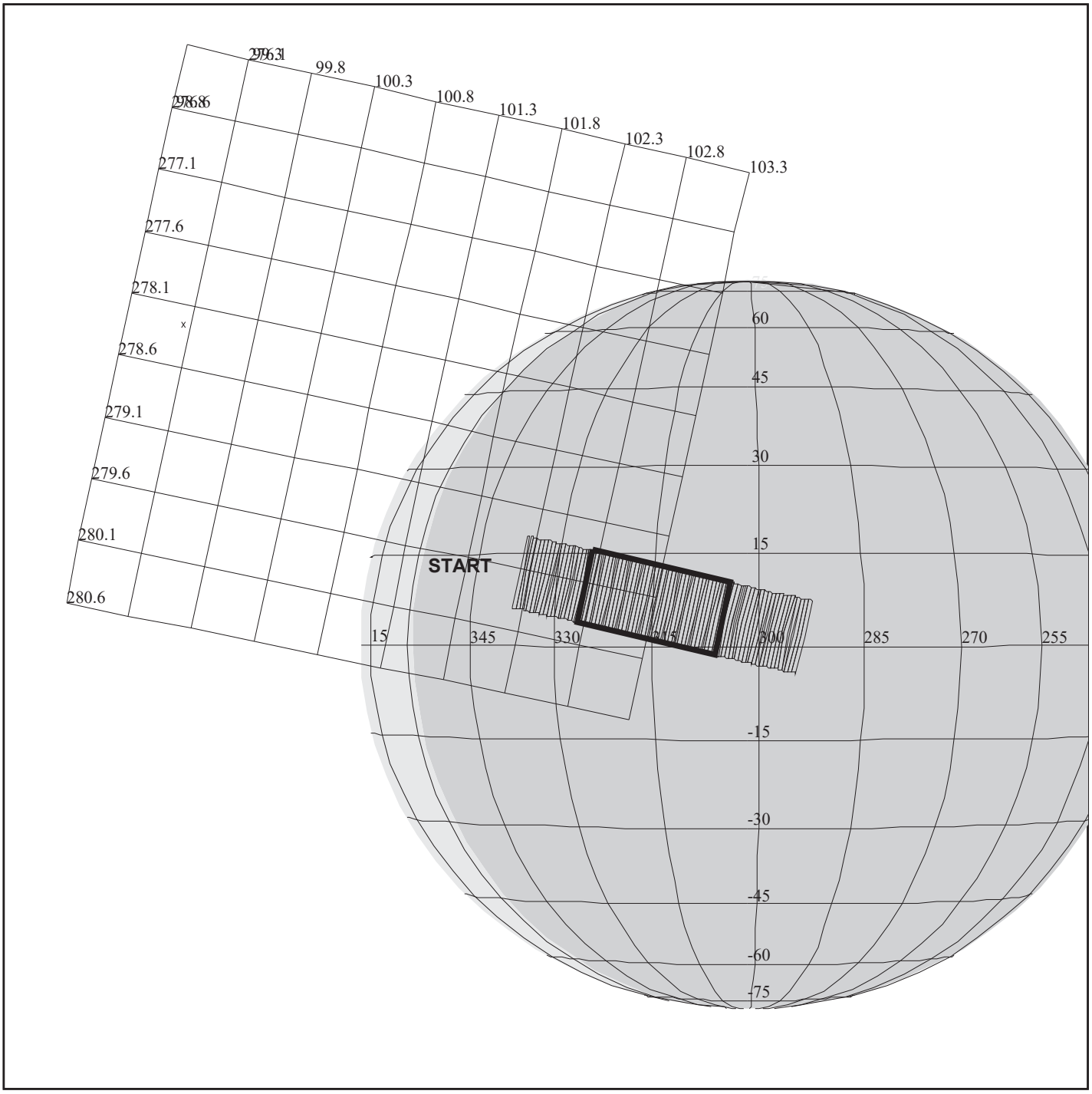
Observation Objective

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.

Design Detail

Long Map (LM), Gain 2, Grating Start 0, RT, E4RECVY3

Galileo Activity Plan Form 11/15/96 10:45:24 rev 6/95



165FJ:TT= 0 TMC= 1 C= -5.00 XC= 1.00 BS= 0/8568 TC= 1(12 330)
A= 728 pD= 0 SR=17.450 RA50= 84.64 DEC50= 25.62 cone=102.18 clock=279.59
117FJ:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/8568
1:#s= 2 Cs= 43.10 XCs= 0.00 Cr= -37.70 XCr= -1.00 sD= 4320 rD= 364

E4JNFEA53M01

TARGET G2.0 jdods:11/ 5/1996 16:32:16

FILE:P.E4JNFEA53M01

CENTRAL BODY:JUPITER

MINI:m.target.e4.961105

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

PERIAPSIS: **THINNING:NIM 2**

START:JHP 96-353/02:21:58.733 +CDS 3232:00:0 **BODY PLOT TIME:CENTER-TIME D= 0 S= 0.750**

OBSERVATION:E4JNFEA53M01 **DESCRIP:E4_5&3_MICRON_MAP_01**

Jupiter Campaign feature 5 & 3 um maps ACTIVITY ID: E4JNFEA53M01-
START TIME: 96-355/08:44:50.066

Activity ID: Orbit E4 Target J Inst N OAPEL FEA53M SeqNo 01 -

Title	Jupiter Campaign feature 5 & 3 um maps	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team NIMS	Working Group AWG

Time System CDS Load ID E4A Calendar Date 12/20/96 Week 51

Start	JHP+CDS 00003227:00:0	96-355/08:44:50.066	JHP+002/06:22:51.333
End	JHP+CDS 00003282:00:0	96-355/09:40:26.733	JHP+002/07:18:28.000
Duration	00000055:00:0	000/00:55:36.667	000/00:55:36.667

Top Label E4JNFEA53M01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	121	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

High spectral resolution 5-micron and 3 micron nightime maps of trace species within the hot spot campaign feature. The hot spot feature, centered at 315 degrees west longitude (system III), 7 degrees north latitude, is observed near the central meridian during the phase angle ~ 148 degrees rotation. The hot spot is scanned in the 160 wavelengths specified by NIMS wavelength table J35160. A second scan is partially recorded and played back as well (27 seconds worth of data).

Data Returned

Design Detail

Longmap, Nyquist-sampled observation of 4*1 (40*10 mrad) area centered on campaign feature. S/C distance about 1.30 million KM, map covers 52000*13000 KM. Scan encompasses about 24 minutes of scanning, accumulating 1.450 MBTG and using 0.0484 tracks. 4 minutes reserved for targetting. 2 minutes reserved for reposition slew to perform a second observation observation which is partially recorded.
Total OAPEL resources used: 2.81 MBTG and 0.0499 tracks.
Spacecraft is turned off-Earthline for this observation.
Wavelength table: J35160, TLM: LPU
Note 10/18/96: This and other feature track OAPELs account fot the 100.3 m/sec (-7 degrees per day) zonal wind.

Center half of first swath returned.
Second overlapping swath not returned, removed from pointer plot for clarity

Long Map (LM), Gain 4, Grating Start 0, LPU, E4J35160, E4J35160

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Reload NIMS Memory

ACTIVITY ID: E4NNRELOAD09-
START TIME: 96-355/10:08:45.333

Activity ID: Orbit E4 Target N Inst N OAPEL RELOAD SeqNo 09 -

Title	Reload NIMS Memory			Instrument	NIMS
Requestor	NIMS-SWG/J. HUI	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	Calendar Date	12/20/96	Week 51
Start	EEE+CDS	00001616:00:0	96-355/10:08:45.333	EEE+001/03:13:57.333	
End	EEE+CDS	00001632:00:0	96-355/10:24:56.000	EEE+001/03:30:08.000	
Duration		00000016:00:0	000/00:16:10.667	000/00:16:10.667	

Top Label	E4NNRELOAD09-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	50	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

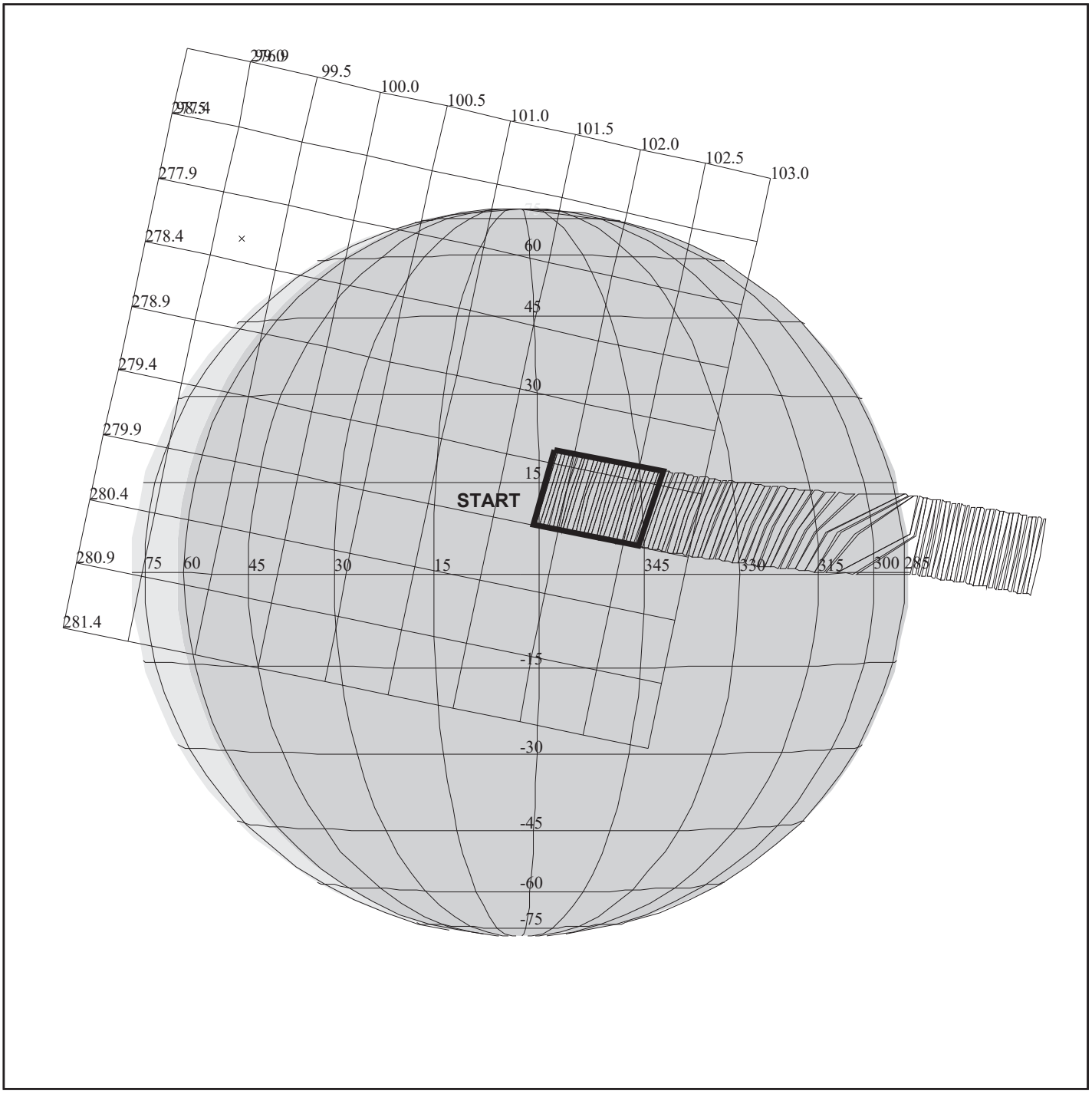
Observation Objective

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 11/15/96 10:45:24 rev 6/95



165FK:TT= 0 TMC= 1 C= -15.00 XC= -5.00 BS= 0/7496 TC= 1(12 330)
A= 364 pD= 4368 SR=17.450 RA50= 84.28 DEC50= 26.04 cone=102.39 clock=279.11
117FK:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/7496
1:#s= 2 Cs= 43.50 XCs= 0.00 Cr= -50.00 XCr= 8.00 sD= 4368 rD= 40

E4JNFEA5UM01

TARGET G2.0 jdods:11/ 5/1996 16:32:16

FILE:P.E4JNFEA5UM01

CENTRAL BODY:JUPITER

MINI:m.target.e4.961105

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

PERIAPSIS: **THINNING:NIM 2**

START:JHP 96-353/02:21:58.733 +CDS 03336:00:0 **BODY PLOT TIME:TARGET-TIME D= 4368 S= 0.750**

OBSERVATION:E4JNFEA5UM01 **DESCRIP:E4_FEAT_5_MICRON_#2**

Jupiter Campaign feat. 5 micron map # 2 ACTIVITY ID: E4JNFEA5UM01-
START TIME: 96-355/10:32:00.733

Activity ID: Orbit E4 Target J Inst N OAPEL FEA5UM SeqNo 01 -

Title	Jupiter Campaign feat. 5 micron map # 2	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS Working Group AWG

Time System	CDS	Load ID	E4A	Calendar Date	12/20/96 Week 51
Start	JHP+CDS 00003333:00:0	96-355/10:32:00.733		JHP+002/08:10:02.000	
End	JHP+CDS 00003384:20:0	96-355/11:23:48.066		JHP+002/09:01:49.333	
Duration	00000051:20:0	000/00:51:47.333		000/00:51:47.333	

Top Label	E4JNFEA5UM01-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	121	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

High spectral resolution 5-micron nighttime map of trace species within the hot spot campaign feature. This is the second 5-um map obtained during the high phase angle sciturn, the other having been obtained during OAPEL FEA53M. The hot spot, centered at 313 degrees West longitude (system III), 7 degrees North latitude, observed near 60 degrees emission angle during the phase angle ~148 degrees rotation. The hot spot is scanned in the 80 wavelengths specified by NIMS wavelength table J5M80B: 4.28 - 5.22 microns.

Data Returned

Design Detail

Longmap, Nyquist-sampled observation of 4*1 (40*10 mrad) area centered on the hot spot campaign feature. S/C distance about 1.38 million KM, map covers 55200*13800 KM. About 24 minutes of scanning, accumulating 1.450 MBTG and using 0.0484 tracks. 2 minutes reserved for targetting. Spacecraft is turned off-earthline for this observation.
Wavelength table: J5M80B, TLM: LPU
Note 10/18/96: Playback reduced to 209 secs to satisfy new downlink budget dictated by the new solar conjunction playback constraint.

Only first 7 Rims of swath recorded and playedback.

Long Map (LM), Gain 4, Grating Start 0, LPU, E4J5M253B, E4J5M80B

Galileo Activity Plan Form 11/15/96 10:45:24 rev 6/95

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Reload NIMS Memory

ACTIVITY ID: E4NNRELOAD10-
START TIME: 96-355/15:19:10.000

Activity ID: Orbit E4 Target N Inst N OAPEL RELOAD SeqNo 10 -

Title	Reload NIMS Memory			Instrument	NIMS
Requestor	NIMS-SWG/J. HUI	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	Calendar Date	12/20/96	Week 51
Start	EEE+CDS	00001923:00:0	96-355/15:19:10.000	EEE+001/08:24:22.000	
End	EEE+CDS	00001939:00:0	96-355/15:35:20.666	EEE+001/08:40:32.666	
Duration		00000016:00:0	000/00:16:10.666	000/00:16:10.666	

Top Label	E4NNRELOAD10-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	50	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

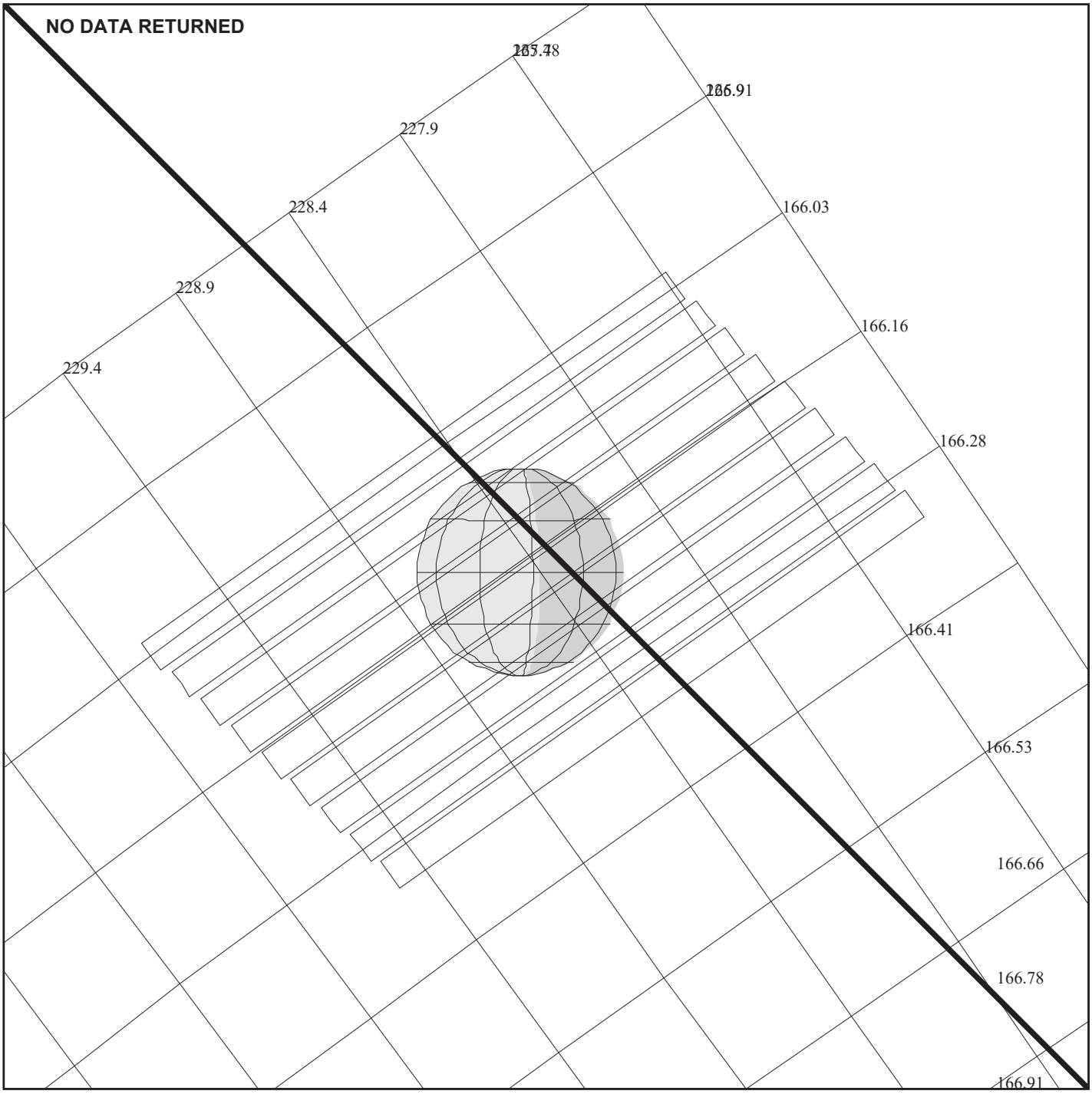
Observation Objective

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 11/15/96 10:45:24 rev 6/95



165FL:TT= 0 TMC= 1 C= -2.40 XC= 0.50 BS= 0/4462 TC= 3
A= 728 pD= 0 SR=17.450 RA50= 14.16 DEC50= 7.22 cone=166.03 clock=228.62
117FL:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/4462
1:#s= 1 Cs= 4.50 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 456 rD= 2

E4CNGLOBAL01

TARGET G2.0 jdods:11/ 5/1996 16:32:16

FILE:P.E4CNGLOBAL01

TARGET BODY : CALLISTO

MINI:m.target.e4.961105

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

PERIAPSIS:

THINNING:NIM 2

START:JSP 96-355/16:50:09.933 -CDS 58:00:0

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

OBSERVATION:E4CNGLOBAL01

DESCRIP:CALLISTO GLOBAL MAP

Callisto Global Coverage

ACTIVITY ID: E4CNGLOBAL01-
START TIME: 96-355/15:46:27.933

Activity ID: Orbit E4 Target C Inst N OAPEL GLOBAL SeqNo 01 -

Title	Callisto Global Coverage			Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	E4A	Calendar Date	12/20/96 Week 51
Start	JSP-CDS	00000063:00:0	96-355/15:46:27.933		JSP-000/01:03:42.000
End	JSP-CDS	00000055:00:0	96-355/15:54:33.267		JSP-000/00:55:36.666
Duration		00000008:00:0	000/00:08:05.334		000/00:08:05.334

Top Label E4CNGLOBAL01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	142	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

The objective is to obtain the best combined spatial and spectral resolution of Callisto's surface, to investigate the mineralogy and to determine the distribution of compositional units. This observation will aid in science planning for future orbits.

No Data Returned

Design Detail

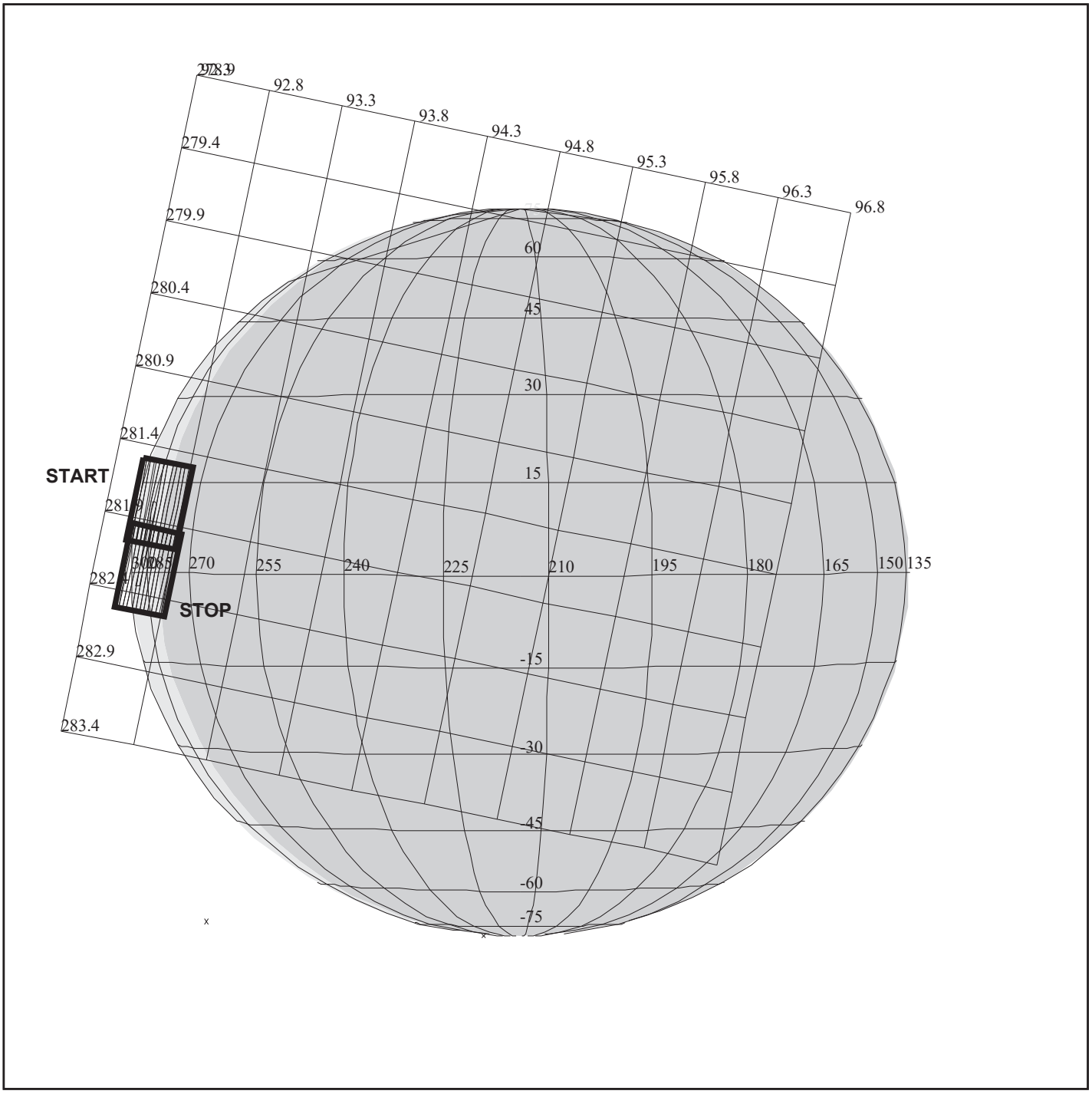
Continuous slew full disk mosaic at Callisto closest approach.
Cover all lit longitudes and latitudes.
Observation contains 1 swath/scan. UVS ridealong.

