

# NIMS GUIDE TO THE G1 ORBIT

Original: June 1996

Revised: June 1998



G1 Encounter starts 6/23/96,

G1 Playback starts 6/30/96

VERSION DATE: 980601

## Foreword to the Revised Edition

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

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

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

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

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

## Acknowledgements

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

## Foreword to the Original Edition

This document serves as a guide to the G1 Orbit for the NIMS Team. The aim of this guide is to provide detailed information on the various NIMS G1 observations and calibrations. Also included in this document is background information on the G1 orbit. This guide was produced before the start of the G1 orbit. After analysis of the NIMS G1 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 G1 orbit. Chapter 2 gives an overview of the G1 orbit and summarizes the NIMS science objectives for the G1 orbit using tables, spreadsheets and timelines. Chapter 3 contains diagrams of various aspects of spacecraft geometry for the G1 orbit. Chapter 4 summarizes the NIMS G1 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 G1 orbit.

For more information on the G1 orbit, please refer to the Galileo Orbit Planning guide and the Galileo Orbit Activity Plan for the G1 Orbit. Both of these documents are produced by the Galileo Project.

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

## Table of Contents

	Chapter	Page
1.0	Introduction .....	1-01
2.0	Orbit Overview .....	2-01
3.0	Orbit Geometries .....	3-01
4.0	Sequence Summary .....	4-01
5.0	Detailed Observation Designs .....	5-01
6.0	Edit Tables .....	6-01
7.0	Data Return .....	7-01

# Chapter 1 - Introduction

## Contents

	Sub-Section	Page
1.0	Contents .....	1
1.1	Introduction .....	2
1.2	G1 Overview Timeline, Part 1 .....	3
1.3	G1 Overview Timeline, Part 2 .....	4

## Introduction

The G1 orbit is the first of eleven orbits in Galileo's Tour of the Jovian System. This orbit has a targeted satellite flyby of Ganymede and a non-targeted distant flyby of Europa. Some of Galileo's science objectives for this orbit are: 1) Perform a close Ganymede flyby to characterize the morphology, geology and physical state of the surface, investigate the surface mineralogy and distribution of compositional units, determine the gravitational field, magnetic field and dynamic properties, and study volatiles associated with the satellite, 2) Investigate the circulation and dynamics of the Jovian atmosphere, 3) Investigate the upper Jovian atmosphere and ionosphere, and 4) Perform in-situ measurements of the Jovian magnetosphere.

G1 is also the first time that the new Phase 2 flight software will be fully utilized. The NIMS Phase 2 flight software allows both spatial and spectral editing of the NIMS data before passing the data to CDS. The CDS Phase 2 flight software allows NIMS to record at a rate of 7.68 kbps (LPU and LNR formats) as well as the old rate of 28.8 kbps (MPW, etc.). CDS can further edit the NIMS data spectrally and compresses it before transmitting the recorded data to Earth. CDS also has a real time capability for transmitting NIMS data. The real time capabilities of the NIMS and CDS Phase 2 software were successfully tested during the In-Flight Load prior to G1.

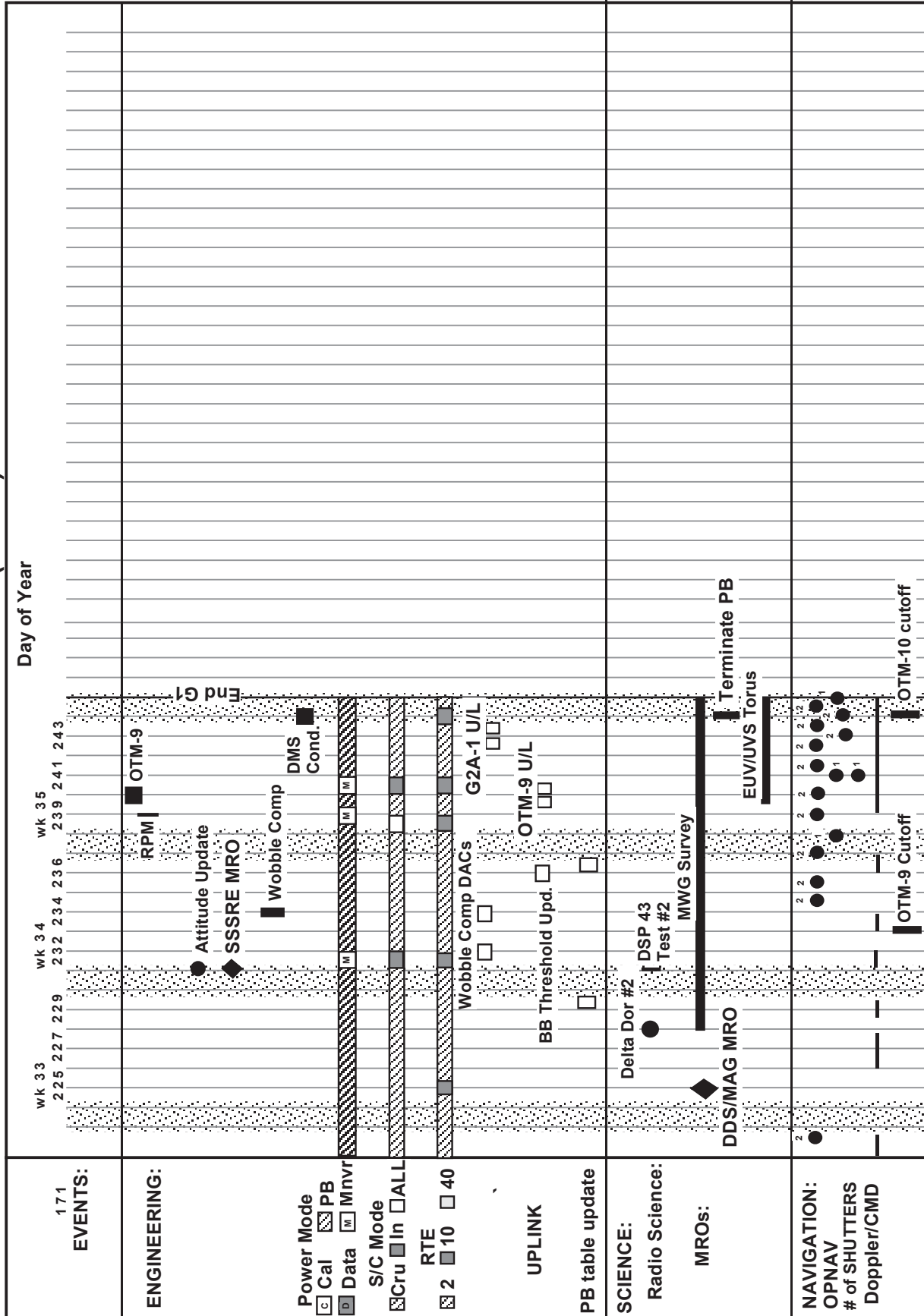
The G1 orbit is divided into 3 sequence loads: one Encounter load (G1A) and two Orbital Cruise loads (G1B and G1C). The Encounter Load, G1A, begins at the conclusion of the J0CD command load on D175 of 1996 (06/23/96) and ends on D182 (06/30/96). This load encompasses the period of all of the flybys of Jupiter and satellites and both the G1 -3 day OTM (OTM-6) and the G1 +3 day OTM (OTM-7). The first Cruise load, G1B, covers from D182 to D216 and has no associated OTMs. The second Cruise load, G1C, covers from D216 to D245 and encompasses both the G1 Apojove OTM (OTM-8) and the G2 -10 day OTM (OTM-9) and concludes at the start of the G2 Encounter Load, G2A. A high-level overview timeline of the G1 orbit can be found on the following two pages.

The following table lists the major events during G1, including NIMS Real Time observations, in UTC.

6/23/96	96-175/16:00:00	G1 Encounter Start
6/26/96	96-178/07:14:06	NIMS R/T Jupiter Jailbar Spectrum
6/27/96	96-179/06:29:04	Ganymede Closest Approach
6/27/96	96-179/13:12:36	Callisto Closest Approach
6/28/96	96-180/00:31:23	Jupiter Closest Approach
6/28/96	96-180/01:22:11	Europa Closest Approach
6/28/96	96-180/17:12:20	NIMS R/T Io Monitor Map 05
6/28/96	96-180/18:27:38	Io Closest Approach
6/29/96	96-181/11:28:22	NIMS R/T Io Monitor Map 07
6/30/96	96-182/04:30:00	G1 Encounter End
6/30/96	96-182/04:30:00	G1 Playback Start
9/01/96	96-245/16:00:00	G1 Playback End



# G1Overview (Part 2)





## Chapter 2 - Orbit Overview

### Contents

	Sub-Section	Page
2.0	Contents .....	1
2.1	Introduction to Chapter 2 .....	2
2.2	NIMS Science Objectives .....	3-4
2.3	NIMS Calibrations .....	5
2.4	Early Data Return .....	5
2.5	G1 Playback .....	5
2.6	NIMS Time-ordered Listing .....	6-7
2.7	NIMS G1 Observation Geometry Plot .....	8
2.8	NIMS Satellite Observation Geometry Plot .....	9
2.9	NIMS Jupiter Observation Geometry Plot .....	10
2.10	NIMS Calibration Geometry Plot .....	11
2.11	NIMS G1 Observing Geometry Table .....	12-14
2.12	NIMS G1 Resource Usage Spreadsheet .....	15-18
2.13	NIMS G1 Input Spreadsheet .....	19-21
2.14	G1 Tapemap .....	22-24
2.15	NIMS G1 Mosaic Summary .....	25-31

## Introduction to Chapter 2

This chapter gives an overview of the NIMS observations in the G1 Orbit.

The text on pages 3 and 4 summarizes the NIMS science objectives for G1. The NIMS calibrations, early data return and G1 playback are discussed on page 5.

The table on pages 6 and 7 is a time-ordered listing of the NIMS Oapels for G1.

The plots on pages 8, 9 and 10 show the geometry of the NIMS observations using a north trajectory pole view projection. The plot on page 11 shows the geometry of the NIMS G1 calibrations.

The table on pages 12, 13 and 14 lists the NIMS G1 observing parameters: target latitude/longitude, range, cone angle, incidence angle (light), emission angle (view) and phase angle.

The spreadsheets on pages 15, 16 and 17 summarize various inputs for the NIMS G1 observations.

The spreadsheets on pages 18, 19, 20 and 21 summarize the NIMS resource usage for the NIMS G1 observations.

The tapemap on pages 22, 23 and 24 shows the placement of the G1 observations on the spacecraft's tape recorder. The NIMS observation names are written with a larger type.

The NIMS G1 mosaic designs are summarized on pages 25 - 31 in time-order.

## NIMS G1 Science Overview

### Io Science

NIMS has many Io observations in G1, all full-disk or partial-disk mosaics. During G1, NIMS will obtain the tour's best view of Io's nightside. NIMS will observe Io's nightside at closest approach using the full spectral capability of NIMS (NNSPEC) to look for aurora and previously undetected species such as O<sub>2</sub>. A series of nightside observations (VOLCAN and THRMAL) is designed to map hot spots and to look for auroral features. A series of dayside observations (CHEMIS) will map the distribution of SO<sub>2</sub> frost on the surface and look for new species such as H<sub>2</sub>O and H<sub>2</sub>S. NIMS will observe Io during eclipse, in a coordinated effort with SSI and PPR (RCECLI). NIMS has two real time observations of Io (IOMON) to monitor hot spot activity in real time.

### Europa Science

There is a non-targeted flyby of Europa in G1. In this orbit NIMS has two observations of Europa (NHILAT and GLOBAL). The NHILAT observation maps Europa's entire leading hemisphere at high spectral resolution in Long Map mode and will return 228 wavelengths. This observation studies the global context of compositional units that are distributed over the surface and also gives a good opportunity to study the North polar region, which will allow NIMS to search for non-water volatiles. The second GLOBAL observation is a ride along with SSI over the same part of Europa as observed in the NHILAT observation, but in Fixed Map mode, returning 17 wavelengths. This observation will help co-register the NIMS NHILAT spectral map with the SSI GLOBAL map.

### Ganymede Science

Ganymede is the targeted satellite in G1. In this orbit, NIMS has ten observations of Ganymede. The GLOBAL observation maps out the entire Ganymede hemisphere at high spectral resolution to try to understand the global distribution of different compositional units. Identification of non-water materials, mineralogy of dark material, and correlation with the SSI coverage are goals of the MEMPHIS observation. Bright and dark rayed craters are observed to study the composition and age of the material, as well as differences between bright and dark material. The observations AMON and MIRRAY will also help us to understand the impactors that created the craters. Groove and furrow terrains of the Nippur Sulcus region are observed in NIPPUR to study the surface modification process. These NIMS observations are in Long Map mode and are expected to return 228 wavelengths. NIMS also rides along with SSI in three observations: Uruk Sulcus, Galileo Regio, and Memphis facula (URUSUL, GREGIO and MEMPHI). The combined wavelength spectrum covered by both NIMS and SSI in these joint observations will allow a better understanding of the composition and terrain of Ganymede's surface. These ride along observations are in Short Map mode and are expected to return 102 wavelengths. NIMS also participates in a Limbscan of Ganymede with UVS (LIMBSC) to study Ganymede's tenuous atmosphere in Fixed Spectrometer mode, returning 3 wavelengths.

## NIMS G1 Science Overview

### Callisto Science

There is one distant observation of Callisto in this orbit. This GLOBAL observation will obtain a global composition map of Callisto at the highest spectral resolution possible in Long Map mode, returning 228 wavelengths. This first look at Callisto will be used to aid in the selection of wavelength playback in subsequent orbits when Galileo is closer to Callisto.

### Jupiter Science

NIMS examines both Hot Spots (HOTMAP) (similar to the probe entry site) and the Great Red Spot (GRS) during the first orbital pass of Jupiter (G1). Hot Spots, located predominately in the North equatorial belt (NEB), are relatively cloud free regions wherein the planet's indigenous thermal radiation, produced relatively deep in the atmosphere, is allowed to escape. As it escapes, the radiation near 5 microns is modified by gas extinction due to trace amounts of absorbers such as phosphine, germane and water. NIMS spectra measure these absorptions, allowing the determination of the abundances and spatial variability of these chemically/photochemically active species. A primary goal of NIMS is to determine phosphine abundance and spatial variability: Phosphine (PH<sub>3</sub>) is a disequilibrium species that is unstable in the Jovian high troposphere where Earth-based observations have detected it. Its presence is thus a direct indicator of vertical transfer (i.e. upwelling) from the very deep Jovian interior (from about the 1000 bar, 1000 K level). By mapping the phosphine abundance over longitude and latitude, NIMS hopes to map the major upwelling regions of Jupiter's global circulation system.

#### Observations of the Hot Spots:

- 1 Real-Time Jail Bar (4 point spectra located near 7 lat, 85 lon)
- 2 Recorded Jail Bars (2 20-spectra jailbars, one at 7 lat, 93 lon, the other at 7 lat, 83 lon)
- 1 HOTMAP (Large, high spatial resolution spectral map extending from lon 330 to 370 (System III) )

NIMS observes the GRS, perhaps the most enigmatic feature of Jupiter, over a variety of lighting and viewing geometries to determine the vertical cloud structure and abundances of trace species (phosphine, germane and water) within the long-lived anticyclone. Observations acquired over 7 phase angles from 5 to 154 degrees will enable aerosol phase functions to be determined, useful for determining aerosol size and shape (observations in the 123, 141, and 154 phases should provide unique constraints on particle microphysical properties). Nighttime observations will allow exceptionally pristine views of PH<sub>3</sub> absorption, enabling unprecedented accuracy in PH<sub>3</sub> and H<sub>2</sub>O vapor abundance determinations. NIMS will also attempt to observe for the first time thermal emission in the 1.5-1.6 microns range - the shortest wavelength thermal observation yet obtained.

#### GRS observations include:

- 1 Recorded Jail bar located at -21 lat, 85 lon
- 11 "Feature track" oapels spread over 7 phase angles
- 3 observations of contiguous spectra, 1 in reflected sunlight and 2 thermal acquired under nighttime conditions.

## Calibration

There are three NIMS calibration observations in G1: One PCT and two RCT calibrations. The PCT calibration occurs towards the end of the G1A load. An Opical will also be performed at this time. This calibration is recorded. The first RCT calibration occurs near the start of the G1B load a few days after OTM-7 and will be returned using the new real time capability. The second RCT calibration occurs near the start of the G1C load after OTM-8 and will also be returned using real time. There aren't any explicit dark observations in G1. Dark values for all gain states used will be selected from off-limb scans. Also, an Opical was performed during the In-Flight Load just before the start of the JOCD load and returned via real time.

## Early Data Return

There are 5 realtime NIMS observations in G1: 1 Jupiter 408 wavelength jailbar observation (RTJBAR01), 2 Fixed Map Io Monitor observations (IOMON\_05, IOMON\_07) and 2 RCT calibrations. The Jupiter data will be returned on 6/27/96 (D178). The Io data will be returned on 6/28/96 and 6/29/96 (D180, D181). The calibration data will be returned on 7/04/96 and 8/06/96 (D186 and D219). NIMS will also participate in the SSI Ganymede closest approach early data return (GREGIO01) on 7/08/96 (D190).

## G1 Playback

G1 playback will start 7/01/96 (D189) with the SSI Ganymede closest approach data in the middle of track 3. The tape will then be repositioned to the start of track 1 for the playback of the remaining JOCD data. The G1 playback will start at the beginning of track 2 and playback through the end of track 4. The start time of the G1 track 2 playback is unknown at this time, but should start about the third week of July. G1 playback is scheduled to end on 9/01/96 (D245).

G1 Time-Ordered Listing

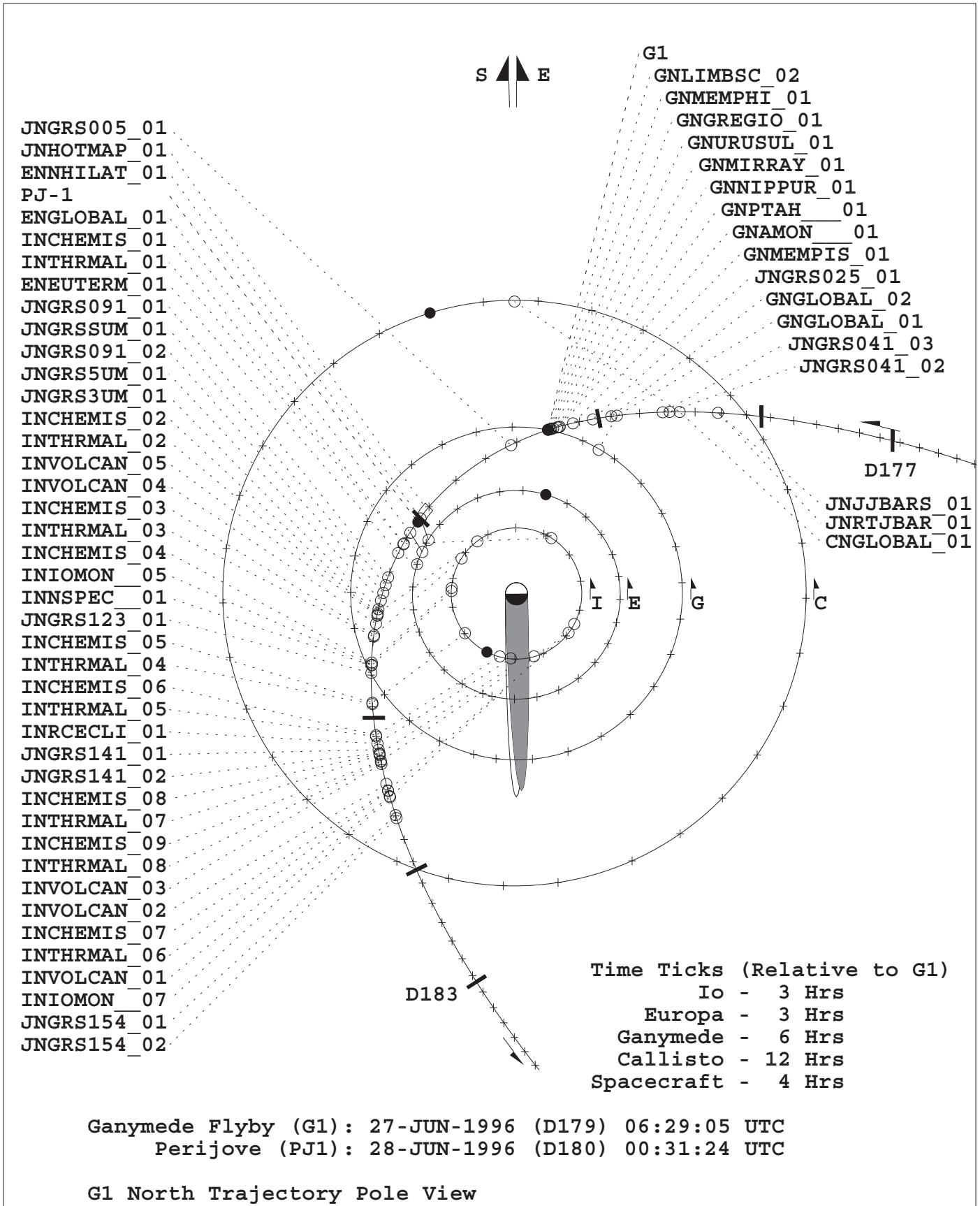
OAPEL	Start (UTC)	End (UTC)	Duration
G1NNCHOPON01-	96-176/03:10:00	96-176/03:20:00	000/00:10:00
G1JNJJBARS01-	96-178/06:59:57	96-178/07:06:01	000/00:06:04
G1JNRTJBAR01-	96-178/07:14:06	96-178/07:21:11	000/00:07:04
G1CNGLOBAL01-	96-178/12:37:40	96-178/12:43:44	000/00:06:04
G1JNGRS04102-	96-178/14:11:42	96-178/14:24:50	000/00:13:08
G1JNGRS04103-	96-178/15:13:22	96-178/15:21:24	000/00:08:02
G1GNGLOBAL01-	96-178/21:23:26	96-178/21:53:45	000/00:30:18
G1GNGLOBAL02-	96-178/22:12:59	96-178/22:28:46	000/00:15:47
G1JNGRS02501-	96-179/00:37:34	96-179/00:49:42	000/00:12:08
G1GNMEMPIS01-	96-179/03:10:15	96-179/03:24:24	000/00:14:09
G1GNAMON__01-	96-179/04:59:27	96-179/05:08:33	000/00:09:06
G1GNPTAH__01-	96-179/05:08:33	96-179/05:16:38	000/00:08:05
G1GNNIPPUR01-	96-179/05:16:38	96-179/05:31:48	000/00:15:10
G1GNMIRRAY01-	96-179/05:52:02	96-179/06:04:10	000/00:12:08
G1GNURUSUL01*	96-179/06:04:10	96-179/06:09:13	000/00:05:03
G1GNREGIO01*	96-179/06:09:13	96-179/06:10:14	000/00:01:00
G1GNMEMPHI01*	96-179/06:19:20	96-179/06:22:22	000/00:03:02
G1GNLIMBSC02*	96-179/06:22:22	96-179/06:27:25	000/00:05:03
G1JNGRS00501-	96-179/11:16:36	96-179/11:32:36	000/00:16:00
G1JNHOTMAP01-	96-179/22:26:58	96-179/23:48:52	000/01:21:54
G1ENNHILAT01-	96-179/23:56:57	96-180/00:32:05	000/00:35:08
G1ENGLOBAL01*	96-180/01:42:06	96-180/01:55:15	000/00:13:08
G1INCHEMIS01-	96-180/03:09:04	96-180/03:13:08	000/00:04:04
G1INTHRMAL01-	96-180/03:14:07	96-180/03:16:32	000/00:02:25
G1ENEUTERM01-	96-180/03:42:26	96-180/03:48:30	000/00:16:04
G1JNGRS09101-	96-180/06:59:36	96-180/07:10:42	000/00:11:06
G1JNGRSSUB01-	96-180/07:36:00	96-180/08:31:00	000/00:55:00
G1JNGRS09102-	96-180/08:43:44	96-180/08:59:45	000/00:16:00
G1JNGRS5UM01-	96-180/09:31:16	96-180/10:09:16	000/00:38:00
G1JNGRS3UM01-	96-180/10:17:46	96-180/10:51:08	000/00:33:22
G1INCHEMIS02-	96-180/11:16:25	96-180/11:20:46	000/00:04:21
G1INTHRMAL02-	96-180/11:21:28	96-180/11:26:06	000/00:04:38
G1INVOLCAN05-	96-180/11:26:32	96-180/11:30:49	000/00:04:17
G1INVOLCAN04-	96-180/12:23:09	96-180/12:27:26	000/00:04:17

G1 Time-Ordered Listing

OAPEL	Start (UTC)	End (UTC)	Duration
G1INCHEMIS03-	96-180/13:45:03	96-180/13:50:35	000/00:05:32
G1INTHRMAL03-	96-180/13:52:08	96-180/13:58:36	000/00:06:28
G1INCHEMIS04-	96-180/17:00:12	96-180/17:11:41	000/00:11:29
G1INIOMON_05-	96-180/17:12:20	96-180/17:16:30	000/00:04:10
G1INNSPEC_01-	96-180/17:17:23	96-180/17:22:00	000/00:04:36
G1JNGRS12301-	96-180/18:13:00	96-180/18:21:02	000/00:08:02
G1INCHEMIS05-	96-180/22:00:30	96-180/22:05:46	000/00:05:16
G1INTHRMAL04-	96-180/22:06:34	96-180/22:11:40	000/00:05:06
G1INCHEMIS06-	96-181/02:24:24	96-181/02:28:45	000/00:04:21
G1INTHRMAL05-	96-181/02:29:27	96-181/02:35:18	000/00:05:51
G1INRCECLI01-	96-181/03:31:08	96-181/03:36:11	000/00:05:03
G1JNGRS14101-	96-181/04:18:39	96-181/04:28:40	000/00:10:00
G1JNGRS14102-	96-181/04:42:55	96-181/04:52:56	000/00:10:00
G1INCHEMIS08-	96-181/05:00:06	96-181/05:04:11	000/00:04:04
G1INTHRMAL07-	96-181/05:05:10	96-181/05:07:35	000/00:02:25
G1INCHEMIS09-	96-181/05:59:46	96-181/06:03:50	000/00:04:04
G1INTHRMAL08-	96-181/06:04:49	96-181/06:07:14	000/00:02:25
G1INVOLCAN03-	96-181/06:23:01	96-181/06:26:36	000/00:03:34
G1INVOLCAN02-	96-181/09:23:00	96-181/09:27:34	000/00:04:34
G1INCHEMIS07-	96-181/10:25:41	96-181/10:29:39	000/00:03:58
G1INTHRMAL06-	96-181/10:30:44	96-181/10:34:54	000/00:04:10
G1INVOLCAN01-	96-181/11:22:18	96-181/11:25:20	000/00:03:02
G1INIOMON_07-	96-181/11:28:22	96-181/11:32:33	000/00:04:10
G1JNGRS15401-	96-181/14:23:18	96-181/14:31:18	000/00:08:00
G1JNGRS15402-	96-181/14:43:31	96-181/14:48:32	000/00:05:00
G1NNPCTCAL01-	96-181/15:14:52	96-181/16:54:59	000/01:40:07
G1NNCHOPOF01-	96-181/19:17:32	96-181/19:27:38	000/00:10:06
G1NNSHDOFF01-	96-184/11:21:46	96-186/00:16:06	001/12:54:20
G1NNRCTRLT01-	96-186/00:16:06	96-186/13:14:39	000/12:58:33
G1NNOPCAL_01-	96-201/05:12:00	96-201/05:22:00	000/00:10:00
G1NNOPCAL_02-	96-208/03:47:00	96-208/03:54:00	000/00:07:00
G1NNCHOP0F02-	96-208/04:37:00	96-208/05:10:00	000/00:33:00
G1NNSHDOFF02-	96-217/04:55:42	96-218/17:50:02	001/12:54:20
G1NNRCTRLT02-	96-218/17:50:02	96-219/06:48:35	000/12:58:33
G1NNPCTRLT01-	96-222/07:59:00	96-224/15:52:00	002/07:53:00