Instrument mode: LM
Instrument gain state: 4
Phase angle: 74.43
Wavelengths P/B: 204
Wavelength table: CLM204 (0.69 - 4.92 microns)
Record ETB (Edit table): CLM245

Spatial resolution: 742.5 km/nimsel
Spectral resolution: 48
Coverage in nimsels:

Long Map (LM), Gain 4, Grating Start 0, LPU, E4CLM245, E4CLM204

Galileo Activity Plan Form 11/15/96 10:45:24 rev 6/95



165FN:TT= 0 TMC= 1 C= -1.30 XC= 0.00 BS= 0/2470 TC= 1(12 290)
A= 728 pD= 0 SR=17.450 RA50= 95.69 DEC50= 25.34 cone= 92.44 clock=281.77
117FN:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/2470
1:#s= 2 Cs= 5.60 XCs= 0.00 Cr= -5.50 XCr= 8.00 sD= 156 rD= 32

E4JNFEA16001

TARGET G2.0 jdods:11/ 5/1996 16:32:16

FILE:P.E4JNFEA16001

CENTRAL BODY:JUPITER

MINI:m.target.e4.961105

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

PERIAPSIS: **THINNING:NIM 2**

START:JSP 96-355/16:50:09.933 -CDS 14:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750**

OBSERVATION:E4JNFEA16001 **DESCRIP:E4_FEA_160_PHASE_01**

Jupiter Camp. feat. 160 deg. phase Prt 1 ACTIVITY ID: E4JNFEA16001-
START TIME: 96-355/16:30:57.267

Activity ID: Orbit E4 Target J Inst N OAPEL FEA160 SeqNo 01 -

Title	Jupiter Camp. feat. 160 deg. phase Prt 1	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS Working Group AWG

Time System	CDS	Load ID	E4A	Calendar Date	12/20/96 Week 51
Start	JSP-CDS	00000019:00:0	96-355/16:30:57.267		JSP-000/00:19:12.666
End	JSP-CDS	00000011:81:0	96-355/16:38:08.600		JSP-000/00:12:01.333
Duration		00000007:10:0	000/00:07:11.333		000/00:07:11.333

Top Label E4JNFEA16001-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	121	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of 20 OAPELs constituting the feature tracks for this feature campaign. This is the first observation obtained on a rotation with phase angle approximately 160 degrees. Jupiter imaged in 4 colors, using NIMS downlink wavelength table JFT04A. This observation acquired with eastern (leading) edge of feature (a region of hot spots) near the bright limb, assuming feature coordinates 7 degrees North latitude and 310 degrees West longitude (System III).

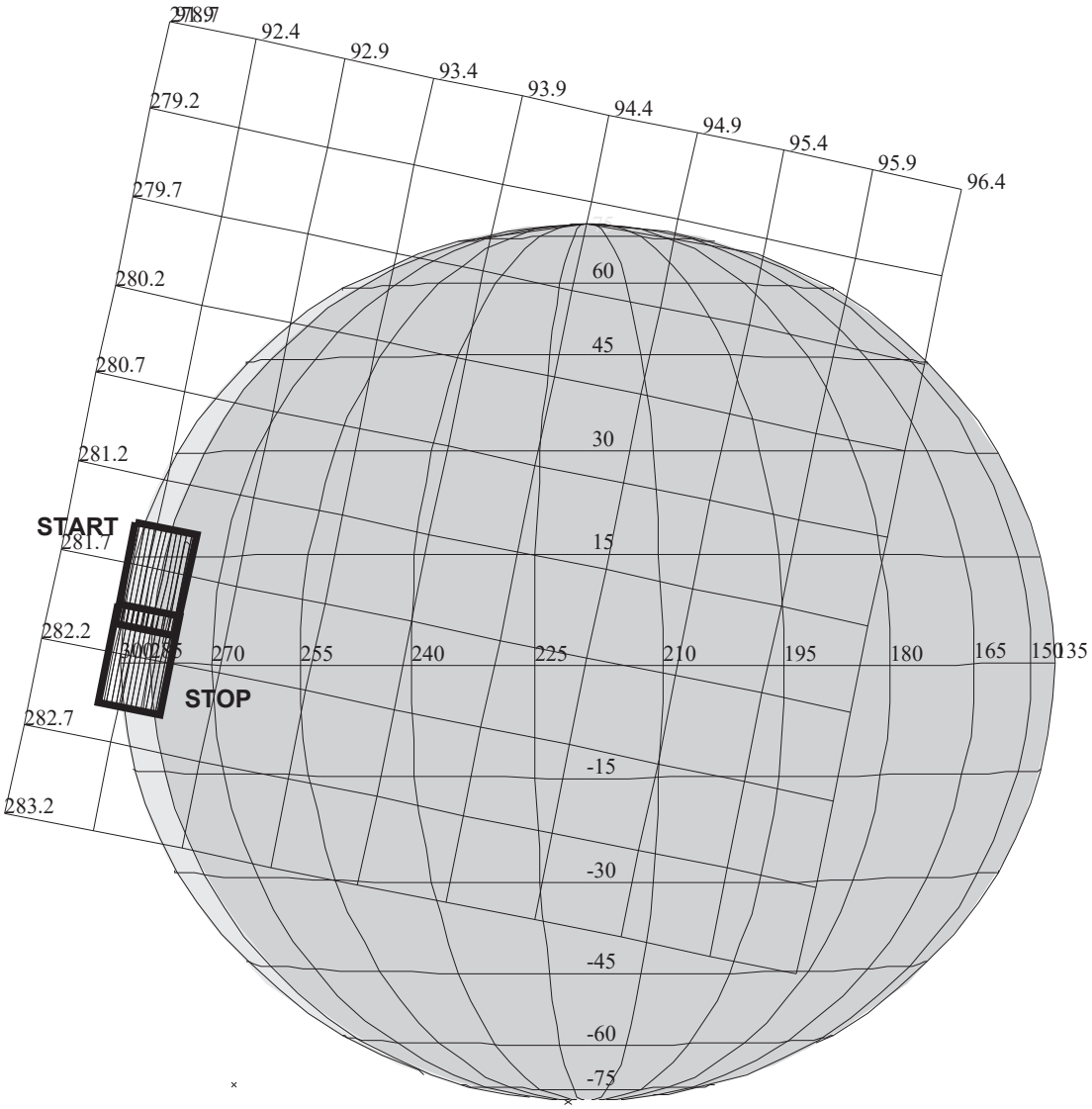
Data Returned

Design Detail

Shortmap, Nyquist-sampled observation of 1*1 (10*10 mrad) area centered on hot spot near 310 degrees west longitude, 7 degrees North latitude.
S/C distance about 1.58 million KM, NIMS IFOV (NIMSEL) = 790 KM;
1*1 mosaic covers 15800*15800 KM, about 2 minutes of scanning,
accumulating 0.0307 MBTG in 4 colors, and using 0.0040 tracks.
4 minutes reserved for targetting.
Spacecraft is turned off-Earthline for this observation.
Wavelength table: JFT04A, TLM: LPU
Note 10/18/96: Eastern edge of feature should be just rising over the bright limb (window for this set of OAPEL observations positioned as late as possible).

Short Map (SM), Gain 2, Grating Start 0, LPU, E4JFT68A, E4JFT04A

Galileo Activity Plan Form 11/15/96 10:45:24 rev 6/95



165FO:TT= 0 TMC= 1 C= -2.00 XC= 0.00 BS= 0/3926 TC= 1(12 290)
A= 364 pD= 0 SR=17.450 RA50= 95.82 DEC50= 25.34 cone= 92.32 clock=281.78
117FO:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/3926
1:#s= 2 Cs= 5.85 XCs= 0.00 Cr= -6.00 XCr= 8.00 sD= 162 rD= 32

E4JNFEA16002

TARGET G2.0 jdods:11/ 5/1996 16:32:16

FILE:P.E4JNFEA16002

CENTRAL BODY:JUPITER

MINI:m.target.e4.961105

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

PERIAPSIS: **THINNING:NIM 2**

START:JSP 96-355/16:50:09.933 -CDS 6:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.700**

OBSERVATION:E4JNFEA16002 **DESCRIP:E4_FEA_160_PHASE_02**

Jupiter Camp. feat. 160 deg. phase Prt 2 ACTIVITY ID: E4JNFEA16002-
START TIME: 96-355/16:41:03.933

Activity ID: Orbit E4 Target J Inst N OAPEL FEA160 SeqNo 02 -

Title	Jupiter Camp. feat. 160 deg. phase Prt 2	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS Working Group AWG

Time System	CDS	Load ID	E4A	Calendar Date	12/20/96 Week 51
Start	JSP-CDS	00000009:00:0	96-355/16:41:03.933		JSP-000/00:09:06.000
End	JSP-CDS	00000004:00:0	96-355/16:46:07.267		JSP-000/00:04:02.666
Duration		00000005:00:0	000/00:05:03.334		000/00:05:03.334

Top Label E4JNFEA16002-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	121	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of 20 OAPELs constituting the feature tracks for this feature campaign. This is the second observation obtained on a rotation with phase angle approximately 160 degrees. Jupiter imaged in 4 colors, using NIMS downlink wavelength table JFT04A. This observation acquired with eastern edge of feature (a region of hot spots) near minimum airmass, assuming feature coordinates 7 degrees North latitude and 310 degrees West longitude (System III).

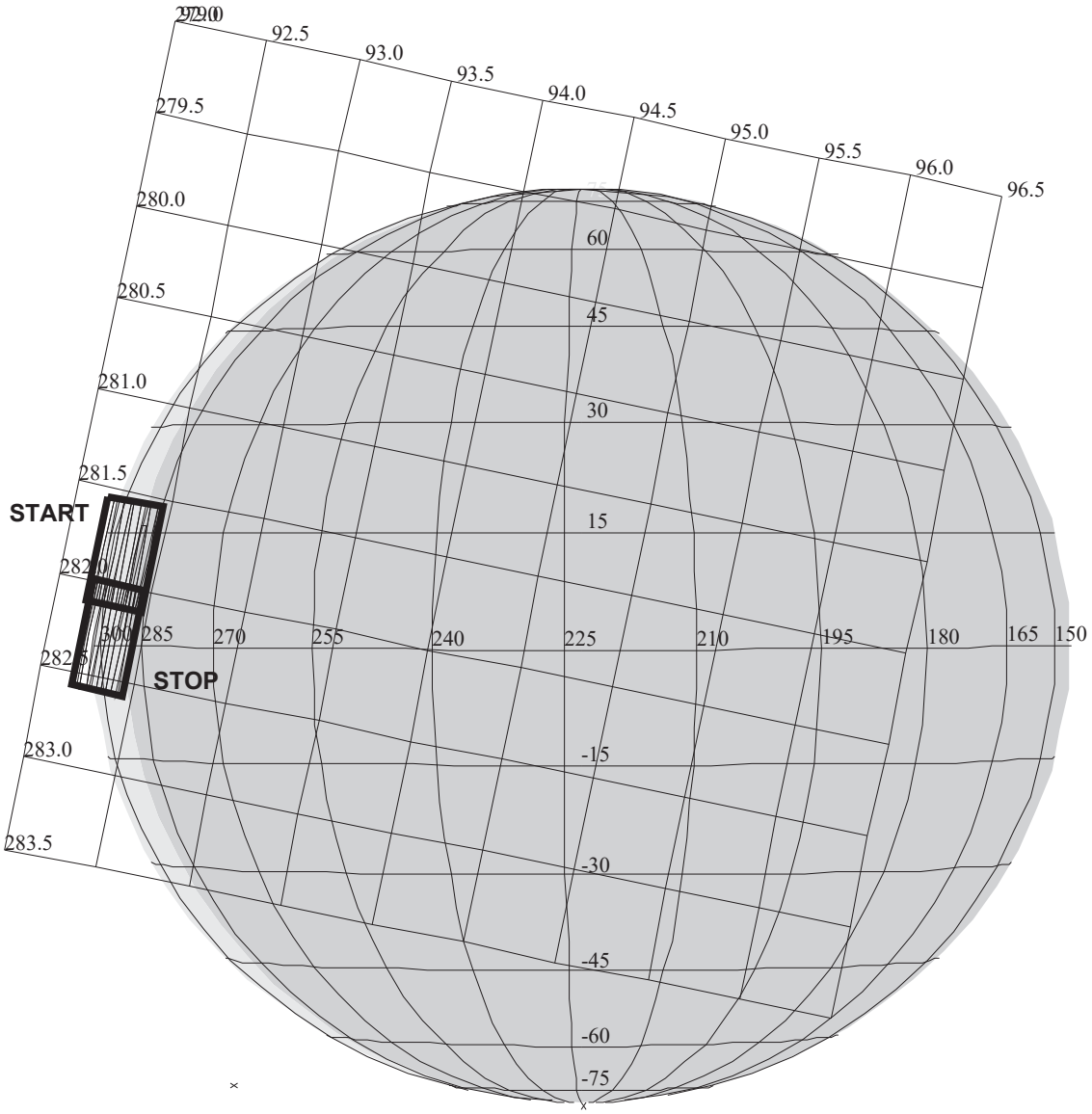
Data Returned

Design Detail

Shortmap, Nyquist-sampled observation of 1*1 (10*10 mrad) area centered on hot spot near 310 degrees West longitude, 7 degrees North latitude.
S/C distance about 1.58 million KM, NIMS IFOV (NIMSEL) = 790 KM;
1*1 mosaic covers 15800*15800 KM, about 2 minutes of scanning,
accumulating 0.0307 MBTG in 4 colors, and using 0.0040 tracks.
2 minutes reserved for targetting.
Spacecraft is turned off-Earthline for this observation.
Wavelength table: JFT04A, TLM: LPU
Note 10/18/96: Eastern edge of feature should be just rising over the bright limb (window for this set of OAPEL observations positioned as late as possible).

Short Map (SM), Gain 2, Grating Start 0, LPU, E4JFT68A, E4JFT04A

Galileo Activity Plan Form 11/15/96 10:45:24 rev 6/95



165FP:TT= 0 TMC= 1 C= -3.20 XC= 0.00 BS= 0/5200 TC= 1(12 290)
A= 364 pD= 0 SR=17.450 RA50= 95.95 DEC50= 25.35 cone= 92.20 clock=281.80
117FP:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/5200
1:#s= 2 Cs= 4.75 XCs= 0.00 Cr= -4.75 XCr= 8.00 sD= 132 rD= 32

E4JNFEA16003

TARGET G2.0 jdods:11/ 5/1996 16:32:16

FILE:P.E4JNFEA16003

CENTRAL BODY:JUPITER

MINI:m.target.e4.961105

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

PERIAPSIS: **THINNING:NIM 2**

START:JSP 96-355/16:50:09.933 +CDS 01:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750**

OBSERVATION:E4JNFEA16003 **DESCRIP:E4_FEA_160_PHASE_03**

Jupiter Camp. feat. 160 deg. phase Prt 3 ACTIVITY ID: E4JNFEA16003-
START TIME: 96-355/16:48:08.600

Activity ID: Orbit E4 Target J Inst N OAPEL FEA160 SeqNo 03 -

Title	Jupiter Camp. feat. 160 deg. phase Prt 3	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS Working Group AWG

Time System CDS Load ID E4A Calendar Date 12/20/96 Week 51

Start	JSP-CDS 00000002:00:0	96-355/16:48:08.600	JSP-000/00:02:01.333
End	JSP+CDS 00000002:83:0	96-355/16:53:06.599	JSP+000/00:02:56.666
Duration	00000004:83:0	000/00:04:57.999	000/00:04:57.999

Top Label E4JNFEA16003-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	121	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of 20 OAPELs constituting the feature tracks for this feature campaign. This is the third observation obtained on a rotation with phase angle approximately 160 degrees. Jupiter imaged in 4 colors, using NIMS downlink wavelength table JFT04A. This observation acquired with eastern edge of feature (a region of hot spots) near the evening terminator, assuming feature coordinates 7 degrees North latitude and 310 degrees West longitude (System III).

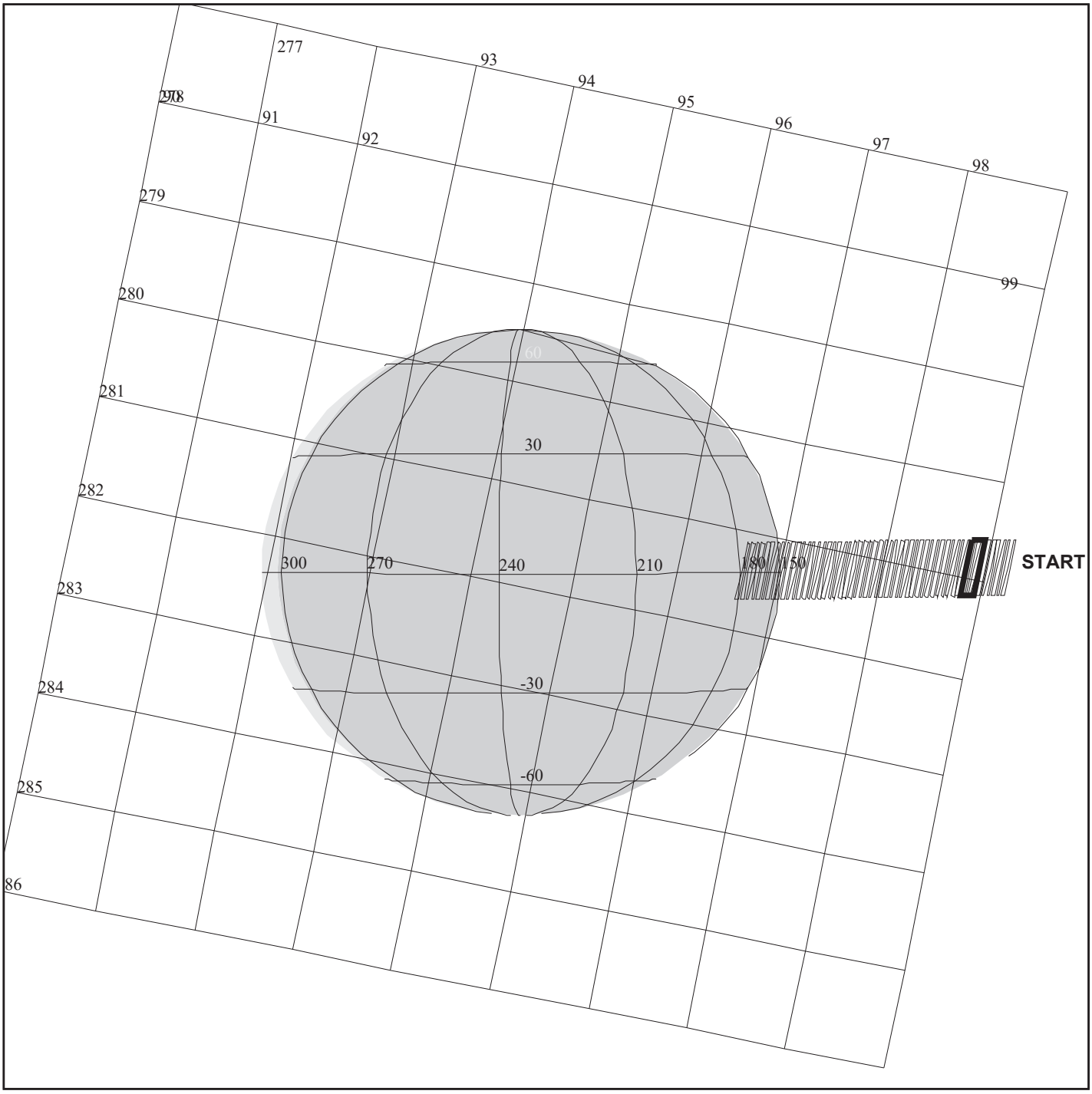
Data Returned

Design Detail

Shortmap, Nyquist-sampled observation of 1*1 (10*10 mrad) area centered on hot spot near 310 degrees west longitude, 7 degrees North latitude.
S/C distance about 1.58 million KM, NIMS IFOV (NIMSEL) = 790 KM;
1*1 mosaic covers 15800*15800 KM, about 2 minutes of scanning, accumulating 0.0307 MBTG in 4 colors, and using 0.0040 tracks.
2 minutes reserved for targetting.
This is the last off-Earthline observation accomplished during this Science Turn (A 2.5 hour pad is needed at the end of this nominal observation time to allow for flexibility in feature selection).
Wavelength table: JFT04A, TLM: LPU
Note 10/18/96: Eastern edge of feature should be just rising over the (window for this set of OAPEL observations positioned as late as possible).

Short Map (SM), Gain 2, Grating Start 0, LPU, E4JFT68A, E4JFT04A

Galileo Activity Plan Form 11/15/96 10:45:25 rev 6/95



165FM:TT= 0 TMC= 1 C= 83.00 XC= -18.00 BS= 0/9022 TC= 9
A= 728 pD= 0 SR=17.450 RA50= 88.11 DEC50= 25.09 cone= 99.23 clock=280.82
117FM:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/9022
1:#s= 1 Cs= -54.80 XCs= 12.00 Cr= 0.00 XCr= 0.00 sD= 5498 rD= 2

E4RNMRING_01

TARGET G2.0 jdods:11/ 5/1996 16:32:16

FILE:P.E4RNMRING_01

CENTRAL BODY:JUPITER

MINI:m.target.e4.961105

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

PERIAPSIS: **THINNING:NIM 8**

START:JSP 96-355/16:50:09.933 +CDS 22:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.500**

OBSERVATION:E4RNMRING_01 **DESCRIP:MAIN RING OBSERVATION**

Main Ring Observation

ACTIVITY ID: E4RNMRING 01-
START TIME: 96-355/17:07:21.266

Activity ID: Orbit E4 Target R Inst N OAPEL MRING SeqNo 01 -

Title	Main Ring Observation			Instrument	NIMS
Requestor	NIMS-SWG/J. HUI	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	E4A	Calendar Date	12/20/96 Week 51
Start	JSP+CDS	00000017:00:0	96-355/17:07:21.266		JSP+000/00:17:11.333
End	JSP+CDS	00000052:40:0	96-355/17:43:11.266		JSP+000/00:53:01.333
Duration		00000035:40:0	000/00:35:50.000		000/00:35:50.000

Top Label E4RNMRING 01-
Bottom Label

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

Observation Objective

To study the composition and particle sizes of the main ring band.
Resolution: 775 Km,
Phase angle: 150 degrees,
Number of Wavelengths: 102,
Tilt ~ 0.5 degrees.

Data Returned

Design Detail

Target to center of Jupiter and offset to ring plane edge (1.85 RJ)
slew to the edge of Jupiter. Slew rate at 0.03 mrad/sec.
Instrument mode: Full Map.
Number of Wavelengths: 102.
Gain state: 4
Chopper: Reference.
Record: LPU.
Observation start time should be the start of the umbra time.
Wavelength table: RFM102.

(B) Only 1 Rim of 30 Rims recorded returned.
(A) An additional Rim of 1 wavelength from detector 8 returned
to monitor detector 8 failure.

Full Map (FM), Gain 4, Grating Start 0, LPU, E4RFM126, E4RFM001
Full Map (FM), Gain 4, Grating Start 0, LPU, E4RFM126, E4RFM96

Galileo Activity Plan Form 11/15/96 10:45:25 rev 6/95

NIMS SAFE AND CHOPOF

ACTIVITY ID: E4NNCHOPOF01
START TIME: 96-355/17:46:47.333

Activity ID: Orbit E4 Target N Inst N OAPEL CHOPOF SeqNo 01

Title	NIMS SAFE AND CHOPOF			Instrument	NIMS
Requestor	NIMS-SWG/J. HUI	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	E4A	Calendar Date	12/20/96 Week 51

Start	EEE+CDS 00002069:00:0	96-355/17:46:47.333	EEE+001/10:51:59.333
End	EEE+CDS 00002079:00:0	96-355/17:56:54.000	EEE+001/11:02:06.000
Duration	00000010:00:0	000/00:10:06.667	000/00:10:06.667

Top Label	E4NNCHOPOF01				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	52	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

To preserve the NIMS chopper life.

Design Detail

Use a NIMSTAB PA to reset wavelength table with parameters
04,C4,02,00,00 and to issue a 37IOP,0,0 to put NIMS in safe.
Then:
Use two NIMS 37IST commands to turn chopper off:
37IST,0,1,0,0,OFF,0,0,0 (Change Chopper Ref to 63Hz)
37IST,0,1,1,0,OFF,0,0,0 (Change Chopper 63Hz to OFF)
Also use a NIMS 37MB command to reset the mirror positions:
37MB,0,0,0,0,0,0 (00000,00000)

Galileo Activity Plan Form 11/15/96 10:45:25 rev 6/95

NIMS PCT Real Time Calibration — ACTIVITY ID: E4NNPCTRLT01-
START TIME: 96-360/18:59:42.333

Activity ID: Orbit E4 Target N Inst N OAPEL PCTRLT SeqNo 01 -

Title	NIMS PCT Real Time Calibration			Instrument	NIMS
Requestor	NIMS-SWG/J. HUI		Team NIMS	Working Group	SWG

Time System	CDS	Load ID	E4B	Calendar Date	12/25/96 Week 52
Start	PCT+CDS	00000000:00:0	96-360/18:59:42.333		PCT+000/00:00:00.000
End	PCT+CDS	00003313:00:0	96-363/02:49:30.999		PCT+002/07:49:48.666
Duration		00003313:00:0	002/07:49:48.666		002/07:49:48.666

Top Label	E4NNPCTRLT01-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	275	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	No

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 returned via RealTime.
This calibration will take place during the cruise of the E4 Encounter
when the sun-angle is about 2 degrees.

Data Returned

Design Detail

1) Turn off Shield Heaters 48 hours before the calibration.
2) Turn off PCT heaters 6 hours before calibration.
3) Scan Platform is at Safe/Unstow (cone=153.00, clock=0.00)
4) Chopper on, Gain State 4,
5) Set NIMS to Long Map Mode, ETB=PCT252,
   Mirror Blocking (1B,1B) (11011,11011)
6) Select 1 Rim of Dark in Real Time (Return 1 LM grating cycle)
7) Slew to PCT (cone = 54.88, clock = 244.07)
8) Select 10 Rims of PCT in Real Time (Return 10 LM grating cycles)
9) Slew to Safe (cone = 153.00, clock = 0.00)
10) NIMS to Safe Mode, Reset Mirror Blocking (00,00) (00000,00000)
11) Chopper Off

Long Map (LM), Gain 4, Grating Start 0, RT, E4PCT252

Galileo Activity Plan Form 11/15/96 10:45:25 rev 6/95

E4 Memory check

ACTIVITY ID: E4NNMEMCHK01-
START TIME: 97-018/23:48:40.000

Activity ID: Orbit E4 Target N Inst N OAPEL MEMCHK SeqNo 01 -

Title	E4 Memory check			Instrument	NIMS
Requestor	NIMS-SWG/J. HUI	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	E4B	Calendar Date	01/18/97 Week 3

Start	EEE+CDS 00043728:00:0	97-018/23:48:40.000	EEE+030/16:53:52.000
End	EEE+CDS 00046644:84:0	97-021/00:58:00.000	EEE+032/18:03:12.000
Duration	00002916:84:0	002/01:09:20.000	002/01:09:20.000

Top Label E4NNMEMCHK02-
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

Record checksum results of different segments of NIMS memory over a 2 day period. Analysis of the results will be part of an ongoing investigation into NIMS software anomaly.
This takes place about +/- 1 day around J5 perijove while the spacecraft is inside of Ganymede's orbit where the NIMS halts occur.

J5 perijove takes place during Solar Conjunction. That is why the CheckSums must be saved until after Solar Conjunction.

Design Detail

1) Reload NIMS software without restarting.
   37PL, 37MRL and 6MCOPYs only.
2) CheckSum portions of NIMS RAM, then
   6MCOPY the result to NIMS RAM addresses greater than 1800
3) Occupy NIMS RAM addresses 1800 - 18F9

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E4 Memory check

ACTIVITY ID: E4NNMEMCHK02-
START TIME: 97-039/21:20:20.666

Activity ID: Orbit E4 Target N Inst N OAPEL MEMCHK SeqNo 02 -

Title	E4 Memory check			Instrument	NIMS
Requestor	NIMS-SWG/J. HUI	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	E4C	Calendar Date	02/08/97 Week 6
Start	EEE+CDS 00073489:00:0	97-039/21:20:20.666		EEE+051/14:25:32.666	
End	EEE+CDS 00073603:35:0	97-039/23:16:00.000		EEE+051/16:21:12.000	
Duration	00000114:35:0	000/01:55:39.334		000/01:55:39.334	

Top Label E4NNMEMCHK02-
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

NIMS memory data readout as part of the instrument software anomaly investigation. Results will show current memory status and checksums acquired during the period of 1 day on either side of Jupiter close approach.

This OAPEL deals with the MRO of the CheckSums saved to NIMS RAM space during J5 MEMCHK01. This takes place after solar conjuction after J5 apojove.

Design Detail

1) Use many 6MROHs to read back NIMS RAM from memory locations 1000 - 18F9.

Ground Station problems caused the loss of almost all of the NIMS MROs. Only locations 1280 - 12FF were received. A planned NIMS reload 8 hours after the start of the MROs caused the NIMS RAM space to be over-written so that later MROs could not return the lost CheckSum values. A total bust.

Reload NIMS memory

ACTIVITY ID: E4NNRELOAD11-
START TIME: 97-040/07:27:00.666

Activity ID: Orbit E4 Target N Inst N OAPEL RELOAD SeqNo 11 -

Title	Reload NIMS memory			Instrument	NIMS
Requestor	NIMS-SWG/J. HUI	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	Calendar Date	02/09/97	Week 6
Start	EEE+CDS	00074089:00:0	97-040/07:27:00.666	EEE+052/00:32:12.666	
End	EEE+CDS	00074097:81:0	97-040/07:36:00.000	EEE+052/00:41:12.000	
Duration		00000008:81:0	000/00:08:59.334	000/00:08:59.334	

Top Label	E4NNRELOAD11-				
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

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 11/15/96 10:45:25 rev 6/95

NIMS INSTRUMENT PREP FOR E6 ACTIVITY ID: E4NNE6PREP01-
START TIME: 97-045/23:00:23.333

Activity ID: Orbit E4 Target N Inst N OAPEL E6PREP SeqNo 01 -

Title	NIMS INSTRUMENT PREP FOR E6	Instrument	NIMS
Requestor	NIMS-SWG/J. HUI	Team NIMS	Working Group SWG

Time System	CDS	Load ID	E4C	Calendar Date	02/14/97 Week 7
Start	EEE+CDS	00082133:00:0	97-045/23:00:23.333		EEE+057/16:05:35.333
End	EEE+CDS	00082163:00:0	97-045/23:30:43.333		EEE+057/16:35:55.333
Duration		00000030:00:0	000/00:30:20.000		000/00:30:20.000

Top Label	E4NNE6PREP01-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	50	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

NIMS heater configuration in preparation for data taking in the E6 orbit.

Design Detail

Optical Calibration

ACTIVITY ID: J5NNOPCAL 01-
START TIME: 97-047/18:19:55.666

Activity ID: Orbit J5 Target N Inst N OAPEL OPCAL SeqNo 01 -

Title	Optical Calibration			Instrument	NIMS
Requestor	NIMS-SWG/J. HUI	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	E4C	Calendar Date	02/16/97 Week 7
Start	TBD+CDS 00039513:00:0	97-047/18:19:55.666		TBD+027/17:52:02.000	
End	TBD+CDS 00039530:00:0	97-047/18:37:06.999		TBD+027/18:09:13.333	
Duration	00000017:00:0	000/00:17:11.333		000/00:17:11.333	

Top Label	J5NNOPCAL 01-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	217	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.

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.
Select NIMS in Real Time for 3 RIMs.
Three Long Map grating cycles returned.
OPCAL lamp is turned on at RIMS 1 and 3.
RIM 2 is Dark.

Long Map (LM), Gain 4, Grating Start 0, RT, E4OPCAL48

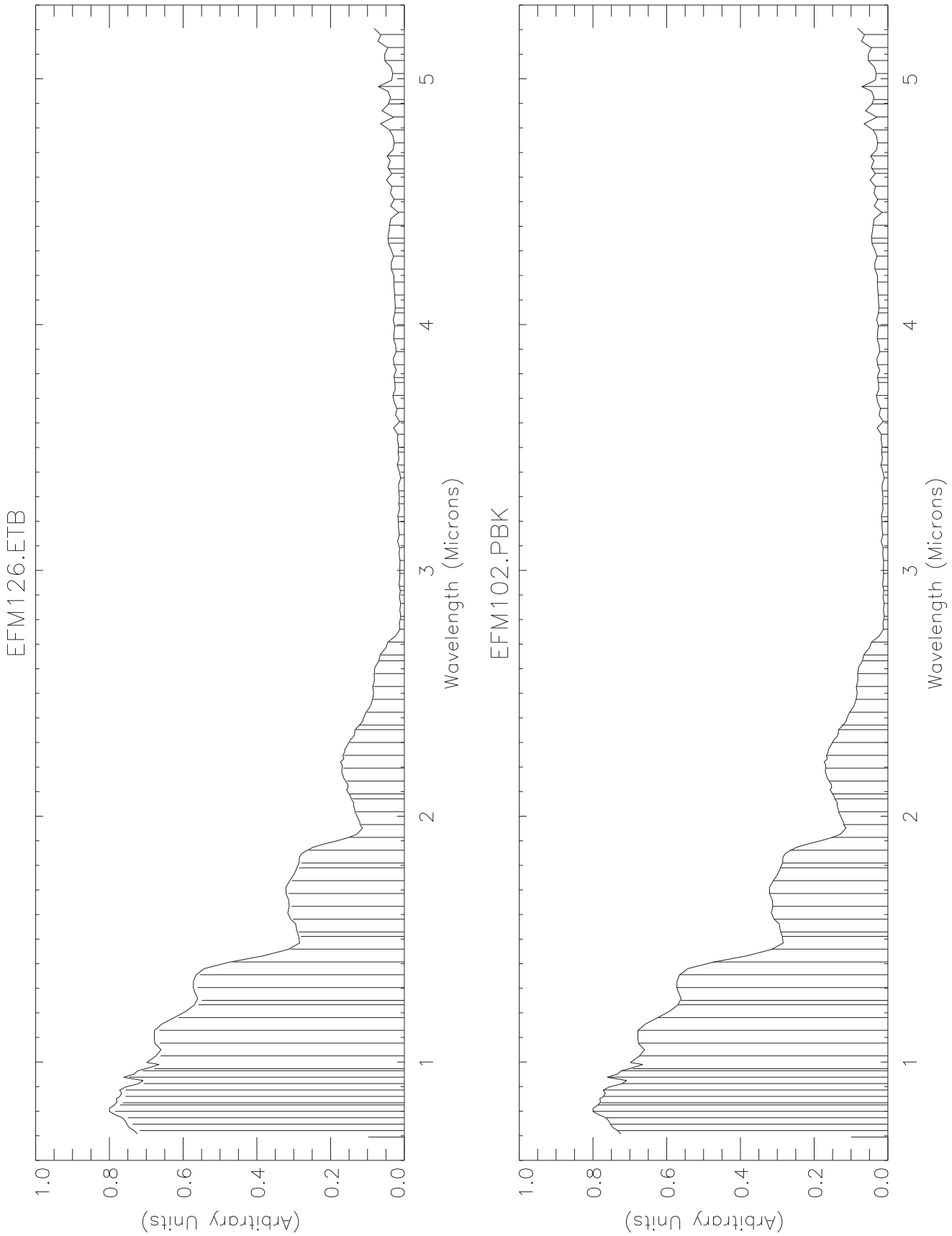
Chapter 6 - Edit Tables

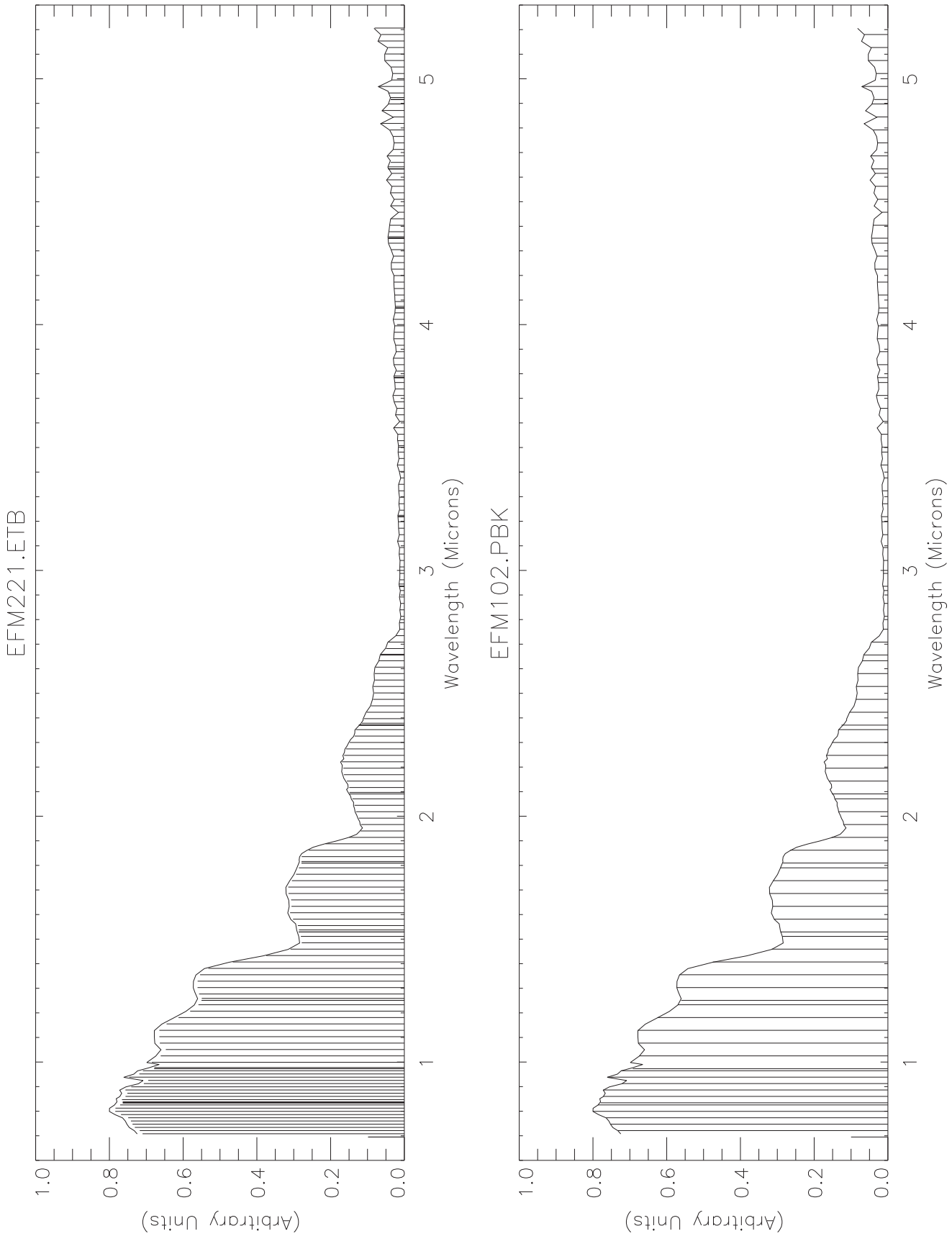
Contents

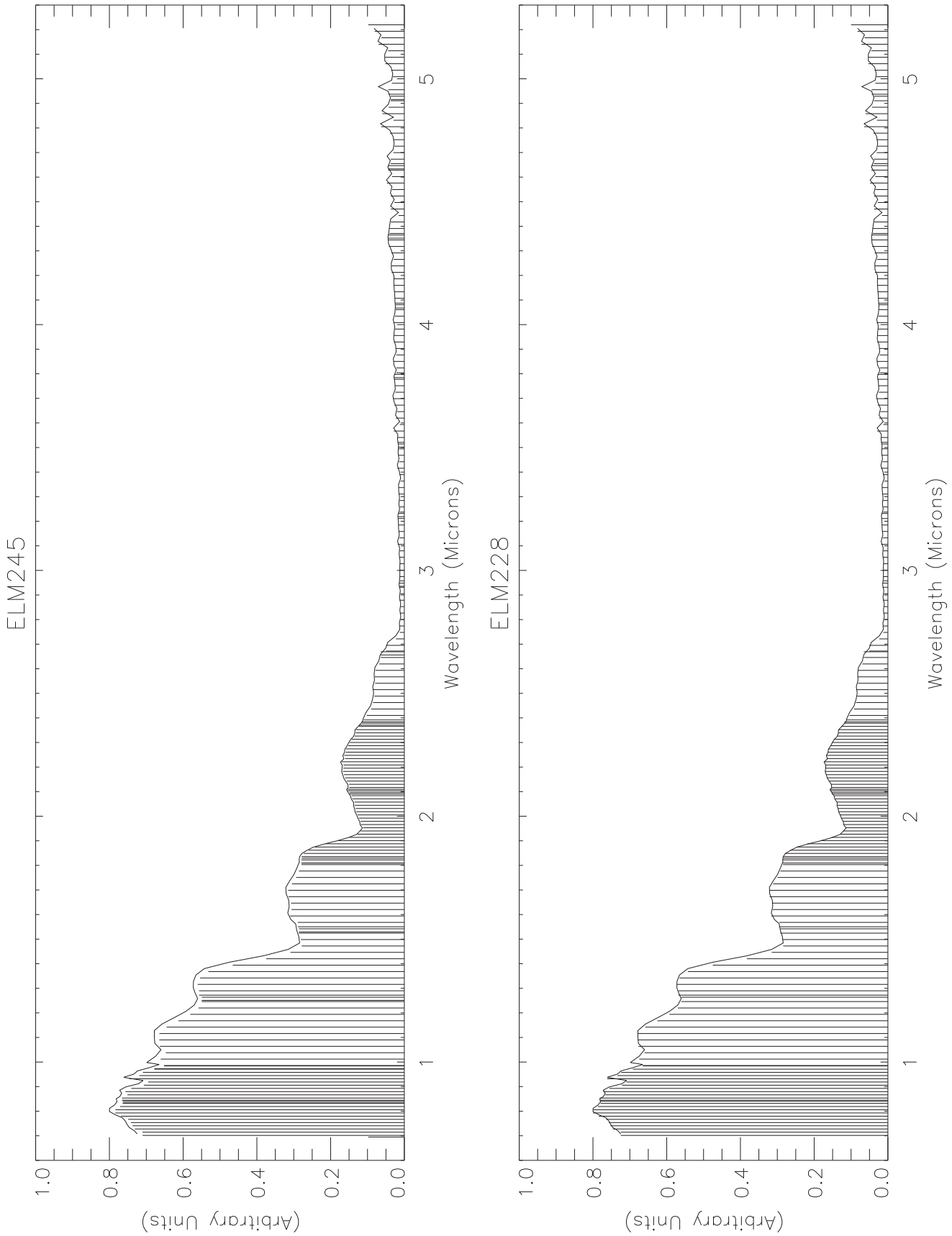
Introduction to Chapter 6

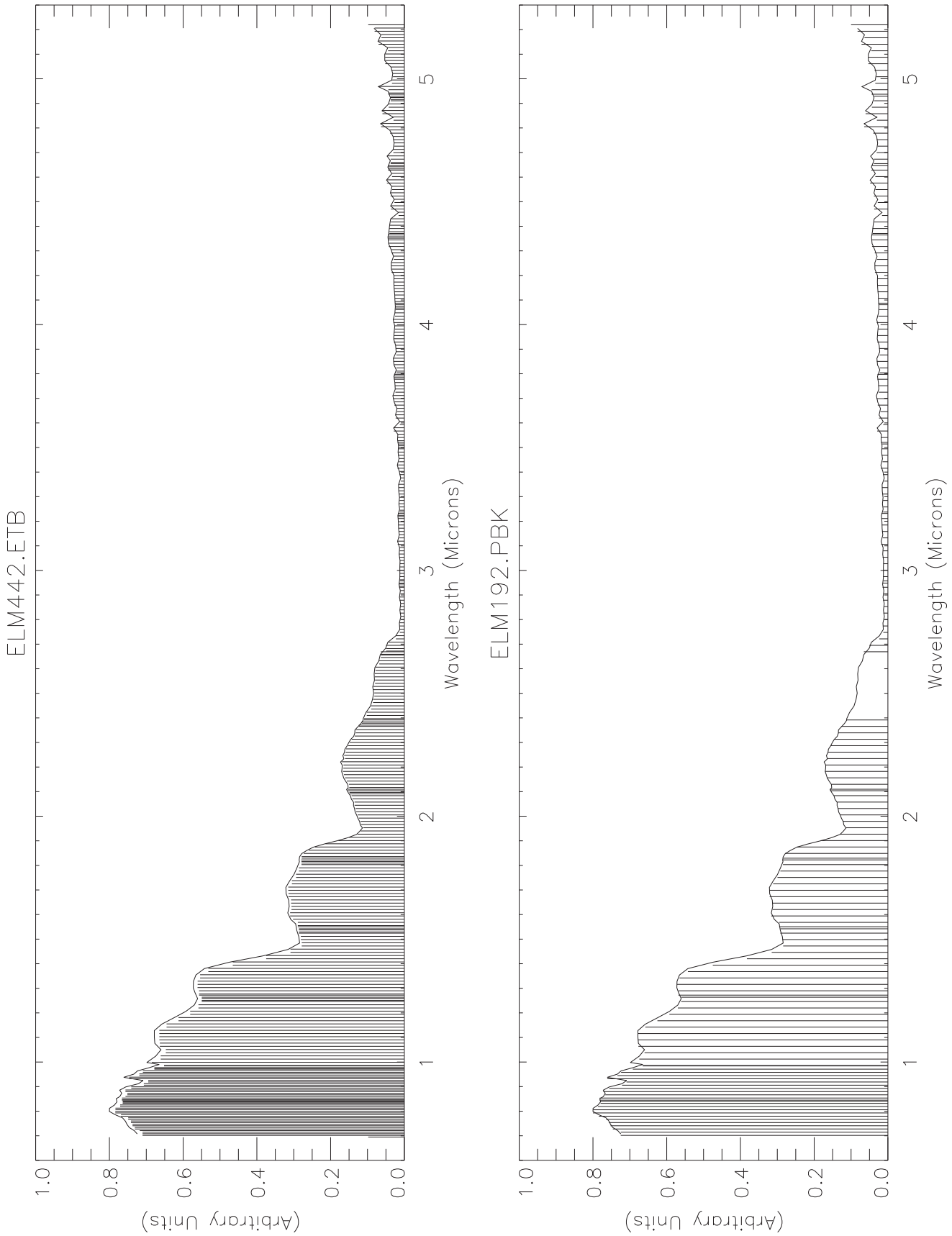
NIMS Edit Table Plots

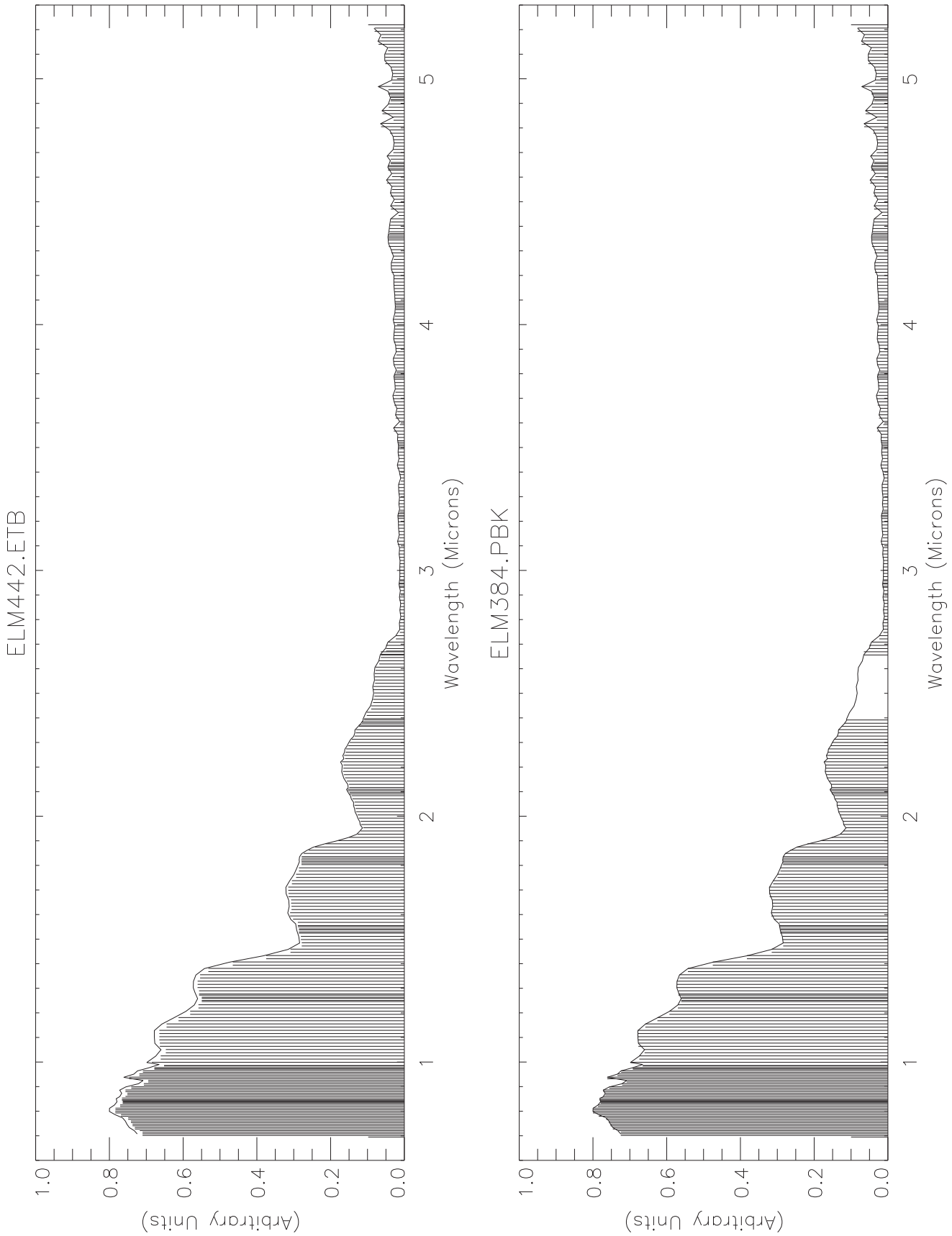
This chapter contains plots of the NIMS Edit Tables used in E4. The representative spectra used in these plots are observational reference spectra for the target body as obtained from telescopic observations from the Earth. Each reference spectrum is a composite of multiple published sources. Vertical 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.