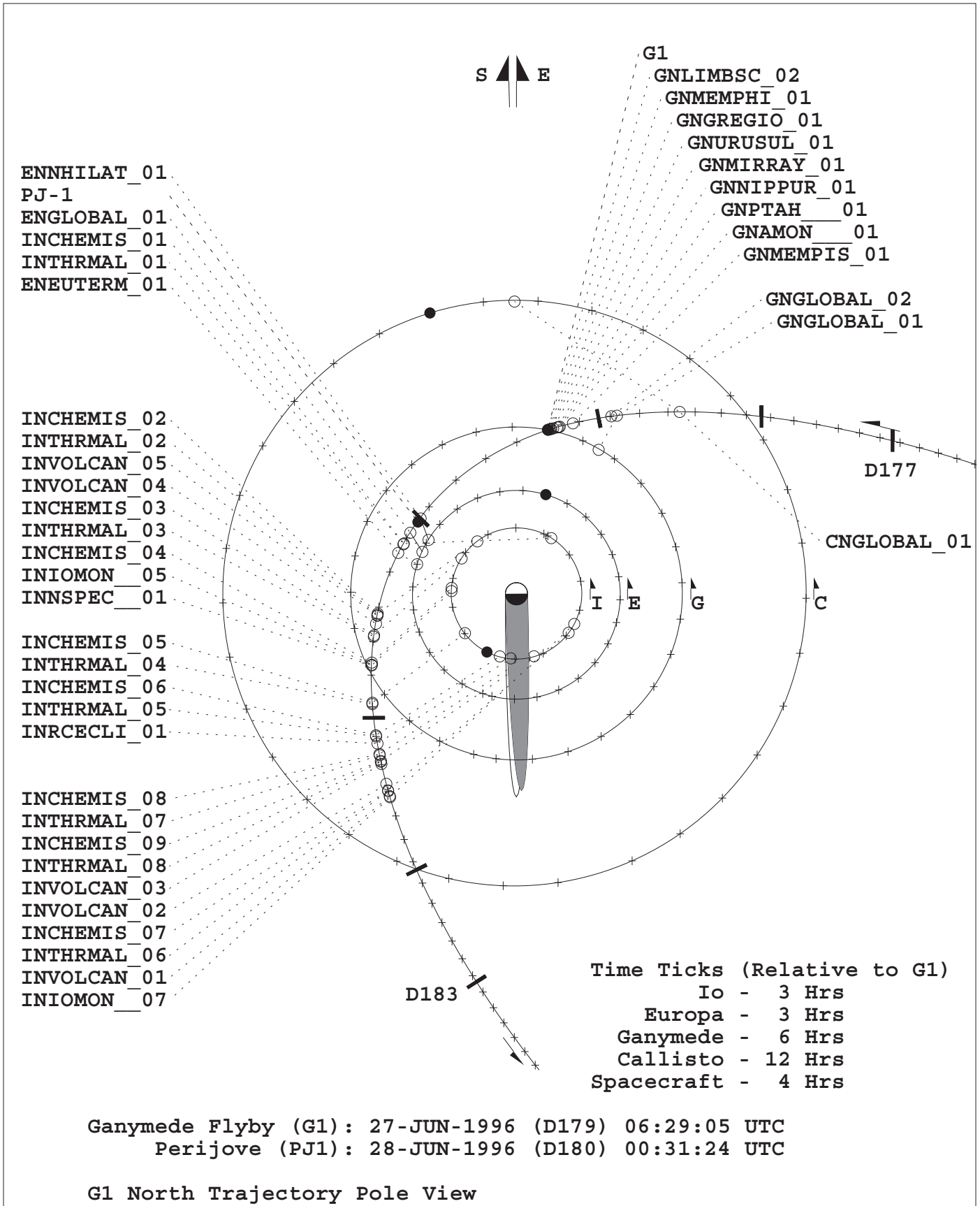


# NIMS G1 OBSERVATIONS

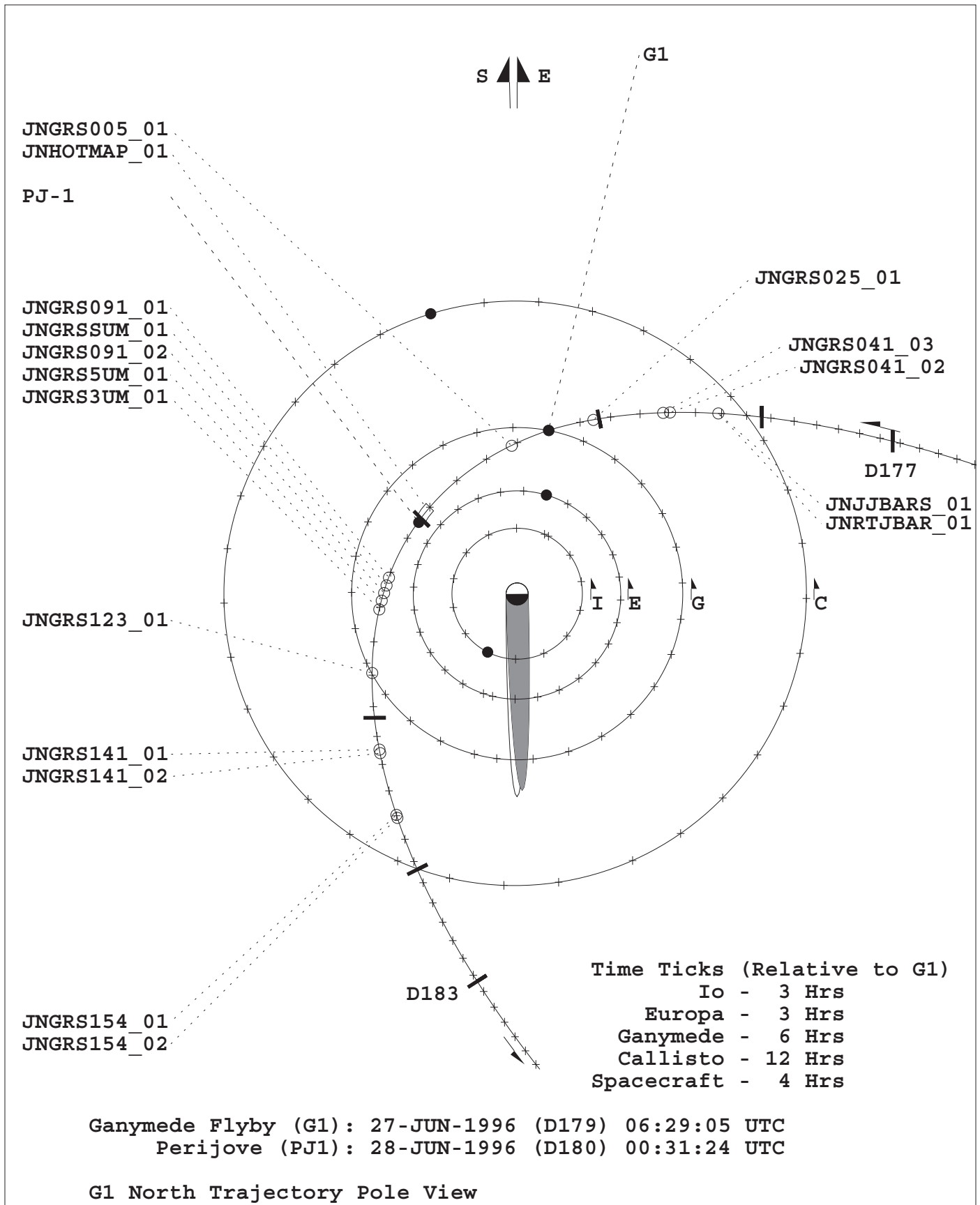




# NIMS G1 SATELLITE OBSERVATIONS



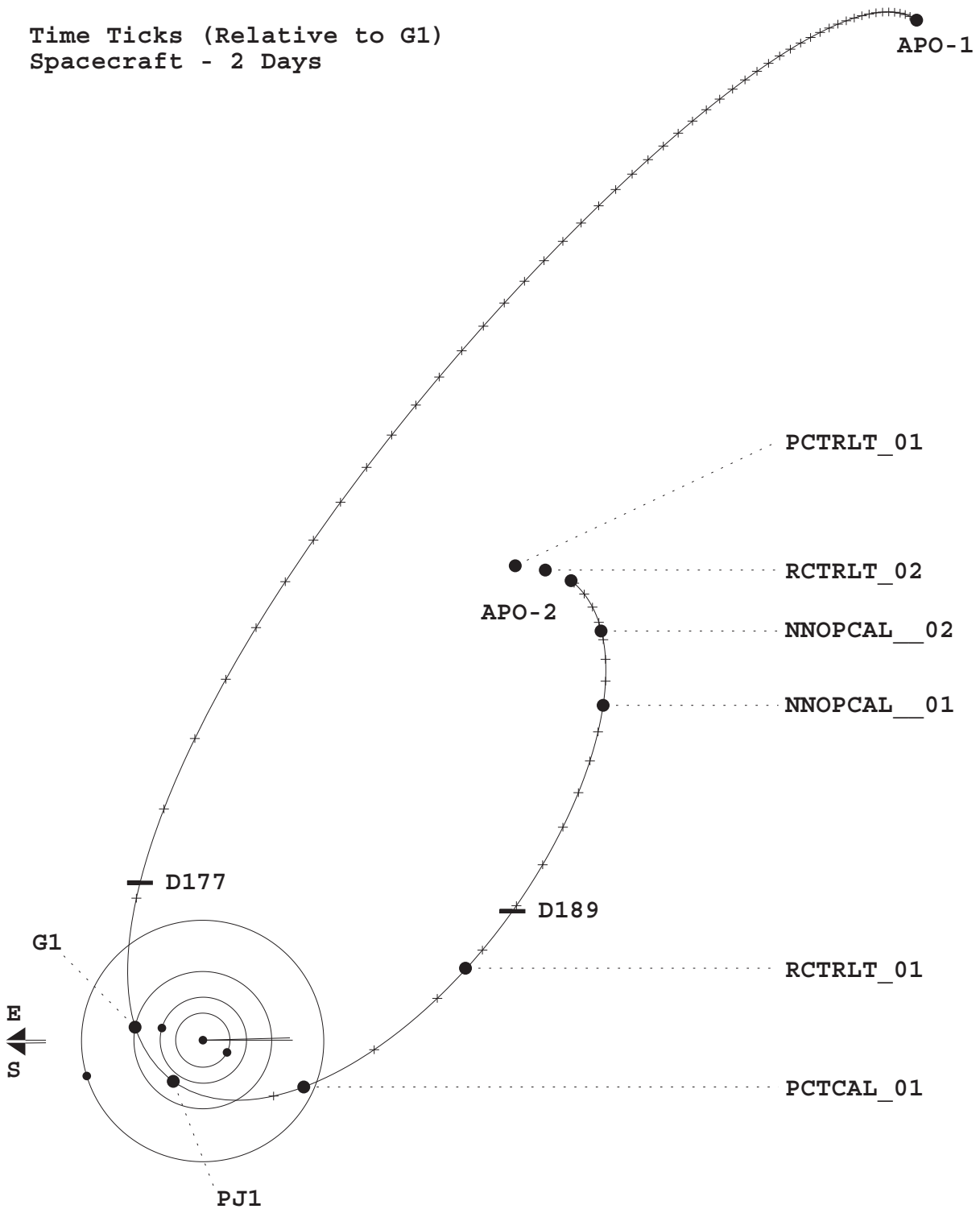
# NIMS G1 JUPITER OBSERVATIONS



# NIMS G1 CALIBRATIONS

Ganymede Flyby (G1): 27-JUN-1996 (D179) 06:29:05 UTC  
 Perijove (PJ1): 28-JUN-1996 (D180) 00:31:24 UTC

Time Ticks (Relative to G1)  
 Spacecraft - 2 Days



G1 North Trajectory Pole View, Apoapsis to Apoapsis

NIMS G1 OBSERVING GEOMETRY

OAPEL	Latitude (deg)	Longitude (deg)	Range (km)	Cone (deg)	Light (deg)	View (deg)	Phase (deg)
GLJNJJBARS01	0 to +14	93	1,670K	132	59	15	48
	0 to +14	83	1,670K	132	49	11	48
	-28 to -14	84	1,670K	132	51	18	48
GLJNRTJBAR01	0 to +14	85	1,660K	132	42	13	48
GLCNGLOBAL01	-90 to +90	212 to 309	1,310K	56	33 to 130	7 to 90	123
GLJNGRS04102	-9 to -37	280 to 342	1,460K	139	14 to 49	16 to 58	40
GLJNGRS04103	-10 to -35	290 to 338	1,460K	139	16 to 53	38 to 90	41
GLCNGLOBAL01	-30 to +90	90 to 270	244K	150	0 to 114	0 to 90	29
GLCNGLOBAL02	-90 to -15	90 to 270	244K	150	0 to 114	0 to 90	29
GLJNGRS02501	-33 to -12	295 to 340	1,160K	156	16 to 34	18 to 52	25
GLGNMEMPIS01	0 to +30	105 to 165	85K	150	9 to 53	33 to 81	29
GLGNAMON__01	+27 to +40	215 to 230	36K	155	59 to 64	51 to 53	24
GLGNPTAH__01	-80 to -60	170 to 220	33K	155	67 to 70	64 to 66	24
GLGNNIPPUR01	+22 to +33	173 to 186	26K	154	30 to 31	35 to 43	25
GLGNMIRRAY01	-6 to -3	228 to 235	11K	173	57 to 65	53 to 54	7
GLGNURUSUL01	+10	168	7.5K	196	13	23	16
GLCNGREGIO01	+18	148	7.6K	201	29	47	20
GLGNMEMPHI01	+16	135	3.1K	196	39	15	17
GLGNLIMBSC02	-12 to +14	146 to 186	2K	90	0 to 30	61 to 108	90
GLJNGRS00501	-32 to -15	308 to 330	890K	177	24 to 36	26 to 40	5
GLJNHOTMAP01	+5 to +15	330 to 370	720K	132	38 to 76	6 to 31	44 to 50

NIMS G1 OBSERVING GEOMETRY

OAPEL	Latitude (deg)	Longitude (deg)	Range (km)	Cone (deg)	Light (deg)	View (deg)	Phase (deg)
GLENNHILLAT01	-60 to +90	135 to 300	156K	150	0 to 90	9 to 90	31
GIENGLOBAL01	-15 to +90	165 to 300	156K	150	0 to 90	9 to 90	31
GINCHEMIS01	-90 to +90	49 to 146	946K	87	3 to 99	7 to 90	92
GINTHERMAL01	-90 to +90	326 to 64	792K	87	85 to 176	7 to 90	92
GIJNGRS09101	-32 to -15	302 to 350	800K	93	20 to 40	57 to 92	87
GIJNGRSSUB01	-32 to -15	300 to 340	800K	91	25 to 84	27 to 76	89
GIJNGRS09102	-32 to -16	308 to 342	800K	89	61 to 96	26 to 44	91
GIJNGRS5UM01	-32 to -14	304 to 328	814K	89	107 to 125	30 to 52	90
GIJNGRS3UM01	-32 to -15	290 to 335	840K	88	118 to 152	37 to 91	92
GINCHEMIS02	-90 to +90	88 to 181	793K	53	36 to 129	4 to 90	126
GINTHERMAL02	-90 to +90	2 to 123	792K	53	94 to 176	2 to 90	126
GINVOLCAN05	-90 to +90	3 to 122	791K	53	96 to 172	3 to 90	126
GINVOLCAN04	-90 to +90	8 to 127	773K	51	99 to 172	3 to 90	128
GINCHEMIS03	-90 to +90	109 to 197	745K	48	41 to 129	2 to 90	131
GINTHERMAL03	-90 to +90	18 to 152	743K	48	88 to 178	2 to 90	131
GINCHEMIS04	-90 to +90	133 to 223	700K	47	43 to 133	0 to 90	133
GINIOMON_05	-90 to +90	43 to 143	701K	47	116 to 145	35 to 90	132
GINNSPEC_01	-90 to +90	46 to 183	700K	47	85 to 175	0 to 90	132
GIJNGRS12301	-34 to -14	306 to 340	1,020K	58	54 to 75	51 to 77	122

NIMS G1 OBSERVING GEOMETRY

OAPEL	Latitude (deg)	Longitude (deg)	Range (km)	Cone (deg)	Light (deg)	View (deg)	Phase (deg)
G1INCHEMIS05	-90 to +90	184 to 272	745K	53	36 to 124	5 to 90	126
G1INTHRMAL04	-90 to +90	93 to 229	747K	53	79 to 176	0 to 90	126
G1INCHEMIS06	-90 to +90	229 to 313	947K	90	32 to 116	6 to 90	122
G1INTHRMAL05	-90 to +90	134 to 252	952K	90	94 to 167	4 to 90	122
G1INRCECLI01	-90 to +90	143 to 268	1,020K	90	86 to 167	7 to 90	122
G1JNGRS14101	-37 to -12	287 to 330	1,300K	72	52 to 100	43 to 91	141
G1JNGRS14102	-38 to -10	293 to 350	1,310K	72	54 to 109	34 to 90	141
G1INCHEMIS08	-90 to +90	270 to 315	1,124K	89	52 to 97	25 to 70	123
G1INTHRMAL07	-90 to +90	180 to 314	1,113K	89	53 to 171	7 to 69	123
G1INCHEMIS09	-90 to +90	273 to 325	1,200K	88	51 to 103	20 to 72	124
G1INTHRMAL08	-90 to +90	185 to 319	1,204K	88	57 to 176	8 to 73	124
G1INVOLCAN03	-90 to +90	165 to 344	1,227K	88	34 to 178	8 to 90	124
G1INVOLCAN02	-90 to +90	186 to 365	1,466K	55	39 to 177	1 to 90	128
G1INCHEMIS07	-90 to +90	288 to 354	1,550K	53	59 to 125	5 to 71	131
G1INTHRMAL06	-90 to +90	193 to 373	1,556K	53	41 to 169	10 to 90	131
G1INVOLCAN01	-90 to +90	19 to 199	1,624K	52	42 to 174	6 to 90	132
G1INIOMON_07	-90 to +90	22 to 197	1,635K	51	74 to 108	90	133
G1JNGRS15401	-37 to -10	292 to 330	1,590K	32	63 to 96	57 to 91	154
G1JNGRS15402	-37 to -10	305 to 335	1,600K	32	63 to 96	57 to 91	154

# NIMS G1 Resource Usage

Observation	NIMS mode	Record mode	Obs. Cost	Obs. Cost	Number λ	Observation record time (sec)	Bits of Tape BOT (Mbit)	Mode cycle time (sec)	Total MbitTG (w/ 4% overhead)	Data Reduction Factor	Real Time Mub level	
Act ID (Title)	SAFE		Tracks	Ticks	return	time (sec)		(sec)	(2 compress)	(BOT/BIG)		
G1NCHOPON01 -	SAFE											
G1JNJJEARS01 -	LM	MPW	0.0122	85	408	94	1.08	8.667	0.460	2.4		
G1JNRTJBAR01 -	LM	R/T	<b>Time in RIMS</b>			408	1	0	8.667	0.016	1.0	3.27%
G1CNGLOBAL01 -	LM	LPU	0.0030	21	228	82	0.51	8.667	0.224	2.3		
G1JNGRS04102 -	SM	LPU	0.0221	154	19	650	4.01	2.33	0.551	7.3		
G1JNGRS04103 -	SM	LPU	0.0122	85	19	354	2.18	2.33	0.300	7.3		
G1GNGLOBAL01 -	LM	LPU	0.0771	538	228	2287	14.11	8.667	6.257	2.3		
G1JNGRS02501 -	SM	LPU	0.0225	157	4	660	4.07	2.33	0.118	34.5		
G1GNMEMPIS01 -	LM	LPU	0.0166	116	228	485	2.99	8.667	1.327	2.3		
G1GNAMON 01 -	LM	LPU	0.0102	71	228	296	1.83	8.667	0.810	2.3		
G1GNPTAH 01 -	LM	LPU	0.0082	57	228	235	1.45	8.667	0.643	2.3		
G1GNPIPUR01 -	LM	LPU	0.0227	158	228	667	4.11	8.667	1.825	2.3		
G1GNMTRRAY01 -	LM	LPU	0.0183	127	228	535	3.30	8.667	1.464	2.3		
			<b>0.2251</b>	<b>1570</b>								
G1GNURUSUL01 *	SM	IM4			102	33	0.38	2.33	0.150	2.5		
G1GNREGIO01 *	SM	IM4			102	36	0.41	2.33	0.164	2.5		
G1GNMEMPHI01 *	SM	HIS			102	45	0.52	2.33	0.205	2.5		
G1GNLIMBSC02 *	XS	MPW			3	181	2.09	0.1667	0.339	6.2		
G1JNGRS00501 -	SM	LPU	0.0238	166	4	700	4.32	2.33	0.125	34.5		
G1JNHOTMAP01 -	LM	LPU	0.1103	770	238	3276	20.21	8.667	9.356	2.2		
			<b>0.1342</b>	<b>936</b>								
G1ENNHILAT01 -	LM	LPU	0.0610	426	228	1808	11.15	8.667	4.946	2.3		
G1ENGLOBAL01 *	XM	HCA			17	26	0.30	0.333	0.138	2.2		
G1INCHEMIS01 -	LM	LPU	0.0023	16	228	60	0.37	8.667	0.164	2.3		
G1INTHRMAL01 -	XM	LPU	0.0005	4	10	7	0.04	0.333	0.022	2.0		
G1JNGRS09101 -	SM	LPU	0.0110	77	4	318	1.96	2.33	0.057	34.5		
G1JNGRSSUB01 -	LM	LPU	0.1067	745	80	3168	19.54	8.667	3.041	6.4		
G1JNGRS09102 -	SM	LPU	0.0243	170	4	716	4.42	2.33	0.128	34.5		
G1JNGRS5UM01 -	LM	LPU	0.0725	505	80	2148	13.25	8.667	2.062	6.4		
G1JNGRS3UM01 -	LM	LPU	0.0655	457	160	1942	11.98	8.667	3.728	3.2		
G1INCHEMIS02 -	LM	LPU	0.0026	18	102	68	0.42	8.667	0.083	5.0		
G1INTHRMAL02 -	LM	LPU	0.0035	25	102	96	0.59	8.667	0.117	5.0		
G1INVOLCAN05 -	XM	LPU	0.0006	4	10	9	0.06	0.333	0.028	2.0		

# NIMS G1 Resource Usage

Observation Name	NIMS mode	Record mode	Obs. Cost	Obs. Ticks	Number λ	Observation return	Bits of BOT (Mbit)	Mode cycle time (sec)	Total MbitTG (w/ 4% overhead)	Data Reduction Factor (BOT/BIG)	Real Time Mub level	
G1INVOLCAN04	XM	LPU	0.0006	4	10	9	0.06	0.333	0.028	2.0	2.0	
G1INCHEMIS03	LM	LPU	0.0033	23	102	89	0.55	8.667	0.109	5.0	5.0	
G1INTHRMAL03	LM	LPU	0.0072	50	102	205	1.26	8.667	0.251	5.0	5.0	
G1INCHEMIS04	LM	LPU	0.0045	31	228	125	0.77	8.667	0.342	2.3	2.3	
G1INCOMON_05	XM	R/T	<b>Time in RIMS</b>			8	1	0.00	0.333	0.016	1.0	3.27%
G1INNSPEC_01	LM	MPW	0.0204	142	408	159	1.83	8.667	0.778	2.4	2.4	
G1JNGRS12301	SM	LPU	0.0081	56	15	232	1.43	2.33	0.155	9.2	9.2	
G1INCHEMIS05	LM	LPU	0.0045	31	102	125	0.77	8.667	0.153	5.0	5.0	
G1INTHRMAL04	XM	LPU	0.0006	4	10	9	0.06	0.333	0.028	2.0	2.0	
G1INCHEMIS06	LM	LPU	0.0027	19	102	72	0.44	8.667	0.088	5.0	5.0	
G1INTHRMAL05	XM	LPU	0.0006	4	10	8	0.05	0.333	0.025	2.0	2.0	
G1INRTECLI01	XM	LPU	0.0006	4	10	8	0.05	0.333	0.025	2.0	2.0	
G1JNGRS14101	SM	LPU	0.0151	106	15	442	2.73	2.33	0.296	9.2	9.2	
G1JNGRS14102	SM	LPU	0.0161	113	15	472	2.91	2.33	0.316	9.2	9.2	
G1INCHEMIS08	LM	LPU	0.0014	10	228	33	0.20	8.667	0.090	2.3	2.3	
G1INTHRMAL07	XM	LPU	0.0005	4	10	7	0.04	0.333	0.022	2.0	2.0	
G1INCHEMIS09	LM	LPU	0.0014	10	228	33	0.20	8.667	0.090	2.3	2.3	
G1INTHRMAL08	XM	LPU	0.0005	4	10	7	0.04	0.333	0.022	2.0	2.0	
G1INVOLCAN03	XM	LPU	0.0006	4	10	8	0.05	0.333	0.025	2.0	2.0	
G1INVOLCAN02	XM	LPU	0.0005	4	10	7	0.04	0.333	0.022	2.0	2.0	
G1INCHEMIS07	LM	LPU	0.0014	10	102	33	0.20	8.667	0.040	5.0	5.0	
G1INTHRMAL06	XM	LPU	0.0005	4	10	7	0.04	0.333	0.022	2.0	2.0	
G1INVOLCAN01	XM	LPU	0.0005	4	10	7	0.04	0.333	0.022	2.0	2.0	
G1INCOMON_07	XM	R/T	<b>Time in RIMS</b>			8	1	0.00	0.333	0.016	1.0	3.27%
G1JNGRS15401	SM	LPU	0.0078	55	15	224	1.38	2.33	0.150	9.2	9.2	
G1JNGRS15402	SM	LPU	0.0062	43	15	176	1.09	2.33	0.118	9.2	9.2	
G1NNPCTCAL01	LM	LPU	0.0186	130	252	546	3.37	8.667	1.651	2.0	2.0	
G1NNRCTRLT01	LM	R/T	<b>Time in RIMS</b>			252	4	0.00	8.667	0.040	1.0	8.07%
G1NNRCTRLT02	LM	R/T	<b>Time in RIMS</b>			252	4	0.00	8.667	0.040	1.0	8.07%
							149.67		43.832		0.13	
			0.4747	3312								
			0.8339	5818								



# NIMS G1 Resource Usage

<b>G1 Bits to Ground (MBITS)</b>					
<b>Observation Name</b>	<b>Calibration</b>	<b>Atmosphere</b>	<b>Ganymede</b>	<b>Io</b>	<b>Europa Callisto</b>
G1NNCHOPON01-					
G1JNJJEARS01-		0.46			
G1JNRTJBAR01-		0.02			
G1CNGLOBAL01-					0.22
G1JNGRS04102-		0.55			
G1JNGRS04103-		0.30			
G1NGGLOBAL01-			6.26		
G1JNGRS02501-		0.12			
G1GNMEMPHIS01-			1.33		
G1GNAMON_01-			0.81		
G1GNPTAH_01-			0.64		
G1GNIPPUR01-			1.82		
G1GNMTRRAY01-			1.46		
G1GNURUSUL01*			0.15		
G1NGREGIO01*			0.16		
G1GNMEMPHI01*			0.20		
G1GNLIMBSC02*			0.34		
G1JNGRS00501-		0.12			
G1JNHOTMAP01-		9.36	It use to have 11.393 MBTG.		
G1ENNHILAT01-			4.95		
G1ENGLOBAL01*			0.14		
G1INCHEMIS01-			0.16		
G1INTHRMAL01-			0.02		
G1JNGRS09101-		0.06			
G1JNGRSSUB01-		3.04			
G1JNGRS09102-		0.13			
G1JNGRS5UM01-		2.06			
G1JNGRS3UM01-		3.73			
G1INCHEMIS02-			0.08		
G1INTHRMAL02-			0.12		
G1INVOLCAN05-			0.03		

# NIMS G1 Resource Usage

<i>G1 Bits to Ground (MBITS)</i>						
Observation Name	Calibration	Atmosphere	Ganymede	Io	Europa	Callisto
G1INVOLCAN04-				0.03		
G1INCHEMIS03-				0.11		
G1INTHRMAL03-				0.25		
G1INCHEMIS04-				0.34		
G1INIOMON_05-				0.02		
G1INNSPEC_01-				0.78		
G1JNGRS12301-		0.16				
G1INCHEMIS05-			0.15			
G1INTHRMAL04-			0.03			
G1INCHEMIS06-			0.09			
G1INTHRMAL05-			0.02			
G1INRTECLI01-			0.02			
G1JNGRS14101-		0.30				
G1JNGRS14102-		0.32				
G1INCHEMIS08-			0.09			
G1INTHRMAL07-			0.02			
G1INCHEMIS09-			0.09			
G1INTHRMAL08-			0.02			
G1INVOLCAN03-			0.02			
G1INVOLCAN02-			0.02			
G1INCHEMIS07-			0.04			
G1INTHRMAL06-			0.02			
G1INVOLCAN01-			0.02			
G1INIOMON_07-			0.02			
G1JNGRS15401-		0.15				
G1JNGRS15402-		0.12				
G1NNPCTCAL01-	1.65					
G1NNRCTRLT01-	0.04					
G1NNRCTRLT02-	0.04					
<b>TOTAL MBGT</b>	<b>1.73</b>	<b>20.98</b>	<b>13.18</b>	<b>2.63</b>	<b>5.08</b>	<b>0.22</b>
						<b>43.83</b>
	<b>3.28</b>	<b>17.29</b>	<b>21.13</b>	<b>3.13</b>	<b>3.77</b>	<b>0.95</b>
These are original G1 3.1 Track case MBTG.						
						<b>49.55</b>