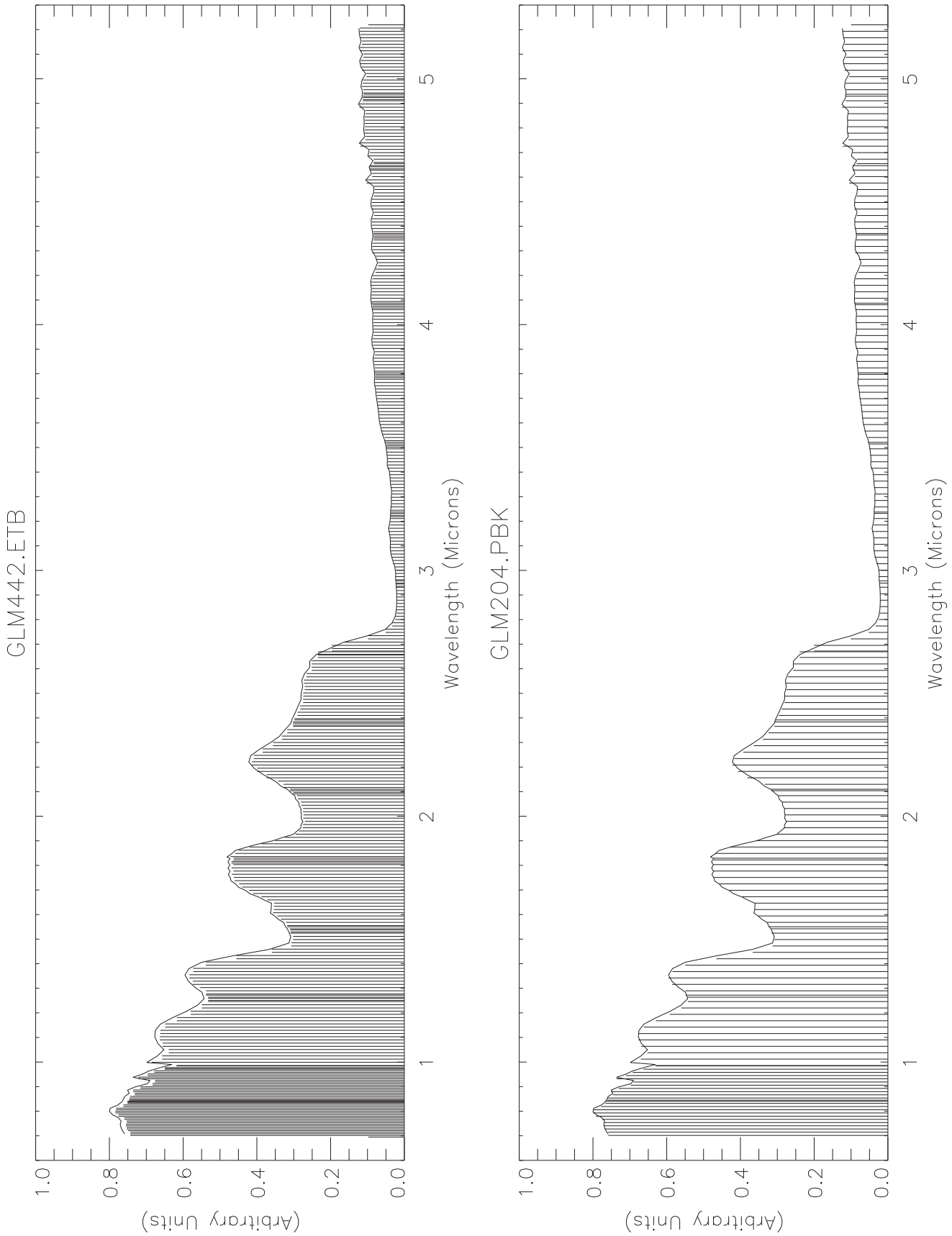

EFM126.ETB
(Arbitrary Units)
1.0
0.8
0.6
0.4
0.2
0.0
1
2
3
4
5
Wavelength (Microns)
EFM102.PBK
(Arbitrary Units)
1.0
0.8
0.6
0.4
0.2
0.0
1
2
3
4
5
Wavelength (Microns)


EFM221.ETB
EFM102.PBK
(Arbitrary Units)
Wavelength (Microns)
0.0
0.2
0.4
0.6
0.8
1.0
1
2
3
4
5


ELM245
(Arbitrary Units)
1.0
0.8
0.6
0.4
0.2
0.0
1
2
3
4
5
Wavelength (Microns)
ELM228
(Arbitrary Units)
1.0
0.8
0.6
0.4
0.2
0.0
1
2
3
4
5
Wavelength (Microns)


ELM442.ETB
(Arbitrary Units)
1.0
0.8
0.6
0.4
0.2
0.0
1
2
3
4
5
Wavelength (Microns)
ELM192.PBK
(Arbitrary Units)
1.0
0.8
0.6
0.4
0.2
0.0
1
2
3
4
5
Wavelength (Microns)


ELM442.ETB
ELM384.PBK
(Arbitrary Units)
Wavelength (Microns)
0.0
0.2
0.4
0.6
0.8
1.0
1
2
3
4
5


GLM442.ETB
(Arbitrary Units)
1.0
0.8
0.6
0.4
0.2
0.0
1
2
3
4
5
Wavelength (Microns)
GLM204.PBK
(Arbitrary Units)
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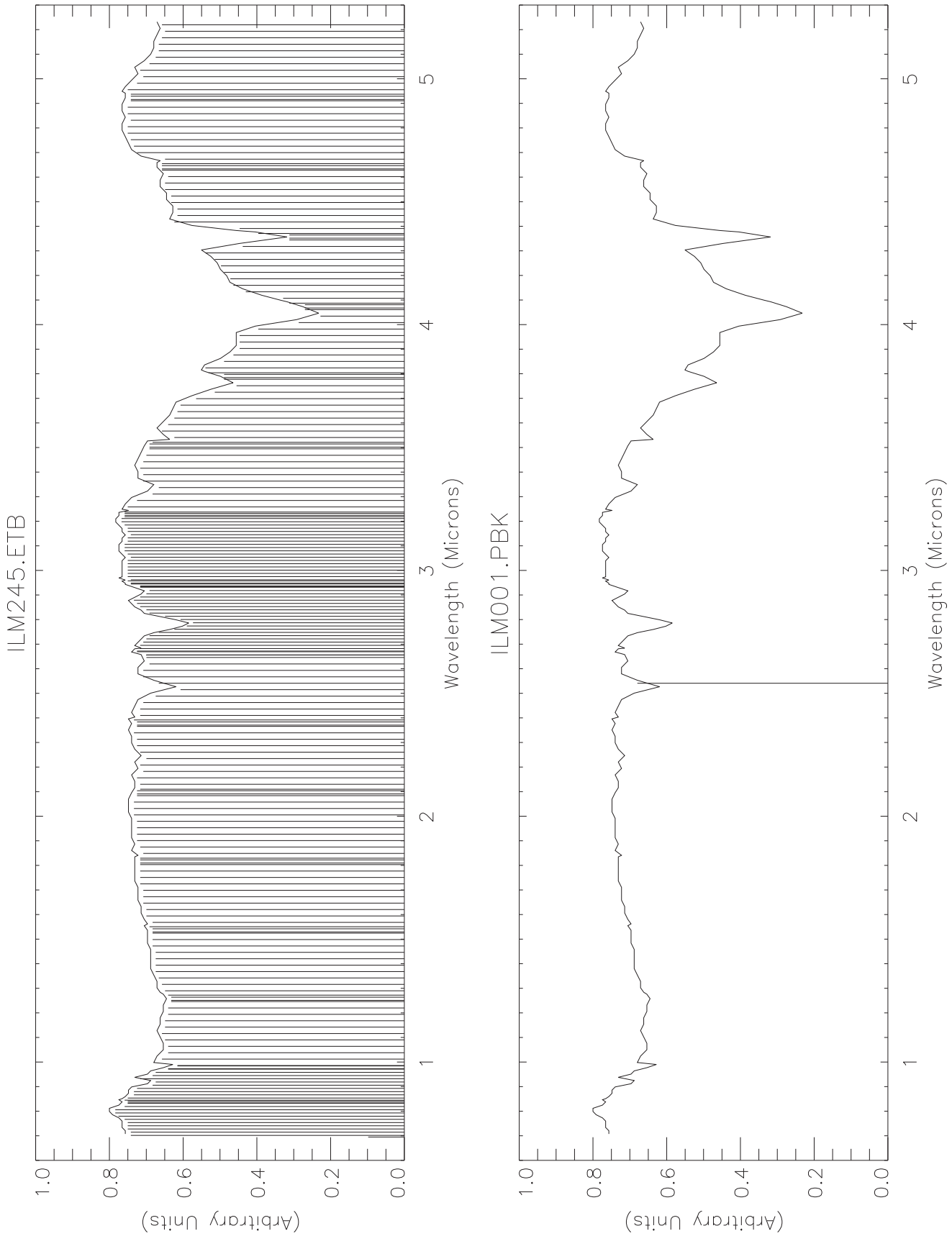
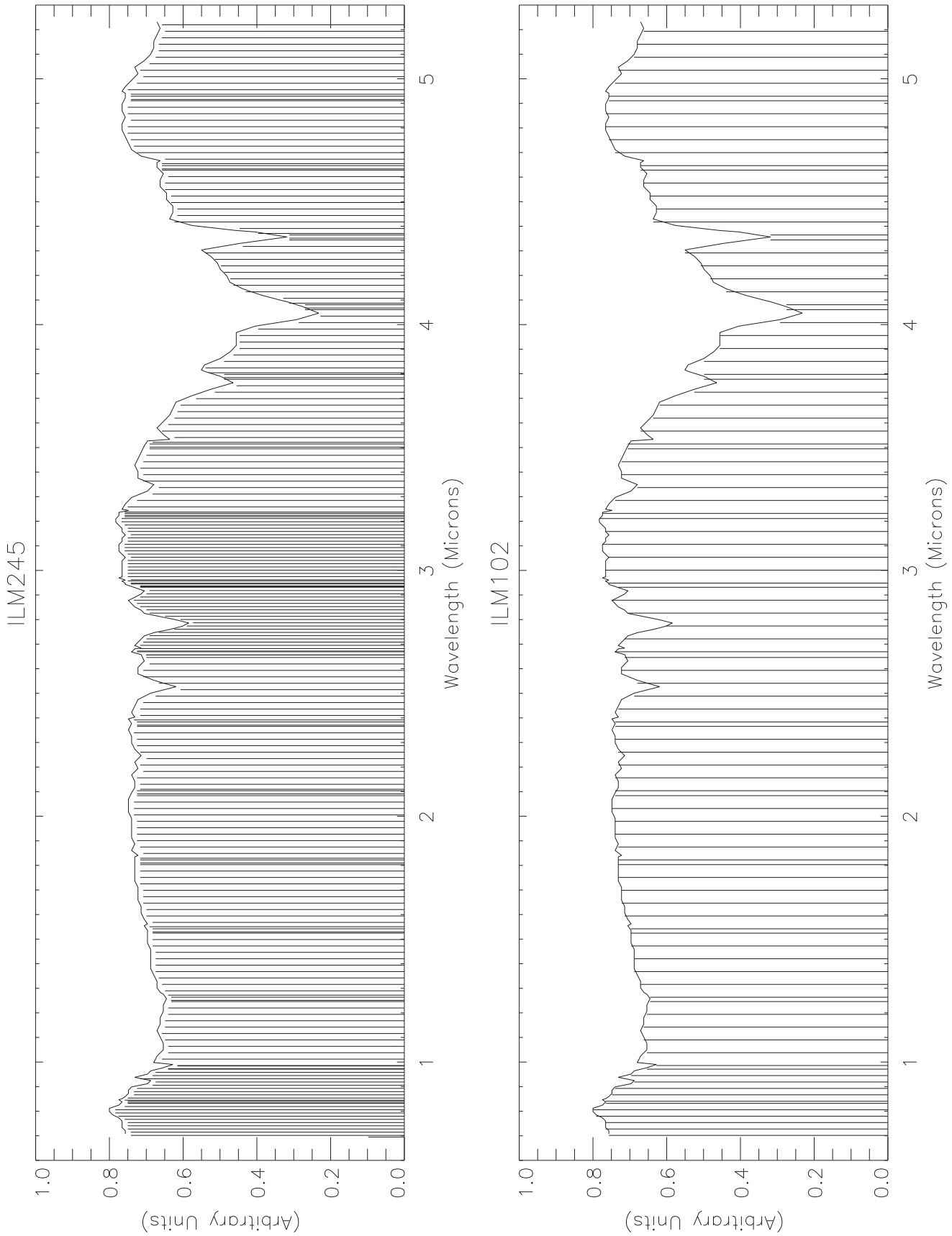
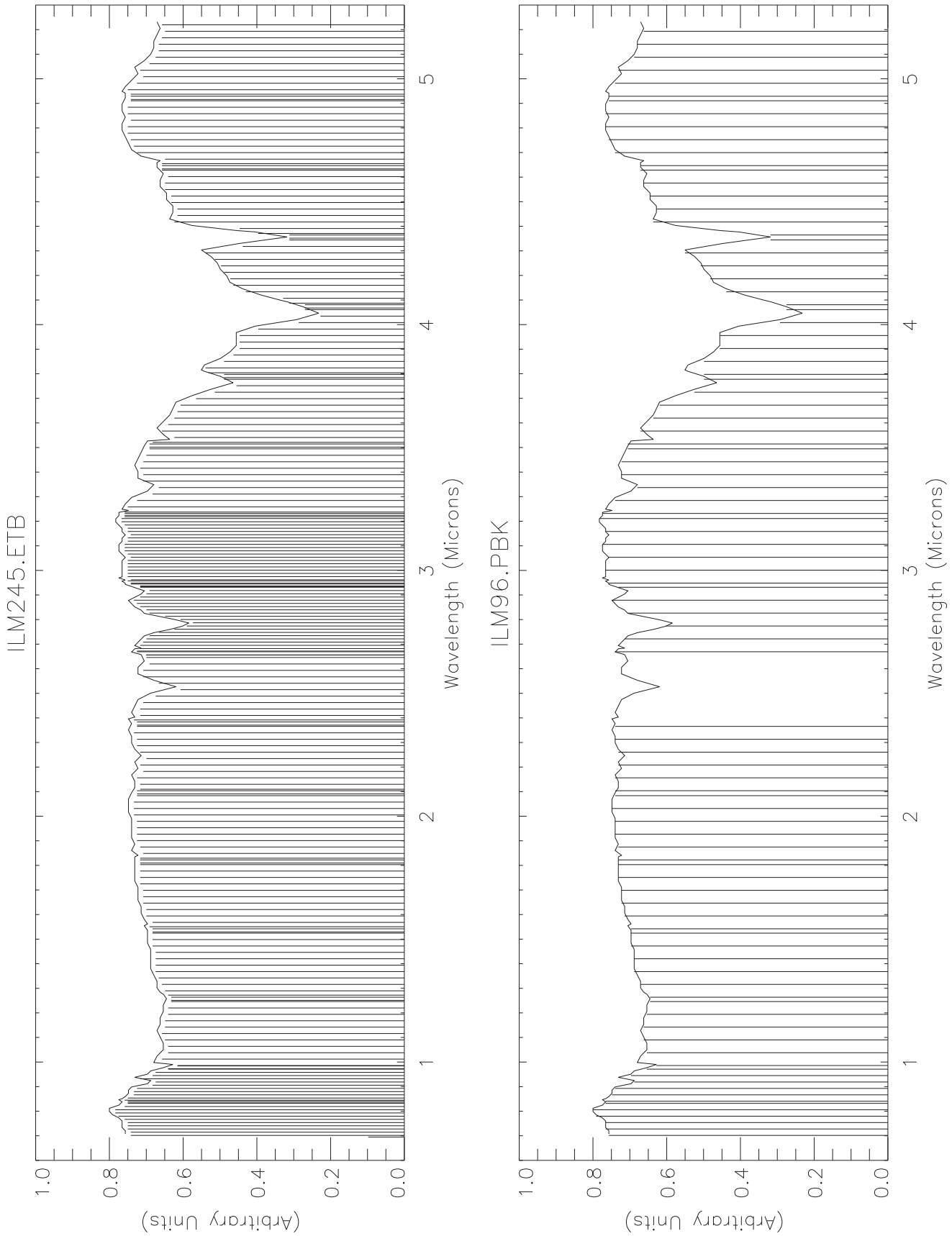
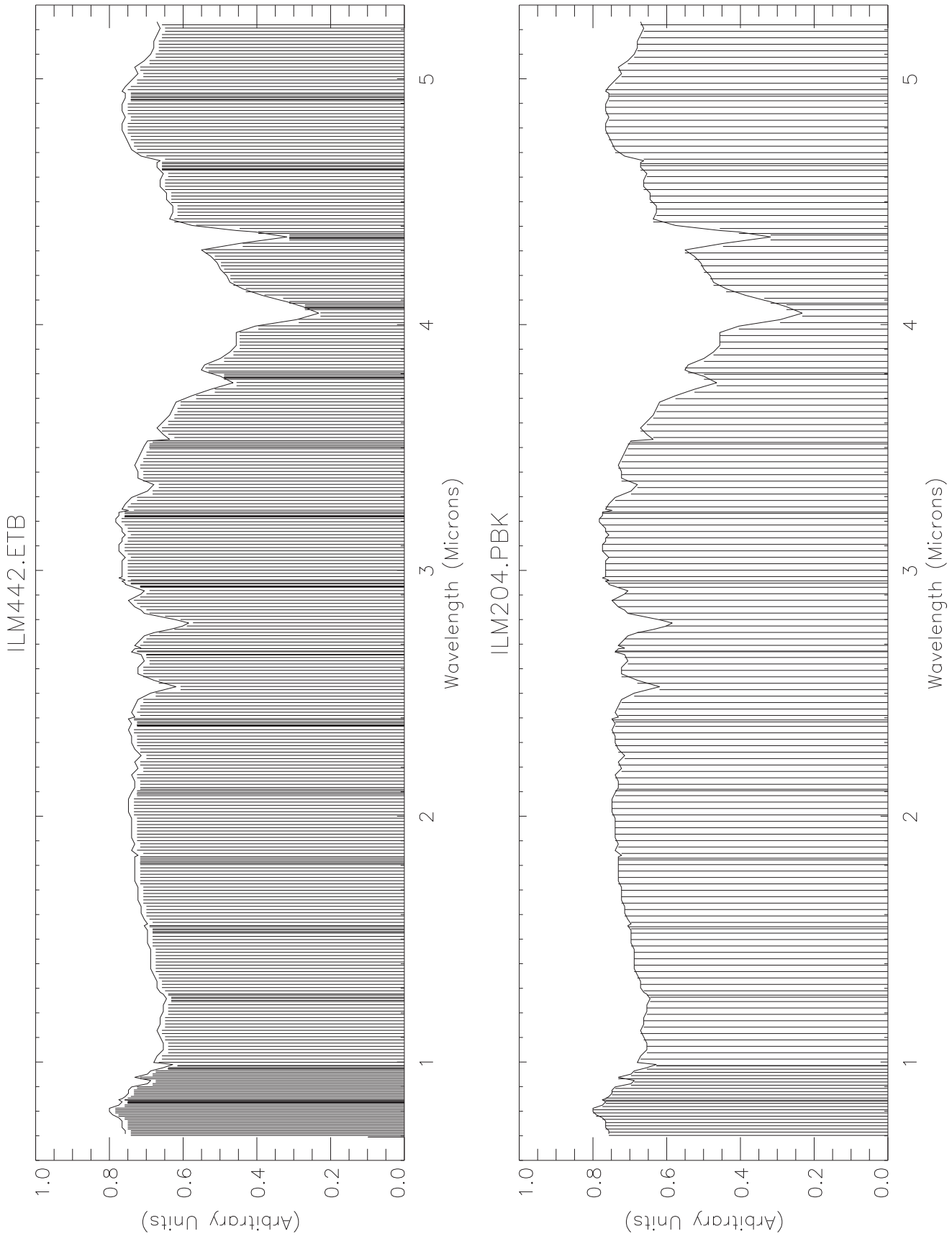
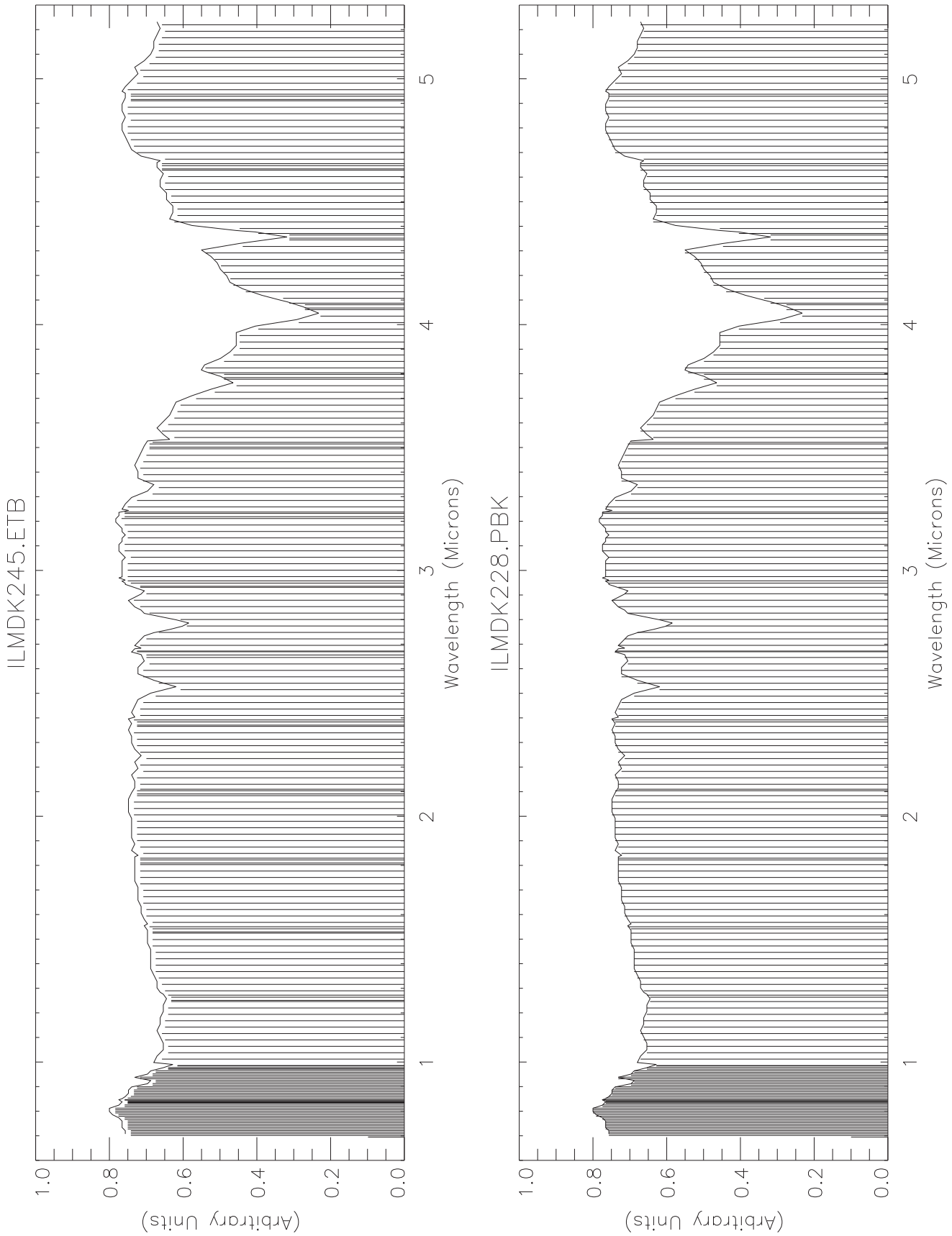
0.8
0.6
0.4
0.2
0.0
1
2
3
4
5
Wavelength (Microns)