## NIMS G1 Input

Activity ID	Observation Title	Mode	Gain	Record Format	NIMS Edit Table	NIMS Playback Table	Extra Detectors	Grating Start Position	Grating Offset
G1JNJBARS01-	JJBARS	LM	2	MPW	G1JFE442A	G1JFE408A		0	4
G1JNRTJBAR01-	Real Time Jupiter Jailbars #1	LM	2	Real Time	G1JFE442A	Real Time		0	4
G1CNGLOBAL01-	Callisto Global Composition Map	LM	4	LPU	G1CLM245	G1CLM228	11,12	0	4
G1JNGRS04102-	GRS 41 Phase #2	SM	2	LPU	G1JFT68C	G1JFT19A		1	4
G1JNGRS04103-	GRS 41 Phase #3	SM	2	LPU	G1JFT68C	G1JFT19A		1	4
G1GNGLOBAL01-	GANYMEDE GLOBAL SURFACE MAP	LM	2	LPU	G1GLM245D	G1GLM228	5,6	0	4
G1JNGRS02501-	GRS 25 Phase #1	SM	2	LPU	G1JFT68A	G1JFT04A		1	4
G1GNMEMPIS01-	Memphis Facula Furrows/Palimpsest	LM	3	LPU	G1GLM245F	G1GLM228	13,14	0	4
G1GNAMON_01-	AMON Bright rayed crater/groove terrain	LM	2	LPU	G1GLM245E	G1GLM228	3,4	0	4
G1GNPTAH 01-	RAYED CRATER PTAH	LM	2	LPU	G1GLM245C	G1GLM228	6,7	0	4
G1GNNIPPUR01-	NIPPUR SULCUS (furrows/dark/groove)	LM	3	LPU	G1GLM245B	G1GLM228	7,8	0	4
G1GNMIRRAY01-	Mir a dark rayed crater	LM	3	LPU	G1GLM245A	G1GLM228	11,12	0	4
G1GNURUSUL01*	NIMS ride with SSI on Urus sulcus	SM	3	IM4	G1GSM119	G1GSM102		0	4
G1GNREGIO01*	NIMS ride with SSI on Galileo Regio	SM	3	IM4	G1GSM119	G1GSM102		0	4
G1GNMEMPHI01*	NIMS ride with SSI on Memphis	SM	3	HIS	G1GSM119	G1GSM102		0	4
G1GNLIMBSC02*	Limb Scan for atmosphere	XS	4	MPW	G1GXS17	G1GXS003		1	4
G1JNGRS00501-	GRS 5 Phase #1	SM	2	LPU	G1JFT68A	G1JFT04A		1	4
G1JNHOTMAP01-	HOTMAP	LM	2	LPU	G1JHT238A	G1JHT238A		0	4
G1ENNHILAT01-	EUROPA NORTH HIGH LATITUDE COVERAGE	LM	2,3	LPU	G1ELM228	G1ELM228	6,7	0	4
G1ENGLOBAL01*	Europa coordinated science NIMS/SSI	XM	2	HCA	G1EXM17	G1EXM17		0	4

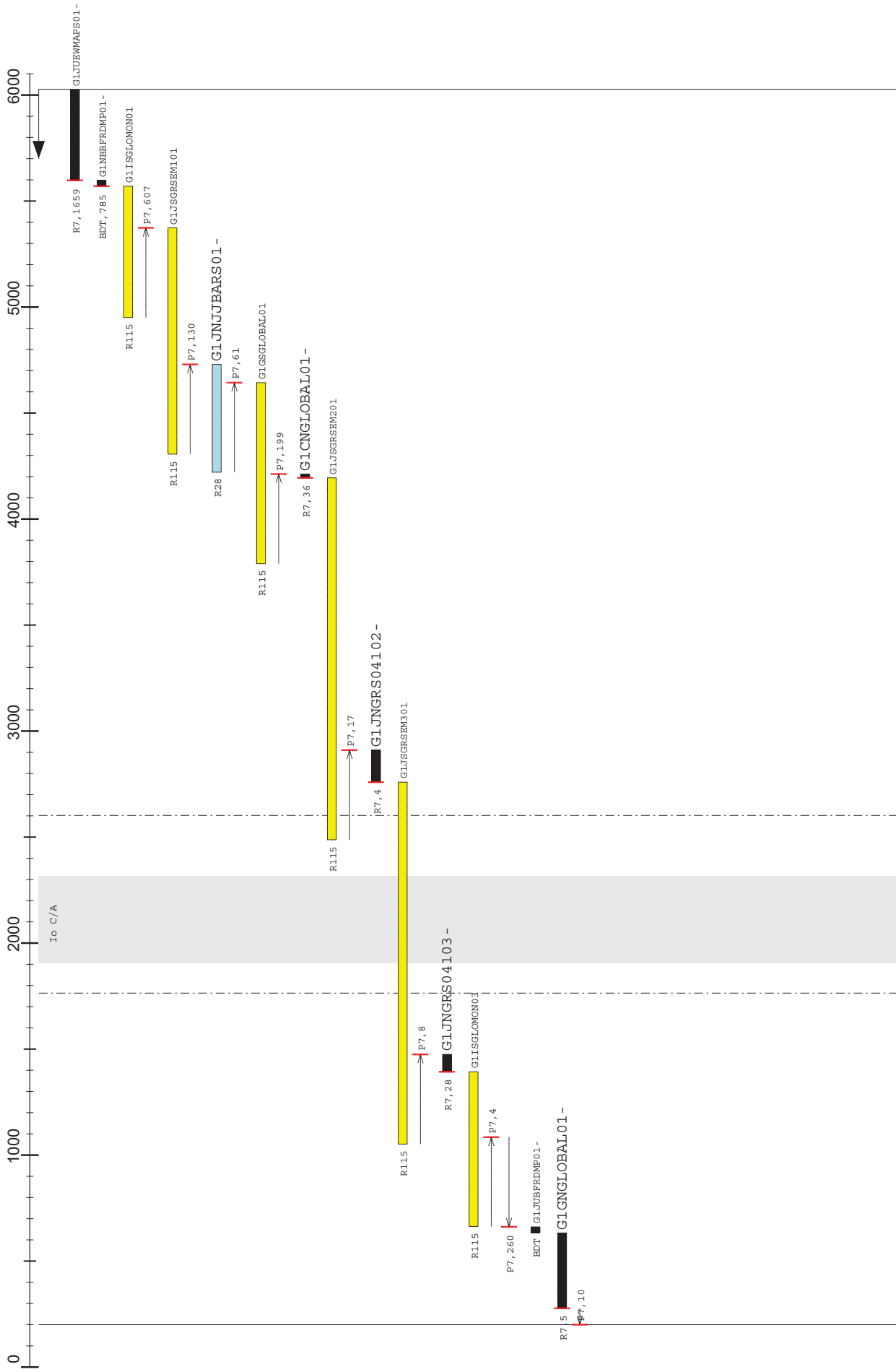
# NIMS G1 Input

Activity ID	Observation Title	Mode	Gain	Record Format	NIMS Edit Table	NIMS Playback Table	Extra Detectors	Grating Start Position	Grating Offset
G1INCHEMIS01-	MONITORING OF IO'S DAYSIDE	LM	2	LPU	G1ILM245	G1ILM228	9,10	0	4
G1INTHRMAL01-	MONITORING OF IO'S NIGHTSIDE	XM	2	LPU	G1IXM10	G1IXM10		21	4
G1JNGRS09101-	GRS 91 Phase #1	SM	2	LPU	G1JFT68A	G1JFT04A		1	4
G1JNGRSSUB01-	GRS CFSUB	LM	2	LPU	G1JSB253A	G1JSB80A		0	4
G1JNGRS09102-	GRS 91 Phase #2	SM	2	LPU	G1JFT68A	G1JFT04A		1	4
G1JNGRS5UM01-	GRS 5-micron map #1	LM	4	LPU	G1J5M253B	G1J5M80B		0	4
G1JNGRS3UM01-	GRS 3-micron map	LM	4	LPU	G1J35160	G1J35160		0	4
G1INCHEMIS02-	MONITORING OF IO'S DAYSIDE	LM	2	LPU	G1ILM245	G1ILM102		0	4
G1INTHRMAL02-	MONITORING OF IO'S NIGHTSIDE	LM	4	LPU	G1ILMDK245	G1ILMDK102		0	4
G1INVOLCAN05-	MONITORING OF SELECTED VOLCANIC REGIONS	XM	2	LPU	G1IXM10	G1IXM10		21	4
G1INVOLCAN04-	MONITORING OF SELECTED VOLCANIC REGIONS	XM	2	LPU	G1IXM10	G1IXM10		21	4
G1INCHEMIS03-	MONITORING OF IO'S DAYSIDE	LM	2	LPU	G1ILM245	G1ILM102		0	4
G1INTHRMAL03-	MONITORING OF IO'S NIGHTSIDE	LM	4	LPU	G1ILMDK245	G1ILMDK102		0	4
G1INCHEMIS04-	MONITORING OF IO'S DAYSIDE	LM	2	LPU	G1ILM245	G1ILM228	9,10	0	4
G1INIOMON 05-	Io Monitoring in Real Time	XM	2	Real Time	G1IXM8RT	Real Time		21	4
G1INNSPEC 01-	NIGHTSIDE SPECTRA AT HIGH RESOLUTION	LM	4	MPW	G1ILM442	G1ILM408		0	4
G1JNGRS12301-	GRS 123 Phase #1	SM	2	LPU	G1JFT68B	G1JFT15A		1	4
G1INCHEMIS05-	MONITORING OF IO'S DAYSIDE	LM	2	LPU	G1ILM245	G1ILM102		0	4
G1INTHRMAL04-	MONITORING OF IO'S NIGHTSIDE	XM	2	LPU	G1IXM10	G1IXM10		21	4
G1INCHEMIS06-	MONITORING OF IO'S DAYSIDE	LM	2	LPU	G1ILM245	G1ILM102		0	4

## NIMS G1 Input

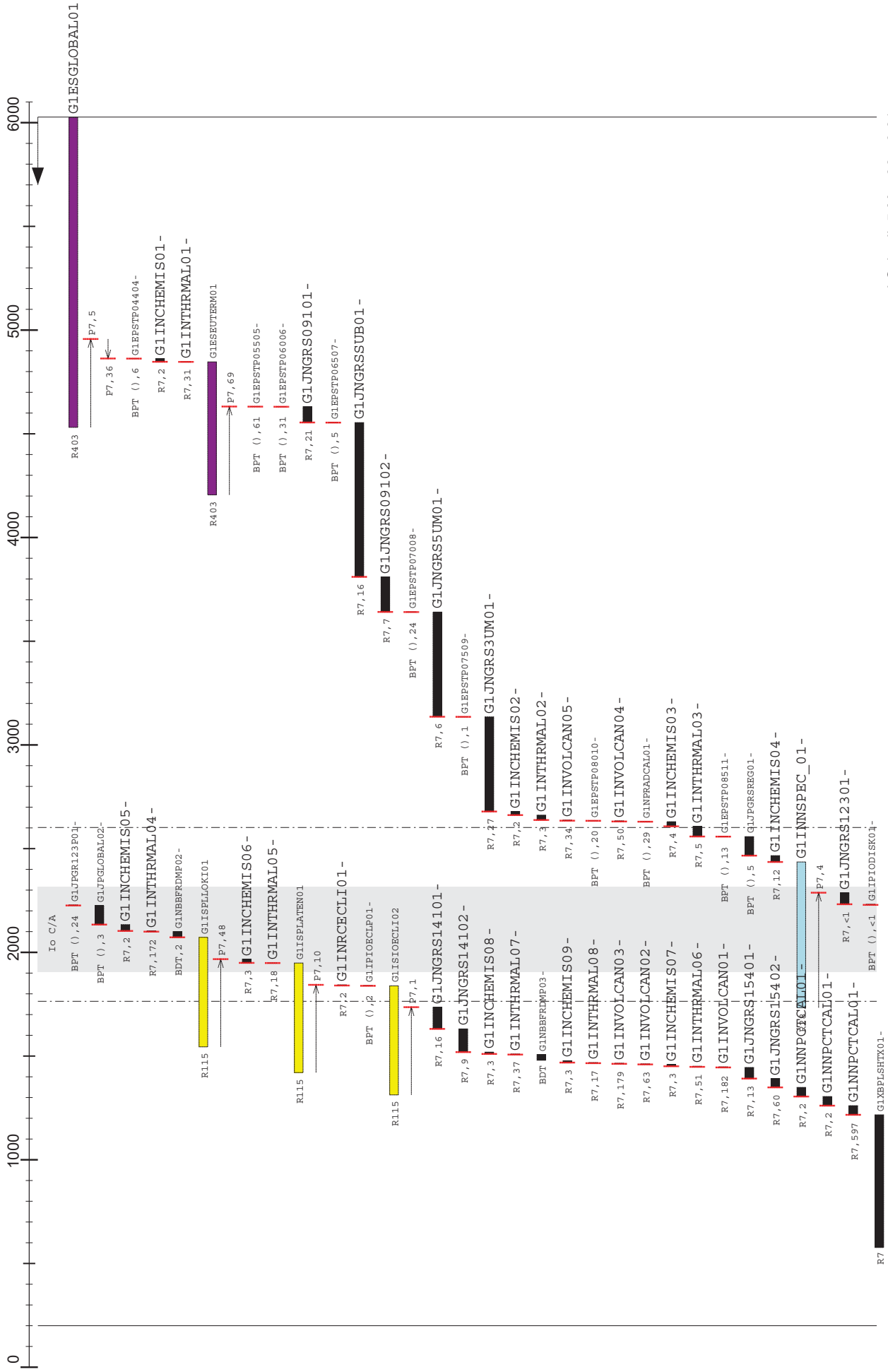
Activity ID	Observation Title	Mode	Gain	Record Format	NIMS Edit Table	NIMS Playback Table	Extra Detectors	Grating Start Position	Grating Offset
G1INTHRMAL05-	MONITORING OF IO'S NIGHTSIDE	XM	2	LPU	G1IXM10	G1IXM10		21	4
G1INRCECLI01-	Io Eclipse Recorded observation	XM	2	LPU	G1IXM10	G1IXM10		21	4
G1JNGRS14101-	GRS 141 Phase #1	SM	2	LPU	G1JFT68B	G1JFT15A		1	4
G1JNGRS14102-	GRS 141 Phase #2	SM	2	LPU	G1JFT68B	G1JFT15A		1	4
G1INCHEMIS08-	MONITORING OF IO'S DAYSIDE	LM	2	LPU	G1ILM245	G1ILM228	9,10	0	4
G1INTHRMAL07-	MONITORING OF IO'S NIGHTSIDE	XM	4	LPU	G1IXM10	G1IXM10		21	4
G1INCHEMIS09-	MONITORING OF IO'S DAYSIDE	LM	2	LPU	G1ILM245	G1ILM228	9,10	0	4
G1INTHRMAL08-	MONITORING OF IO'S NIGHTSIDE	XM	4	LPU	G1IXM10	G1IXM10		21	4
G1INVOLCAN03-	MONITORING OF SELECTED VOLCANIC REGIONS	XM	2	LPU	G1IXM10	G1IXM10		21	4
G1INVOLCAN02-	MONITORING OF SELECTED VOLCANIC REGIONS	XM	2	LPU	G1IXM10	G1IXM10		21	4
G1INCHEMIS07-	MONITORING OF IO'S DAYSIDE	LM	2	LPU	G1ILM245	G1ILM102		0	4
G1INTHRMAL06-	MONITORING OF IO'S NIGHTSIDE	XM	4	LPU	G1IXM10	G1IXM10		21	4
G1INVOLCAN01-	MONITORING OF SELECTED VOLCANIC REGIONS	XM	2	LPU	G1IXM10	G1IXM10		21	4
G1INIOMON 07-	Io Monitoring in Real Time	XM	2	Real Time	G1IXM8RT	Real Time		21	4
G1JNGRS15401-	GRS 154 Phase #1	SM	2	LPU	G1JFT68B	G1JFT15A		1	4
G1JNGRS15402-	GRS 154 Phase #2	SM	2	LPU	G1JFT68B	G1JFT15A		1	4
G1NNPCTCAL01-	PCT Calibration	LM	4	LPU	G1PCT252	G1PCT252		0	4
G1NNRCTRLT01-	NIMS Real Time Calibration #1	LM	1	Real Time	G1RCT252	Real Time		0	4
G1NNRCTRLT02-	NIMS Real Time Calibration #2	LM	1	Real Time	G1RCT252	Real Time		0	4

# Track 2



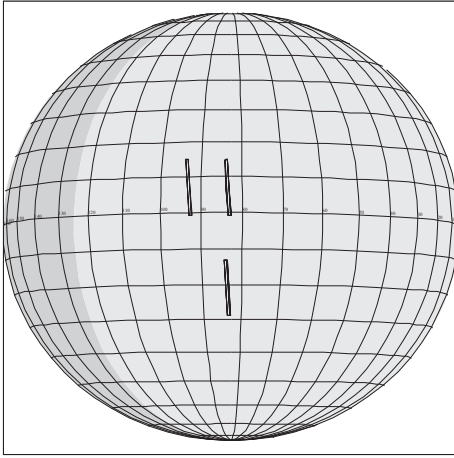


# Track 4

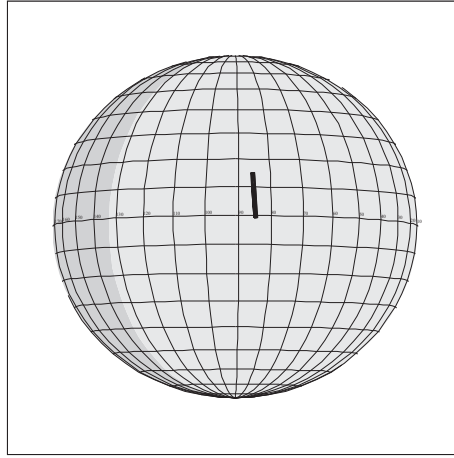




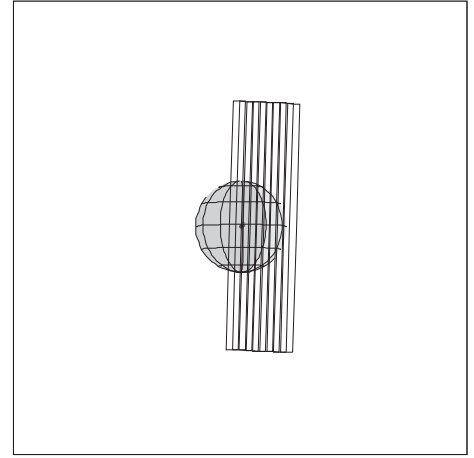
# G1 NIMS A



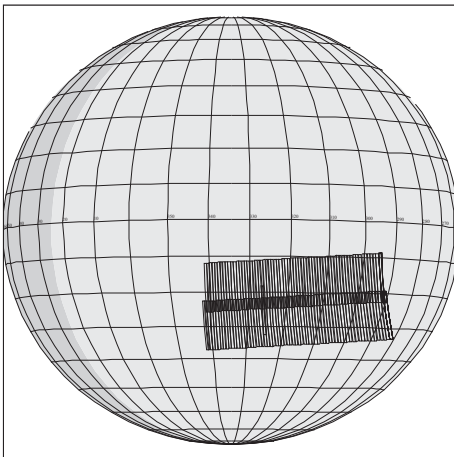
**G1JNJJBARS01**  
**96-178/06:59:57**



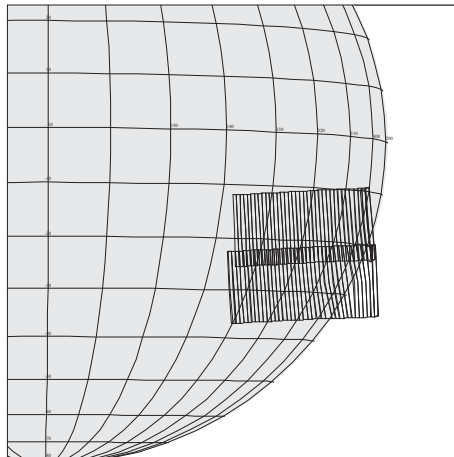
**G1JNRTJBAR01**  
**96-178/07:14:06**



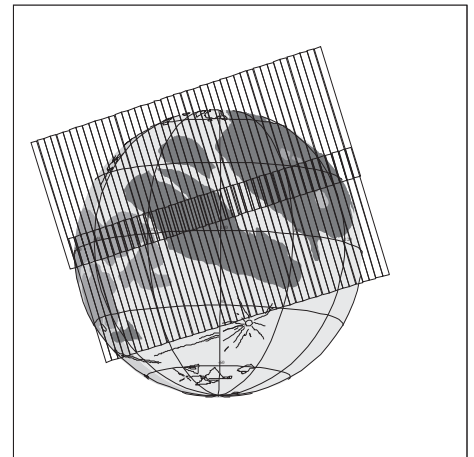
**G1CNGLOBAL01**  
**96-178/12:37:40**



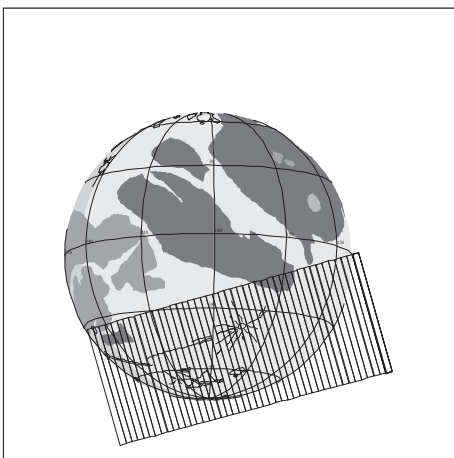
**G1JNGRS04102**  
**96-178/14:11:42**



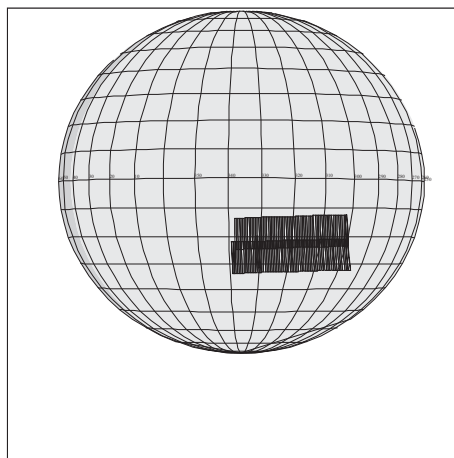
**G1JNGRS04103**  
**96-178/15:13:22**



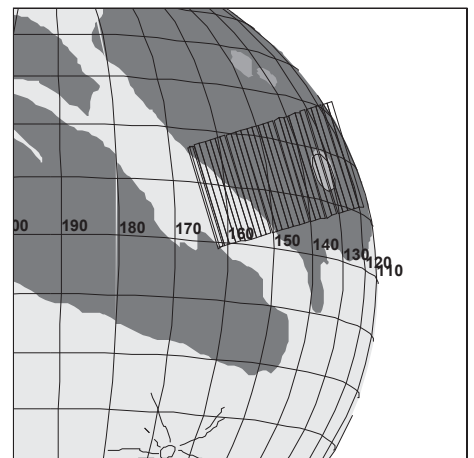
**G1GNGLOBAL01**  
**96-178/21:23:26**



**G1GNGLOBAL02**  
**96-178/22:12:59**

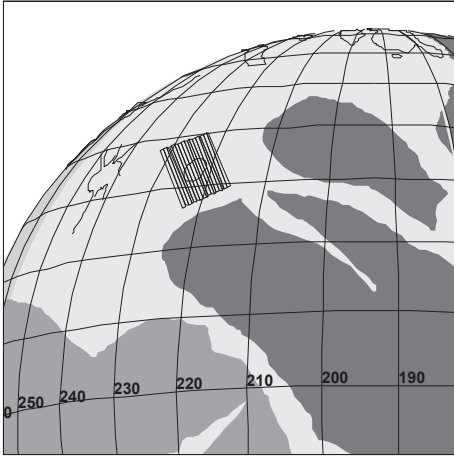


**G1JNGRS02501**  
**96-179/00:37:34**

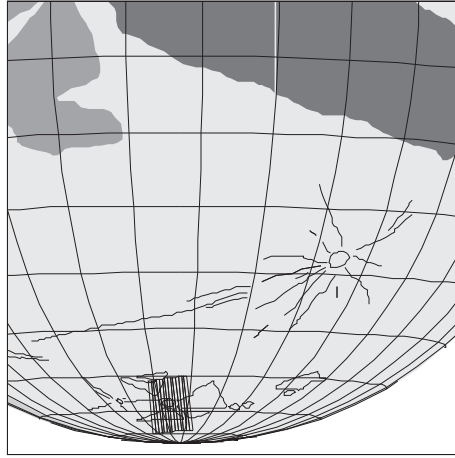


**G1GNMEMPIS01**  
**96-179/03:10:15**

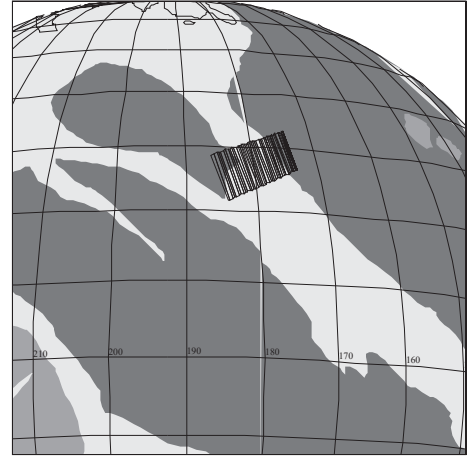
# G1 NIMS B



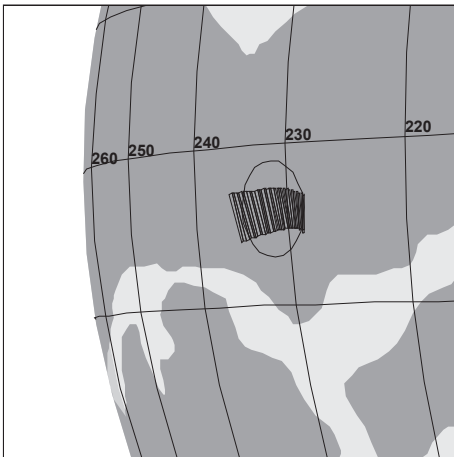
**G1GNAMON\_01**  
**96-179/04:59:27**



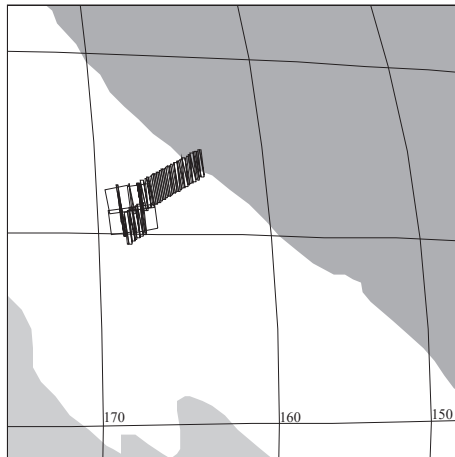
**G1GNPTAH\_01**  
**96-179/05:08:33**



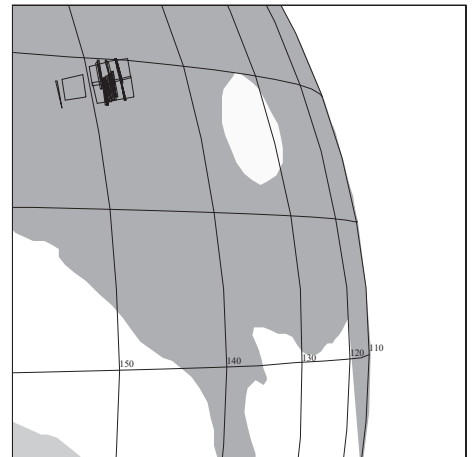
**G1GNNIPPUR01**  
**96-179/05:16:38**



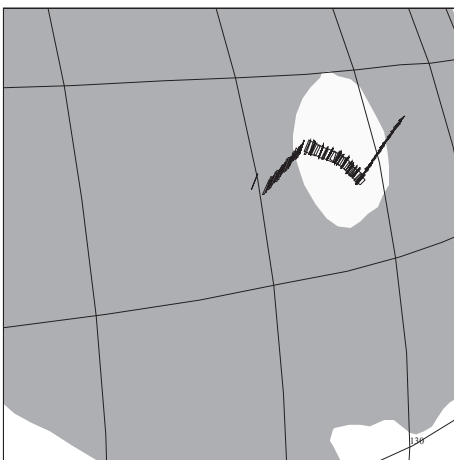
**G1GNMIRRAY01**  
**96-179/05:52:02**



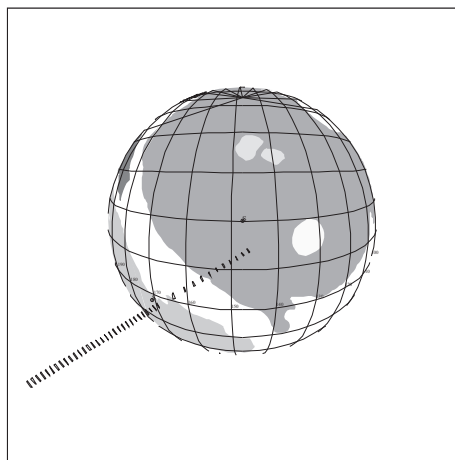
**G1GNURUSUL01**  
**96-179/06:04:10**



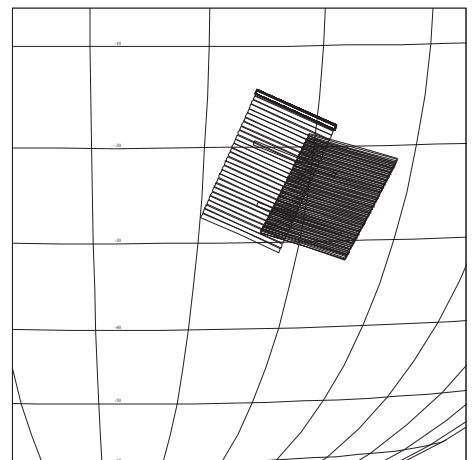
**G1GNGREGIO01**  
**96-179/06:09:13**



**G1GNMEMPHI01**  
**96-179/06:19:20**

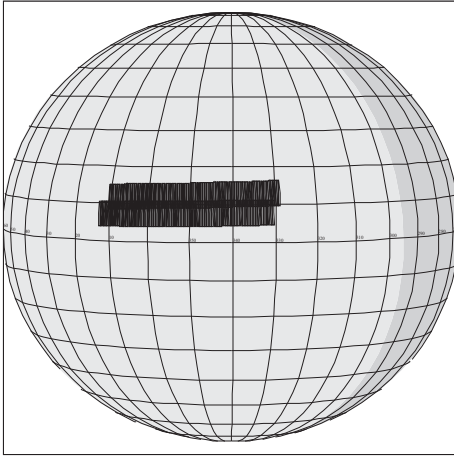


**G1GNLIMBSC02**  
**96-179/06:22:22**

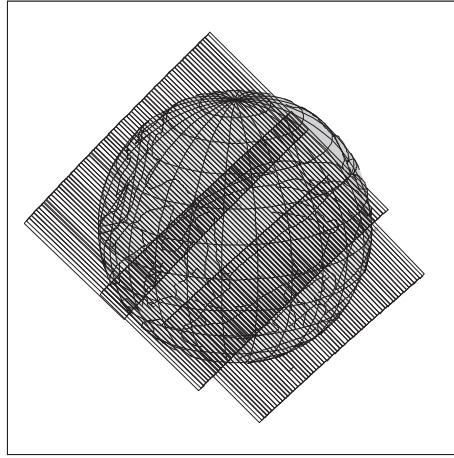


**G1JNGRS00501**  
**96-179/11:16:36**

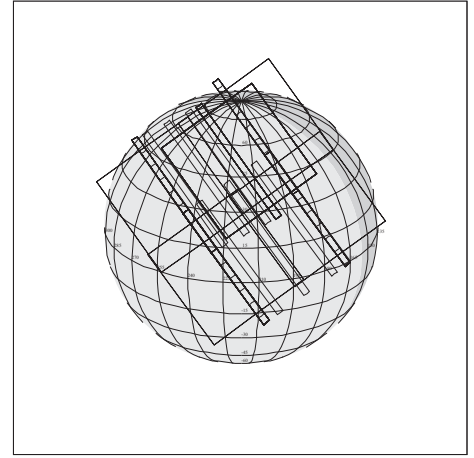
# G1 NIMS C



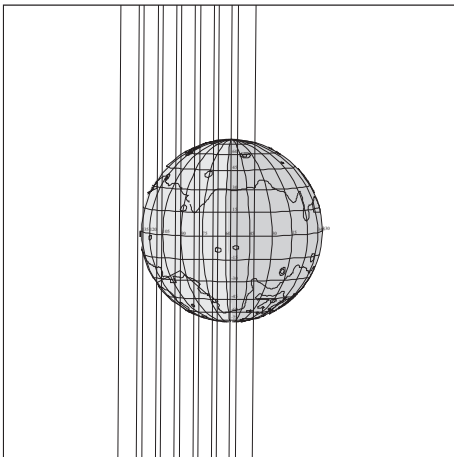
**G1JNHOTMAP01**  
**96-179/22:26:58**



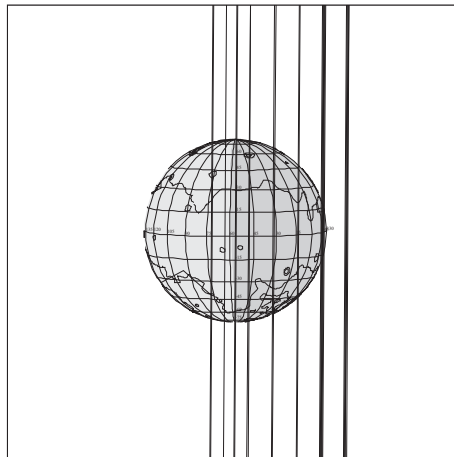
**G1ENNHILAT01**  
**96-180/00:28:18**



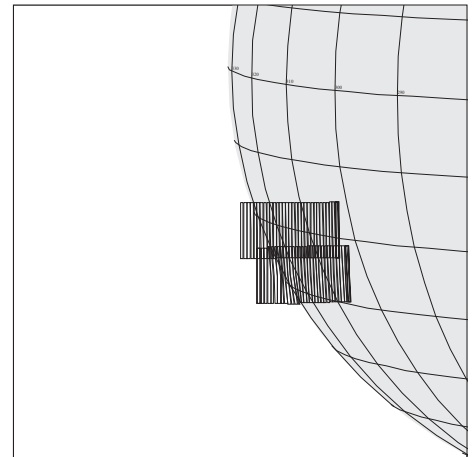
**G1ENGLOBAL01**  
**96-180/01:21:53**



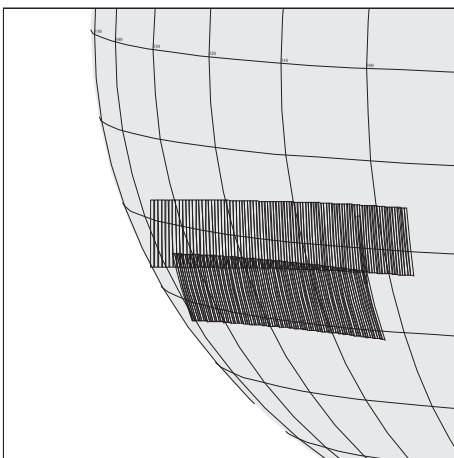
**G1INCHEMIS01**  
**96-180/03:09:04**



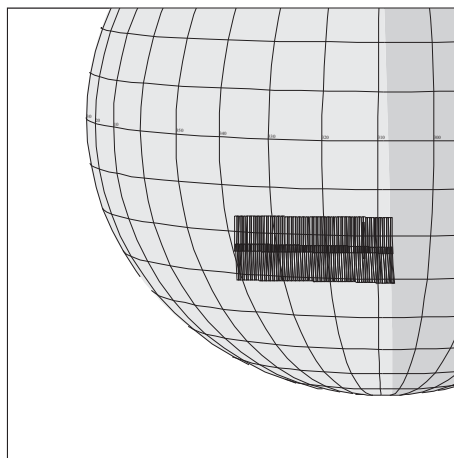
**G1INTHRMAL01**  
**96-180/03:14:07**



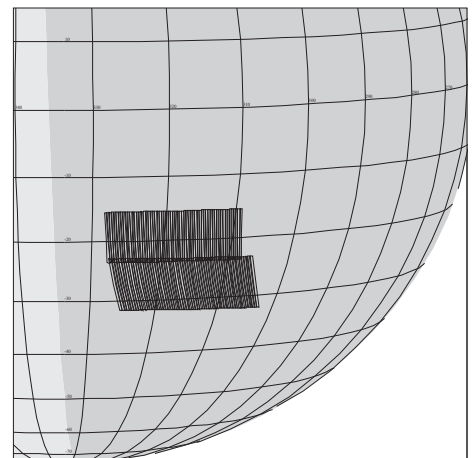
**G1JNGRS09101**  
**96-180/06:59:36**



**G1JNGRSSUB01**  
**96-180/07:36:00**

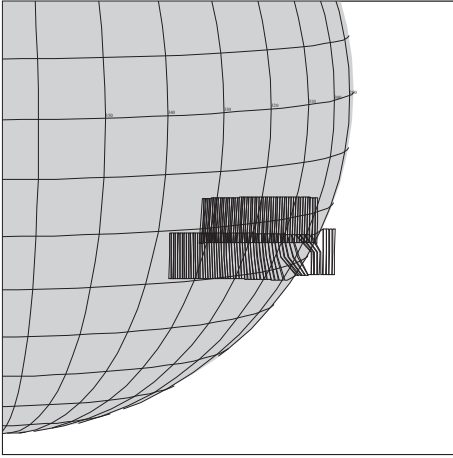


**G1JNGRS09102**  
**96-180/08:43:44**

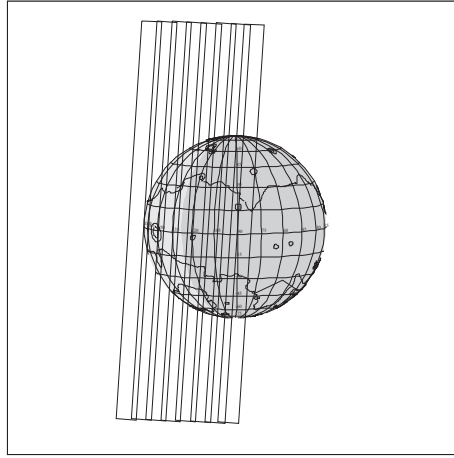


**G1JNGRS5UM01**  
**96-180/09:31:16**

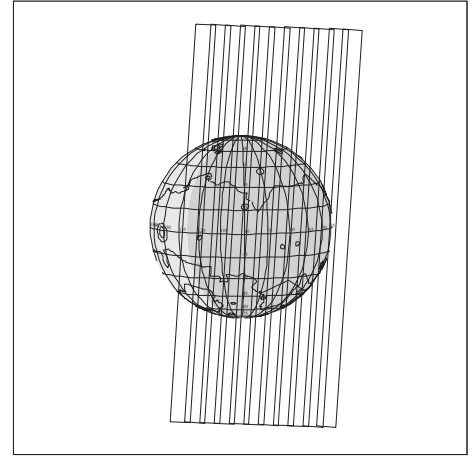
# G1 NIMS D



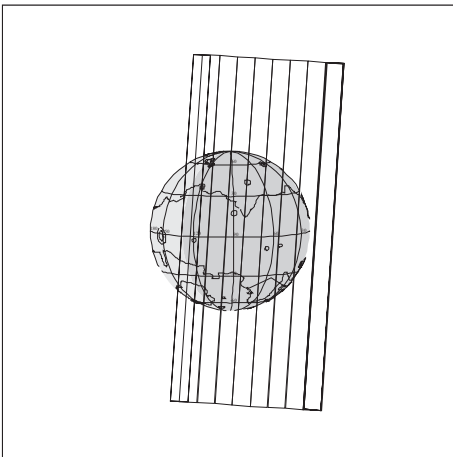
**G1JNGRS3UM01**  
**96-180/10:17:46**



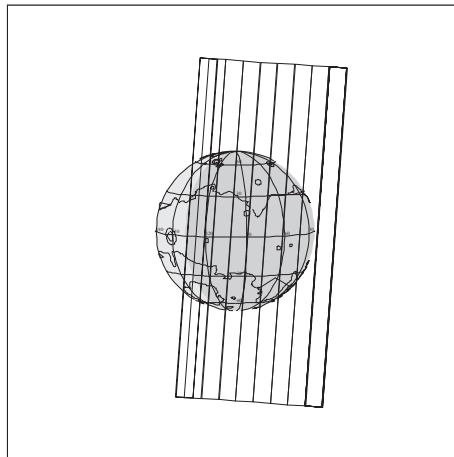
**G1INCHEMIS02**  
**96-180/11:16:25**



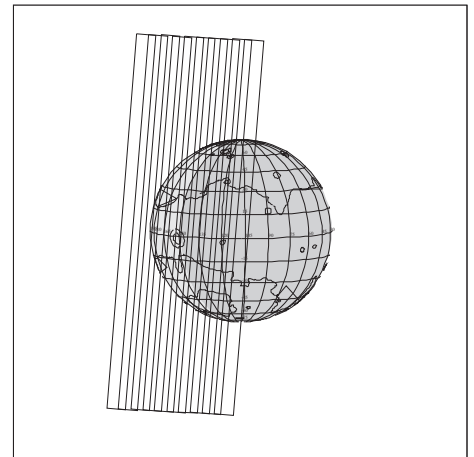
**G1INTHRMAL02**  
**96-180/11:21:28**



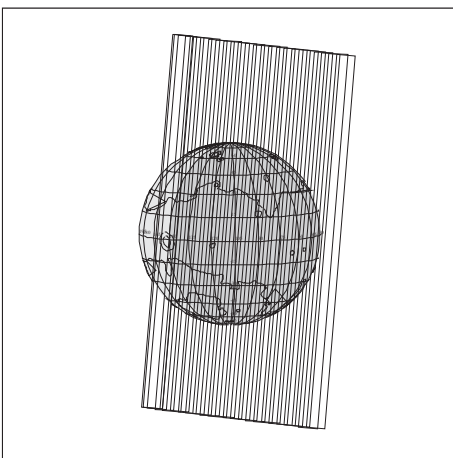
**G1INVOLCAN05**  
**96-180/11:26:32**



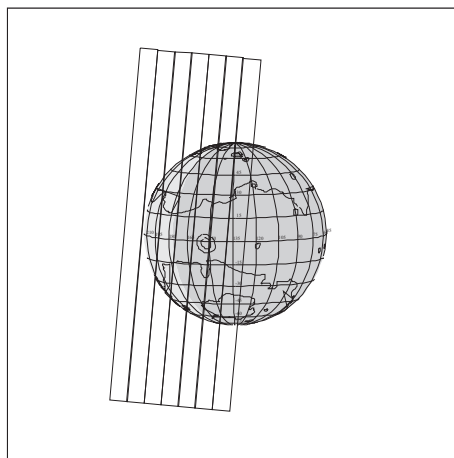
**G1INVOLCAN04**  
**96-180/12:23:09**



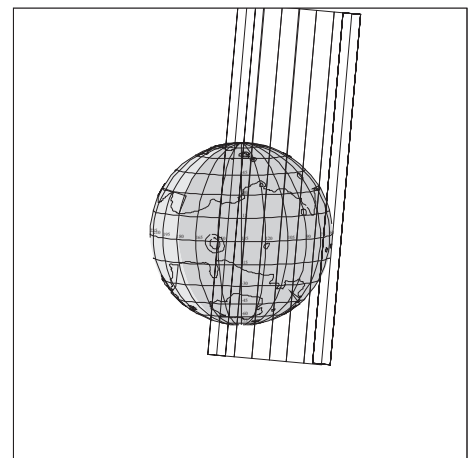
**G1INCHEMIS03**  
**96-180/13:45:03**



**G1INTHRMAL03**  
**96-180/13:52:08**

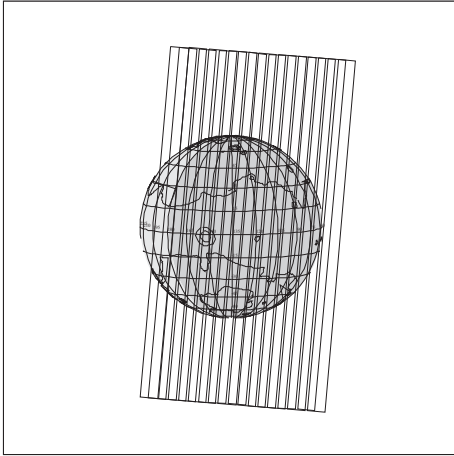


**G1INCHEMIS04**  
**96-180/17:00:12**

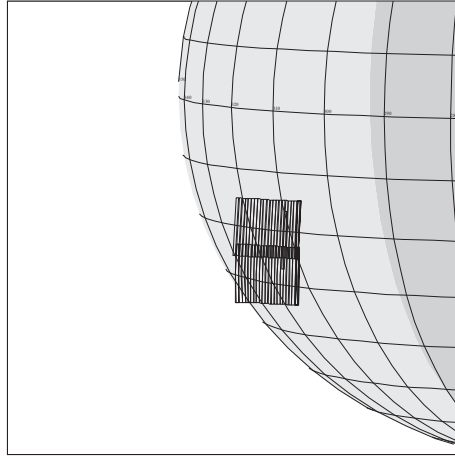


**G1INIOMON\_05**  
**96-180/17:12:20**

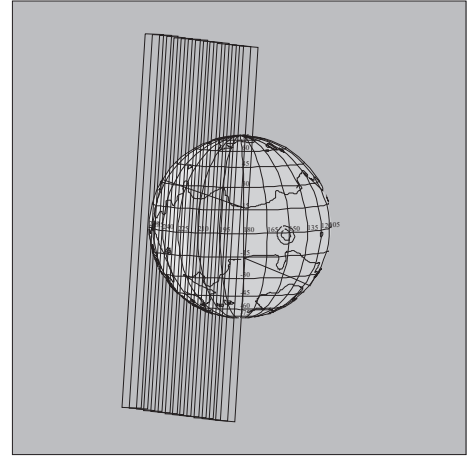
# G1 NIMS E



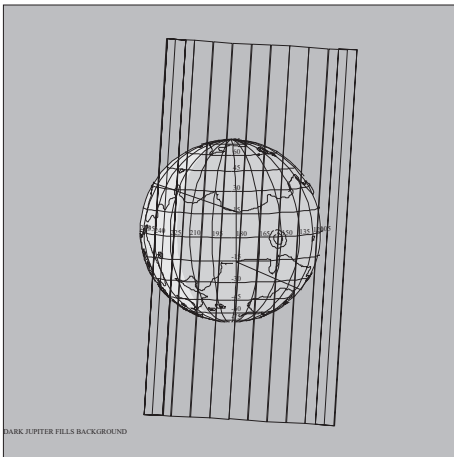
**G1INNSPEC\_01**  
**96-180/17:17:23**



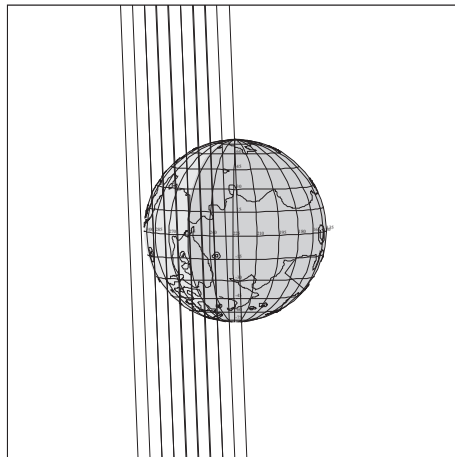
**G1JNGRS12301**  
**96-180/18:13:00**



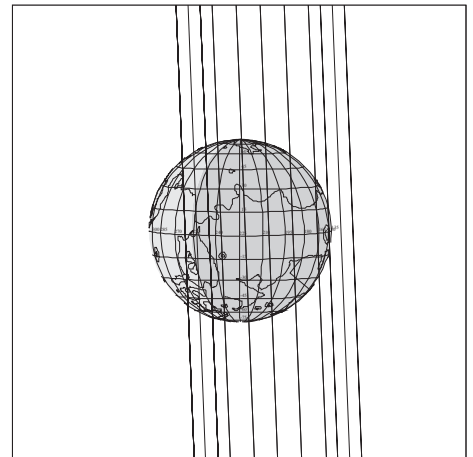
**G1INCHEMIS05**  
**96-180/22:00:30**



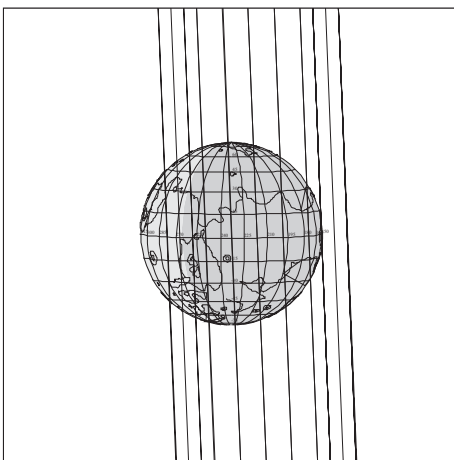
**G1INTHRMAL04**  
**96-180/22:06:34**



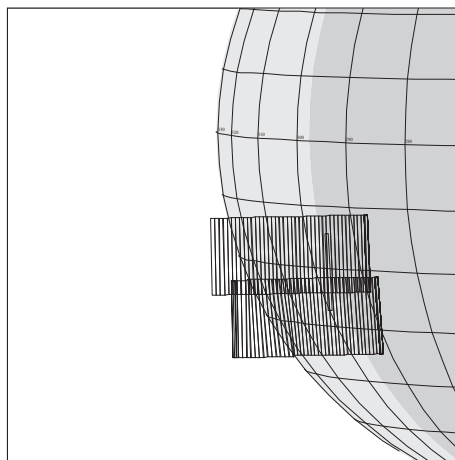
**G1INCHEMIS06**  
**96-181/02:24:24**



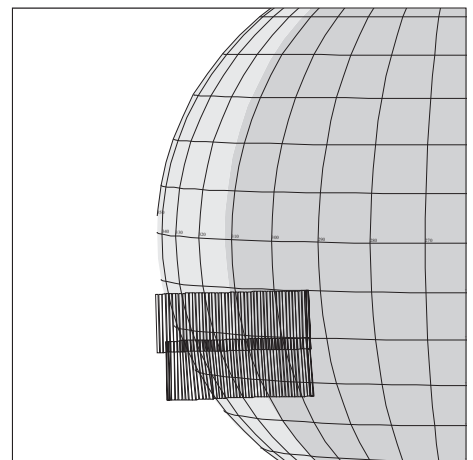
**G1INTHRMAL05**  
**96-181/02:29:27**



**G1INRCECLI01**  
**96-181/03:31:08**



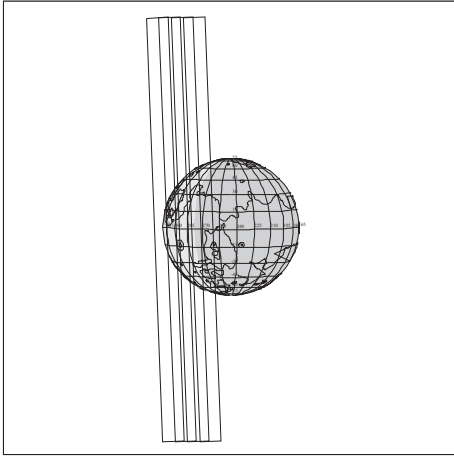
**G1JNGRS14101**  
**96-181/04:18:39**



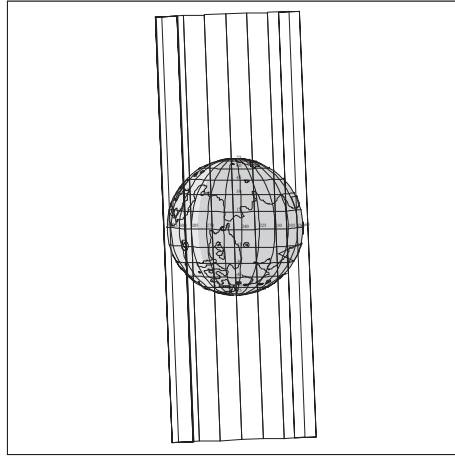
**G1JNGRS14102**  
**96-181/04:42:55**



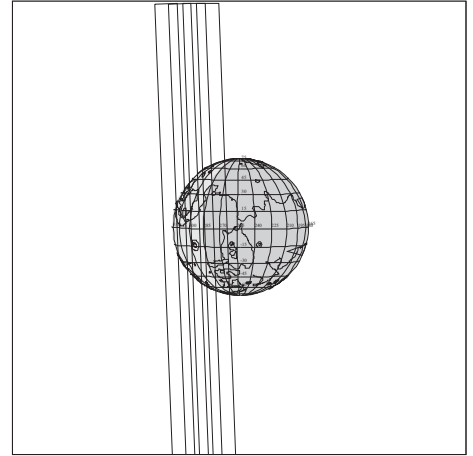
# G1 NIMS F



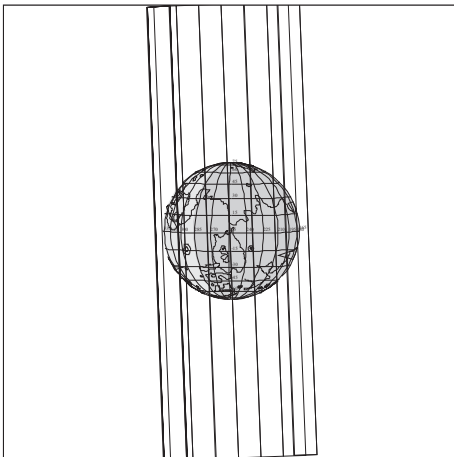
**G1INCHEMIS08**  
**96-181/05:00:06**



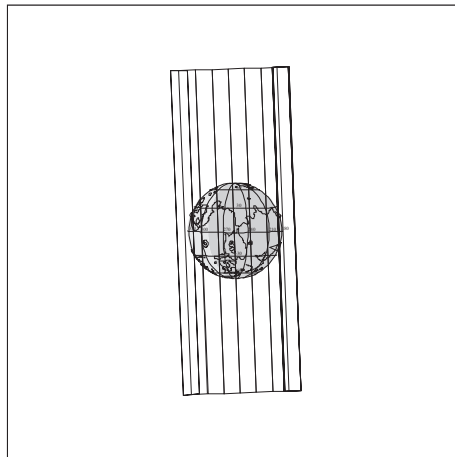
**G1INTHRMAL07**  
**96-181/05:05:10**



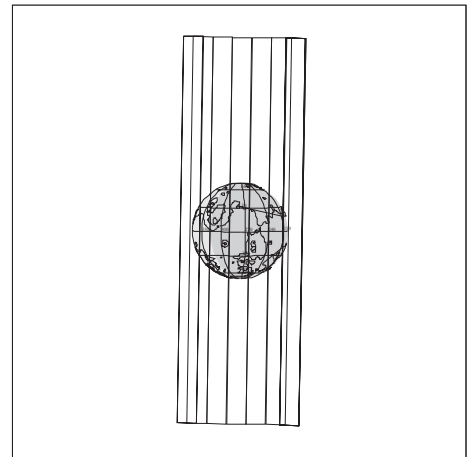
**G1INCHEMIS09**  
**96-181/05:59:46**



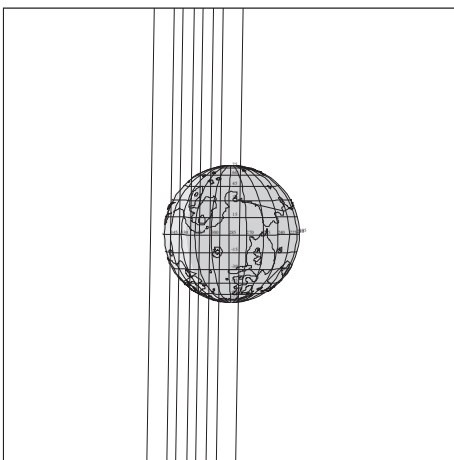
**G1INTHRMAL08**  
**96-181/06:04:49**



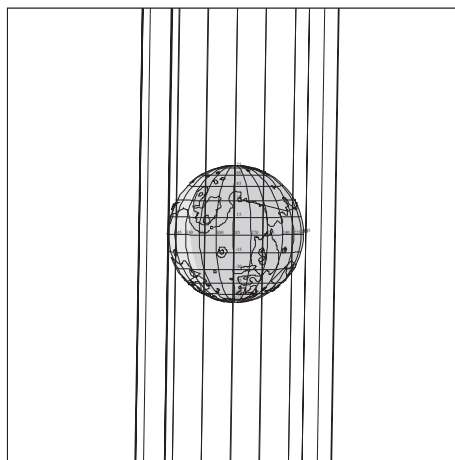
**G1INVOLCAN03**  
**96-181/06:23:01**



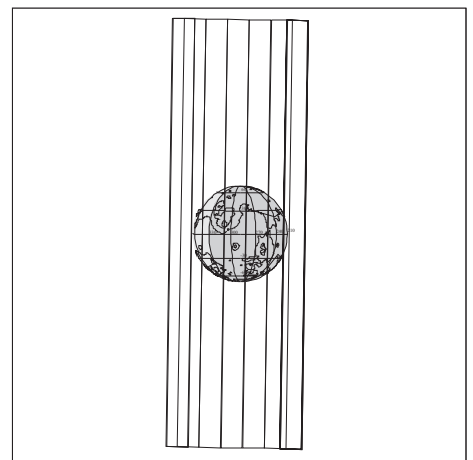
**G1INVOLCAN02**  
**96-181/09:23:00**



**G1INCHEMIS07**  
**96-181/10:25:41**

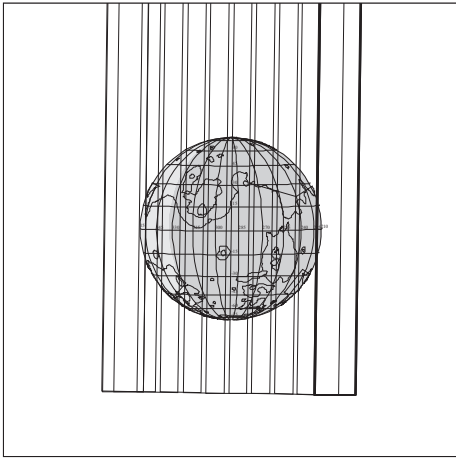


**G1INTHRMAL06**  
**96-181/10:30:44**

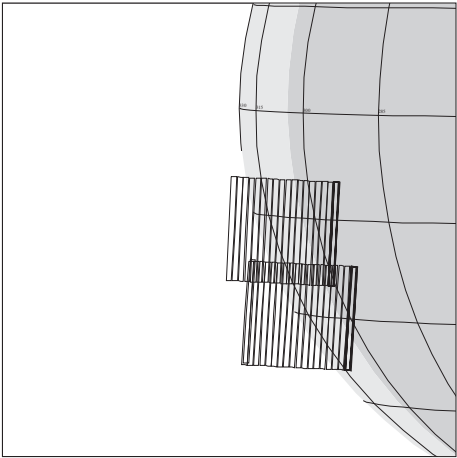


**G1INVOLCAN01**  
**96-181/11:22:18**

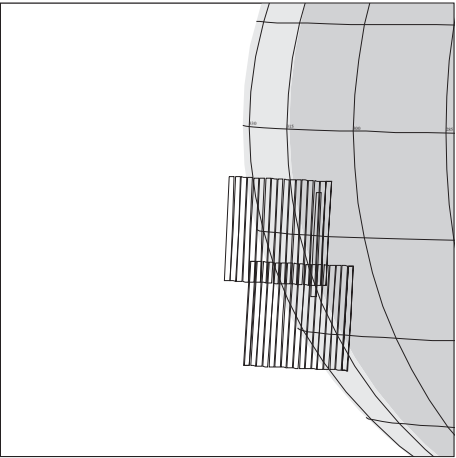
**G1 NIMS G**



**G1INIOMON\_07**  
**96-181/11:28:22**



**G1JNGRS15401**  
**96-181/14:23:18**



**G1JNGRS15402**  
**96-181/14:43:31**

## Chapter 3 - Orbit Geometries

### Contents

	Sub-Section	Page
3.0	Contents .....	1
3.1	Introduction to Chapter 3 .....	2
3.2	G1 North Trajectory Pole View (apo to apo) ...	3
3.3	G1 North Trajectory Pole View (+/- 5 days) ...	4
3.4	G1 North Trajectory Pole View (+/- 1 day) ....	5
3.5	Ganymede Groundtrack at closest Approach .....	6
3.6	Jupiter Groundtrack at closest Approach .....	7
3.7	North Trajectory Pole View (+/- 1 hour) .....	8
3.8	S/C Altitude with respect to Ganymede .....	9
3.9	Cone Angle of Ganymede (Earth-S/C-Ganymede) ..	10
3.10	Sun-Ganymede-S/C Angle .....	11
3.11	S/C range to Jupiter center of Mass .....	12
3.12	Cone angle of Jupiter (Earth-S/C-Jupiter) ....	13
3.13	Sun-Jupiter-S/C angle .....	14
3.14	Galilean Satellite viewing geometry .....	15



### Introduction to Chapter 3

This chapter contains diagrams of various aspects of geometry for the G1 Orbit.