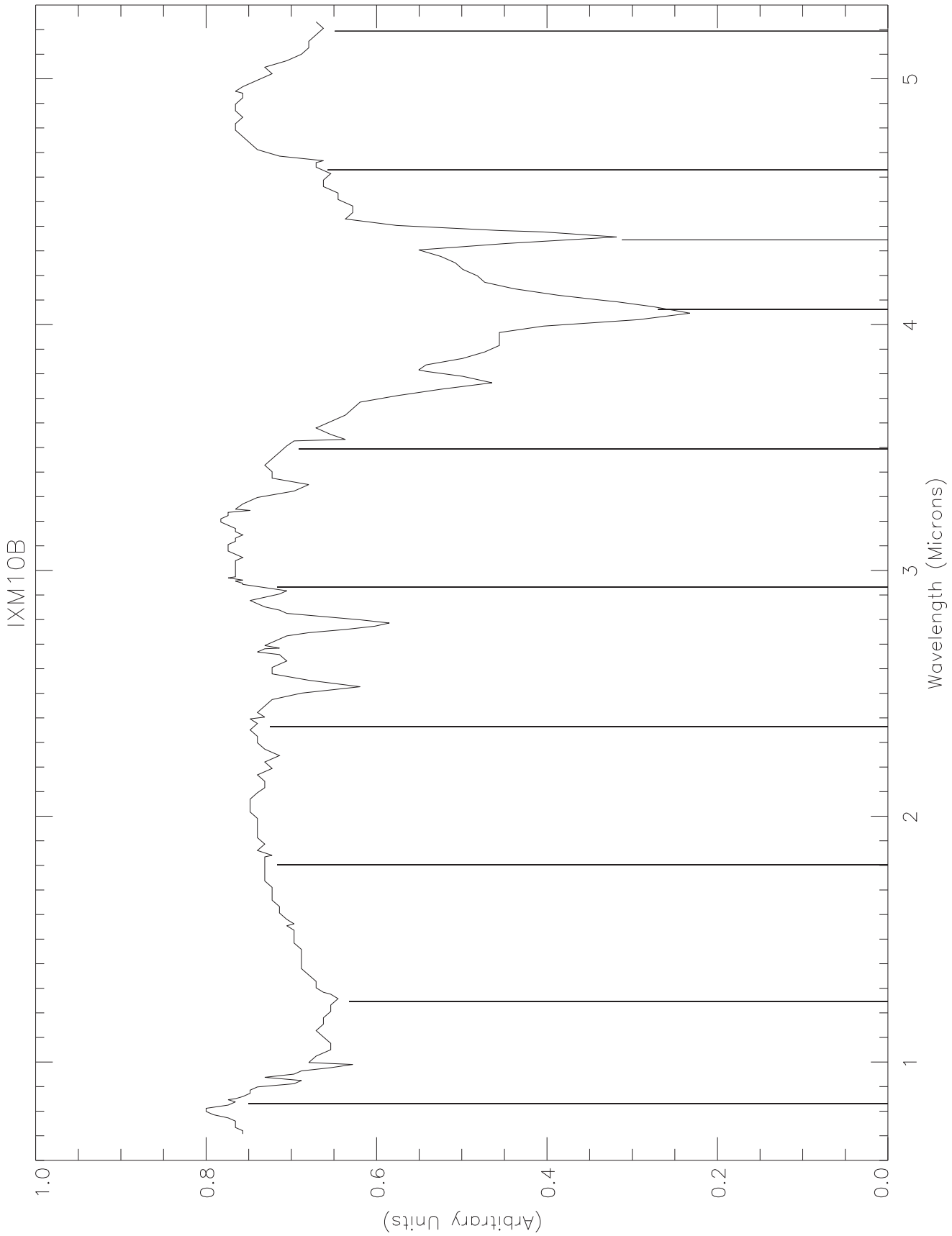

ILM245.ETB
(Arbitrary Units)
1.0
0.8
0.6
0.4
0.2
0.0
1
2
3
4
5
Wavelength (Microns)
ILM001.PBK
(Arbitrary Units)
1.0
0.8
0.6
0.4
0.2
0.0
1
2
3
4
5
Wavelength (Microns)

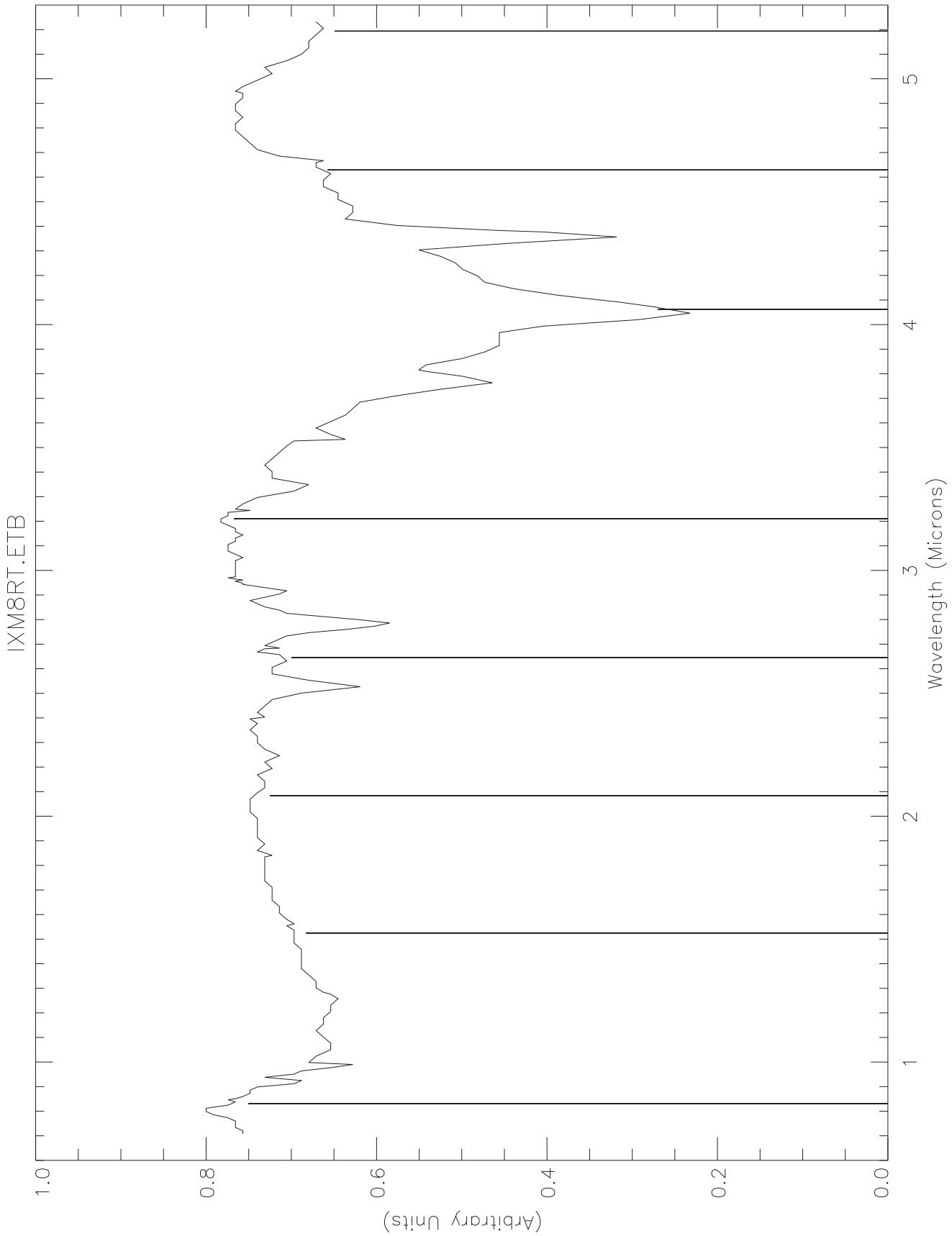

ILM245
ILM102
(Arbitrary Units)
Wavelength (Microns)
0.0
0.2
0.4
0.6
0.8
1.0
1
2
3
4
5


ILM245.ETB
ILM96.PBK
(Arbitrary Units)
Wavelength (Microns)
0.0
0.2
0.4
0.6
0.8
1.0
1
2
3
4
5


ILM442.ETB
ILM204.PBK
(Arbitrary Units)
Wavelength (Microns)
0.0
0.2
0.4
0.6
0.8
1.0
1
2
3
4
5


ILMDK245.ETB
(Arbitrary Units)
1.0
0.8
0.6
0.4
0.2
0.0
1
2
3
4
5
Wavelength (Microns)
ILMDK228.PBK
(Arbitrary Units)
1.0
0.8
0.6
0.4
0.2
0.0
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)


IXM8RT.ETB
(Arbitrary Units)
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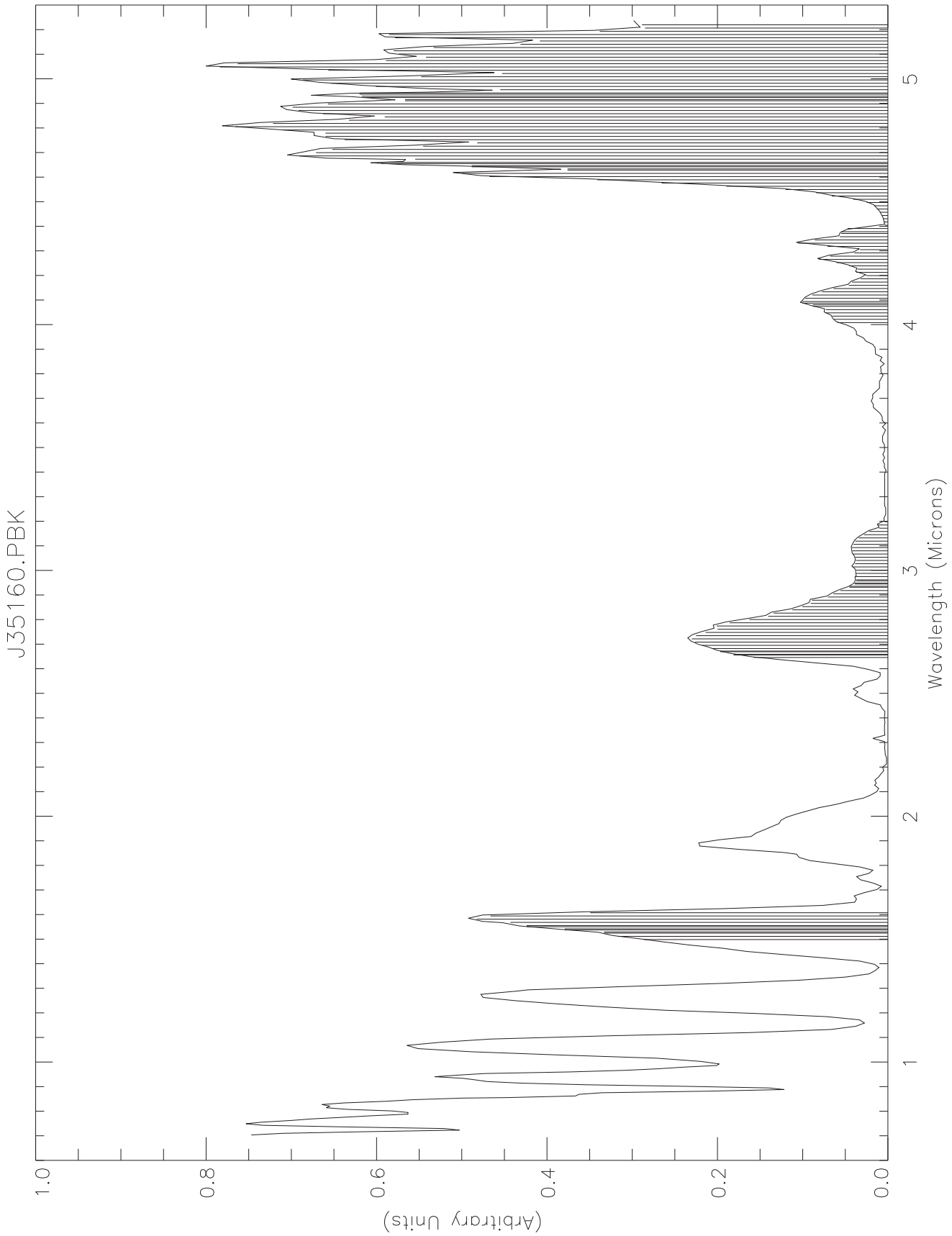
0.8
0.6
0.4
0.2
0.0
1
2
3
4
5
Wavelength (Microns)


J35160.PBK
(Arbitrary Units)
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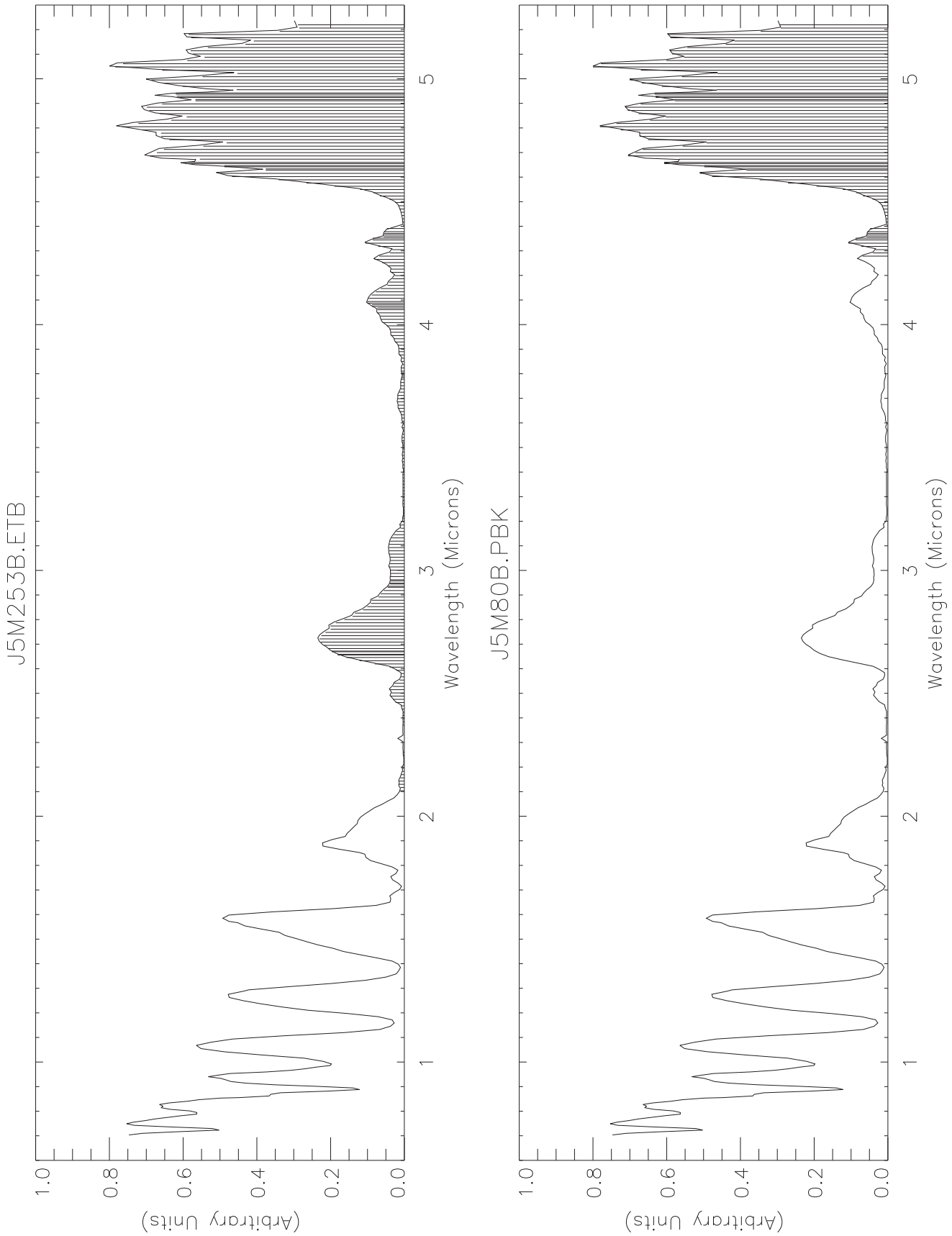
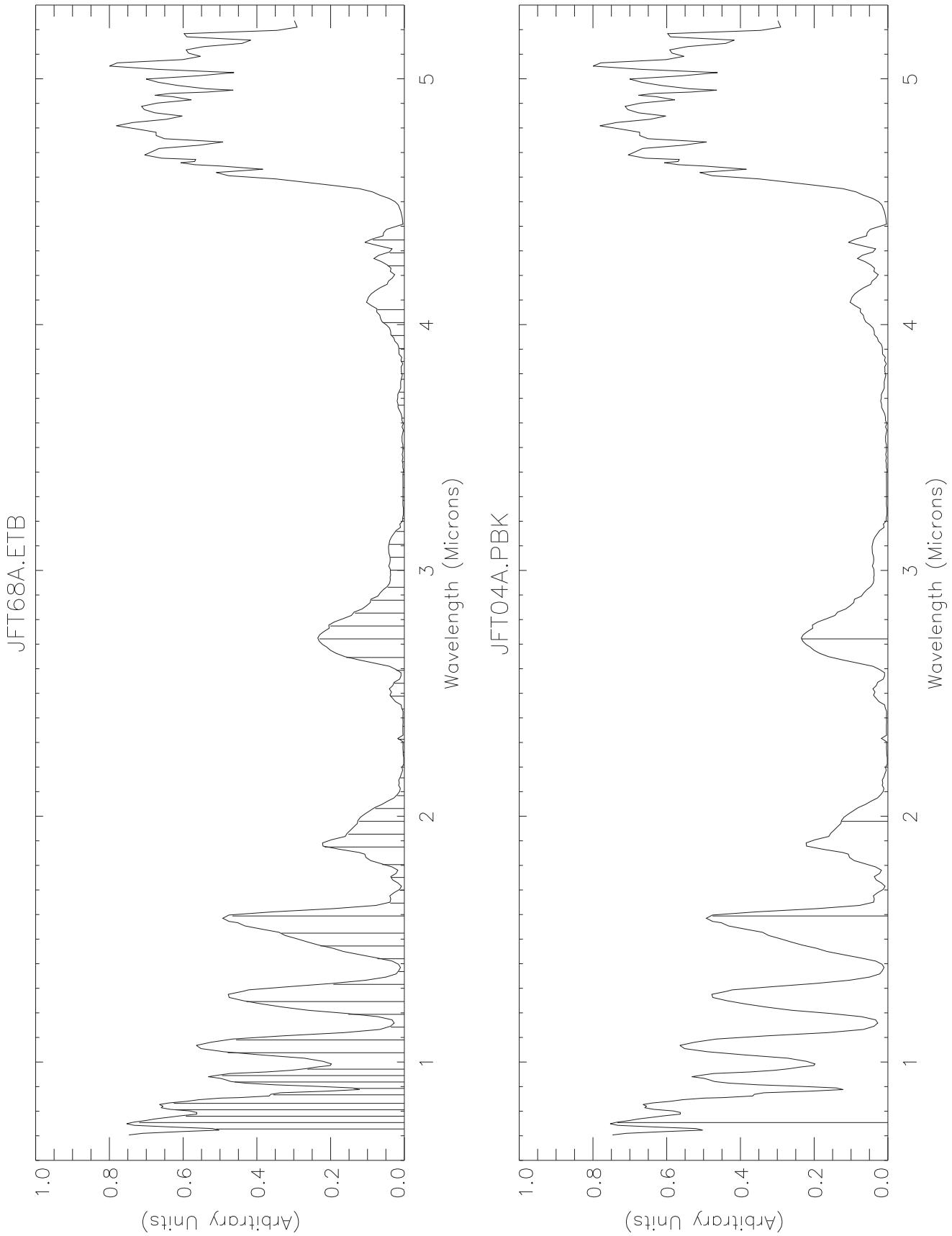
0.8
0.6
0.4
0.2
0.0
1
2
3
4
5
Wavelength (Microns)


J5M253B.ETB
J5M80B.PBK
(Arbitrary Units)
Wavelength (Microns)
0.0
0.2
0.4
0.6
0.8
1.0
1
2
3
4
5


JFT68A.ETB
JFT04A.PBK
(Arbitrary Units)
Wavelength (Microns)
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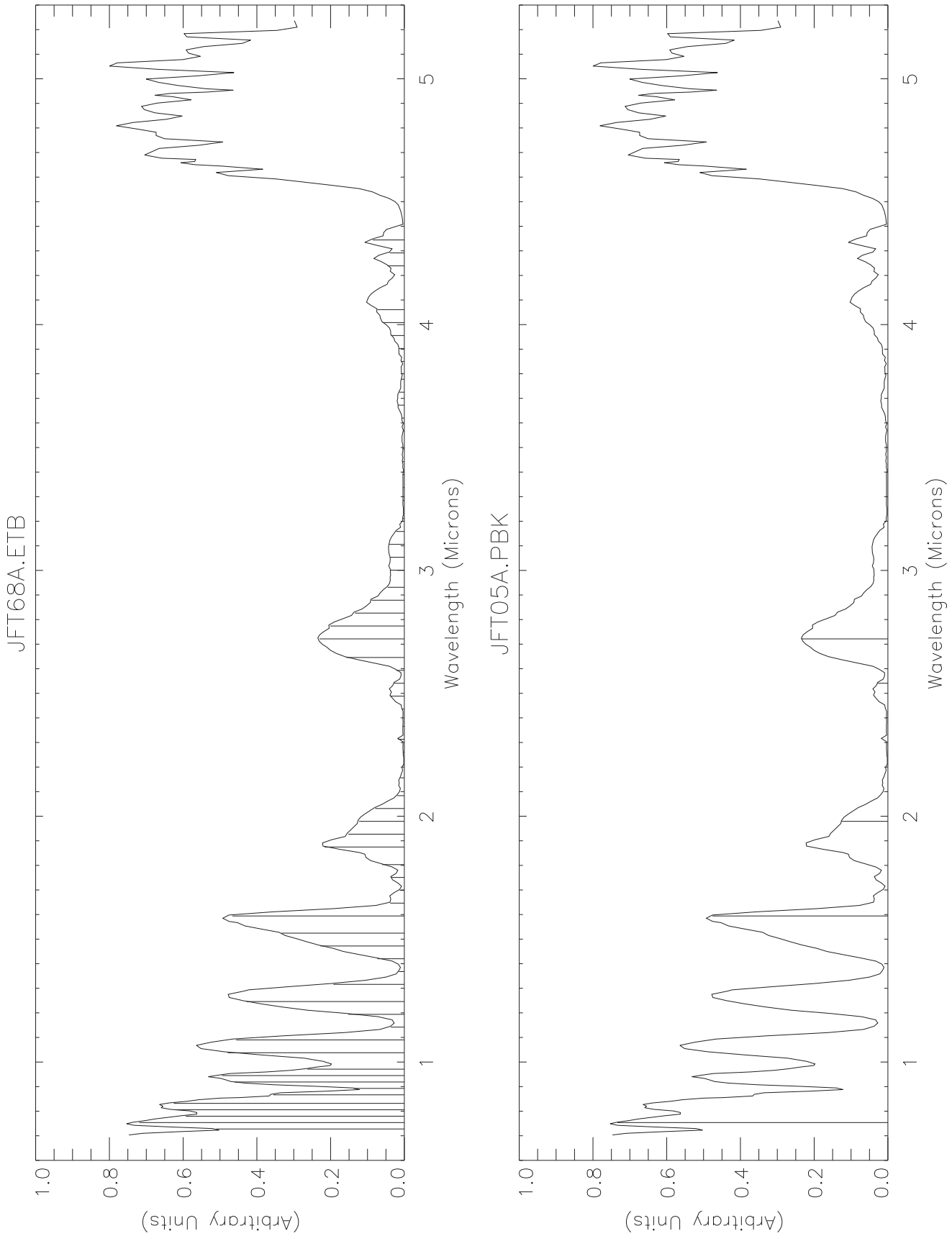
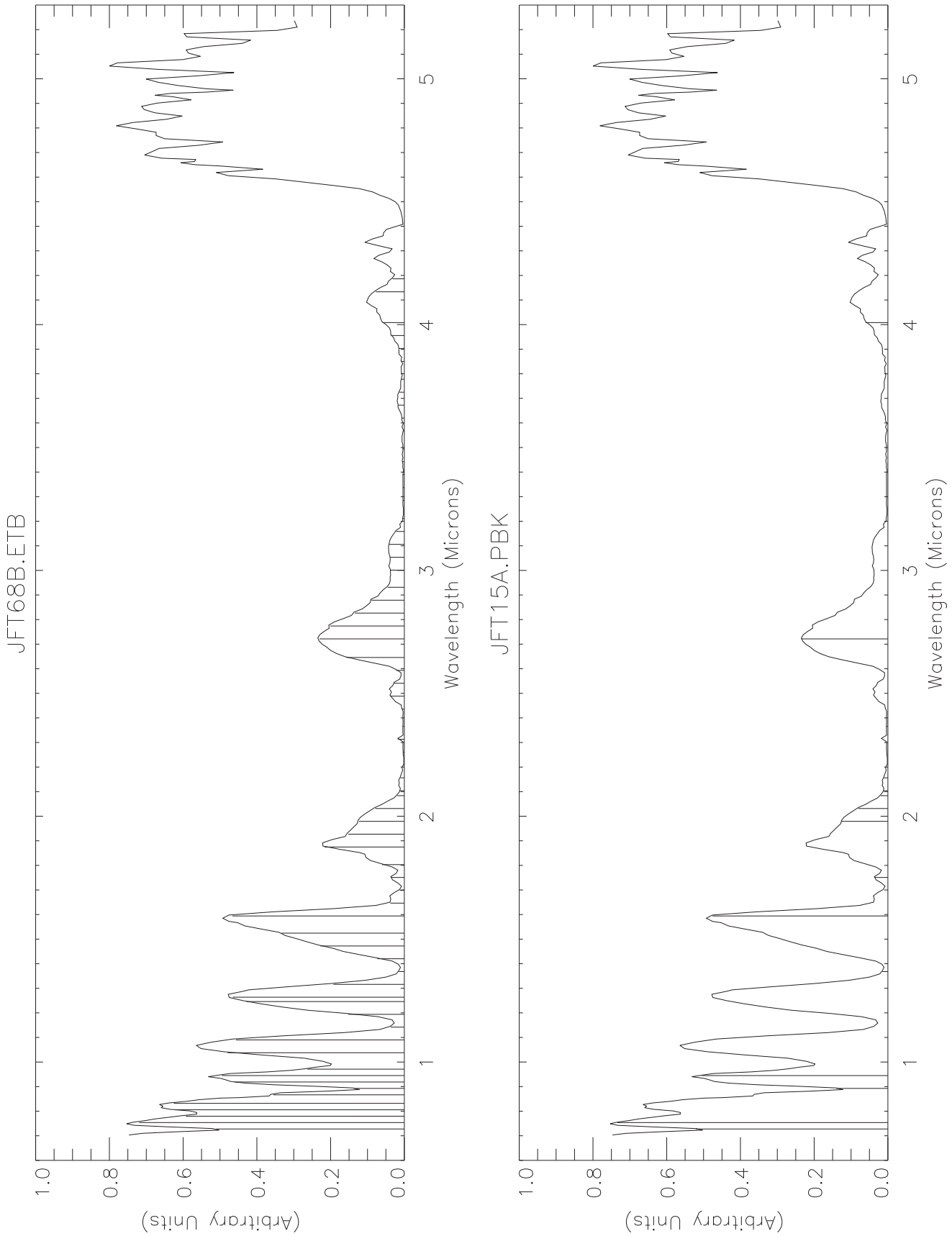
0.2
0.4
0.6
0.8
1.0
1
2
3
4
5