The figure on page 3 is a North Trajectory Pole View of the G1 Orbit from apoapsis to apoapsis.

The figure on page 4 is a North Trajectory Pole View of the G1 Orbit from +/- 5 days of Ganymede closest approach.

The figure on page 5 is a North Trajectory Pole View of the G1 Orbit from +/- 1 day of Ganymede closest approach.

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

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

The figure on page 8 is a North Trajectory Pole View of the G1 Orbit from +/- 1 hour of Ganymede closest approach.

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

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

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

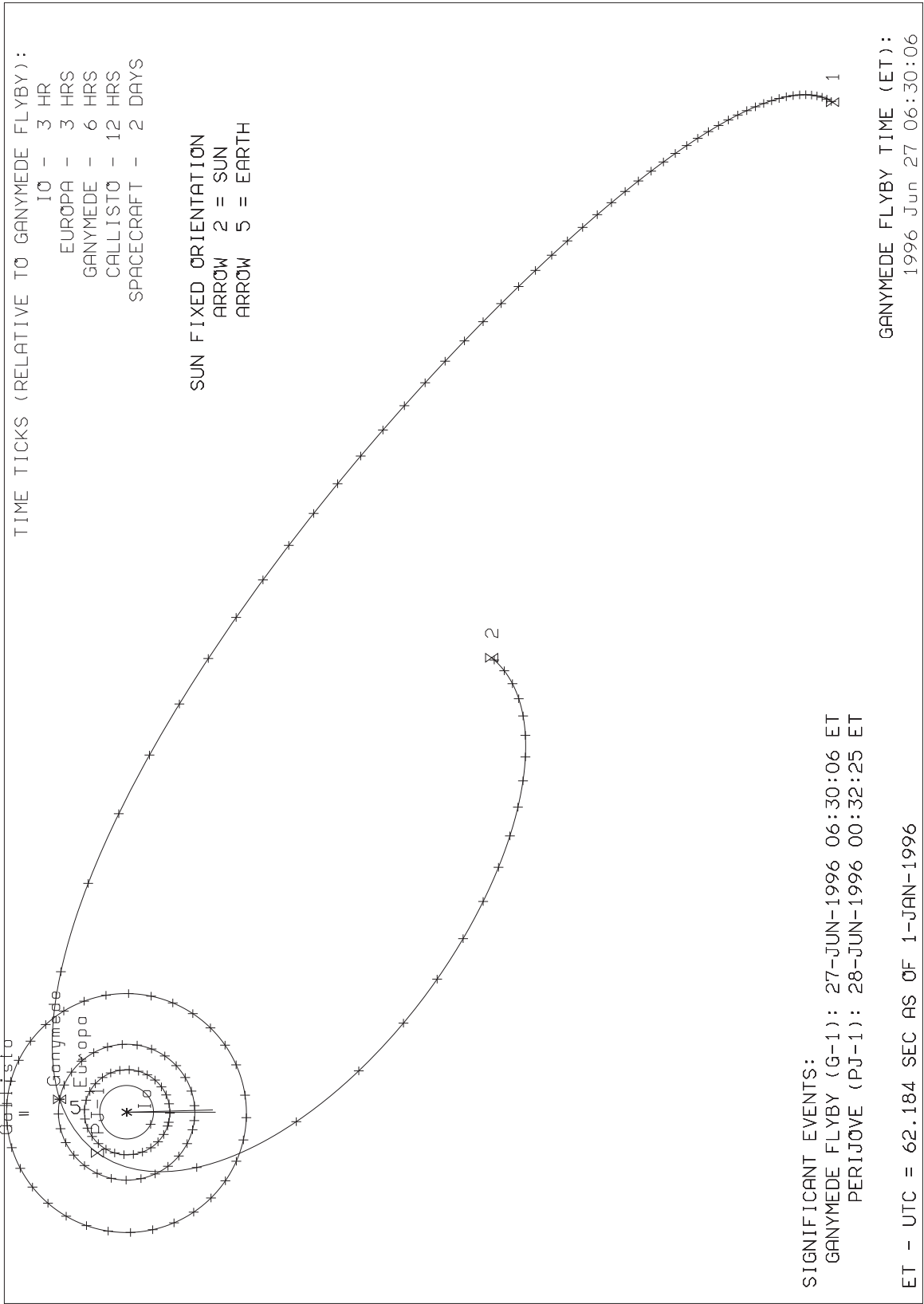
The figure on page 12 shows spacecraft range to Jupiter's center of mass ( $R_j$ ).

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

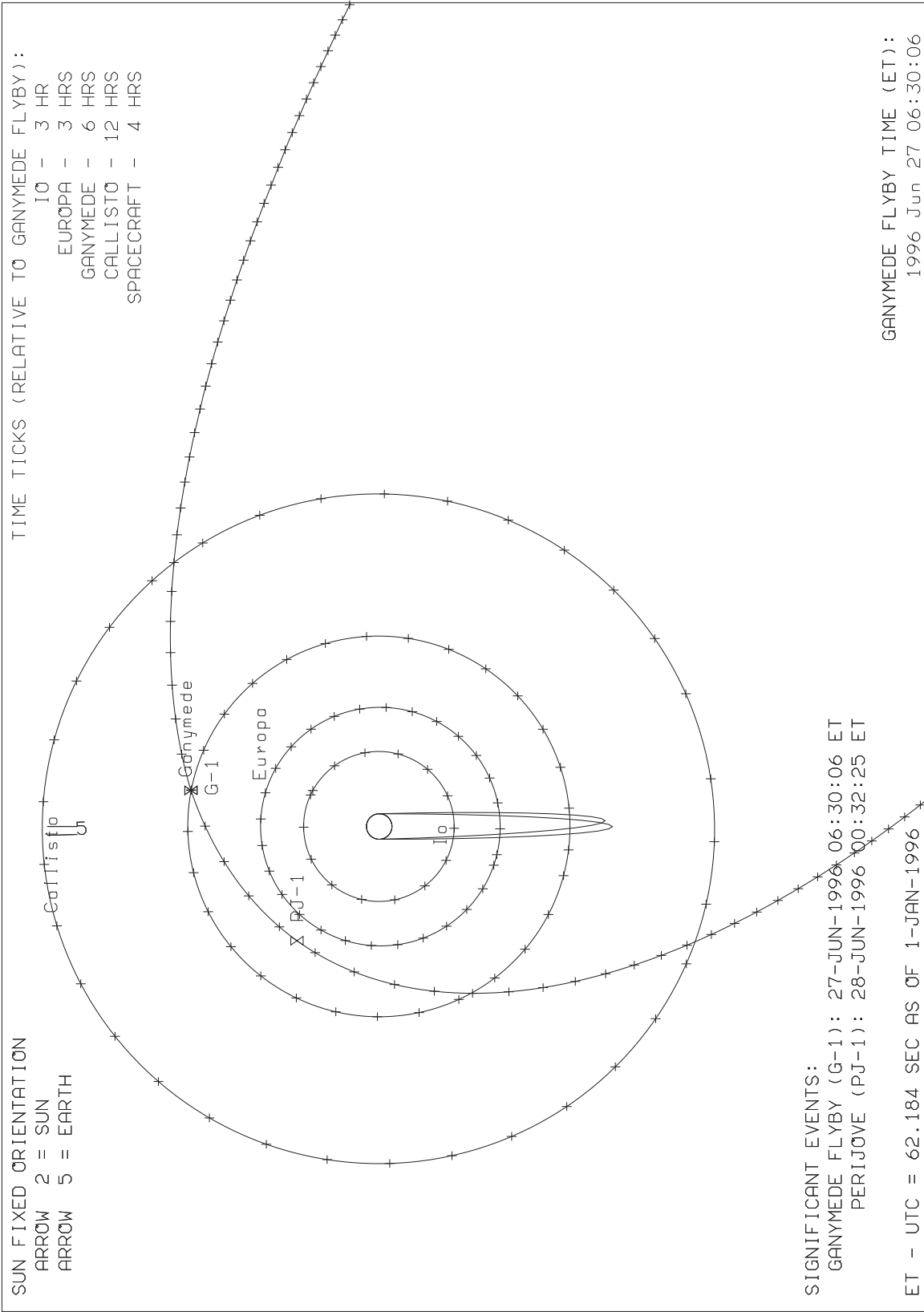
The figure on page 14 shows the Sun-Jupiter-S/C Angle (deg).

The figure on page 15 shows plots of various viewing geometry parameters for the 4 Galilean Satellites.

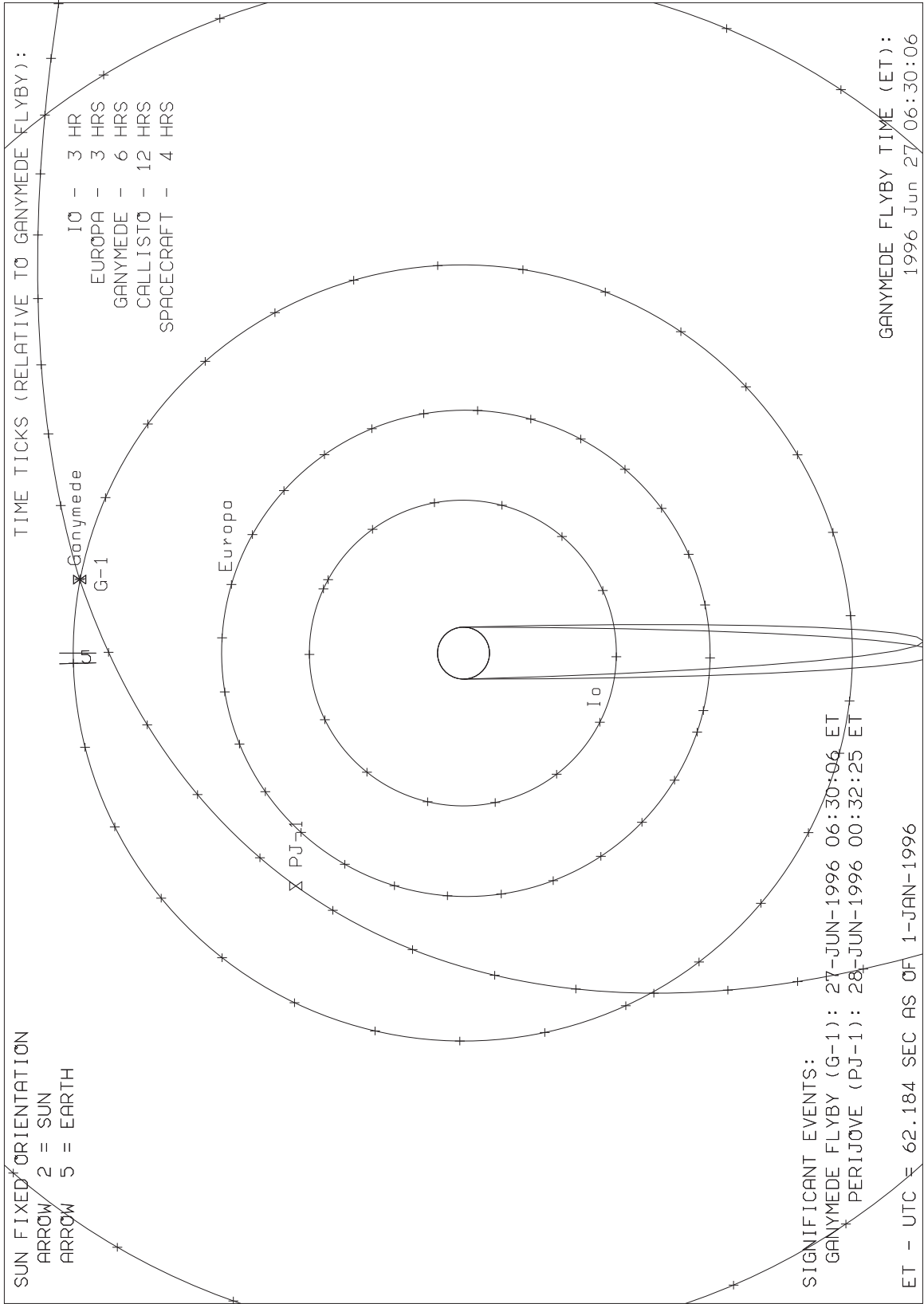
# Jupiter 1: North Trajectory Pole View (G-1 Apo to Apo)



# Jupiter 1: North Trajectory Pole View (G-1 +/- 5 days)



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

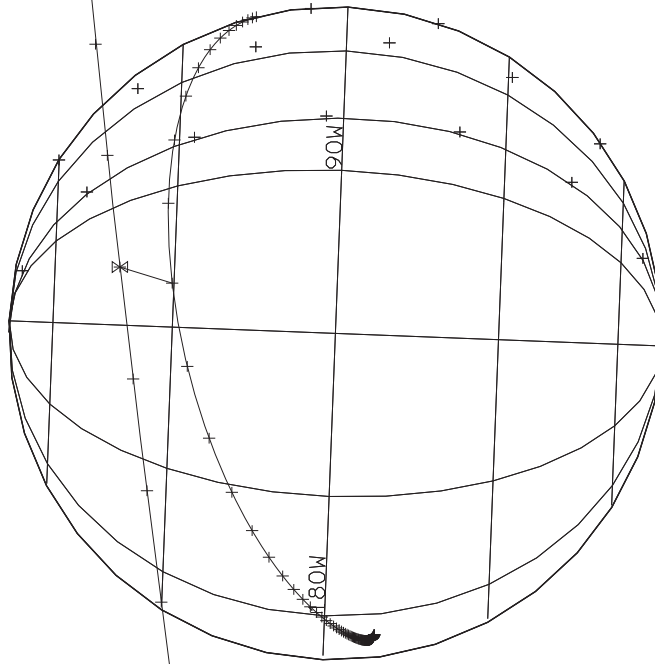


# GANYMEDE 1: GROUNDTRACK AT CLOSEST APPROACH

SPACECRAFT TIME TICKS EVERY 2 MINUTES

- ARROW 2 = SUN
- ARROW 5 = EARTH
- ARROW 13 = ECLIPTIC NORTH POLE
- ARROW 16 = GANYMEDE NORTH POLE

200



2

SIGNIFICANT EVENTS:  
 GANYMEDE FLYBY (G-1): 27-JUN-1996 06:30:06 ET  
 PERIJOVE (PJ-1): 28-JUN-1996 00:32:25 ET

GANYMEDE FLYBY TIME (ET):  
 1996 Jun 27 06:30:06

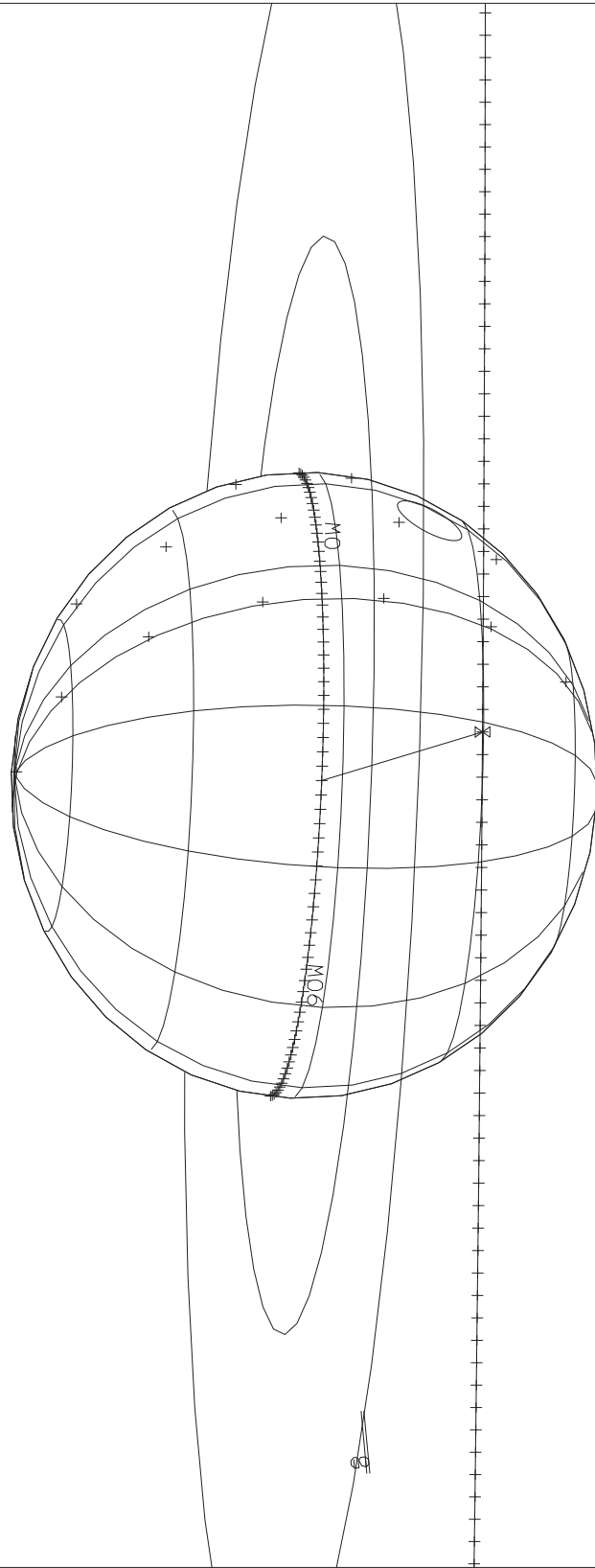
ET - UTC = 62.184 SEC AS OF 1-JAN-1996

# JUPITER 1: GROUNDTRACK AT CLOSEST APPROACH

ARROW 2 = SUN  
 ARROW 5 = EARTH  
 ARROW 13 = ECLIPTIC NORTH POLE  
 ARROW 16 = JUPITER NORTH POLE

1000

||



## SIGNIFICANT EVENTS:

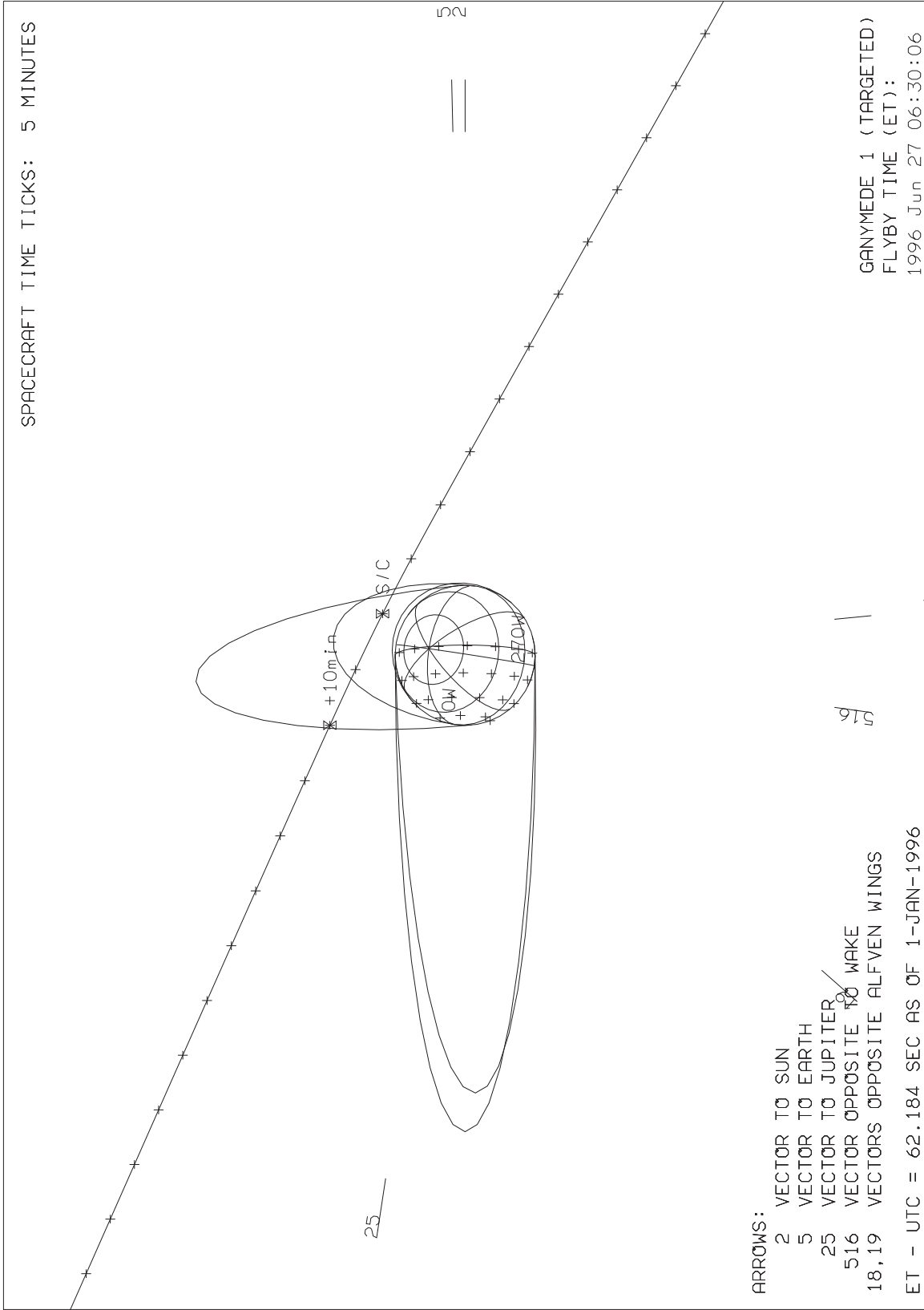
GANYMEDE FLYBY (G-1): 27-JUN-1996 06:30:06 ET  
 PERIJOVE (PJ-1): 28-JUN-1996 00:32:25 ET

○ Europa

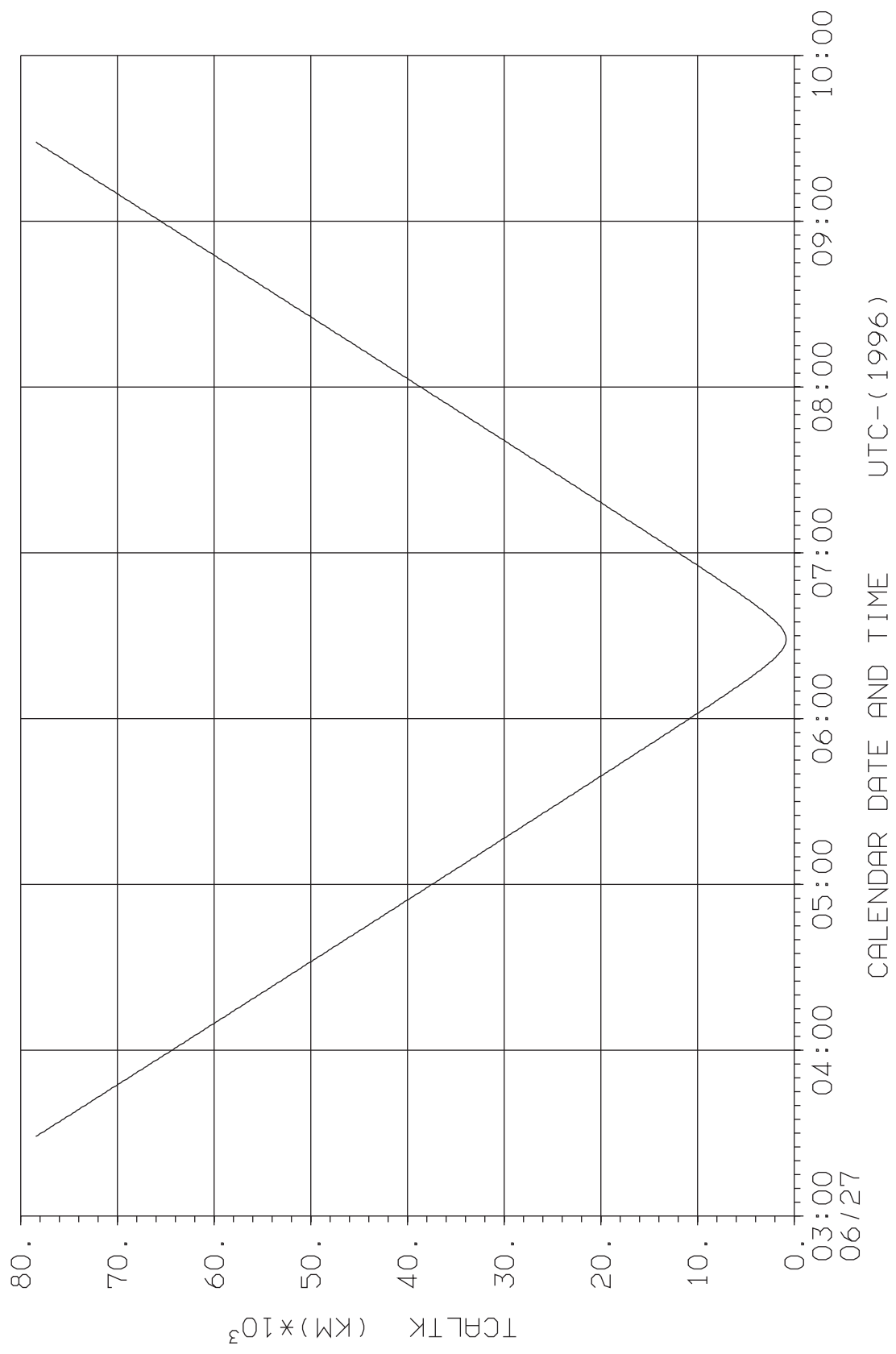
RINGS: 1.76 and 3.0 R<sub>J</sub>  
 SPACECRAFT TIME TICKS EVERY 5 MINUTES  
 ET - UTC = 62.184 SEC AS OF 1-JAN-1996