JFT68A.ETB
JFT05A.PBK
(Arbitrary Units)
Wavelength (Microns)
0.0
0.2
0.4
0.6
0.8
1.0
1
2
3
4
5


JFT68B.ETB
JFT15A.PBK
(Arbitrary Units)
Wavelength (Microns)
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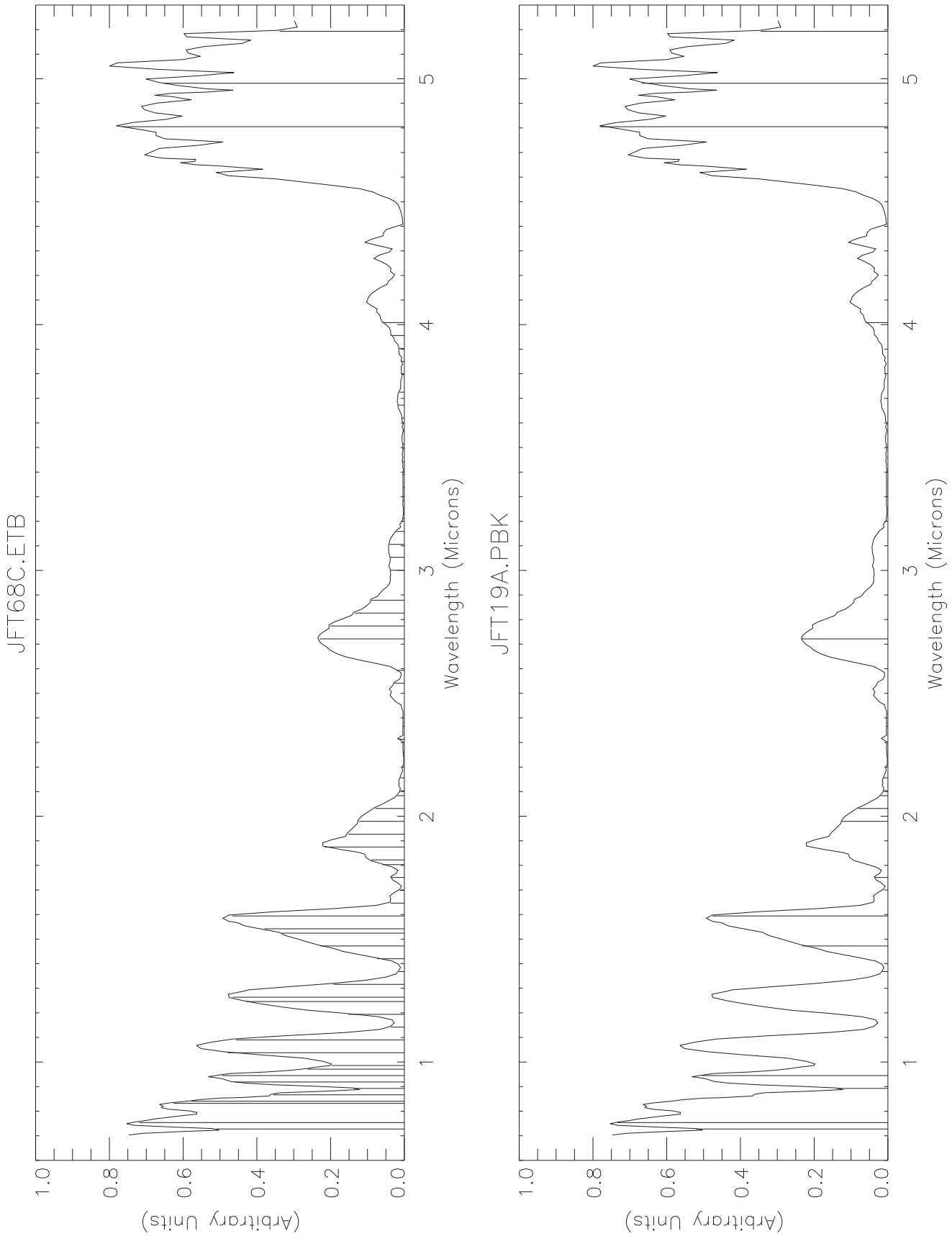
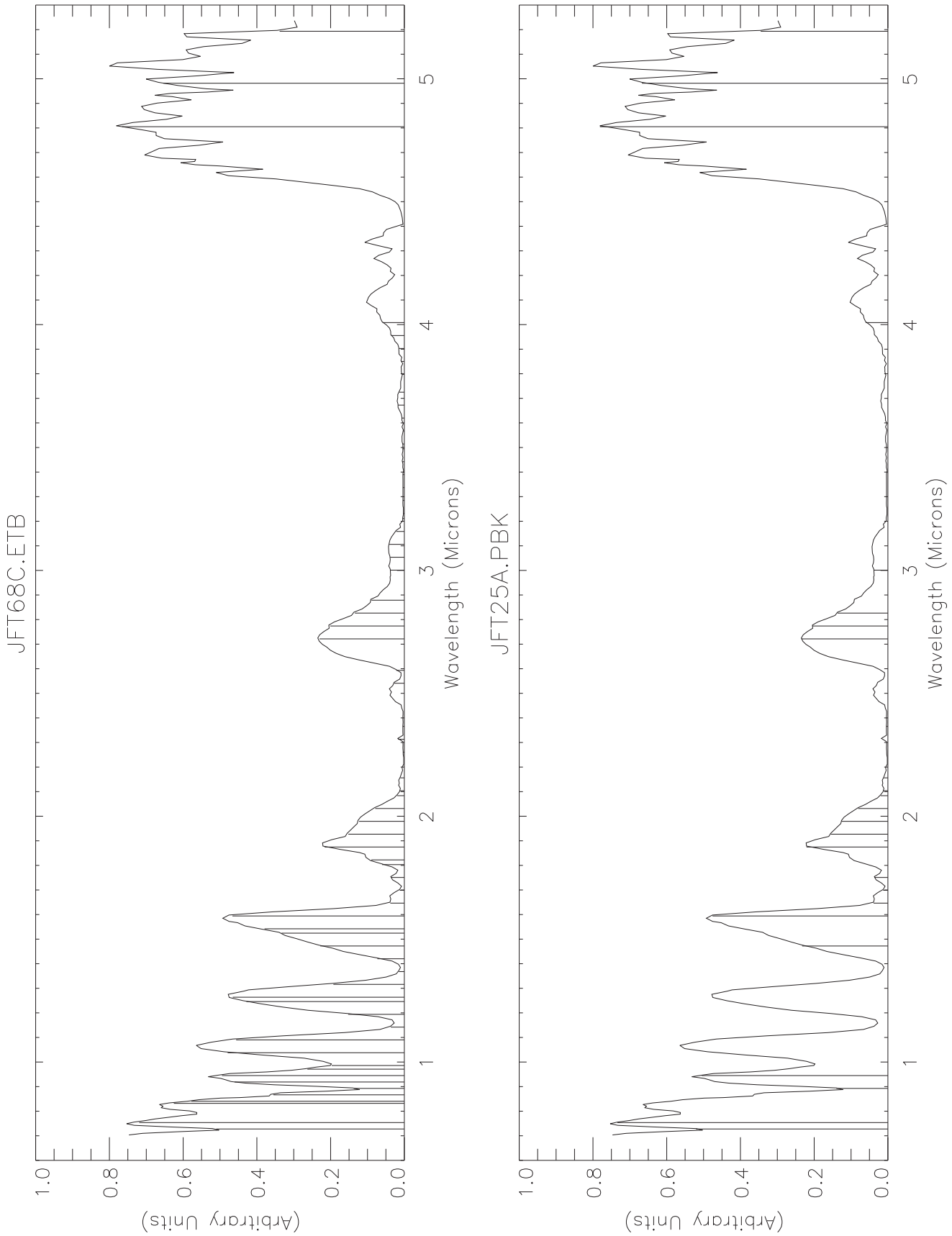
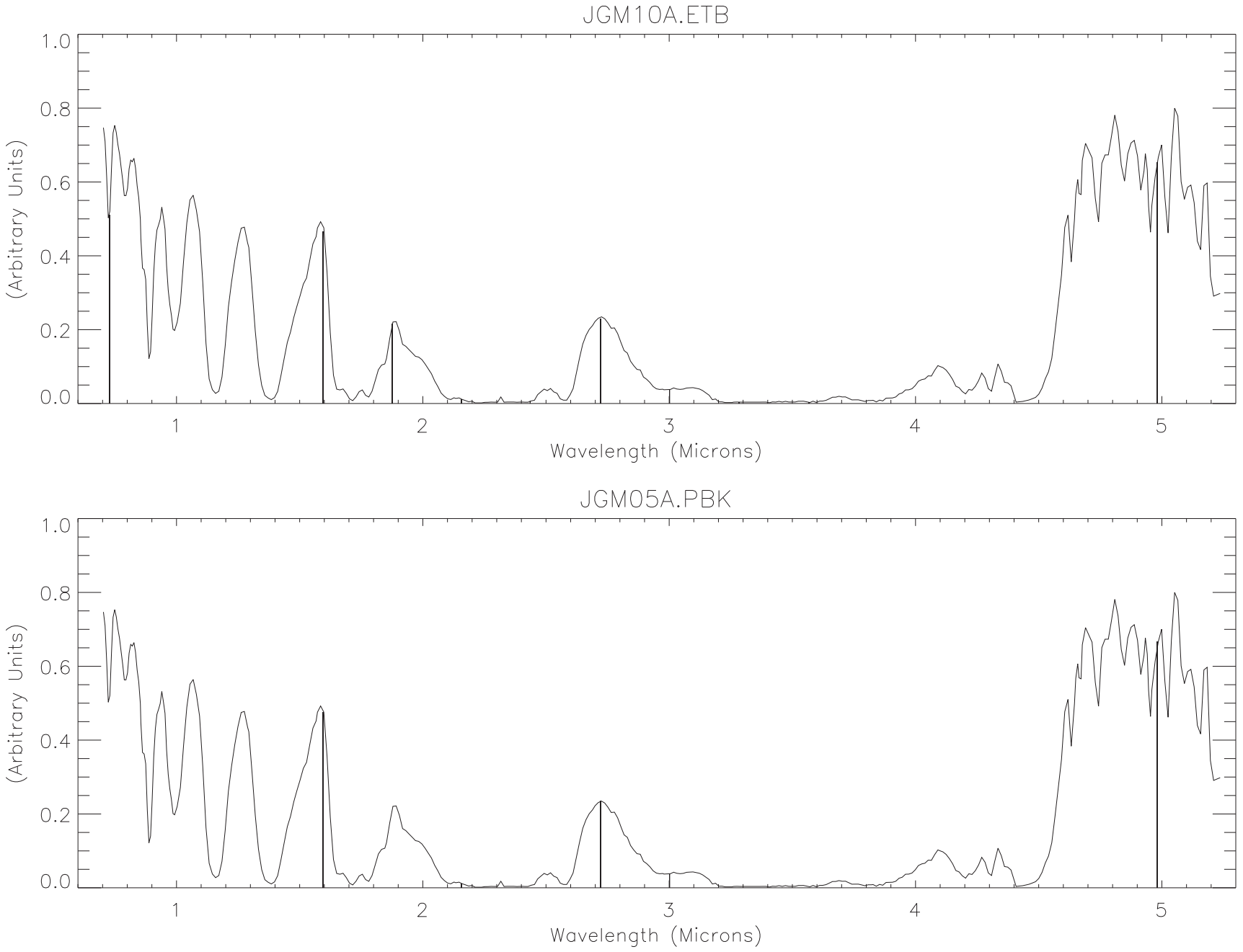
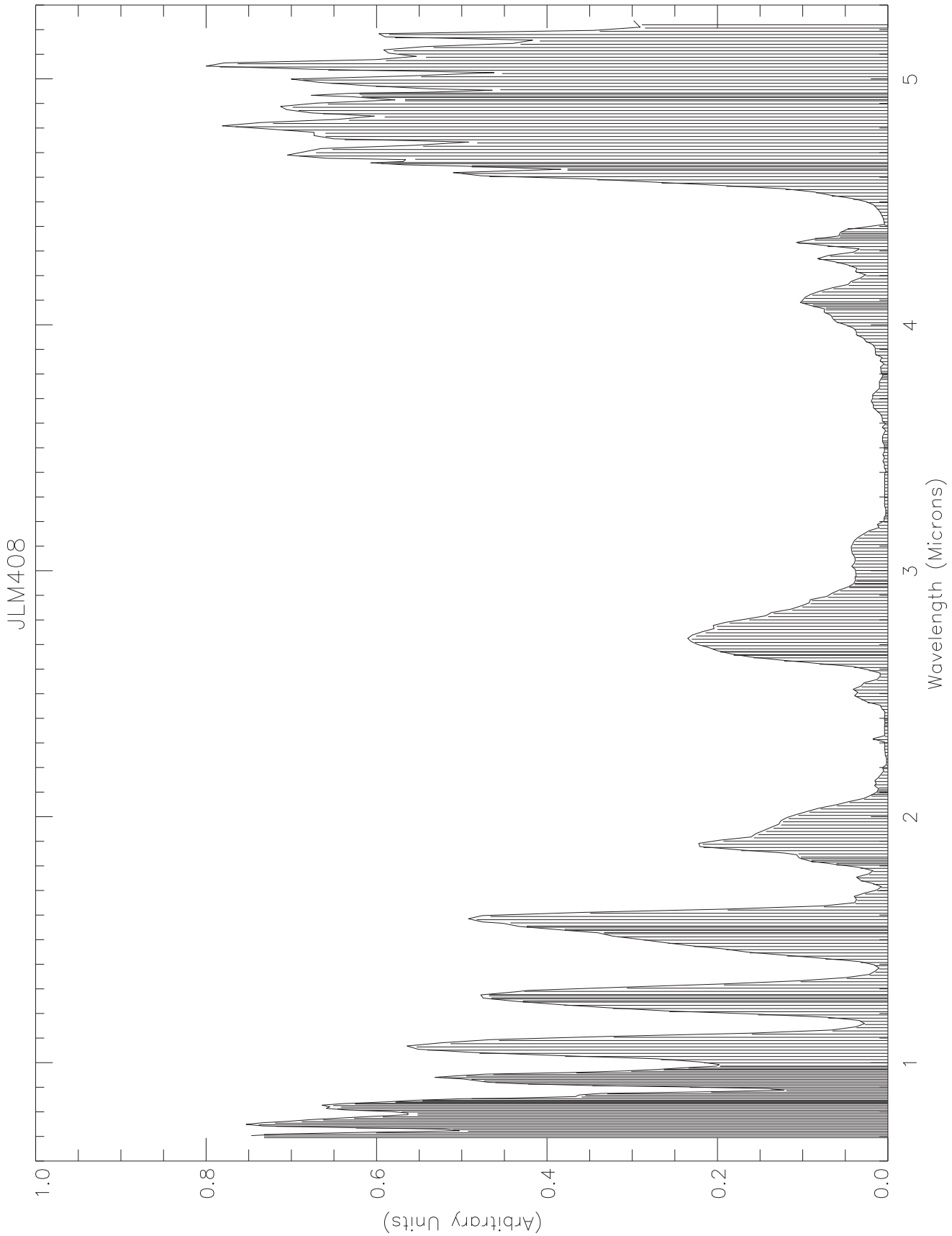
0.2
0.4
0.6
0.8
1.0
1
2
3
4
5


JFT68C.ETB
(Arbitrary Units)
1.0
0.8
0.6
0.4
0.2
0.0
1
2
3
4
5
Wavelength (Microns)
JFT19A.PBK
(Arbitrary Units)
1.0
0.8
0.6
0.4
0.2
0.0
1
2
3
4
5
Wavelength (Microns)


JFT68C.ETB
(Arbitrary Units)
1.0
0.8
0.6
0.4
0.2
0.0
1
2
3
4
5
Wavelength (Microns)
JFT25A.PBK
(Arbitrary Units)
1.0
0.8
0.6
0.4
0.2
0.0
1
2
3
4
5
Wavelength (Microns)


JGM10A.ETB
1.0
0.8
0.6
0.4
0.2
0.0
(Arbitrary Units)
1
2
3
4
5
Wavelength (Microns)
JGM05A.PBK
1.0
0.8
0.6
0.4
0.2
0.0
(Arbitrary Units)
1
2
3
4
5
Wavelength (Microns)


JLM408
(Arbitrary Units)
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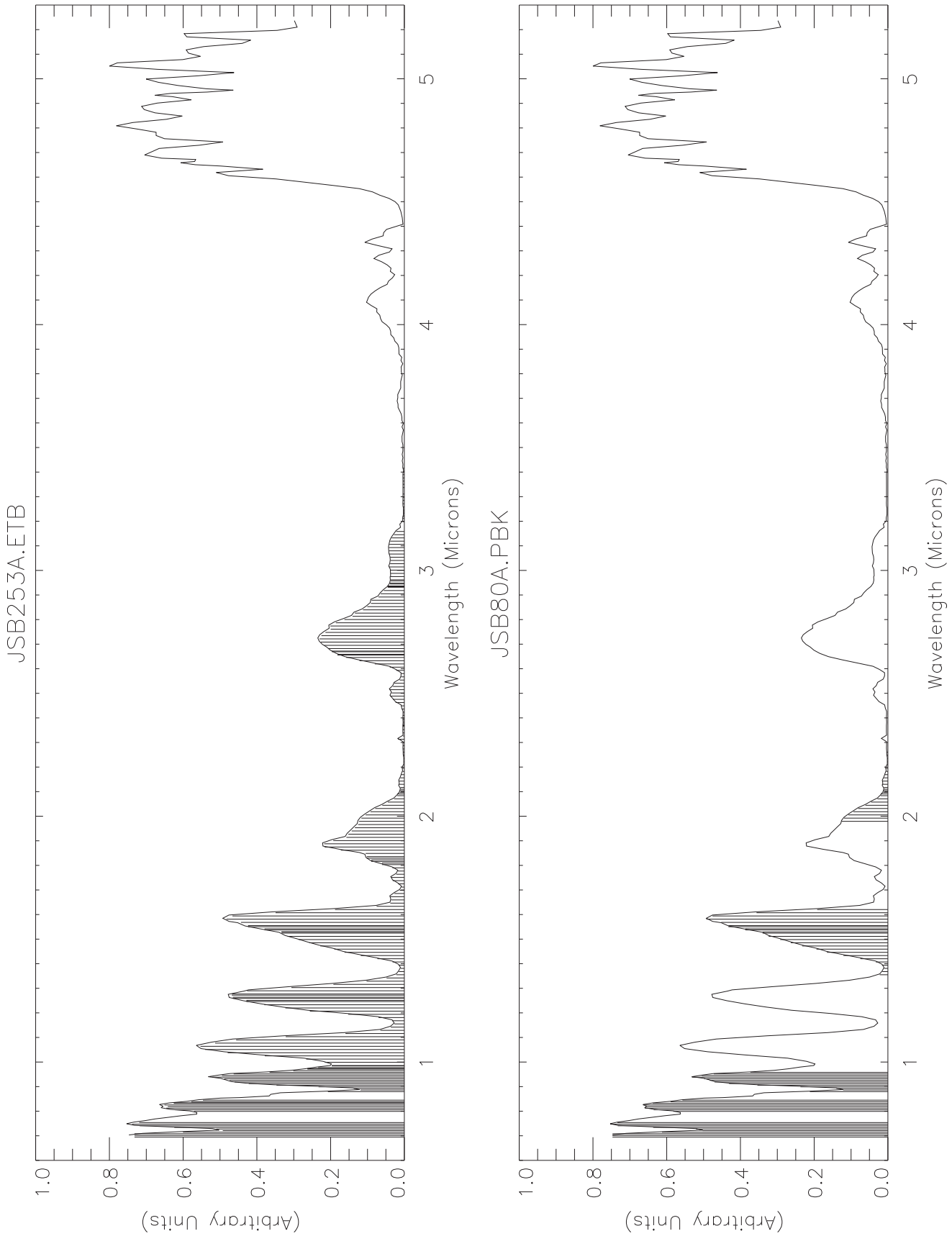
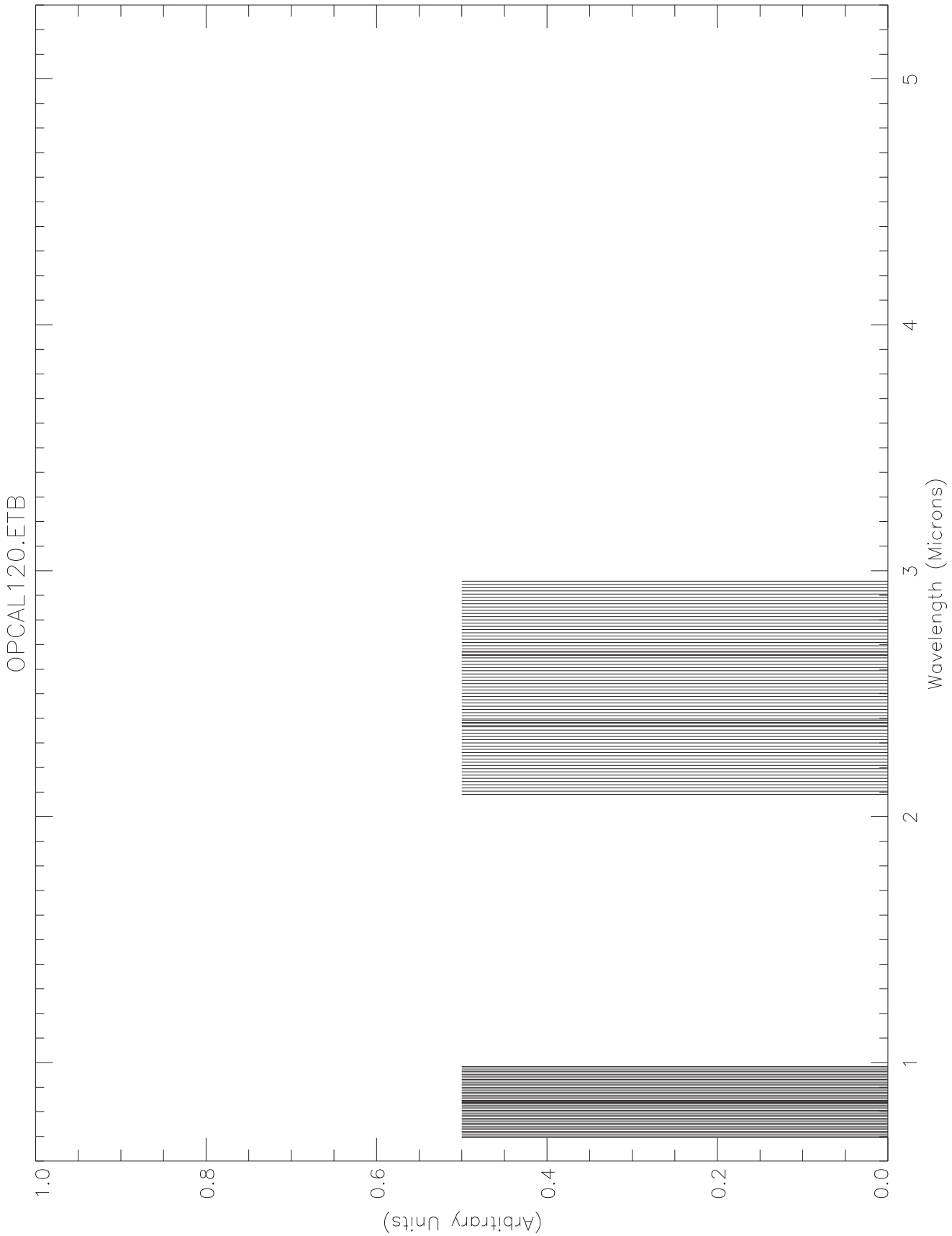
0.6
0.4
0.2
0.0
1
2
3
4
5
Wavelength (Microns)


JSB253A.ETB
JSB80A.PBK
(Arbitrary Units)
Wavelength (Microns)
0.0
0.2
0.4
0.6
0.8
1.0
1
2
3
4
5