PJ1 TIME (ET):  
 1996 Jun 28 00:32:25

# GANYMEDE 1: CLOSEST APPROACH (NORTH TRAJECTORY POLE VIEW)

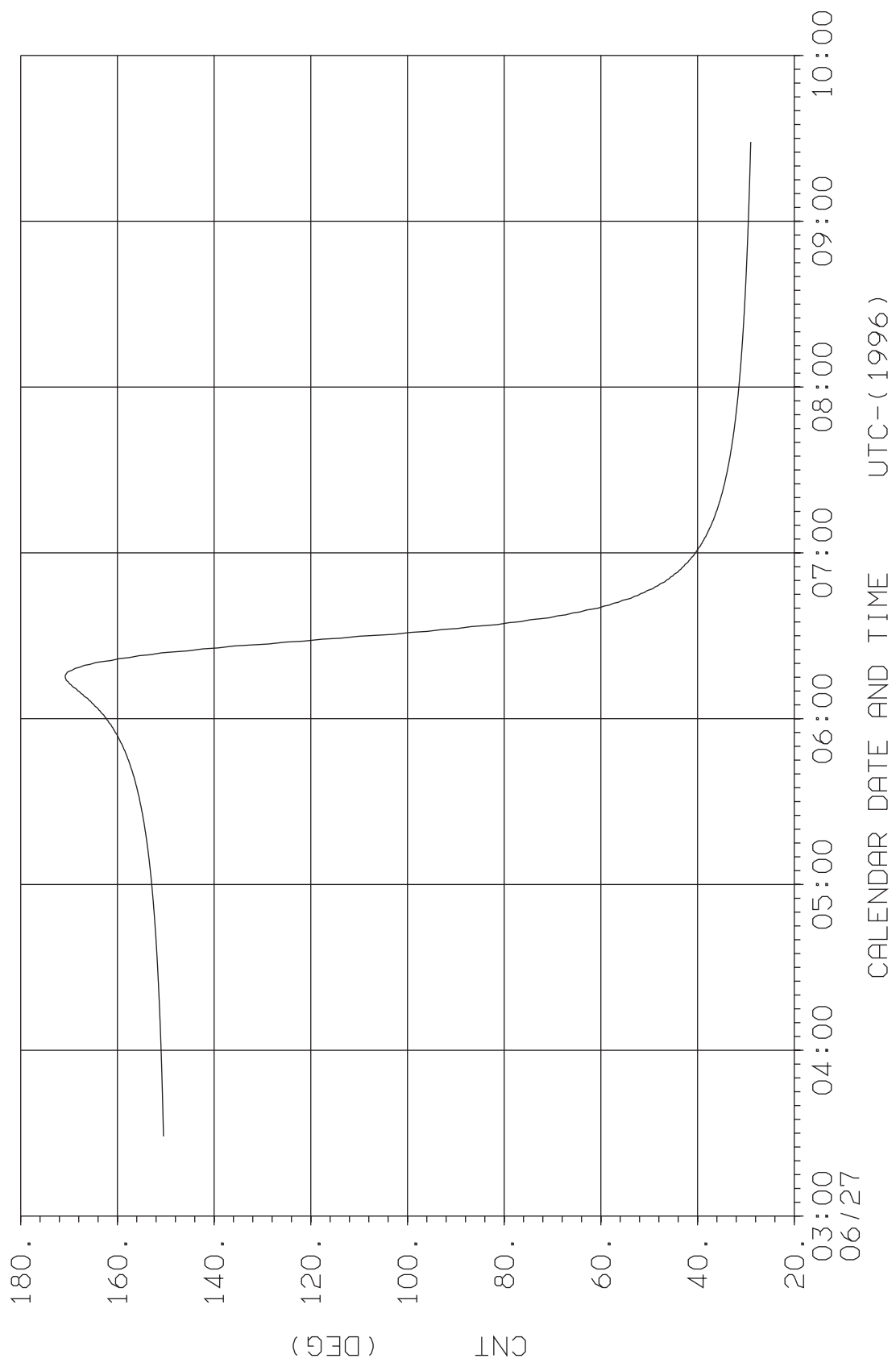


ORBIT 1: S/C ALTITUDE WITH RESPECT TO GANYMEDE (KM)

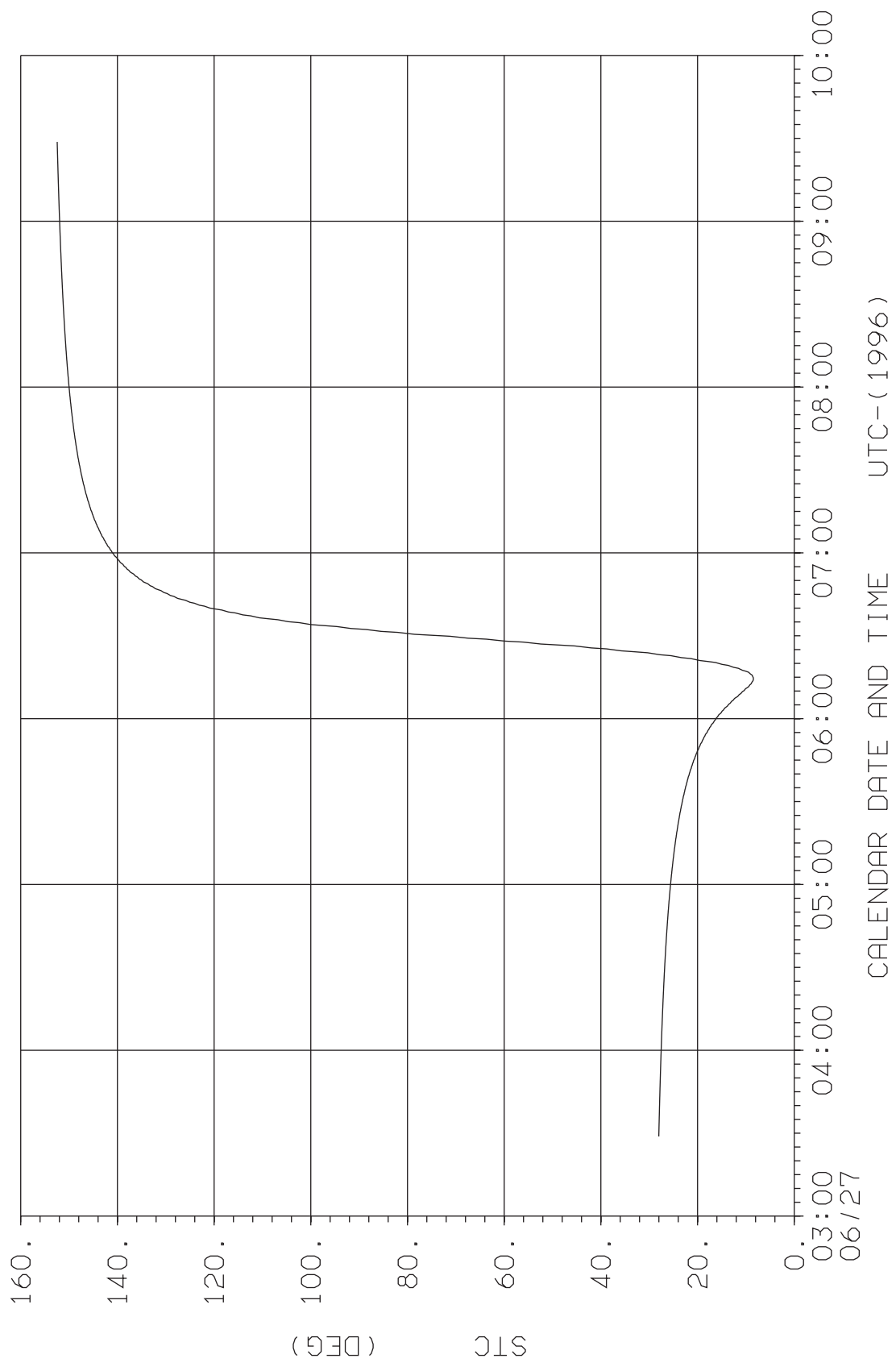




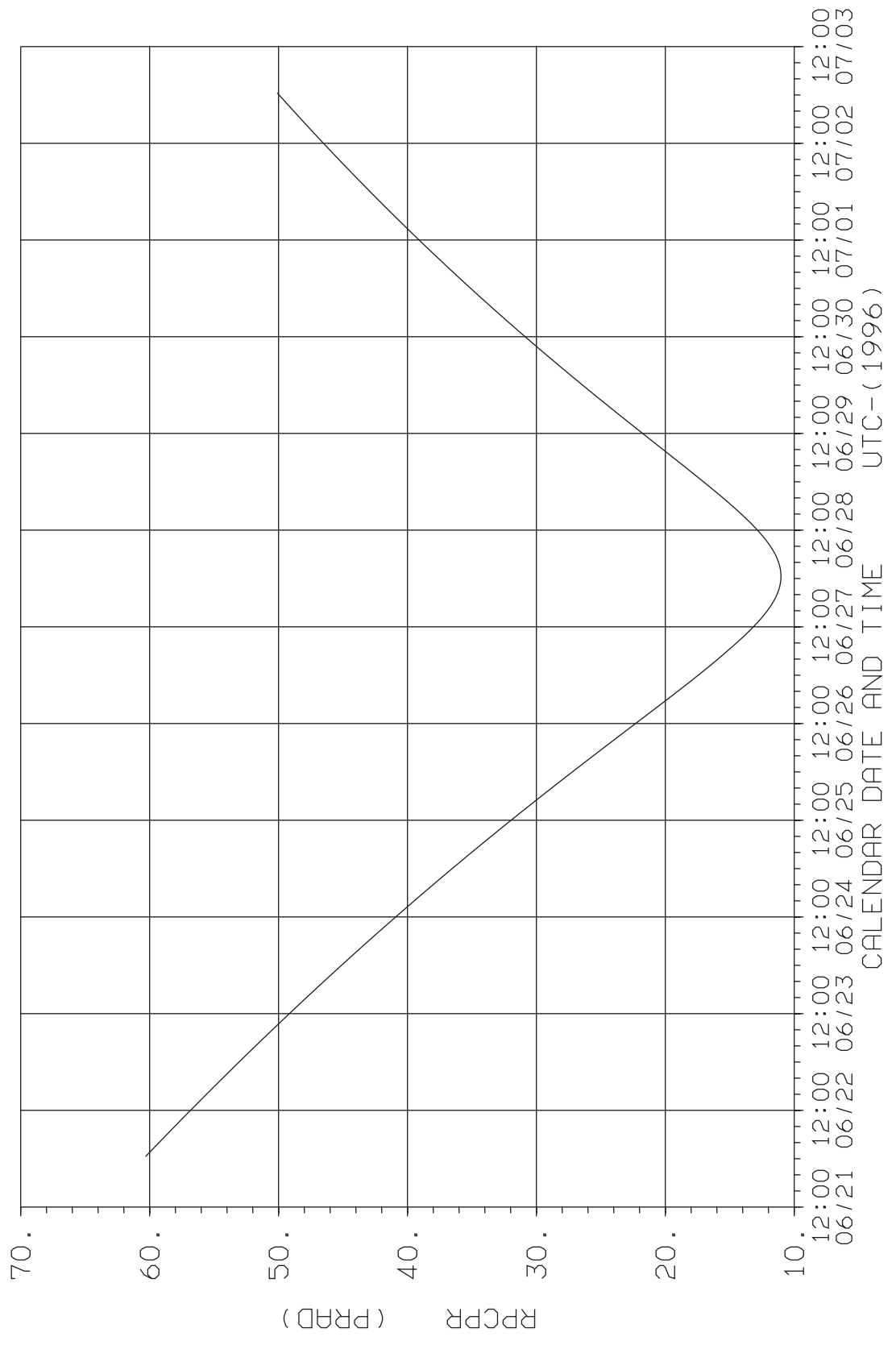
ORBIT 1: CONE ANGLE OF GANYMEDE (EARTH-S/C-GANYMEDE, DEG)



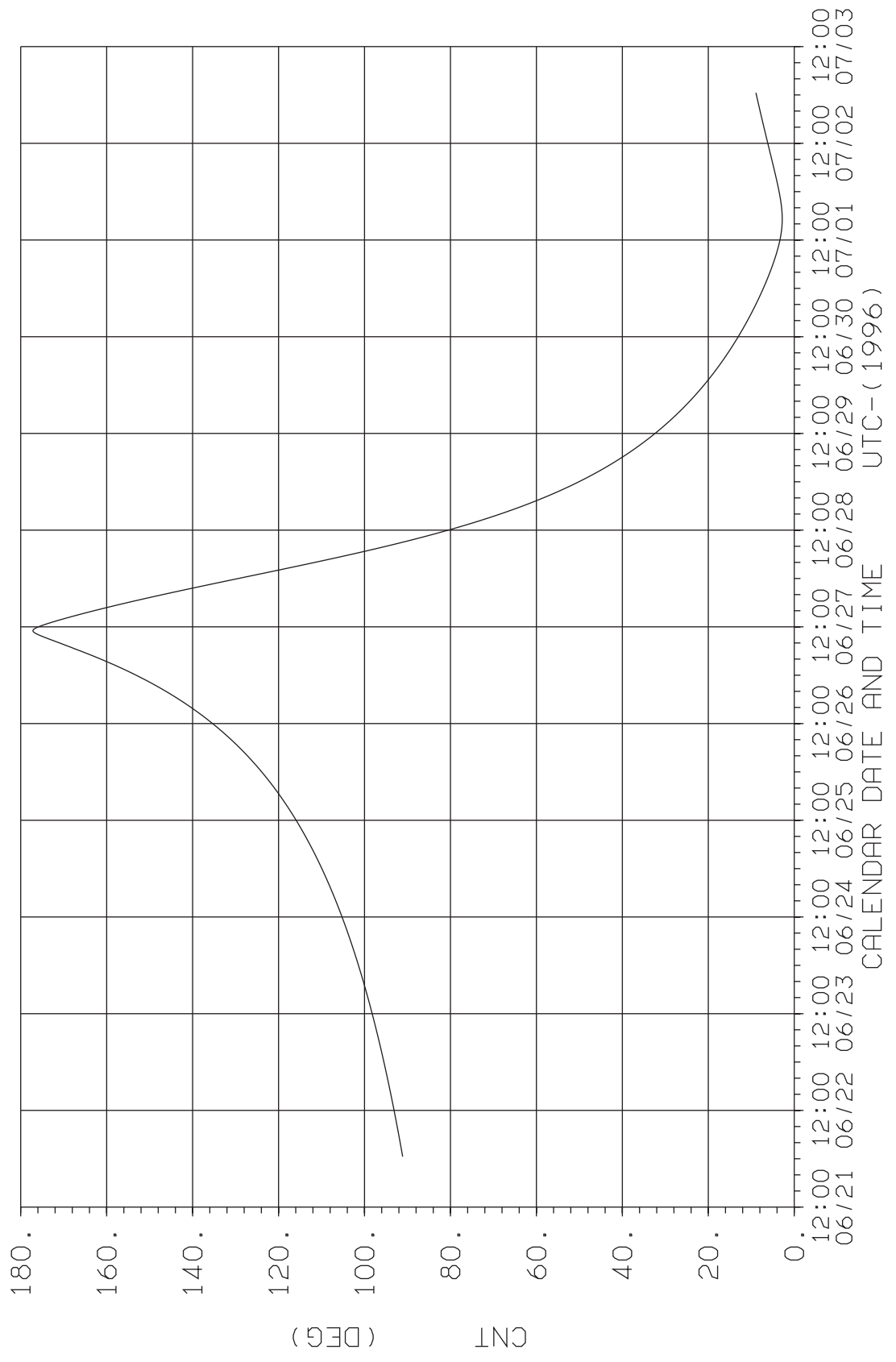
ORBIT 1: SUN-GANYMEDE-S/C ANGLE (DEG)



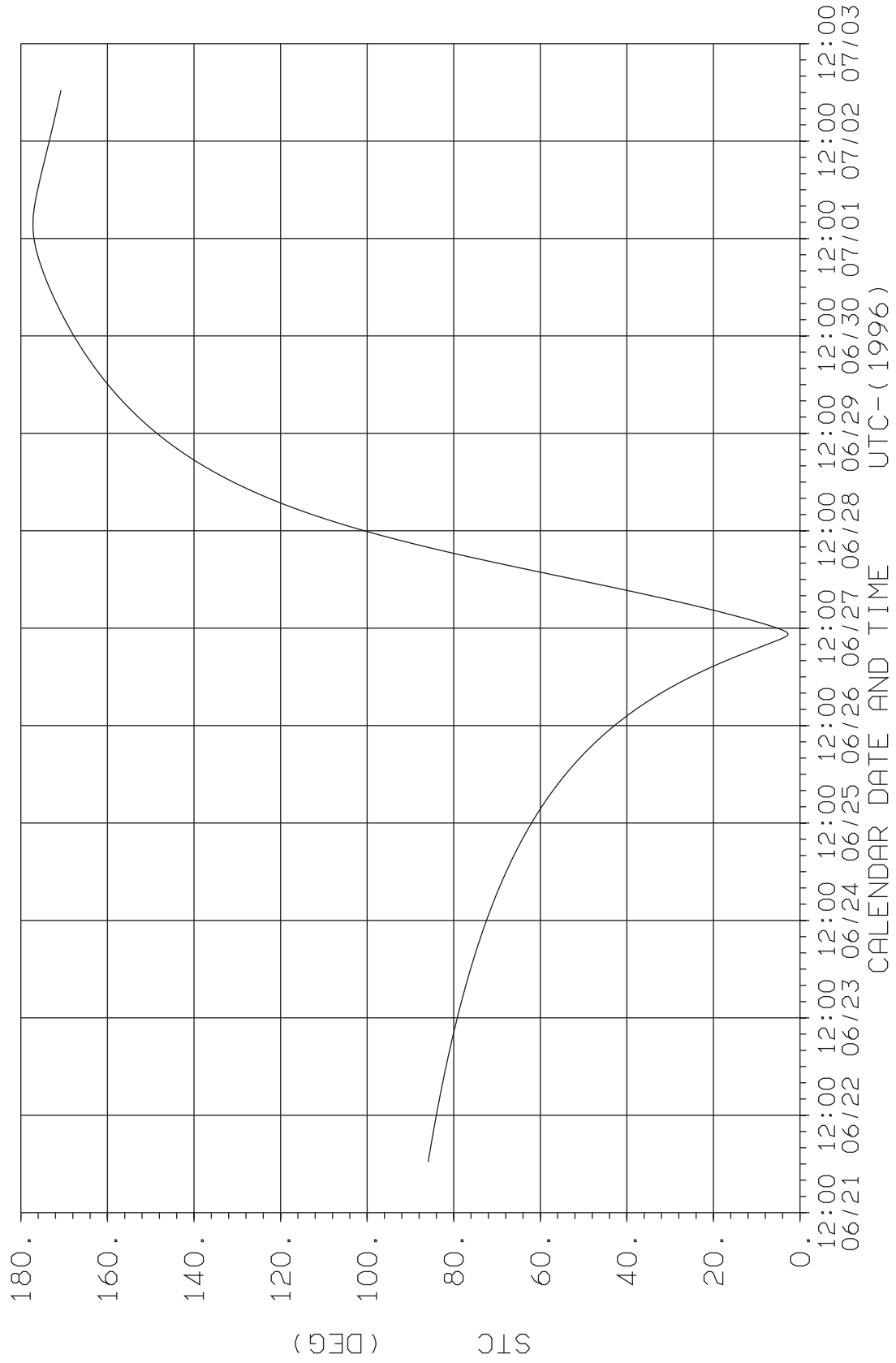
ORBIT 1 JUPITER: S/C RANGE TO JUPITER CENTER OF MASS (RJ)

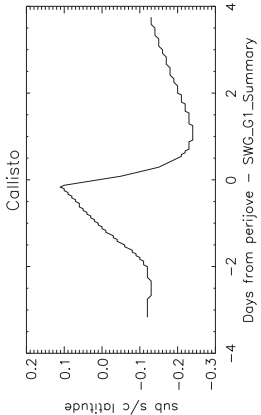
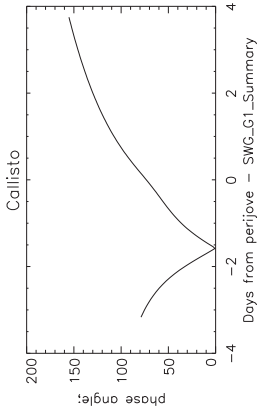
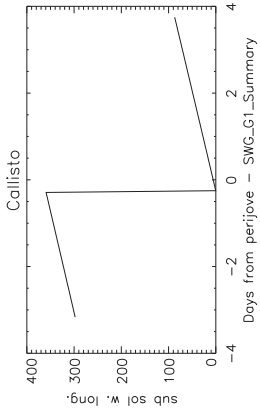
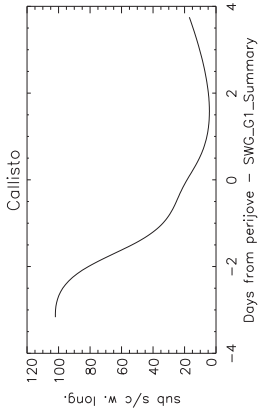
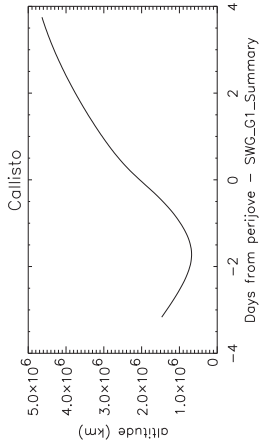
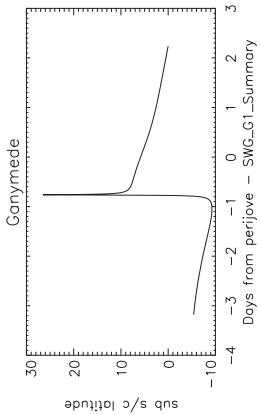
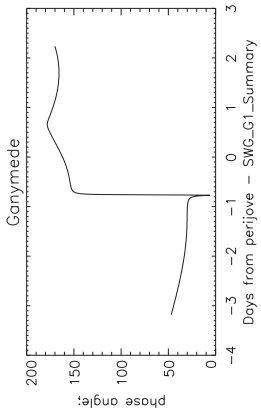
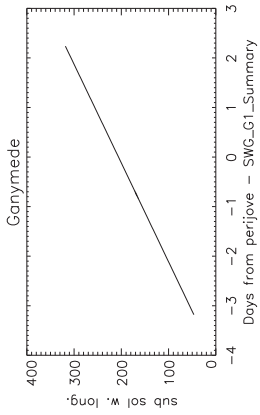
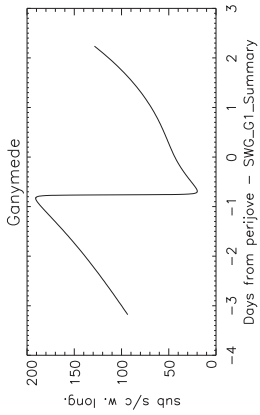
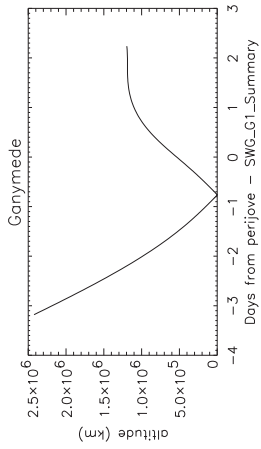
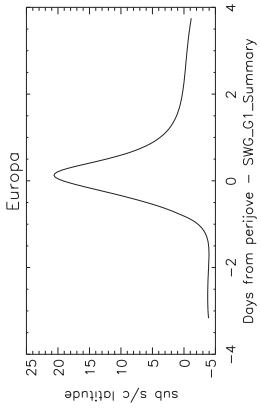
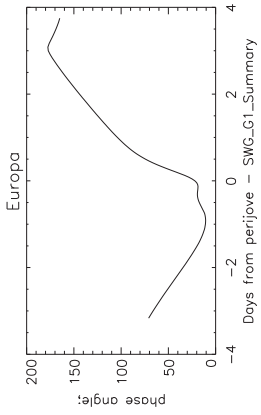
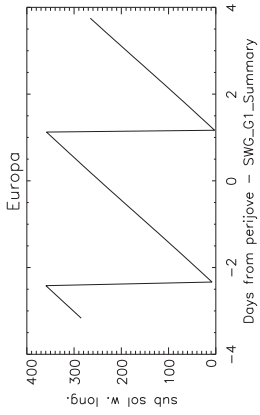
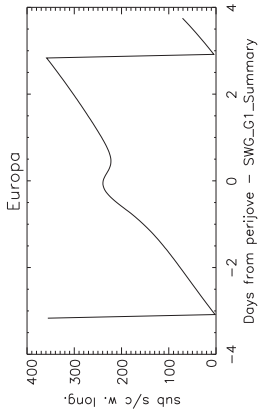
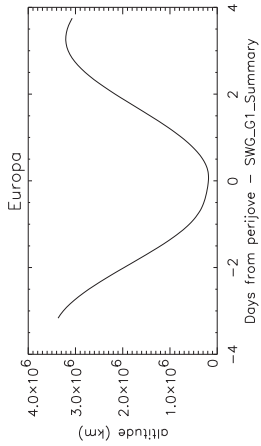
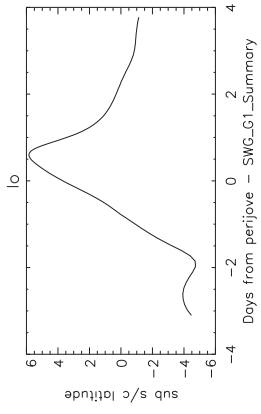
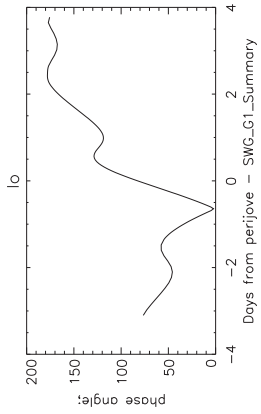
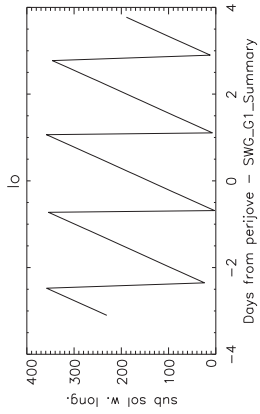
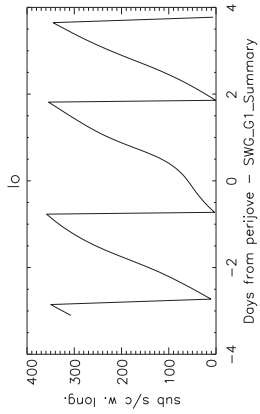
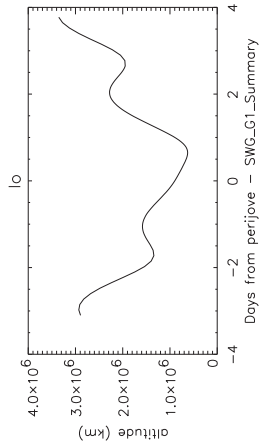


ORBIT 1 JUPITER: CONE ANGLE OF JUPITER (EARTH-S/C-JUP, DEG)



ORBIT 1 JUPITER: SUN-JUPITER-S/C ANGLE (DEG)





## Chapter 4 - NIMS Observation Summaries

### Contents

	Sub-Section	Page
4.0	Contents .....	1
4.1	Introduction to Chapter 4 .....	2
4.2	NIMS Sequence Summary .....	3-108
4.3	NIMS Individual Obstab Summaries .....	109-147
4.4	NIMS OBSTAB (Returned) .....	148-154

## Introduction to Chapter 4

This chapter summarizes the NIMS G1 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 G1 Sequence. The information in this summary is derived from the G1 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).  
Instrument Mode = 0-15
- 10) GO - NIMS Grating Offset.
- 11) GS - NIMS Grating Start Position.
- 12) RIM,MF,I - SCLK of the Command Line (RIM:MF:RTI)

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

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

The NIMS Obstab (Observation Table) is a time-ordered listing of the NIMS observation parameters for use by downlink data processing of the NIMS G1 data. It is also derived from the G1 SEFs and PBTs. Each Obstab entry is 512 bytes long but is presented here as 4 lines of 128 characters per entry.