OPCAL120.ETB
(Arbitrary Units)
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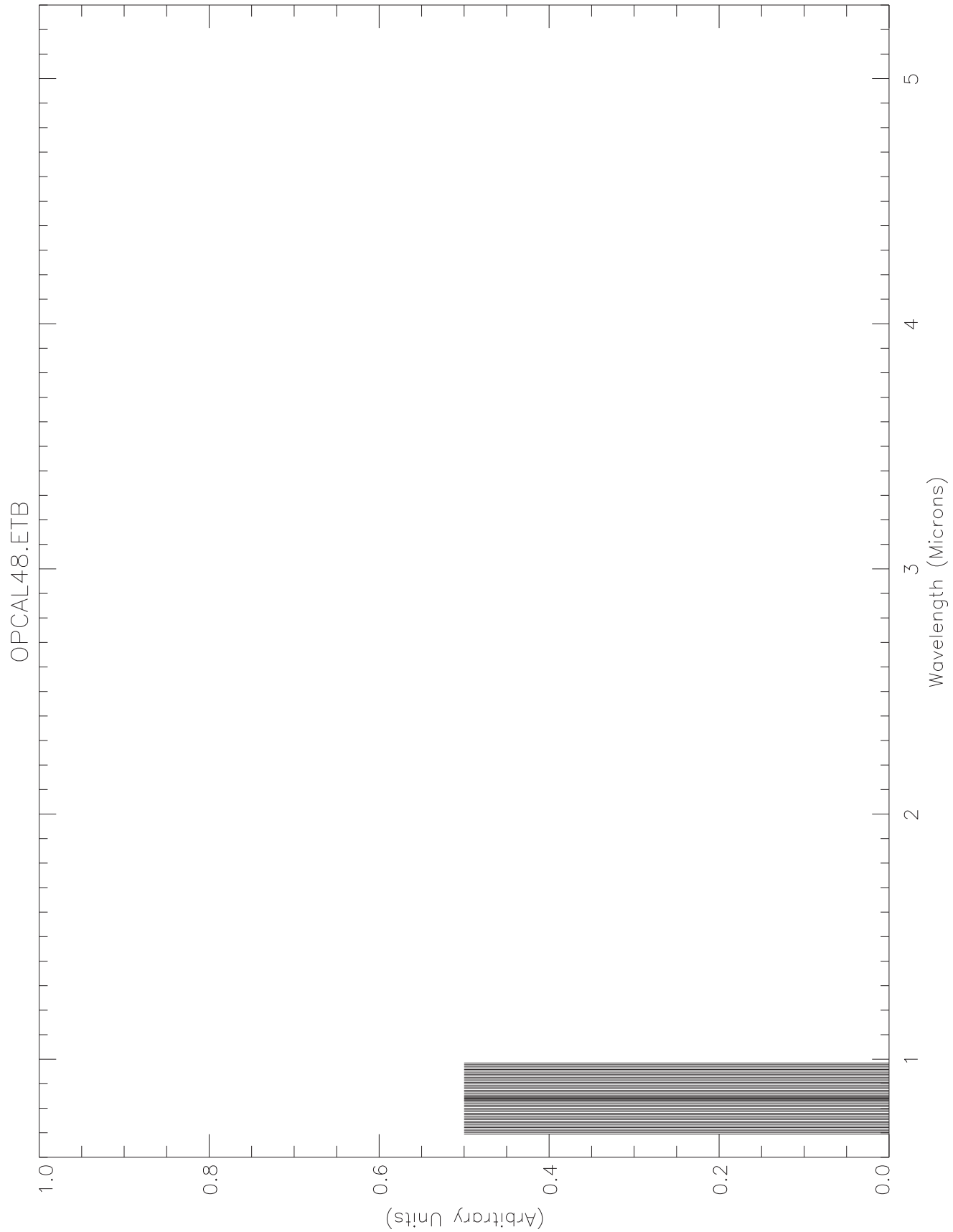
0.8
0.6
0.4
0.2
0.0
1
2
3
4
5
Wavelength (Microns)


OPCAL48.ETB
(Arbitrary Units)
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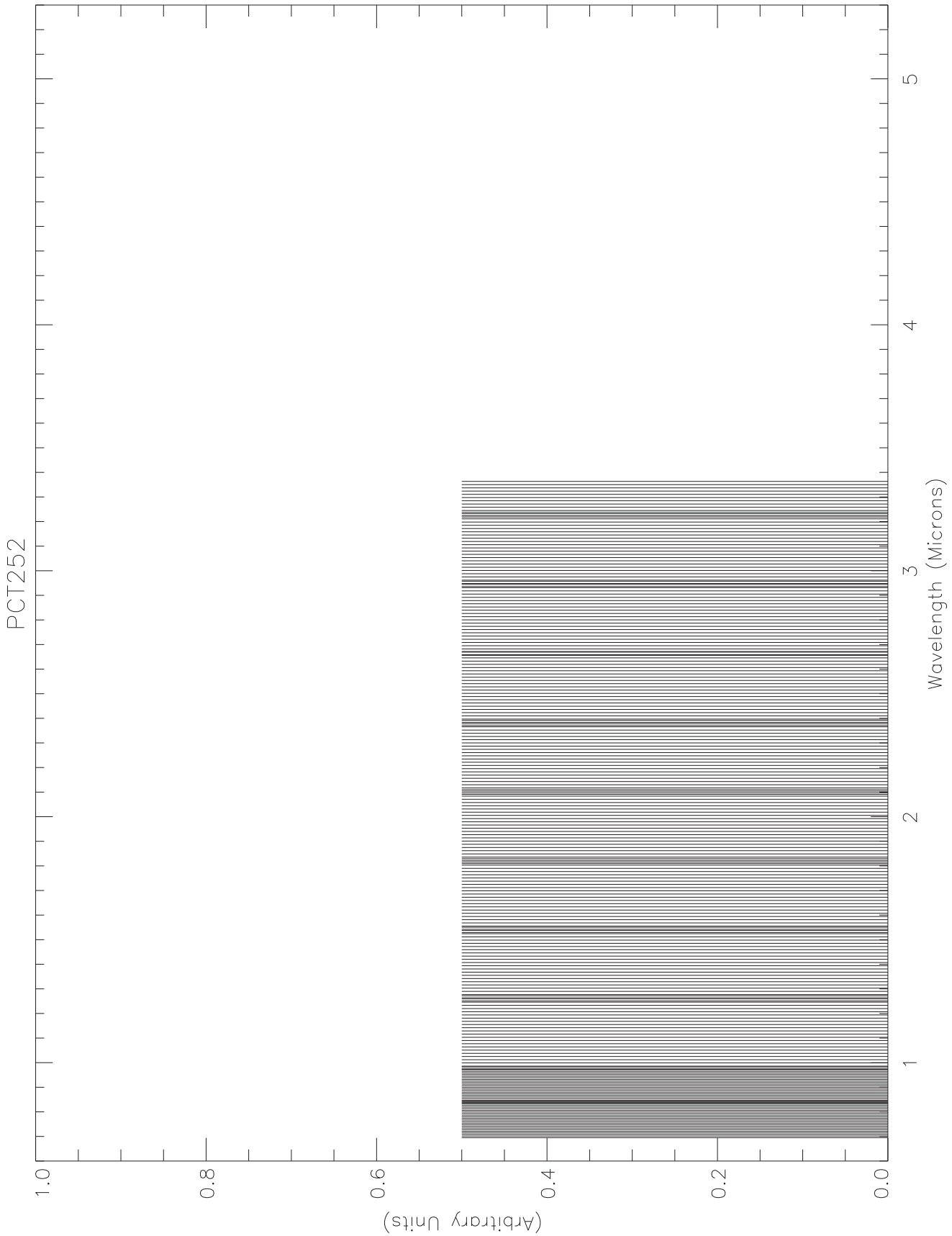
0.8
0.6
0.4
0.2
0.0
1
2
3
4
5
Wavelength (Microns)


PCT252
(Arbitrary Units)
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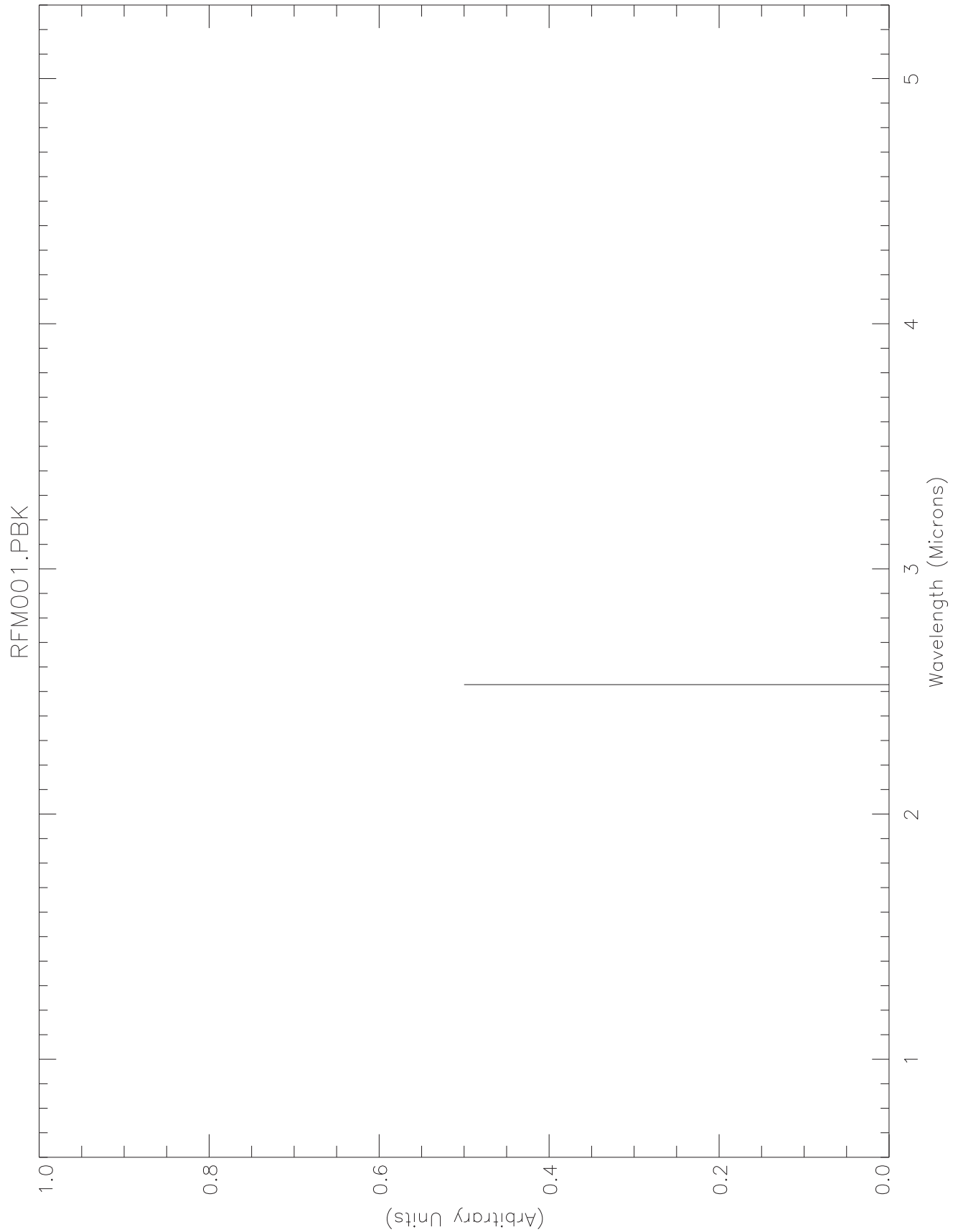
0.8
0.6
0.4
0.2
0.0
1
2
3
4
5
Wavelength (Microns)


RFM001.PBK
(Arbitrary Units)
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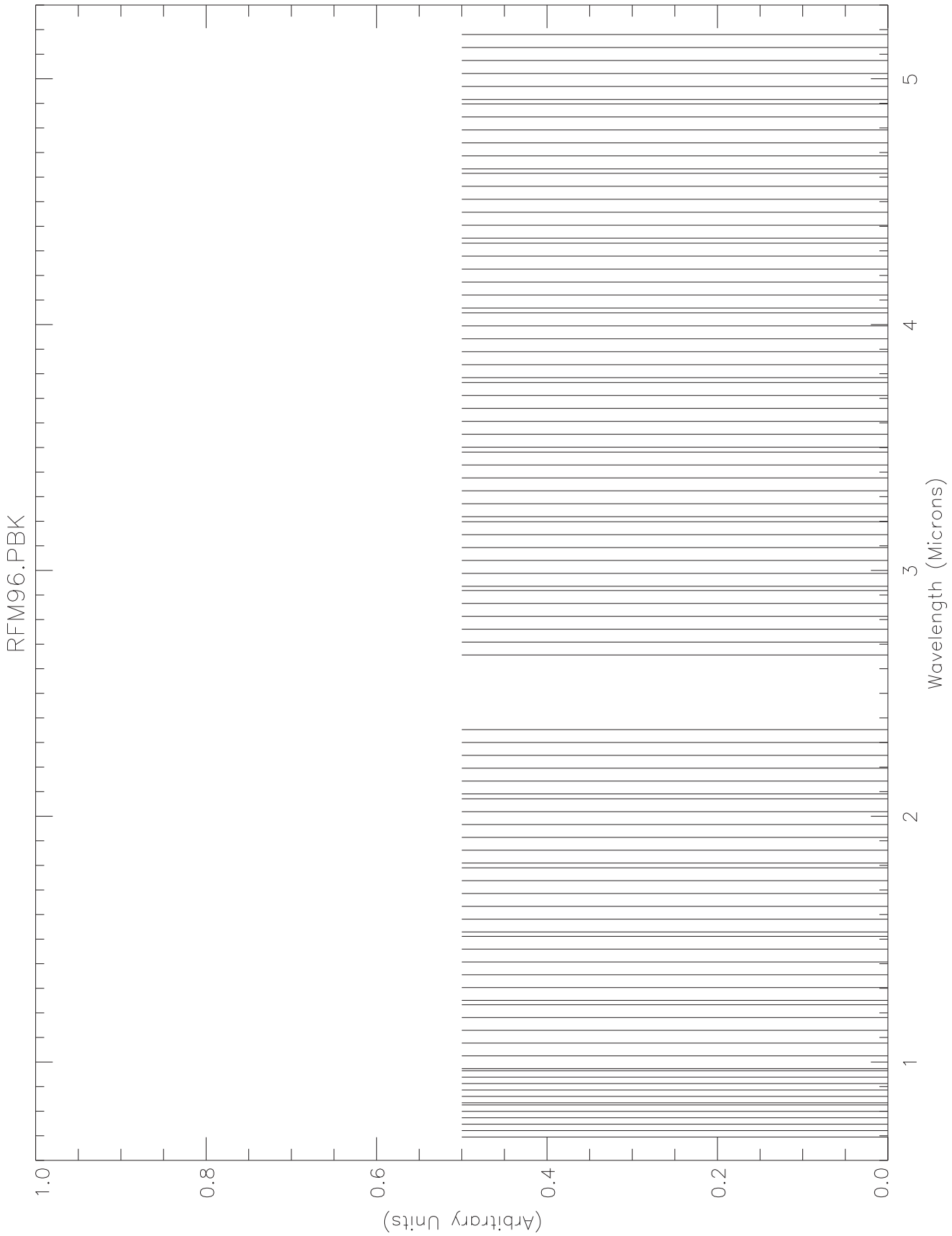
0.8
0.6
0.4
0.2
0.0
1
2
3
4
5
Wavelength (Microns)


RFM96.PBK
(Arbitrary Units)
1.0
0.8
0.6
0.4
0.2
0.0
1
2
3
4
5
Wavelength (Microns)

Chapter 7 - Data Return

Contents

Introduction to Chapter 7

This chapter is a report on the NIMS data return for the E4 orbit. Due to the low downlink data rates available for Galileo Jupiter Operations and other unforeseen and unpredictable events during the E4 Encounter and Cruise, not all NIMS data recorded on the tape recorder or selected in real-time were returned. The previous 6 chapters nominally describe the planning and intention of the NIMS observations for this orbit, except the obstab section in chapter 4 which was updated to give the latest parameters for the data that were actually returned.

The E4 orbit was the third time that NIMS was able to reload its phase2 RAM software from CDS to restart NIMS after the processor had halted due to radiation hits. Ten software reloads were inserted into the E4 command sequence to protect as many observations as possible. No unplanned processor halts were detected during the E4 Encounter. A large number of reloads spread throughout the encounter period is the best way to protect as many NIMS observations as possible.

Also, Detector 8 was still dead in E4 and was never recovered.

The plots on the pages 3, 4 and 5 show the geometry of the NIMS E4 observations using a north trajectory pole projection. The 'returned' observations are in Bold characters and the 'non-returned' in gray.

The text on page 6 gives a 'recap' of the E4 playback events which affected NIMS data return.

The spreadsheets on pages 7 to 10 summarize the NIMS E4 data return.

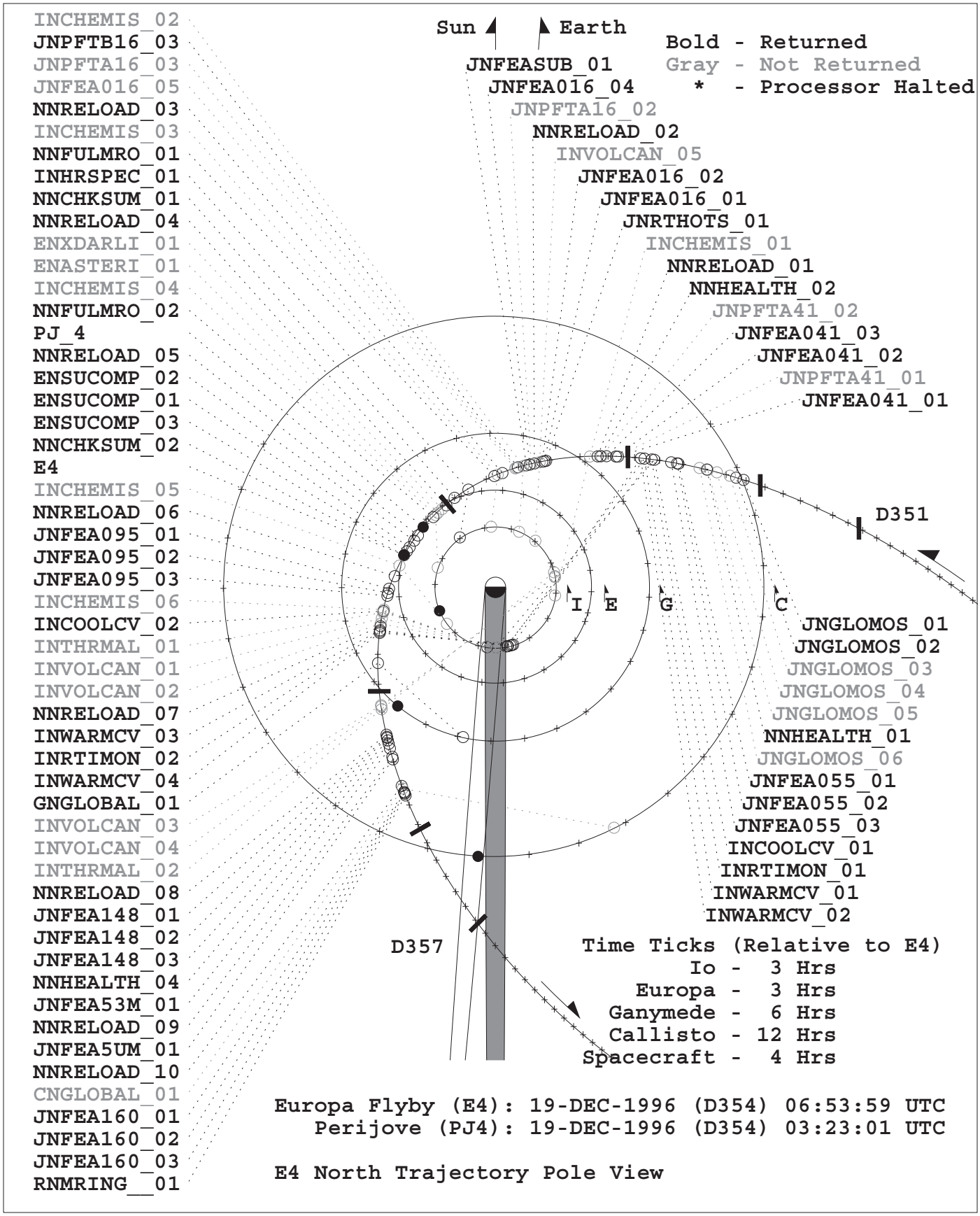
A Timeline of E4 playback events is on page 11.

The text on pages 12 and 13 describes the E4 NIMS Anomalies, both Processor Halts and Detector 8 failure.

The text on pages 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.

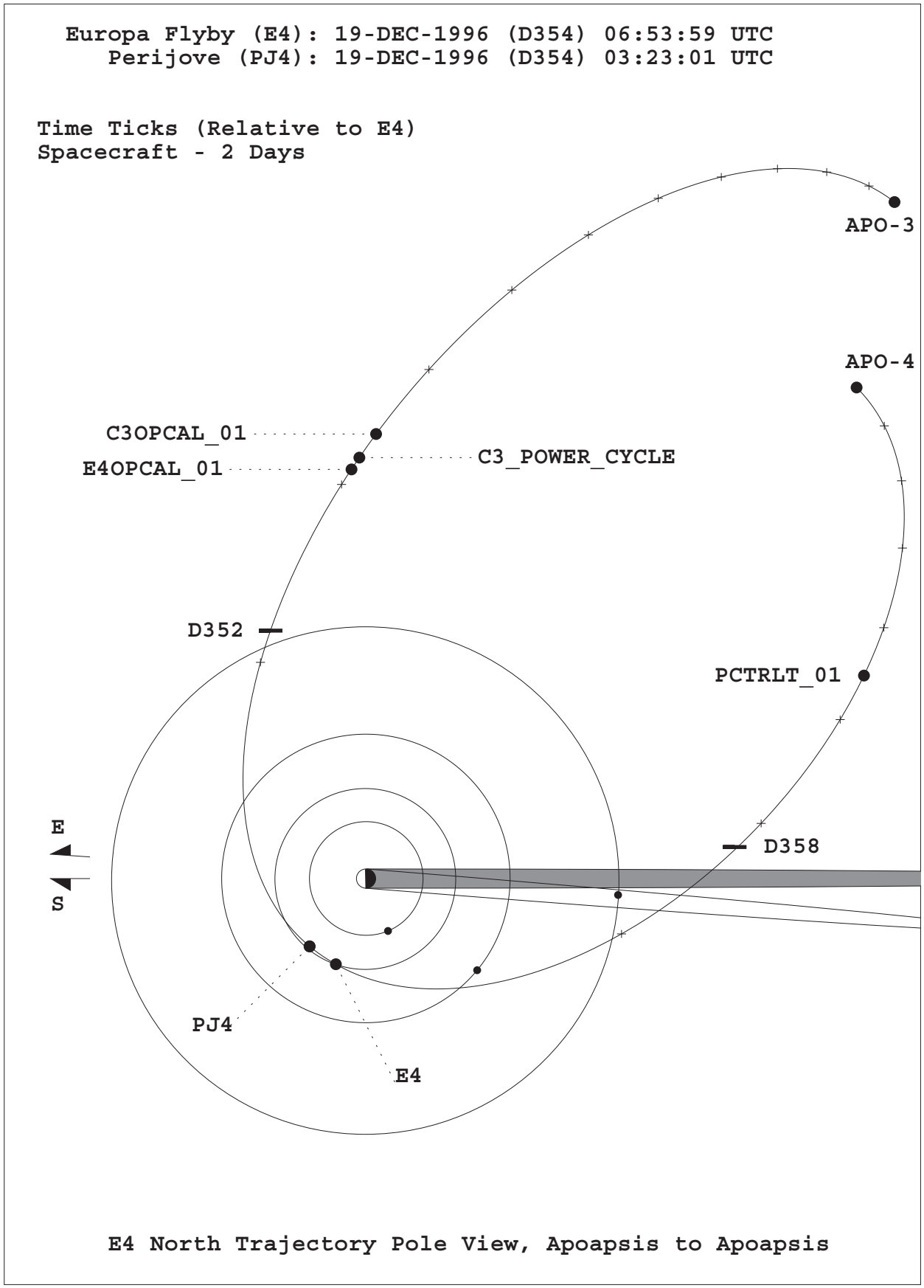
The text on page 17 is a guide to understanding the NIMS MASK.

NIMS E4 OBSERVATIONS



NIMS - FEL - 02/20/98

NIMS E4 CALIBRATIONS



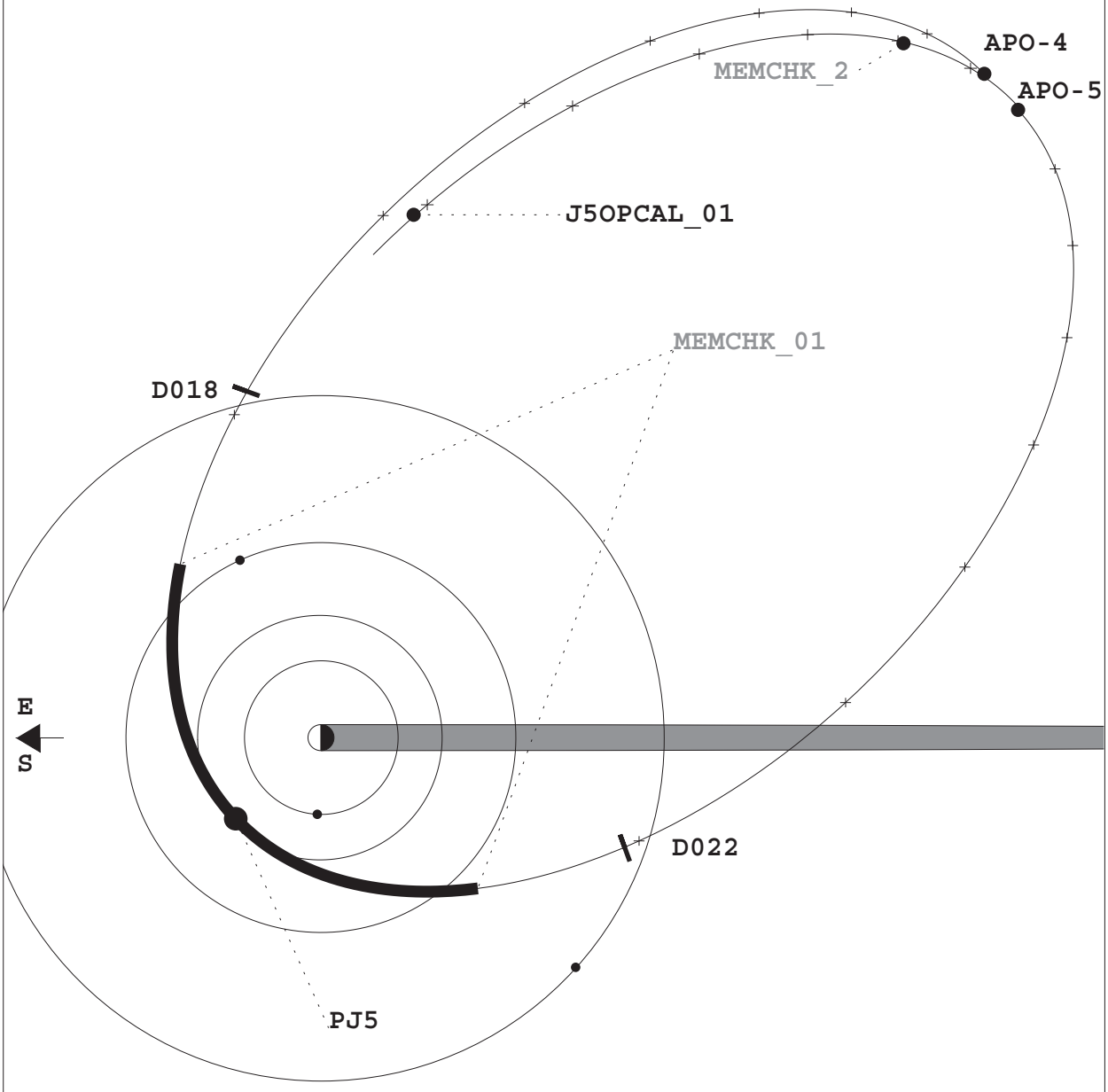
E4 North Trajectory Pole View, Apoapsis to Apoapsis

NIMS J5 RADIATION STUDY

Perijove (PJ5): 20-JAN-1997 (D020) 00:28:42 UTC

Time Ticks (Relative to J5)
Spacecraft - 2 Days

Bold - Returned
Gray - Not Returned



J5 North Trajectory Pole View, Apoapsis to Apoapsis

Recap of E4 Playback Events

NIMS received a downlink allocation of less than 22 Megabits for E4 playback. As a result several recorded observations were not included in the playback plan, and others were reduced in spatial coverage.

The E4 playback period included solar conjunction, an interval of two weeks during which the spacecraft was effectively out of communication with the Earth. As the spacecraft approached and subsequently departed from this period, it was expected that data transmission quality would suffer due to the effects of variable solar activity. In general NIMS data quality was not significantly impacted due to the effects of solar conjunction. Commands to replay small portions of 1 observation (to fill data gaps) executed successfully in the later part of playback.

The initial playback plan showed downlink of the most crucial Europa closest-approach data occurring adjacent to the conjunction period. In order to protect this data as much as possible a different strategy was devised. This involved starting playback not with the first observations recorded, but with the Europa C/A observations. Thereafter two complete passes over the tape were made. Due to a quirk of the modeling software, the second pass over the Europa C/A data was designated "pass 3."

Although there were no NIMS instrument halts in E4 due to radiation hits, it was determined through realtime data that detector 8 (2.37-2.63 microns) was behaving erratically. During E4 playback, wavelengths from detector 8 were sampled at intervals to help assess and diagnose the problem. For the most part, however, detector 8 wavelengths were not returned. This was accomplished by uplinking new wavelength edit tables that did not specify return of detector 8 wavelengths.

NIMS E4 DATA RETURN

Activity ID	Observation Title	Mode	Gain	Record Format	NIMS Edit Table	NIMS PB Table	Grating Start	Grating Offset
E4NNOPCAL_01-	OPCAL	LM	4	R/T	OPCAL120		0	4
E4JNGLOMOS01-	Jupiter Global Mosaic Prt 1	XM	2	LPU	E4JGM10A	E4JGM05A	5	4
E4JNGLOMOS02-	Jupiter Global Mosaic Prt 2	XM	2	LPU	E4JGM10A	E4JGM05A	5	4
E4JNGLOMOS02-	Jupiter Global Mosaic Prt 2	XM	2	LPU	E4JGM10A	E4JGM05A	5	4
E4JNGLOMOS02-	Jupiter Global Mosaic Prt 2	XM	2	LPU	E4JGM10A	E4JGM05A	5	4
E4NNHEALTH01-	E4 Health 1	LM	2	R/T	E4RCVY3		0	4
E4JNFEA05501-	Jupiter Camp. feat. 55 deg. phase Prt 1	SM	2	LPU	E4JFT68A	E4JFT05A	1	4
E4JNFEA05502-	Jupiter Camp. feat. 55 deg. phase Prt 2	SM	2	LPU	E4JFT68A	E4JFT04A	1	4
E4JNFEA05503-	Jupiter Camp. feat. 55 deg. phase Prt 3	SM	2	LPU	E4JFT68A	E4JFT04A	1	4
E4INCOOLCV01-	NIMS Io Eclipse Observation (ingress)	XM	4	LPU	E4IXM10B	E4IXM10B	21	4
E4INRTIMON01-	Real Time Io monoring	XM	2	R/T	E4IXM8RT		21	4
E4INWARMCV01-	NIMS Io Eclipse Observation (egress)	XM	2	LPU	E4IXM10B	E4IXM10B	21	4
E4INWARMCV02-	NIMS Io Eclipse Obs. (post-egress)	XM	2	LPU	E4IXM10B	E4IXM10B	21	4
E4JNFEA04101-	Jupiter Camp. feat. 41 deg. phase Prt 1	SM	2	LPU	E4JFT68A	E4JFT04A	1	4
E4JNFEA04102-	Jupiter Camp. feat. 41 deg. phase Prt 2	SM	2	LPU	E4JFT68A	E4JFT04A	1	4
E4JNFEA04103-(A)	Jupiter Camp. feat. 41 deg. phase Prt 3	SM	2	LPU	E4JFT68A	E4JFT04A	1	4
E4NNHEALTH02-	E4 Health 2	LM	2	R/T	E4RCVY3		0	4
E4JNRTHOTS01-	Jupiter Real Time Hot Spot	LM	2	R/T	E4JFEA442A	Real Time	0	4
E4JNFEA01601-	Jupiter Camp. feat. 16 deg. phase Prt 1	SM	2	LPU	E4JFT68C	E4JFT19A	1	4
E4JNFEA01602-	Jupiter Camp. feat. 16 deg. phase Prt 2	SM	2	LPU	E4JFT68C	E4JFT25A	1	4
E4JNFEA01604-	Jupiter Camp. feat. 16 deg. phase Prt 4	SM	2	LPU	E4JFT68C	E4JFT25A	1	4
E4JNFEASUB01-	Jupiter Campaign feature sub- specra	LM	2	LPU	E4JSB253A	E4JSB80A	0	4
E4JNFEASUB01-	Jupiter Campaign feature sub- specra	LM	2	LPU	E4JSB253A	E4JSB80A	0	4
E4JNPFTB1603	Jup. partial feat. tr. for feat. B Prt 4	SM	2	LPU	E4JFT68C	E4JFT19A	1	4
E4INHRSPEC01-	High Spatial & Spectral Obs. of Io	LM	2	LPU	E4ILM245	E4ILM001	0	4
E4INHRSPEC01-	High Spatial & Spectral Obs. of Io	LM	2	LPU	E4ILM245	E4ILM96	0	4
E4ENSUCOMP02-	Surface Composition / Dark Ice	LM	3	LPU	E4ELM245	E4ELM192	0	4
E4ENSUCOMP02-	Surface Composition / Dark Ice	LM	3	LPU	E4ELM245	E4ELM192	0	4
E4ENSUCOMP02-	Surface Composition / Dark Ice	LM	3	LPU	E4ELM245	E4ELM192	0	4
E4ENSUCOMP01-	Surface Composition / Light Ice	LM	3	MPW	E4ELM442	E4ELM192	0	4

NIMS E4 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 Mbits (4% ohead)	Data Reduct Factor (sBOT/BTG)	Pass
E4NNOPCAL_01-		120										
E4JNGLOMOS01-	64.7568	5	272	94	0.58	1.68	0.333	0	1.97	0.15	3.89	2
E4JNGLOMOS02-	64.7568	5	272	270	1.67	1.68	0.333	0	1.78	0.47	3.52	2
E4JNGLOMOS02-	64.7568	5	272	38	0.23	1.68	0.333	0	1.97	0.06	3.89	3
E4JNGLOMOS02-	64.7568	5	272	12	0.07	1.68	0.333	0	1.71	0.02	3.38	3
E4NNHEALTH01-		3					8.667	0				2
E4JNFEA05501-	95.2288	5	402	397	2.45	2.48	2.33	0	1.65	0.11	22.80	2
E4JNFEA05502-	95.6976	4	404	397	2.45	2.49	2.33	0	1.60	0.09	27.64	2
E4JNFEA05503-	95.2288	4	402	397	2.45	2.48	2.33	0	1.63	0.09	28.16	2
E4INCOOLCV01-	64.7568	10	272	47	0.29	1.68	0.333	2	3.10	0.09	3.06	2
E4INRTIMON01-		8					0.333	0				2
E4INWARMCV01-	90.3064	10	381	64	0.39	2.35	0.333	2	5.56	0.07	5.49	3
E4INWARMCV02-	19.9864	10	81	20	0.12	0.50	0.333	2	3.60	0.03	3.55	2
E4JNFEA04101-	95.2288	4	402	397	2.45	2.48	2.33	0	2.03	0.07	35.06	2
E4JNFEA04102-	7.3288	4	27	27	0.17	0.17	2.33	0	2.00	0.00	34.55	2
E4JNFEA04103-(A)	95.6976	4	404	310	1.91	2.49	2.33	0	2.00	0.06	34.55	2
E4NNHEALTH02-		3						0				
E4JNRTHOTS01-		3					8.667	0				2
E4JNFEA01601-	19.9864	19	81	81	0.50	0.50	2.33	0	1.91	0.07	6.95	2
E4JNFEA01602-	169.2992	25	718	357	2.20	4.43	2.33	0	1.85	0.43	5.11	2
E4JNFEA01604-	169.2992	25	718	297	1.83	4.43	2.33	0	1.74	0.38	4.81	2
E4JNFEASUB01-	339.0048	80	1442	688	4.24	8.89	8.667	0	1.74	0.76	5.59	2
E4JNFEASUB01-	339.0048	80	1442	749	4.62	8.89	8.667	0	1.83	0.79	5.88	3
E4JNPFTB1603	7.3288	19	27	27	0.17	0.17	2.33	0	1.70	0.03	6.18	2
E4INHRSPEC01-		1	1317	61	0.38		8.667	2	1.25	0.00	100.00	2
E4INHRSPEC01-		96	1317	325	2.00		8.667	2	1.03	0.73	2.76	3
E4ENSUCOMP02-	264.9344	192	1126	390	2.41	6.95	8.667	0	1.26	1.43	1.69	1
E4ENSUCOMP02-	264.9344	192	1126	178	1.10	6.95	8.667	0	1.30	0.63	1.74	3
E4ENSUCOMP02-	264.9344	192	1126	551	3.40	6.95	8.667	0	1.30	1.95	1.74	3
E4ENSUCOMP01-	975.0634	192	1106	250	2.88	12.74	8.667	0	1.29	0.89	3.23	1

NIMS E4 DATA RETURN

Activity ID	Observation Title	Mode	Gain	Record Format	NIMS Edit Table	NIMS PB Table	Grating Start	Grating Offset
E4ENSUCOMP01-	Surface Composition / Light Ice	LM	3	MPW	E4ELM442	E4ELM192	0	4
E4ENSUCOMP03-	Surface Composition of Double Linea Area	LM	3	MPW	E4ELM442	E4ELM384	0	4
E4ENSUCOMP03-	Surface Composition of Double Linea Area	LM	3	MPW	E4ELM442	E4ELM384	0	4
E4JNFEA09501-	Jupiter Camp. feat. 95 deg. phase Prt 1	SM	2	LPU	E4JFT68A	E4JFT04A	1	4
E4JNFEA09502-	Jupiter Camp. feat. 95 deg. phase Prt 2	SM	2	LPU	E4JFT68A	E4JFT04A	1	4
E4JNFEA09503-	Jupiter Camp. feat. 95 deg. phase Prt 3	SM	2	LPU	E4JFT68A	E4JFT05A	1	4
E4INCOOLCV02-	NIMS Io Eclipse Observation (ingress)	XM	4	LPU	E4IXM10B	E4IXM10B	21	4
E4INWARMCV03-	NIMS Io Eclipse Observation (egress)	XM	2	LPU	E4IXM10B	E4IXM10B	21	4
E4INRTIMON02	Real Time Io Monitoring	XM	2	R/T	E4IXM8RT		21	4
E4INWARMCV04-	NNIMS Io Eclipse Obs. (post-egress)	XM	2	LPU	E4IXM10B	E4IXM10B	21	4
E4GNGLOBAL01-	Ganymede Global Map	LM	3	MPW	E4GLM442	E4GLM204	0	4
E4JNFEA14801-	Jupiter Camp. feat. 148 deg. phase Prt 1	SM	2	LPU	E4JFT68B	E4JFT15A	1	4
E4JNFEA14802-	Jupiter Camp. feat. 148 deg. phase Prt 2	SM	2	LPU	E4JFT68B	E4JFT15A	1	4
E4JNFEA14803-	Jupiter Camp. feat. 148 deg. phase Prt 3	SM	2	LPU	E4JFT68B	E4JFT15A	1	4
E4NNHEALTH04-	E4 Health 4	LM	2	R/T	E4RCVY3		0	4
E4JNFEA53M01-(A)	Jupiter Campaign feature 5 & 3 um maps	LM	4	LPU	E4J35160	E4J35160	0	4
E4JNFEA53M01-(A)	Jupiter Campaign feature 5 & 3 um maps	LM	4	LPU	E4J35160	E4J35160	0	4
E4JNFEA5UM01-	Jupiter Campaign feat. 5 micron map # 2	LM	4	LPU	E4J5M253B	E4J5M80B	0	4
E4JNFEA5UM01-	Jupiter Campaign feat. 5 micron map # 2	LM	4	LPU	E4J5M253B	E4J5M80B	0	4
E4JNFEA16001-	Jupiter Camp. feat. 160 deg. phase Prt 1	SM	2	LPU	E4JFT68A	E4JFT04A	1	4
E4JNFEA16002-	Jupiter Camp. feat. 160 deg. phase Prt 2	SM	2	LPU	E4JFT68A	E4JFT04A	1	4
E4JNFEA16003-	Jupiter Camp. feat. 160 deg. phase Prt 3	SM	2	LPU	E4JFT68A	E4JFT04A	1	4
E4RNMRING 01-	Main Ring Observation	FM	4	LPU	E4RFM126	E4RFM001	0	4
E4RNMRING 01-	Main Ring Observation	FM	4	LPU	E4RFM126	E4RFM96	0	4
E4NNPCTCAL01-	NIMS PCT Calibration	LM	4	R/T	E4PCT252		0	4
J5NNOPCAL_01-	OPCAL	LM	4	R/T	OPCAL48		0	4

NIMS E4 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 Mbits (4% ohead)	Data Reduct Factor (sBOT/BTG)	Pass
E4ENSUCOMP01-	975.0634	192	1106	864	9.95	12.74	8.667	0	1.30	3.06	3.25	3
E4ENSUCOMP03-	677.9952	384	768	192	2.21	8.85	8.667	0	1.31	1.35	1.64	1
E4ENSUCOMP03-	677.9952	384	768	587	6.76	8.85	8.667	0	1.30	4.16	1.63	3
E4JNFEA09501-	95.2288	4	402	399	2.46	2.48	2.33	0	1.61	0.09	27.81	1
E4JNFEA09502-	95.2288	4	402	399	2.46	2.48	2.33	0	1.73	0.08	29.88	1
E4JNFEA09503-	7.3288	5	27	27	0.17	0.17	2.33	0	1.48	0.01	20.45	1
E4INCOOLCV02-	80.1100	10	338	51	0.31	2.08	0.333	2	1.64	0.19	1.62	1
E4INWARMCV03-	117.9656	10	499	96	0.59	3.08	0.333	2	2.50	0.24	2.47	3
E4INRTIMON02-		8					0.333	0				
E4INWARMCV04-	32.8784	10	136	53	0.33	0.84	0.333	2	2.50	0.13	2.47	1
E4GNGLOBAL01-	210.4204	204	236	90	1.04	2.72	8.667	2	2.35	0.19	5.53	1
E4JNFEA14801-	58.8968	15	247	243	1.50	1.52	2.33	0	2.63	0.12	12.11	1
E4JNFEA14802-	58.8968	15	247	243	1.50	1.52	2.33	0	2.66	0.12	12.25	1
E4JNFEA14803-	58.8968	15	247	243	1.50	1.52	2.33	0	2.63	0.12	12.11	1
E4NNHEALTH04-		3						0				
E4JNFEA53M01-(A)	338.5360	160	1440	61	0.38	8.88	8.667	0	1.44	0.16	2.31	1
E4JNFEA53M01-(A)	338.5360	160	1440	607	3.74	8.88	8.667	0	1.40	1.66	2.25	3
E4JNFEA5UM01-	453.3920	80	1930	122	0.75	11.90	8.667	0	1.23	0.19	3.95	1
E4JNFEA5UM01-	453.3920	80	1930	345	2.13	11.90	8.667	0	1.23	0.54	3.95	3
E4JNFEA16001-	28.8936	4	119	115	0.71	0.73	2.33	0	1.88	0.02	32.47	1
E4JNFEA16002-	29.8312	4	123	119	0.73	0.76	2.33	0	1.91	0.02	32.99	1
E4JNFEA16003-	25.1432	4	103	99	0.61	0.64	2.33	0	1.95	0.02	33.68	1
E4RNMRING 01-	431.5928	1	1837	61	0.38	11.33	4.333	0	0.96	0.00	123.35	1
E4RNMRING 01-	431.5928	96	1837	61	0.38	11.33	4.333	0	2.30	0.12	3.08	3
E4NNPCTRLT01-		252					8.667					
J5NNOPCAL_01-		48										
Total					50.36	148.79				17.52	As Modeled	
Allocated										21.72	Allocation	
Oversubscribed										-4.20	Over/under	

E4 Playback Events Timeline (10-30-96 to 2-16-97)

10-30-96: Strategy to begin playback with Europa close-approach observations is instigated.

11-12-96: NIMS playback table includes original estimates for data compression values.

12-04-96: New playback table reflects G1-G2 experience for compression values. Estimated downlink bits for Europa goes from 10 to 16 Mb. Although 6 Jupiter GLOMOS observations are to be recorded, downlink constraints dictate that only 1 (E4JNGLOMOS02) be brought down.

12-14-96: Tests (including power-cycling) indicate that the health of detector 8 remains poor.

12-16-96: A playback table update cycle was permitted during encounter week. As a science decision, an internal NIMS trade transferred 5 Mb of allocation from Io to Europa to enable return of the high-resolution surface composition observations. Small detector 8 monitoring playbacks of E4INHRSPEC01 and E4RNMRING01 were commanded. Some detector 8 wavelengths remain in playback commands for E4JNFEA05501 and E4JNGLOMOS01.

12-21-96: Start playback.

12-30-96: Playback is running 24 hours behind scheduled due to SSI undercompression. Europa SUCOMP data received in good shape.

01-10-96 Start Solar conjunction. No data playback occurs.

01-22-97: Playback table update during conjunction. E4ENASTERI01 is deleted from playback plan in order to get 100% of the area coverage of E4ENSUCOMP03. Small replays of data for E4JNGLOMOS02 are commanded to fill gaps in the data received.

01-28-96 End Solar conjunction. Restart data playback.

01-31-97: Playback table update. Playback of E4JNFEA5UM01 increased slightly.

02-05-97: Poor compression on E4JNFEASUB01 forces cut in spatial coverage of E4JNFEA01602.

02-10-97: Commands to playback E4ENXDARLI01 are tacked on to the end of the playback sequence just in case any bits remain after all planned data return is completed. Partial playback of E4INHRSPEC01 (96 wavelengths) is reinstated.

02-16-97: Playback is terminated. Failure by DSN personnel to send up the latest version of the playback table results in not receiving any data from E4ENXDARLI01.

There weren't any unplanned processor halts detected during the E4 Encounter. The lack of halts is partially due to the 10 reloads commanded throughout the encounter period. Detector 8 was tested and monitored for signs of life to no avail.

Processor Halts

Facts:

0. There were 6 realtime observations and ten reloads during the E4 Encounter.

1. Two NIMS processor halts were detected at SCLKs 03746396 and 03746572 from the analysis of the NIMS SCLK engineering telemetry channels S-1931 and S-1932. These both occurred during commanded processor halts in E4NNCHKSUM01 and E4NNFULMRO02. A table of the NIMS engineering SCLK values near the time of the Halts follows (Note that the NIMS engineering SCLK value is normally 2 Rims behind the CDS SCLK Rim when it is reported):

NIMS SCLK	CDS SCLK	CDS SCET	GROUND ERT
03746396	03746400.40	1996-353T23:03:59.965	1996-353T23:53:05.952
03746572	03746585.05	1996-354T02:10:39.959	1996-354T03:04:15.128

2. No unplanned processor halts were detected in the NIMS SCLK engineering or in the data.

3. Checksums of NIMS RAM and MROs of NIMS RAM were performed while the spacecraft was near perijove to try to catch NIMS in a halt state to help diagnose what causes the processor to halt. The activities were E4NNFULMRO01, E4NNCHKSUM01 and E4NNFULMRO02. The processor was not halted at the time of these activities, so nothing unusual was observed.

4. A Radiation study (MEMCHK01) during J5 was designed to continuously monitor the NIMS processor status over +/- 1 day of perijove. Checksums of NIMS RAM were made which were then written to NIMS RAM 1800 - 18FF. After solar conjunciton was over these locations were MRO'd to Earth. Unfortunately the MROs were not received because of a ground station problem. A subsequent NIMS reload wiped out the stored checksums.

Timing:

SCLK	Comments
03746397:06	37PL Halts the processor
03746400.40	Anomalous 03746396 SCLK reported
03746473:06	37MN Restarts the processor
03746573:06	37PL Halts the processor
03746585.05	Anomalous 03746572 SCLK reported
03746730:06	37MN Restarts the processor
03746802.58	Good SCLK 03746800 reported

NIMS Anomaly Report - E4 Sequence

Summary:

1. No unplanned processor halts were detected during the E4 Encounter.

2. Continous monitoring of the NIMS SCLK channels led to a rapid identification of NIMS processor halts that had occurred.

3. The 10 NIMS software reloads from CDS seemed to have protected all of the NIMS observations in this encounter.

4. Frequent NIMS realtime observations, both science observations and instrument health monitoring observations, verified that NIMS was functioning normally at various times throughout the encounter.

6. The error avoidance measures applied to the E4 Encounter as determined in the analysis of the G1, G2 and C3 processor halts, especially the 10 reloads, were shown to be the proper response for dealing with the inevitable occurrence of radiation-induced NIMS processor halts.

Detector 8 Failure

1. Detector 8 was observed to have unusual behavior in the two C3 outbound data and cruise calibrations.

2. Near the end of C3 Cruise, NIMS' power was turned off, then on, using 37AR and 37A commands. This was followed by a RAM reload. This was done to see if Detector 8 could be reset by a power cycle.

3. After the reload a modified OPCAL was performed which included detectors 1, 2, 7, 8 and 9. This was done to observe Detector 8's dark values compared to its neighboring detectors.

4. Detector 8 still returned alternating 0s and 1023s as before.

5. During playback some observations were returned with detector 8 selected for monitor purposes. Detector 8 still did not return any reasonable DN values.

6. The following observations have detector 8 selected:

E4NNOPCAL_01_R	E4JNFEA05501_A	E4INRTIMON01_R
E4JNRTHOTS01_R	E4JNFEA09503_A	E4INRTIMON02_R
E4GNGLOBAL01_A	E4NNPCTRLT01_R	

7. The following observations have only detector 8:

E4INHRSPEC01_A	E4RNMRING_01_A

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.