Sequence:		G01AJA-AR		Created: 8/6/96		Begin: 96-175/16:00:00		Finish: 96-182/04:30:00				
Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1	96	175	15:59:59.800	20A3EW	37A	Initial Condition	NIMS Power ON	400	4	0	3,492,477:58:0	
2	96	175	15:59:59.800	20AEEV	37IST	Initial Condition		400	4	0	3,492,477:58:0	
3	96	175	15:59:59.800	20A3EX	37HR	Initial Condition	Replacement Heaters OFF	400	4	0	3,492,477:58:0	
4	96	175	15:59:59.800	20A3EY	37C1PR	Initial Condition	Optics Heater 1 OFF (primary relay)	400	4	0	3,492,477:58:0	
5	96	175	15:59:59.800	20A3EZ	37C2PR	Initial Condition	Optics Heater 2 OFF (primary relay)	400	4	0	3,492,477:58:0	
6	96	175	15:59:59.800	20A3FA	37F1PR	Initial Condition	Radiator Flash Heater OFF (primary relay)	400	4	0	3,492,477:58:0	
7	96	175	15:59:59.800	20A3FB	37F2PR	Initial Condition	Shield Flash Heater OFF (primary relay)	400	4	0	3,492,477:58:0	
8	96	175	15:59:59.800	20A3FD	40HRPR	Initial Condition	PCT Heater OFF (primary relay)	400	4	0	3,492,477:58:0	
9	96	175	15:59:59.800	20A3FE	40T1P	Initial Condition	PCT Heater 1 ON (primary relay)	400	4	0	3,492,477:58:0	
10	96	175	15:59:59.800	20A3FF	40T2	Initial Condition	PCT Heater 2 ON	400	4	0	3,492,477:58:0	
11	96	175	15:59:59.800	125DH4C	37IST	Initial Condition	Chopper OFF, N/A, 63Hz (Ref)Gain State 4	400	4	0	3,492,477:58:0	
12	96	175	15:59:59.800	125DH4D	37IOP	Initial Condition	Safe, Grating Start Position =00	400	4	0	3,492,477:58:0	
13	96	175	15:59:59.800		DMS:	: READY	RDY, TRACK 2, REV, TIC 5601.00 +/-	400	4	0	3,492,477:58:0	
14	96	175	16:00:21.800	432SA6A	6RTS2	NIMNCG,AACNCG,RT	RT ENG SELECT	400	4	0	3,492,478:00:0	
15	96	175	16:01:21.133	432JA6B	6RTD52	NIMDSL,AACNCG,RT	NIMS R/T DESELECT	400	4	0	3,492,478:89:0	
16	96	175	16:01:21.800	432JA431A6A	6RCD5L	DDSDSL,PLSDSL,EP	Record Deselect (DDS o	400	4	0	3,492,478:90:0	
17	96	175	16:01:22.466	432JA6D	6RTSL2	NIMNCG,AACSEL,RT	AACS SELECT	400	4	0	3,492,479:00:0	
18	96	175	16:01:22.466	432JA6C	6RTSL1		R/T Select of DDS and	400	4	0	3,492,479:00:0	
19	96	175	16:02:11.800	488AA6A	6TMSED	NORM,DL4	Sci, Eng, and D/L Chan	400	4	0	3,492,479:74:0	
20	96	175	16:04:59.800	418SA6B	6BUFIH		10 MUB Buffer high water	400	4	0	3,492,482:53:0	
21	96	175	16:04:59.800	418SA6A	6BUFLO		1 MUB Buffer low water m	400	4	0	3,492,482:53:0	
22	96	175	16:41:21.133	444UA443A4B	7MODE	INT	AACS INERTIAL MODE	400	4	0	3,492,518:49:0	
23	96	175	17:04:00.466	481UD4A	7VECT		Inert vect update UTC	400	4	0	3,492,540:86:0	
24	96	175	17:05:59.800	41W99A	POWER	PWR MODE change	Change to Data Taking Mode	400	4	0	3,492,542:83:0	
25	96	175	17:06:03.800	41W3K	37F2PR		1 Shield Flash Heater OFF (primary relay)	400	4	0	3,492,542:89:0	
26	96	175	17:06:13.800	41W3L	37F2PR		2 Shield Flash Heater OFF (primary relay)	400	4	0	3,492,543:13:0	
27	96	175	17:06:23.800	41W3A	40T1PR		1 PCT Heater 1 OFF (primary relay)	400	4	0	3,492,543:28:0	
28	96	175	17:06:33.800	41W3B	40T1PR		2 PCT Heater 1 OFF (primary relay)	400	4	0	3,492,543:43:0	
29	96	175	17:06:43.800	41W3C	40T2R		1 PCT Heater 2 OFF	400	4	0	3,492,543:58:0	
30	96	175	17:06:53.800	41W3D	40T2R		2 PCT Heater 2 OFF	400	4	0	3,492,543:73:0	
31	96	175	17:16:11.800	465QB6A	6DMSC	RDY,1	DMS Control Tape stop	400	4	0	3,492,553:00:0	
32	96	175	17:16:11.800		DMS:	: READY	RDY, TRACK *1, *FWD, TIC 5601.00 +/-	400	4	0	3,492,553:00:0	
33	96	175	17:16:17.133	465QA6A	6DTRN	CMD,6DTRN,465QA6	DMS TRACK TURNAROUND	400	4	0	3,492,553:08:0	
34	96	175	17:16:17.133		DMS:	: *DMS-TURN	P7, TRACK 1, FWD, TIC 5601.00 +/-	400	4	0	3,492,553:08:0	
35	96	175	17:21:45.133	432BA6A	6RTSL1		R/T Select of DDS and	400	4	0	3,492,558:45:0	
36	96	175	17:47:18.333		DMS:	: *REVERSE	P7, TRACK 1, FWD, TIC *6037.00 +/-	400	4	0	3,492,583:69:8	
37	96	175	17:47:19.733		DMS:	: *TURNARND	P7, TRACK *2, *REV, TIC *6037.06 +/-	400	4	0	3,492,583:71:9	
38	96	175	17:48:13.533		DMS:	: *AUTOSTOP	P7, TRACK 2, REV, TIC *6024.66 +/-	400	4	0	3,492,584:61:6	
39	96	175	17:48:14.933		DMS:		RDY, TRACK 2, REV, TIC *6024.60 +/-	400	4	0	3,492,584:63:7	
40	96	175	18:54:15.133	431YL6A	6RCD5L	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	400	4	0	3,492,649:89:0	
41	96	175	18:54:15.133	165CA4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	400	4	0	3,492,649:89:0	
42	96	175	18:54:15.800	165CA4B	7SCAN	NORM,209.092999,	Check S/P Position	400	4	0	3,492,649:90:0	
43	96	175	18:57:25.133	20YC6A	6HICON			400	4	0	3,492,653:10:0	
44	96	175	18:58:19.133	431YM6A	6RCSEL	DDSNCG,PLSNCG,EP	Record Select (DDS onl	400	4	0	3,492,654:00:0	
45	96	175	19:08:59.800	200A6A	6HICON			400	4	0	3,492,664:51:0	
46	96	175	19:13:59.800	432OA6A	6RTSL1		R/T Select of DDS and	400	4	0	3,492,669:46:0	
47	96	175	19:34:41.800	165CB4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	400	4	0	3,492,689:89:0	
48	96	175	19:34:42.466	165CB4B	7SCAN	NORM,209.592999,	Check S/P Position	400	4	0	3,492,689:90:0	
49	96	175	19:52:35.800	488AA6B	6TMSED	NORM,DL3	Sci, Eng, and D/L Chan	400	4	0	3,492,707:62:0	
50	96	175	20:14:33.133	488AA6C	6TMSED	FILL,DL3	Sci, Eng, and D/L Chan	400	4	0	3,492,729:36:0	
51	96	175	20:24:35.800	488AA6D	6TMSED	FILL,DL2	Sci, Eng, and D/L Chan	400	4	0	3,492,739:30:0	
52	96	175	20:54:34.466	165CC4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	400	4	0	3,492,768:89:0	
53	96	175	20:54:35.133	165CC4B	7SCAN	NORM,210.553999,	Check S/P Position	400	4	0	3,492,768:90:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
54	96	175	20:56:35.800	488AA6E	6TMSED	FILL,DL3	Sci. Eng. and D/L Chan	400	4	0	3,492,770:89:0	
55	96	175	21:11:42.466	488AB6A	6TMSED	NORM,DL3	Sci. Eng. and D/L Chan	400	4	0	3,492,785:84:0	
56	96	175	21:30:43.800	488AB6B	6TMSED	NORM,DL4	Sci. Eng. and D/L Chan	400	4	0	3,492,804:67:0	
57	96	175	21:31:38.466	488AB6C	6TMSED	FILL,DL4	Sci. Eng. and D/L Chan	400	4	0	3,492,805:58:0	
58	96	175	21:49:10.466	165CD4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	400	4	0	3,492,822:89:0	
59	96	175	21:49:11.133	165CD4B	7SCAN	NORM,211.029999,	Check S/P Position	400	4	0	3,492,822:90:0	
60	96	175	21:58:56.466	488AB6D	6TMSED	NORM,DL4	Sci. Eng. and D/L Chan	400	4	0	3,492,832:58:0	
61	96	175	23:43:25.800	165AA4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	400	4	0	3,492,935:89:0	
62	96	175	23:43:26.466	165AA4B	7SCAN	NORM,205.272999,	Check S/P Position	400	4	0	3,492,935:90:0	
63	96	176	00:17:48.466	165AB4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	400	4	0	3,492,969:89:0	
64	96	176	00:17:49.133	165AB4B	7SCAN	NORM,205.735998,	Check S/P Position	400	4	0	3,492,969:90:0	
65	96	176	00:19:41.133	175AA422A6A	6DMSC	R7.0	DMS Control Tape runup 7.68kps	400	4	0	3,492,971:76:0	
66	96	176	00:19:41.133		DMS:	: *US-RUNUP	R7, TRACK 2, REV, TIC 6024.60 +/-	400	4	0	3,492,971:76:0	
67	96	176	00:19:41.800	117AA	CSMOS	GS	***** GROUP START CSMOS	400	4	0	3,492,971:77:0	
68	96	176	00:19:50.466	175AA176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	400	4	0	3,492,971:90:0	
69	96	176	00:19:50.666		DMS:	: *RECORD	R7, TRACK 2, REV, TIC *6025.88 +/-	400	4	0	3,492,971:90:3	
70	96	176	00:19:51.133	117AA105A106A4A	7STRP	-0.051947.0.0.0,	Slew = 0.03	400	4	0	3,492,972:00:0	
71	96	176	00:29:59.800	488AB6E	6TMSED	NORM,DL4	Sci. Eng. and D/L Chan	400	4	0	3,492,982:03:0	
72	96	176	00:49:10.466	117AA11A	CSMOS	GE	***** GROUP END CSMOS	400	4	0	3,493,001:00:0	
73	96	176	00:50:09.800	165AC4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	400	4	0	3,493,001:89:0	
74	96	176	00:50:10.466	165AC4B	7SCAN	NORM,205.577999,	Check S/P Position	400	4	0	3,493,001:90:0	
75	96	176	00:50:21.133	175AA422A6B	6DMSC	RDY.0	DMS Control Tape stop	400	4	0	3,493,002:15:0	
76	96	176	00:50:21.133		DMS:	: *RUNDOWN	R7, TRACK 2, REV, TIC *5596.86 +/-	400	4	0	3,493,002:15:0	
77	96	176	00:50:22.533		DMS:	: *READY	RDY, TRACK 2, REV, TIC *5596.80 +/-	400	4	0	3,493,002:17:1	
78	96	176	00:51:41.800	432AA6A	6RTSL1		R/T Select of DDS and	400	4	0	3,493,003:45:0	
79	96	176	00:52:03.133	117AB	CSMOS	GS	***** GROUP START CSMOS	400	4	0	3,493,003:77:0	
80	96	176	00:52:12.466	117AB105A106A4A	7STRP	0.0.0.0.0.0.0.0,	Slew = 0.01	400	4	0	3,493,004:00:0	
81	96	176	01:21:31.800	117AB105A106A4B	7STRP	0.0025.0.0.0.0.0,	Slew = 12.01	400	4	0	3,493,033:00:0	
82	96	176	01:22:32.466	117AB105A106A4C	7STRP	0.0.0.0.0.0.0.0,	Slew = 0.01	400	4	0	3,493,034:00:0	
83	96	176	01:51:51.800	117AB105A106A4D	7STRP	0.0025.0.0.0.0.0,	Slew = 12.01	400	4	0	3,493,063:00:0	
84	96	176	01:52:52.466	117AB105A106A4E	7STRP	0.0.0.0.0.0.0.0,	Slew = -0.01	400	4	0	3,493,064:00:0	
85	96	176	02:22:11.800	117AB11A	CSMOS	GE	***** GROUP END CSMOS	400	4	0	3,493,093:00:0	
86	96	176	02:22:41.133	165AD4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	400	4	0	3,493,093:44:0	
87	96	176	02:22:41.800	165AD4B	7SCAN	NORM,200.699999,	Check S/P Position	400	4	0	3,493,093:45:0	
88	96	176	02:53:31.133	165AE4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	400	4	0	3,493,123:89:0	
89	96	176	02:53:31.800	165AE4B	7SCAN	NORM,205.57,-7.9	Check S/P Position	400	4	0	3,493,123:90:0	
90	96	176	03:10:00.000	G1NCHOPON01-		-----START-----		400	4	0	:	:
91	96	176	03:10:39.133	125FY	NIMSINIT	GS	##### GROUP START INIT	400	4	0	3,493,140:84:0	
92	96	176	03:10:39.433	125FY4A	37IST	1.0,0.OFF,0.0,0	Chopper ON, Sync, 63Hz (Ref)	460	4	0	3,493,140:84:0	
93	96	176	03:11:39.800	125FY4B	37IST	1.2,0.OFF,0.0,0	Chopper ON, Sync, Chopper (Ref)	4R0	4	0	3,493,141:84:0	
94	96	176	03:12:40.466	125FY11A	NIMSINIT	GE	##### GROUP END INIT	4R0	4	0	3,493,142:84:0	
95	96	176	03:12:40.466	125FY4C	37MB	0,0,0,0,0,0	Selects mirror (spatial) edit table	4R0	4	0	3,493,142:84:0	
96	96	176	03:20:00.000	G1NCHOPON01-		-----STOP-----		4R0	4	0	:	:
97	96	176	03:23:51.133	165AR4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R0	4	0	3,493,153:89:0	
98	96	176	03:23:51.800	165AR4B	7SCAN	NORM,205.064999,	Check S/P Position	4R0	4	0	3,493,153:90:0	
99	96	176	03:33:23.800	488AC6A	6TMSED	NORM,DL2	Sci. Eng. and D/L Chan	4R0	4	0	3,493,163:38:0	
100	96	176	03:33:30.466	488AC6B	6TMSED	FILL,DL2	Sci. Eng. and D/L Chan	4R0	4	0	3,493,163:48:0	
101	96	176	03:54:11.133	165AS4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R0	4	0	3,493,183:89:0	
102	96	176	03:54:11.800	165AS4B	7SCAN	NORM,205.210999,	Check S/P Position	4R0	4	0	3,493,183:90:0	
103	96	176	04:20:43.800	488AC6C	6TMSED	NORM,DL2	Sci. Eng. and D/L Chan	4R0	4	0	3,493,210:21:0	
104	96	176	04:26:32.466	165AH4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R0	4	0	3,493,215:89:0	
105	96	176	04:26:33.133	165AH4B	7SCAN	NORM,206.776999,	Check S/P Position	4R0	4	0	3,493,215:90:0	
106	96	176	04:28:25.800	117AC	CSMOS	GS	***** GROUP START CSMOS	4R0	4	0	3,493,217:77:0	
107	96	176	04:28:35.133	117AC105A106A4A	7STRP	0.0.0.0.0.0.0.0,	Slew = 0.01	4R0	4	0	3,493,218:00:0	
108	96	176	04:37:23.800	488AC6D	6TMSED	NORM,DL3	Sci. Eng. and D/L Chan	4R0	4	0	3,493,226:65:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
109	96	176	04:57:54.466	117AC105A106A4B	7STRP	0.003,0.0,0.0,0.0,	Slew =12.01	4R0	4	0	3,493,247:00:0	
110	96	176	04:58:55.133	117AC105A106A4C	7STRP	0.0,0.0,0.0,0.0,0.0,	Slew = 0.01	4R0	4	0	3,493,248:00:0	
111	96	176	05:09:23.800	488AC6E	6TMSED	NORM,DL4	Sci. Eng. and D/L Chan	4R0	4	0	3,493,258:33:0	
112	96	176	05:21:37.133	488AD6A	6TMSED	FILL,DL4	Sci. Eng. and D/L Chan	4R0	4	0	3,493,270:41:0	
113	96	176	05:28:14.466	117AC105A106A4D	7STRP	0.003,0.0,0.0,0.0,	Slew =12.01	4R0	4	0	3,493,277:00:0	
114	96	176	05:29:15.133	117AC105A106A4E	7STRP	0.0,0.0,0.0,0.0,0.0,	Slew =,0.01	4R0	4	0	3,493,278:00:0	
115	96	176	05:51:35.800	488AD6B	6TMSED	NORM,DL4	Sci. Eng. and D/L Chan	4R0	4	0	3,493,300:09:0	
116	96	176	05:58:34.466	117AC105A106A4F	7STRP	0.003,0.0,0.0,0.0,	Slew =12.01	4R0	4	0	3,493,307:00:0	
117	96	176	05:59:35.133	117AC105A106A4G	7STRP	0.0,0.0,0.0,0.0,0.0,	Slew = 0.01	4R0	4	0	3,493,308:00:0	
118	96	176	06:28:54.466	117AC105A106A4H	7STRP	0.003,0.0,0.0,0.0,	Slew =12.01	4R0	4	0	3,493,337:00:0	
119	96	176	06:29:55.133	117AC105A106A4I	7STRP	0.0,0.0,0.0,0.0,0.0,	Slew =,0.01	4R0	4	0	3,493,338:00:0	
120	96	176	06:59:14.466	117AC105A106A4J	7STRP	0.003,0.0,0.0,0.0,	Slew =12.01	4R0	4	0	3,493,367:00:0	
121	96	176	07:00:15.133	117AC105A106A4K	7STRP	0.0,0.0,0.0,0.0,0.0,	Slew =,0.01	4R0	4	0	3,493,368:00:0	
122	96	176	07:29:34.466	117AC105A106A4L	7STRP	0.003,0.0,0.0,0.0,	Slew =12.01	4R0	4	0	3,493,397:00:0	
123	96	176	07:30:35.133	117AC105A106A4M	7STRP	0.0,0.0,0.0,0.0,0.0,	Slew = 0.01	4R0	4	0	3,493,398:00:0	
124	96	176	07:59:54.466	117AC105A106A4N	7STRP	0.003,0.0,0.0,0.0,	Slew =12.01	4R0	4	0	3,493,427:00:0	
125	96	176	08:00:55.133	117AC105A106A4O	7STRP	0.0,0.0,0.0,0.0,0.0,	Slew = 0.01	4R0	4	0	3,493,428:00:0	
126	96	176	08:12:51.800	488AD6C	6TMSED	NORM,DL3	Sci. Eng. and D/L Chan	4R0	4	0	3,493,439:74:0	
127	96	176	08:30:14.466	117AC105A106A4P	7STRP	0.003,0.0,0.0,0.0,	Slew =12.01	4R0	4	0	3,493,457:00:0	
128	96	176	08:31:15.133	117AC105A106A4Q	7STRP	0.0,0.0,0.0,0.0,0.0,	Slew = 0.01	4R0	4	0	3,493,458:00:0	
129	96	176	08:49:07.800	488AD6D	6TMSED	NORM,DL4	Sci. Eng. and D/L Chan	4R0	4	0	3,493,475:62:0	
130	96	176	09:00:34.466	117AC105A106A4R	7STRP	0.003,0.0,0.0,0.0,	Slew =12.01	4R0	4	0	3,493,487:00:0	
131	96	176	09:01:35.133	117AC105A106A4S	7STRP	0.0,0.0,0.0,0.0,0.0,	Slew =,0.01	4R0	4	0	3,493,488:00:0	
132	96	176	09:30:54.466	117AC105A106A4T	7STRP	0.003,0.0,0.0,0.0,	Slew =12.01	4R0	4	0	3,493,517:00:0	
133	96	176	09:31:55.133	117AC105A106A4U	7STRP	0.0,0.0,0.0,0.0,0.0,	Slew = 0.01	4R0	4	0	3,493,518:00:0	
134	96	176	10:01:14.466	117AC105A106A4V	7STRP	0.003,0.0,0.0,0.0,	Slew =12.01	4R0	4	0	3,493,547:00:0	
135	96	176	10:02:15.133	117AC105A106A4W	7STRP	0.0,0.0,0.0,0.0,0.0,	Slew = 0.01	4R0	4	0	3,493,548:00:0	
136	96	176	10:31:34.466	117AC105A106A4X	7STRP	0.003,0.0,0.0,0.0,	Slew =12.01	4R0	4	0	3,493,577:00:0	
137	96	176	10:32:35.133	117AC105A106A4Y	7STRP	0.0,0.0,0.0,0.0,0.0,	Slew = 0.01	4R0	4	0	3,493,578:00:0	
138	96	176	11:01:54.466	117AC105A106A4Z	7STRP	0.003,0.0,0.0,0.0,	Slew =12.01	4R0	4	0	3,493,607:00:0	
139	96	176	11:02:55.133	117AC105A106A4AA	7STRP	0.0,0.0,0.0,0.0,0.0,	Slew =,0.01	4R0	4	0	3,493,608:00:0	
140	96	176	11:32:14.466	117AC105A106A4AB	7STRP	0.003,0.0,0.0,0.0,	Slew =12.01	4R0	4	0	3,493,637:00:0	
141	96	176	11:33:15.133	117AC105A106A4AC	7STRP	0.0,0.0,0.0,0.0,0.0,	Slew =,0.01	4R0	4	0	3,493,638:00:0	
142	96	176	12:02:34.466	117AC105A106A4AD	7STRP	0.003,0.0,0.0,0.0,	Slew =12.01	4R0	4	0	3,493,667:00:0	
143	96	176	12:03:35.133	117AC105A106A4AE	7STRP	0.0,0.0,0.0,0.0,0.0,	Slew = 0.01	4R0	4	0	3,493,668:00:0	
144	96	176	12:32:54.466	117AC105A106A4AF	7STRP	0.003,0.0,0.0,0.0,	Slew =12.01	4R0	4	0	3,493,697:00:0	
145	96	176	12:33:55.133	117AC105A106A4AG	7STRP	0.0,0.0,0.0,0.0,0.0,	Slew = 0.01	4R0	4	0	3,493,698:00:0	
146	96	176	13:03:14.466	117AC105A106A4AH	7STRP	0.003,0.0,0.0,0.0,	Slew =12.01	4R0	4	0	3,493,727:00:0	
147	96	176	13:04:15.133	117AC105A106A4AI	7STRP	0.0,0.0,0.0,0.0,0.0,	Slew = 0.01	4R0	4	0	3,493,728:00:0	
148	96	176	13:33:34.466	117AC105A106A4AJ	7STRP	0.003,0.0,0.0,0.0,	Slew =12.01	4R0	4	0	3,493,757:00:0	
149	96	176	13:34:35.133	117AC105A106A4AK	7STRP	0.0,0.0,0.0,0.0,0.0,	Slew =,0.01	4R0	4	0	3,493,758:00:0	
150	96	176	14:03:54.466	117AC105A106A4AL	7STRP	0.003,0.0,0.0,0.0,	Slew =12.01	4R0	4	0	3,493,787:00:0	
151	96	176	14:04:55.133	117AC105A106A4AM	7STRP	0.0,0.0,0.0,0.0,0.0,	Slew =,0.01	4R0	4	0	3,493,788:00:0	
152	96	176	14:34:14.466	117AC11A	CSMOS	GE	***** GROUP END CSMOS	4R0	4	0	3,493,817:00:0	
153	96	176	14:36:22.466	20KA4A	7SAFE	UNSTOW	SIP TO 153 deg cone	4R0	4	0	3,493,819:10:0	
154	96	176	18:14:59.733	488AE6A	6TMSED	NORM,AL4	Sci. Eng. and D/L Chan	4R0	4	0	3,494,035:30:0	
155	96	176	18:19:59.733	41V99A	POWER	PWR MODE change	Change to Maneuver Mode	4R0	4	0	3,494,040:25:0	
156	96	176	18:20:03.733	41V3K	37F2PR		1 Shield Flash Heater OFF (primary relay)	4R0	4	0	3,494,040:31:0	
157	96	176	18:20:13.733	41V3L	37F2PR		2 Shield Flash Heater OFF (primary relay)	4R0	4	0	3,494,040:46:0	
158	96	176	18:21:59.733	488AE6B	6TMSED	NORM,AH4	Sci. Eng. and D/L Chan	4R0	4	0	3,494,042:23:0	
159	96	176	18:22:23.733	41V3G	40T1P		1 PCT Heater 1 ON (primary relay)	4R0	4	0	3,494,042:59:0	
160	96	176	18:22:33.733	41V3H	40T1P		2 PCT Heater 1 ON (primary relay)	4R0	4	0	3,494,042:74:0	
161	96	176	18:22:43.733	41V3I	40T2		1 PCT Heater 2 ON	4R0	4	0	3,494,042:89:0	
162	96	176	18:22:53.733	41V3J	40T2		2 PCT Heater 2 ON	4R0	4	0	3,494,043:13:0	
163	96	176	18:39:59.733	474AA416A4B	7MODE	INT	AACS INERTIAL MODE	4R0	4	0	3,494,060:05:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
164	96	176	18:41:59.733	474AA416A4D	7SAFE	UNSTOW	SIP TO 153 deg cone	4R0	4	0	3,494,062:03:0	
165	96	176	18:46:13.733	474AA416A4E	7BURN	.233.195799,54.2	ALERT -- Thruster fire	4R0	4	0	3,494,066:20:0	
166	96	176	19:48:19.733	488AE6C	6TMSED	NORM,AH2	Sci. Eng. and D/L Chan	4R0	4	0	3,494,127:58:0	
167	96	176	19:52:43.066	474AA416A4K	7BURN	.233.195799,54.2	ALERT -- Thruster fire	4R0	4	0	3,494,131:89:0	
168	96	176	20:03:27.733	488AE6D	6TMSED	FILL,AH2	Sci. Eng. and D/L Chan	4R0	4	0	3,494,142:55:0	
169	96	176	20:49:21.733	432B6A	6RTSL1		R/T Select of DDS and	4R0	4	0	3,494,188:00:0	
170	96	176	21:05:45.733	488AE6E	6TMSED	NORM,AH2	Sci. Eng. and D/L Chan	4R0	4	0	3,494,204:20:0	
171	96	176	21:23:13.066	488AF6A	6TMSED	FILL,AH2	Sci. Eng. and D/L Chan	4R0	4	0	3,494,221:44:0	
172	96	176	21:26:27.733	488AF6B	6TMSED	FILL,AH3	Sci. Eng. and D/L Chan	4R0	4	0	3,494,224:63:0	
173	96	176	21:58:38.400	488AF6C	6TMSED	NORM,AH3	Sci. Eng. and D/L Chan	4R0	4	0	3,494,256:47:0	
174	96	176	22:04:30.400	488AF6D	6TMSED	FILL,AH3	Sci. Eng. and D/L Chan	4R0	4	0	3,494,262:29:0	
175	96	176	22:32:35.733	488AF6E	6TMSED	FILL,AH4	Sci. Eng. and D/L Chan	4R0	4	0	3,494,290:09:0	
176	96	176	22:39:36.400	488AG6A	6TMSED	NORM,AH4	Sci. Eng. and D/L Chan	4R0	4	0	3,494,297:03:0	
177	96	176	23:29:59.733	488AG6B	6TMSED	NORM,DL4	Sci. Eng. and D/L Chan	4R0	4	0	3,494,346:79:0	
178	96	176	23:29:59.733	41X99A	POWER	PWR MODE change	Change to Data Taking Mode	4R0	4	0	3,494,346:79:0	
179	96	176	23:30:03.733	41X3K	37F2PR		1 Shield Flash Heater OFF (primary relay)	4R0	4	0	3,494,346:85:0	
180	96	176	23:30:13.733	41X3L	37F2PR		2 Shield Flash Heater OFF (primary relay)	4R0	4	0	3,494,347:09:0	
181	96	176	23:30:23.733	41X3A	40T1PR		1 PCT Heater 1 OFF (primary relay)	4R0	4	0	3,494,347:24:0	
182	96	176	23:30:33.733	41X3B	40T1PR		2 PCT Heater 1 OFF (primary relay)	4R0	4	0	3,494,347:39:0	
183	96	176	23:30:43.733	41X3C	40T2R		1 PCT Heater 2 OFF	4R0	4	0	3,494,347:54:0	
184	96	176	23:30:53.733	41X3D	40T2R		2 PCT Heater 2 OFF	4R0	4	0	3,494,347:69:0	
185	96	176	23:40:13.066	165BD4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R0	4	0	3,494,356:89:0	
186	96	176	23:40:13.733	165BD4B	7SCAN	NORM:204.869999,	Check S/P Position	4R0	4	0	3,494,356:90:0	
187	96	176	23:40:59.066	432ON431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	4R0	4	0	3,494,357:67:0	
188	96	176	23:40:59.733	432ON6A	6RTSL1		R/T Select of DDS and	4R0	4	0	3,494,357:68:0	
189	96	177	02:29:23.733	488AG6C	6TMSED	NORM,DL3	Sci. Eng. and D/L Chan	4R0	4	0	3,494,524:27:0	
190	96	177	03:10:31.733	165BE4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R0	4	0	3,494,564:89:0	
191	96	177	03:10:32.400	165BE4B	7SCAN	NORM:223.969999,	Check S/P Position	4R0	4	0	3,494,564:90:0	
192	96	177	03:30:23.066	488AG6D	6TMSED	FILL,DL3	Sci. Eng. and D/L Chan	4R0	4	0	3,494,584:56:0	
193	96	177	03:33:23.733	488AG6E	6TMSED	FILL,DL2	Sci. Eng. and D/L Chan	4R0	4	0	3,494,587:54:0	
194	96	177	04:05:23.733	488AH6A	6TMSED	FILL,DL3	Sci. Eng. and D/L Chan	4R0	4	0	3,494,619:22:0	
195	96	177	04:29:25.066	411JA6A	6DMSC	R7.0	DMS Control Tape runup 7.68kps	4R0	4	0	3,494,643:00:0	
196	96	177	04:29:25.066		DMS:	: *US-RUNUP	R7, TRACK 2, REV, TIC 5596.80 +/-	4R0	4	0	3,494,643:00:0	
197	96	177	04:29:34.600		DMS:	: *RECORD	R7, TRACK 2, REV, TIC *5598.08 +/-	4R0	4	0	3,494,643:14:3	
198	96	177	04:29:35.066	411JA6B	6TMREC	BDT	7.68 KBPS BUFFER DUMP TO TAPE Record Mode	4R0	4	0	3,494,643:15:0	
199	96	177	04:31:36.400	411JA6D	6TMREC	NRC	NO RECORD Record Mode Change	4R0	4	0	3,494,645:15:0	
200	96	177	04:31:36.400	411JA6C	6DMSC	RDY.0	DMS Control Tape stop	4R0	4	0	3,494,645:15:0	
201	96	177	04:31:36.400		DMS:	: *RUNDOWN	R7, TRACK 2, REV, TIC *5569.53 +/-	4R0	4	0	3,494,645:15:0	
202	96	177	04:31:37.800		DMS:	: *READY	RDY, TRACK 2, REV, TIC *5569.47 +/-	4R0	4	0	3,494,645:17:1	
203	96	177	05:23:37.733	488AH6B	6TMSED	NORM,DL3	Sci. Eng. and D/L Chan	4R0	4	0	3,494,696:56:0	
204	96	177	07:14:59.733	488AH6C	6TMSED	NORM,EL3	Sci. Eng. and D/L Chan	4R0	4	0	3,494,806:69:0	
205	96	177	07:17:14.400	165AI4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R0	4	0	3,494,808:89:0	
206	96	177	07:17:15.066	165AI4B	7SCAN	NORM:239.884998,	Check S/P Position	4R0	4	0	3,494,808:90:0	
207	96	177	07:21:09.066	117AD	CSMOS	GS	***** GROUP START CSMOS	4R0	4	0	3,494,812:77:0	
208	96	177	07:21:18.400	117AD105A106A4A	7STRP	-0.016501,0.0,0.0,	Slew = 0.01	4R0	4	0	3,494,813:00:0	
209	96	177	07:50:37.733	117AD105A106A4B	7STRP	0.023004,0.0,0.0,0	Slew = 12.01	4R0	4	0	3,494,842:00:0	
210	96	177	07:51:38.400	117AD105A106A4C	7STRP	-0.016501,0.0,0.0,	Slew = 0.01	4R0	4	0	3,494,843:00:0	
211	96	177	08:12:51.733	488AH6D	6TMSED	NORM,EL4	Sci. Eng. and D/L Chan	4R0	4	0	3,494,863:90:0	
212	96	177	08:20:57.733	117AD11A	CSMOS	GE	***** GROUP END CSMOS	4R0	4	0	3,494,872:00:0	
213	96	177	08:21:57.066	165AJ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R0	4	0	3,494,872:89:0	
214	96	177	08:21:57.733	165AJ4B	7SCAN	NORM:238.251999,	Check S/P Position	4R0	4	0	3,494,872:89:0	
215	96	177	08:52:17.066	165BF4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R0	4	0	3,494,902:89:0	
216	96	177	08:52:17.733	165BF4B	7SCAN	NORM:227.542999,	Check S/P Position	4R0	4	0	3,494,902:90:0	
217	96	177	09:01:55.733	488AH6E	6TMSED	NORM,EL5	Sci. Eng. and D/L Chan	4R0	4	0	3,494,912:47:0	
218	96	177	11:05:39.733	488AI6A	6TMSED	NORM,EL6	Sci. Eng. and D/L Chan	4R0	4	0	3,495,034:81:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
219	96	177	12:14:59.733	488AJ6B	6TMSED	NORM,FL6	Sci, Eng, and D/L Chan	4R0	4	0	3,495,103:42:0	
220	96	177	13:53:35.733	165CE4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R0	4	0	3,495,200:89:0	
221	96	177	13:53:36.400	165CE4B	7SCAN	NORM,230:421,-16	Check S/P Position	4R0	4	0	3,495,200:90:0	
222	96	177	14:19:53.066	165CF4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R0	4	0	3,495,226:89:0	
223	96	177	14:19:53.733	165CF4B	7SCAN	NORM,231,035999,	Check S/P Position	4R0	4	0	3,495,226:90:0	
224	96	177	14:48:11.733	165BG4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R0	4	0	3,495,254:89:0	
225	96	177	14:48:12.400	165BG4B	7SCAN	NORM,209,070999,	Check S/P Position	4R0	4	0	3,495,254:90:0	
226	96	177	16:48:31.066	165CG4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R0	4	0	3,495,373:89:0	
227	96	177	16:48:31.733	165CG4B	7SCAN	NORM,234,476999,	Check S/P Position	4R0	4	0	3,495,373:90:0	
228	96	177	16:53:23.733	488AJ6C	6TMSED	NORM,FL5	Sci, Eng, and D/L Chan	4R0	4	0	3,495,378:73:0	
229	96	177	17:11:46.400	165CH4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R0	4	0	3,495,396:89:0	
230	96	177	17:11:47.066	165CH4B	7SCAN	NORM,235,029999,	Check S/P Position	4R0	4	0	3,495,396:90:0	
231	96	177	17:29:59.733	488AJ6A	6TMSED	NORM,DL5	Sci, Eng, and D/L Chan	4R0	4	0	3,495,415:00:0	
232	96	177	17:33:00.400	165IA4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R0	4	0	3,495,417:89:0	
233	96	177	17:33:01.066	165IA4B	7SCAN	NORM,231,344,-16	Check S/P Position	4R0	4	0	3,495,417:90:0	
234	96	177	17:36:07.733	118IA	SMOS	GS		4R0	4	0	3,495,421:06:0	
235	96	177	17:36:40.400	118IA110A11A4A	7STRP	0.00305,0.0,0.26,0	Slew = 3.01	4R0	4	0	3,495,421:55:0	
236	96	177	17:36:49.066	118IA110A11A4B	7STRP	-0.00295,0.003,0	Slew = 2.01	4R0	4	0	3,495,421:68:0	
237	96	177	17:36:57.733	118IA110A11A4C	7STRP	0.00305,0.0,0.26,0	Slew = 3.01	4R0	4	0	3,495,421:81:0	
238	96	177	17:36:59.066	175IA422A6A	6DMSC	R115:0	DMS Control Tape runup 115.2kb	4R0	4	0	3,495,421:83:0	
239	96	177	17:36:59.066		DMS:	: *US-RUNUP	R115, TRACK 2, REV, TIC 5569.47 +/-	4R0	4	0	3,495,421:83:0	
240	96	177	17:37:06.400	118IA11A	SMOS	GE		4R0	4	0	3,495,422:03:0	
241	96	177	17:37:11.066	175IA176A6A	6TMREC	HIM	115.2 KBPS SSI + NIMS RECORD Record Mode	4R0	4	0	3,495,422:10:0	
242	96	177	17:37:11.133		DMS:	: *RECORD	R115, TRACK 2, REV, TIC *5564.60 +/-	4R0	4	0	3,495,422:10:1	
243	96	177	17:40:05.066	165BH4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R0	4	0	3,495,424:89:0	
244	96	177	17:40:05.733		DMS:	: *RUNDOWN	R115, TRACK 2, REV, TIC *4950.77 +/-	4R0	4	0	3,495,424:90:0	
245	96	177	17:40:05.733	465TB6A	6DMSC	P7,1	DMS Control Tape P/B 7.68kbps	4R0	4	0	3,495,424:90:0	
246	96	177	17:40:05.733	165BH4B	7SCAN	NORM,233,629999,	Check S/P Position	4R0	4	0	3,495,424:90:0	
247	96	177	17:40:07.133		DMS:	: *RUNUP	P7, TRACK *1, *FWD, TIC *4949.86 +/-	4R0	4	0	3,495,425:01:1	
248	96	177	17:40:08.600		DMS:	: *P SLEW	P7, TRACK 1, FWD, TIC *4949.98 +/-	4R0	4	0	3,495,425:03:3	
249	96	177	18:10:13.733	465TB6B	6DMSC	RDY,1	DMS Control Tape stop	4R0	4	0	3,495,454:72:0	
250	96	177	18:10:13.733		DMS:	: *RUNDOWN	P7, TRACK 1, FWD, TIC *5373.05 +/-	4R0	4	0	3,495,454:72:0	
251	96	177	18:10:15.133		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *5373.11 +/-	4R0	4	0	3,495,454:74:1	
252	96	177	19:18:27.733	488AJ6B	6TMSED	NORM,DL4	Sci, Eng, and D/L Chan	4R0	4	0	3,495,522:25:0	
253	96	177	19:58:36.400	165BI4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R0	4	0	3,495,561:89:0	
254	96	177	19:58:37.066	165BI4B	7SCAN	NORM,213,265999,	Check S/P Position	4R0	4	0	3,495,561:90:0	
255	96	177	20:06:18.400	488AJ6C	6TMSED	FILL,DL4	Sci, Eng, and D/L Chan	4R0	4	0	3,495,569:54:0	
256	96	177	20:13:55.733	488AJ6D	6TMSED	FILL,DL2	Sci, Eng, and D/L Chan	4R0	4	0	3,495,577:12:0	
257	96	177	21:05:47.733	488AJ6E	6TMSED	NORM,DL2	Sci, Eng, and D/L Chan	4R0	4	0	3,495,628:39:0	
258	96	177	21:29:59.733	488AK6A	6TMSED	NORM,BL2	Sci, Eng, and D/L Chan	4R0	4	0	3,495,652:33:0	
259	96	177	21:37:07.733	488AK6B	6TMSED	NORM,BL4	Sci, Eng, and D/L Chan	4R0	4	0	3,495,659:38:0	
260	96	178	02:06:39.000	165BJ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R0	4	0	3,495,925:89:0	
261	96	178	02:06:39.666	165BJ4B	7SCAN	NORM,216,789,-12	Check S/P Position	4R0	4	0	3,495,925:90:0	
262	96	178	03:07:47.666	488AK6C	6TMSED	NORM,BL3	Sci, Eng, and D/L Chan	4R0	4	0	3,495,986:41:0	
263	96	178	03:29:44.333	488AK6D	6TMSED	FILL,BL3	Sci, Eng, and D/L Chan	4R0	4	0	3,496,008:14:0	
264	96	178	04:06:48.333	488AL6A	6TMSED	NORM,BL3	Sci, Eng, and D/L Chan	4R0	4	0	3,496,044:74:0	
265	96	178	04:14:03.000	165IC4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R0	4	0	3,496,051:89:0	
266	96	178	04:14:03.666	165IC4B	7SCAN	NORM,227,297998,	Check S/P Position	4R0	4	0	3,496,051:90:0	
267	96	178	04:17:55.666		DMS:	: *US-RUNUP	R115, TRACK *2, *REV, TIC 5373.11 +/-	4R0	4	0	3,496,055:74:0	
268	96	178	04:17:59.666	175IB422A6A	6DMSC	R115:2	DMS Control	4R0	4	0	3,496,055:74:0	
269	96	178	04:17:59.000	118IC	SMOS	GS		4R0	4	0	3,496,055:79:0	
270	96	178	04:18:07.666	175IB176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	4R0	4	0	3,496,056:01:0	
271	96	178	04:18:07.733		DMS:	: *RECORD	R115, TRACK 2, REV, TIC *5368.24 +/- 1	4R0	4	0	3,496,056:01:1	
272	96	178	04:18:09.000	118IC110A11A4A	7STRP	0.007,0.0,46,0.0	Slew = 3.01	4R0	4	0	3,496,056:03:0	
273	96	178	04:18:39.666	118IC110A11B4A	7STRP	-0.014001,-0.007	Slew = 6.01	4R0	4	0	3,496,056:49:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
274	96	178	04:18:55.000	118IC110A111B4B	7STRP	0.007,0.0,46.0,0	Slew =,3.01	4R0	4	0	3,496,056:72:0	
275	96	178	04:19:25.666	118IC110A111A4B	7STRP	-0.014001,0.007,	Slew = 6.01	4R0	4	0	3,496,057:27:0	
276	96	178	04:19:41.000	118IC110A111A4C	7STRP	0.007,0.0,46.0,0	Slew =,3.01	4R0	4	0	3,496,057:50:0	
277	96	178	04:20:11.666	118IC110A111B4C	7STRP	-0.014001,-0.007	Slew = 6.01	4R0	4	0	3,496,058:05:0	
278	96	178	04:20:27.000	118IC110A111B4D	7STRP	0.007,0.0,46.0,0	Slew =,3.01	4R0	4	0	3,496,058:28:0	
279	96	178	04:20:57.666	118IC11A	SMOS	GE		4R0	4	0	3,496,058:74:0	
280	96	178	04:21:07.666	165BK4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R0	4	0	3,496,058:89:0	
281	96	178	04:21:08.333	165BK4B	7SCAN	NORM,216:789,-12	Check S/P Position	4R0	4	0	3,496,058:90:0	
282	96	178	04:23:09.666		DMS:	: *RUNDOWN	R115, TRACK 2, REV, TIC *4306.76 +/- 1	4R0	4	0	3,496,060:90:0	
283	96	178	04:23:09.666	465TC6A	6DMSC	P7,1	DMS Control Tape P/B 7.68Kbps	4R0	4	0	3,496,060:90:0	
284	96	178	04:23:11.066		DMS:	: *RUNUP	P7, TRACK *1, *FWD, TIC *4305.84 +/- 1	4R0	4	0	3,496,061:01:1	
285	96	178	04:23:12.533		DMS:	: *P SLEW	P7, TRACK 1, FWD, TIC *4305.96 +/- 1	4R0	4	0	3,496,061:03:3	
286	96	178	04:26:43.666	488AL6B	6TMSED	NORM,BL4	Sci. Eng. and D/L Chan	4R0	4	0	3,496,064:47:0	
287	96	178	04:53:17.666	465TC6B	6DMSC	RDY,1	DMS Control Tape stop	4R0	4	0	3,496,090:72:0	
288	96	178	04:53:17.666		DMS:	: *RUNDOWN	P7, TRACK 1, FWD, TIC *4729.04 +/- 1	4R0	4	0	3,496,090:72:0	
289	96	178	04:53:19.066		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *4729.10 +/- 1	4R0	4	0	3,496,090:74:1	
290	96	178	06:59:52.333	165DA4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R0	4	0	3,496,215:89:0	
291	96	178	06:59:53.000	165DA4B	7SCAN	NORM,231.873999,	Check S/P Position	4R0	4	0	3,496,215:90:0	
292	96	178	06:59:57.600	G1JNJJBARS01-		-----START-----		4R0	4	0	:	:
293	96	178	07:02:51.000	125DA4A	37IST	1,2,0,OFF,0,1,0	Chopper ON, Sync, Chopper (Ref)Gain State	2R0	4	0	3,496,218:84:0	
294	96	178	07:02:51.000	125DA	NIMSINIT	GS	##### GROUP START INIT	2R0	4	0	3,496,218:84:0	
295	96	178	07:02:51.000	125DA11A	NIMSINIT	GE	##### GROUP END INIT	2R0	4	0	3,496,218:84:0	
296	96	178	07:03:43.666		DMS:	: *US-RUNUP	R28, TRACK *2, *REV, TIC 4729.10 +/- 1	2R0	4	0	3,496,219:72:0	
297	96	178	07:03:43.666	175DA422A6A	6DMSC	R28,2	DMS Control	2R0	4	0	3,496,219:72:0	
298	96	178	07:03:46.333	118DA	SMOS	GS		2R0	4	0	3,496,219:76:0	
299	96	178	07:03:51.666	127DA4A	37IOP	3,0	Long Map, Grating Start Position =00	2R3	4	0	3,496,219:84:0	
300	96	178	07:03:51.666	127DA	NIMSTAB	GS	%%%%%% GROUP START TAB	2R3	4	0	3,496,219:84:0	
301	96	178	07:03:52.333	127DA4B	37ETB	04,C4,35,FF,FF	Loads wavelength edit table	2R3	4	0	3,496,219:85:0	
302	96	178	07:03:55.666	175DA176A6A	6TMREC	MPW	28.8 KBPS PWS + NIMS RECORD Record Mode C	2R3	4	0	3,496,219:90:0	
303	96	178	07:03:55.733		DMS:	: *RECORD	R28, TRACK 2, REV, TIC *4729.00 +/- 1	2R3	4	0	3,496,219:90:1	
304	96	178	07:03:56.333	118DA110A111A4A	7STRP	0.0,0.0,108.0,0,	Slew =,0.01	2R3	4	0	3,496,220:00:0	
305	96	178	07:04:00.333	127DA11A	NIMSTAB	GE	%%%%%% GROUP END TAB	2R3	4	0	3,496,220:06:0	
306	96	178	07:04:18.333	118DA110A111B4A	7STRP	-0.0071,-0.0005,	Slew =,10.0	2R3	4	0	3,496,220:33:0	
307	96	178	07:04:32.333	118DA110A111B4B	7STRP	0.0,0.0,108.0,0,	Slew =,0.01	2R3	4	0	3,496,220:54:0	
308	96	178	07:04:54.333	118DA110A111C4A	7STRP	0.00125,-0.01800	Slew =,10.0	2R3	4	0	3,496,220:87:0	
309	96	178	07:05:08.333	118DA110A111C4B	7STRP	0.0,0.0,108.0,0,	Slew =,0.01	2R3	4	0	3,496,221:17:0	
310	96	178	07:05:30.333	118DA11A	SMOS	GE		2R3	4	0	3,496,221:50:0	
311	96	178	07:06:01.600	G1JNJJBARS01-		-----STOP-----		2R3	4	0	:	:
312	96	178	07:13:33.666	465TD6A	6DMSC	P7,1	DMS Control Tape P/B 7.68Kbps	2R3	4	0	3,496,229:47:0	
313	96	178	07:13:33.666		DMS:	: *RUNDOWN	R28, TRACK 2, REV, TIC *4221.05 +/- 1	2R3	4	0	3,496,229:47:0	
314	96	178	07:13:35.066		DMS:	: *RUNUP	P7, TRACK *1, *FWD, TIC *4220.83 +/- 1	2R3	4	0	3,496,229:49:1	
315	96	178	07:13:36.533		DMS:	: *P SLEW	P7, TRACK 1, FWD, TIC *4220.95 +/- 1	2R3	4	0	3,496,229:51:3	
316	96	178	07:14:01.666	165DL4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,496,229:89:0	
317	96	178	07:14:02.333	165DL4B	7SCAN	NORM,231.400999,	Check S/P Position	2R3	4	0	3,496,229:90:0	
318	96	178	07:14:06.933	G1JNRJBAR01-		-----START-----		2R3	4	0	:	:
319	96	178	07:17:00.333	125DL4A	37MB	1B,1B,0,0,0,0	Selects mirror (spatial) edit table	2R3	4	0	3,496,232:84:0	
320	96	178	07:17:00.333	125DL	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	3,496,232:84:0	
321	96	178	07:17:00.333	125DL11A	NIMSINIT	GE	##### GROUP END INIT	2R3	4	0	3,496,232:84:0	
322	96	178	07:17:25.000	432DL6A	6RTSL2	NIMSEL,AACNCG,RT	NIMS R/T SELECT	2R3	4	0	3,496,233:30:0	
323	96	178	07:17:55.666	118DL	SMOS	GS		2R3	4	0	3,496,233:76:0	
324	96	178	07:18:01.000	127DL	NIMSTAB	GS	%%%%%% GROUP START TAB	2R3	4	0	3,496,233:84:0	
325	96	178	07:18:01.666	127DL4A	37ETB	04,C4,35,FF,FF	Loads wavelength edit table	2R3	4	0	3,496,233:85:0	
326	96	178	07:18:05.666	118DL110A111A4A	7STRP	0.0,0.0,546.0,0,	Slew =,0.01	2R3	4	0	3,496,234:00:0	
327	96	178	07:18:09.666	127DL11A	NIMSTAB	GE	%%%%%% GROUP END TAB	2R3	4	0	3,496,234:06:0	
328	96	178	07:18:24.333	432DM6A	6RTDS2	NIMDSL,AACNCG,RT	NIMS R/T DESELECT	2R3	4	0	3,496,234:28:0	



Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
329	96	178	07:20:02.333	125FX	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	3,496,235:84:0	
330	96	178	07:20:02.333	125FX4A	37MB	0,0,0,0,0,0	Selects mirror (spatial) edit table	2R3	4	0	3,496,235:84:0	
331	96	178	07:20:02.333	125FX11A	NIMSINIT	GE	##### GROUP END INIT	2R3	4	0	3,496,235:84:0	
332	96	178	07:20:15.000	118DL11A	SMOS	GE		2R3	4	0	3,496,236:12:0	
333	96	178	07:21:11.600	G1JNRTJBAR01-		-----STOP-----		2R3	4	0	:	
334	96	178	07:43:39.000		DMS:	: *RUNDOWN	P7, TRACK 1, FWD, TIC *4643.40 +/- 1	2R3	4	0	3,496,259:25:0	
335	96	178	07:43:39.000	465TD6B	6DMSC	RDY,1	DMS Control Tape stop	2R3	4	0	3,496,259:25:0	
336	96	178	07:43:40.400		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *4643.46 +/- 1	2R3	4	0	3,496,259:27:1	
337	96	178	07:53:39.666	488AL6C	6TMSED	NORM,BL2	Sci, Eng, and D/L Chan	2R3	4	0	3,496,269:16:0	
338	96	178	08:38:27.666	488AL6D	6TMSED	NORM,BL3	Sci, Eng, and D/L Chan	2R3	4	0	3,496,313:44:0	
339	96	178	08:40:59.000	165ID4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,496,315:89:0	
340	96	178	08:40:59.666	165ID4B	7SCAN	NORM,250.921,-16	Check S/P Position	2R3	4	0	3,496,315:90:0	
341	96	178	08:45:07.000		DMS:	: *US-RUNUP	R115, TRACK *2, REV, TIC 4643.46 +/- 1	2R3	4	0	3,496,320:06:0	
342	96	178	08:45:07.000	175IC422A6A	6DMSC	R115,2	DMS Control	2R3	4	0	3,496,320:06:0	
343	96	178	08:45:19.000	175IC176A6A	6TMREC	HIM	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	3,496,320:24:0	
344	96	178	08:45:19.066		DMS:	: *RECORD	R115, TRACK 2, REV, TIC *4638.59 +/- 1	2R3	4	0	3,496,320:24:1	
345	96	178	08:46:05.000	176IA6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	3,496,321:02:0	
346	96	178	08:49:04.333	165CS4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,496,323:89:0	
347	96	178	08:49:05.000	165CS4B	7SCAN	NORM,224.948999,	Check S/P Position	2R3	4	0	3,496,323:90:0	
348	96	178	08:49:20.333	465TE6A	6DMSC	P7,1	R115, TRACK 2, REV, TIC *3790.39 +/- 1	2R3	4	0	3,496,324:22:0	
349	96	178	08:49:21.733		DMS:	: *RUNUP	DMS Control Tape P/B 7.68kbps	2R3	4	0	3,496,324:24:1	
350	96	178	08:49:23.200		DMS:	: *P SLEW	P7, TRACK *1, *FWD, TIC *3789.47 +/- 1	2R3	4	0	3,496,324:24:1	
351	96	178	09:05:30.333	488AL6E	6TMSED	FILL,BL3	P7, TRACK 1, FWD, TIC *3789.59 +/- 1	2R3	4	0	3,496,324:26:3	
352	96	178	09:10:27.666	488AM6A	6TMSED	FILL,BL4	Sci, Eng, and D/L Chan	2R3	4	0	3,496,340:21:0	
353	96	178	09:19:28.333	465TE6B	6DMSC	RDY,1	Sci, Eng, and D/L Chan	2R3	4	0	3,496,345:12:0	
354	96	178	09:19:28.333		DMS:	: *RUNDOWN	DMS Control Tape stop	2R3	4	0	3,496,354:04:0	
355	96	178	09:19:29.733		DMS:	: *READY	P7, TRACK 1, FWD, TIC *4212.67 +/- 1	2R3	4	0	3,496,354:04:0	
356	96	178	09:36:30.333	488AM6B	6TMSED	NORM,BL4	RDY, TRACK 1, FWD, TIC *4212.73 +/- 1	2R3	4	0	3,496,354:06:1	
357	96	178	12:37:35.000	165FA4A	7TMOT	DIS,TMC	Sci, Eng, and D/L Chan	2R3	4	0	3,496,370:81:0	
358	96	178	12:37:35.066	165FA4B	7SCAN	NORM,160.990999,	Disable IVP - Target Motion	2R3	4	0	3,496,549:89:0	
359	96	178	12:37:40.267	G1CNGLOBAL01-		-----START-----	Check S/P Position	2R3	4	0	3,496,549:90:0	
360	96	178	12:38:32.333	125FA4A	37IST	1,2,0,OFF,0,1,1	Chopper ON, Sync, Chopper (Ref)Gain State	4R3	4	0	3,496,550:84:0	
361	96	178	12:38:32.333	125FA	NIMSINIT	GS	##### GROUP START INIT	4R3	4	0	3,496,550:84:0	
362	96	178	12:38:32.333	125FA11A	NIMSINIT	GE	##### GROUP END INIT	4R3	4	0	3,496,550:84:0	
363	96	178	12:38:32.333	176LA6A	6TMREC	NRC	NO RECORD Record Mode Change	4R3	4	0	3,496,551:50:0	
364	96	178	12:39:10.333		DMS:	: *US-RUNUP	R7, TRACK *2, *REV, TIC 4212.73 +/- 1	4R3	4	0	3,496,551:76:0	
365	96	178	12:39:27.666	175FA422A6A	6DMSC	R7,2	DMS Control	4R3	4	0	3,496,551:76:0	
366	96	178	12:39:28.333	117FA	CSMOS	GS	**** GROUP START CSMOS	4R3	4	0	3,496,551:77:0	
367	96	178	12:39:33.000	127FA	NIMSTAB	GS	%% %% %% GROUP START TAB	4R3	4	0	3,496,551:84:0	
368	96	178	12:39:33.000	37ETB	37ETB	07,C7,02,00,60,0	Loads wavelength edit table	4R3	4	0	3,496,551:85:0	
369	96	178	12:39:37.000	175FA176A6A	6TMREC	LPU	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	4R3	4	0	3,496,551:90:0	
370	96	178	12:39:37.200		DMS:	: *RECORD	R7, TRACK 2, REV, TIC *4214.01 +/- 2	4R3	4	0	3,496,551:90:3	
371	96	178	12:39:37.666	117FA105A106A4A	7STRP	0,0024,0,0,0,0,0	Slew = 0.03	4R3	4	0	3,496,552:00:0	
372	96	178	12:39:37.676	G1CNGLOBAL01-	NIMPBK	301FA	CALLISTO GLOBAL COMPOSITION MAP	4R3	4	0	:	
373	96	178	12:40:57.676	G1CNGLOBAL01-	DESEL	300FA	CALLISTO GLOBAL COMPOSITION MAP	4R3	4	0	:	
374	96	178	12:40:59.666	175FA6A	6TMREC	NRC	NO RECORD Record Mode Change	4R3	4	0	3,496,553:32:0	
375	96	178	12:40:59.666	175FA422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,496,553:32:0	
376	96	178	12:40:59.666	117FA11A	CSMOS	GE	**** GROUP END CSMOS	4R3	4	0	3,496,553:32:0	
377	96	178	12:40:59.666		DMS:	: *RUNDOWN	R7, TRACK 2, REV, TIC *4194.68 +/- 2	4R3	4	0	3,496,553:32:0	
378	96	178	12:41:01.066		DMS:	: *READY	RDY, TRACK 2, REV, TIC *4194.62 +/- 2	4R3	4	0	3,496,553:34:1	
379	96	178	12:43:44.267	G1CNGLOBAL01-		-----STOP-----		4R3	4	0	:	
380	96	178	13:13:59.000	165IE4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,496,585:89:0	
381	96	178	13:13:59.666	165IE4B	7SCAN	NORM,238.278999,	Check S/P Position	4R3	4	0	3,496,585:90:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
384	96	178	13:17:51.666	175ID422A6A	6DMSC	R115.0	DMS Control Tape runup 115.2kb	4R3	4	0	3,496,589;74:0	
385	96	178	13:17:51.666		DMS:	: *US-RUNUP	R115, TRACK 2, REV, TIC 4194.62 +/- 2	4R3	4	0	3,496,589;74:0	
386	96	178	13:17:55.000	118IE	SMOS	GS		4R3	4	0	3,496,589;79:0	
387	96	178	13:18:03.666	175ID176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	4R3	4	0	3,496,590;01:0	
388	96	178	13:18:03.733		DMS:	: *RECORD	R115, TRACK 2, REV, TIC *4189.74 +/- 2	4R3	4	0	3,496,590;01:1	
389	96	178	13:18:05.000	118IE110A111A4A	7STRP	0.007;0.0,46;0,0	Slew =,3.01	4R3	4	0	3,496,590;03:0	
390	96	178	13:18:35.666	118IE110A111B4A	7STRP	-0.014001,-0.007	Slew =0.5,0	4R3	4	0	3,496,590;49:0	
391	96	178	13:18:51.000	118IE110A111B4B	7STRP	0.007;0.0,46;0,0	Slew =,3.01	4R3	4	0	3,496,590;72:0	
392	96	178	13:19:21.666	118IE110A111A4B	7STRP	-0.014001,0.007,	Slew =0.5,0	4R3	4	0	3,496,591;27:0	
393	96	178	13:19:37.000	118IE110A111A4C	7STRP	0.007;0.0,46;0,0	Slew =,3.01	4R3	4	0	3,496,591;50:0	
394	96	178	13:20:07.666	118IE110A111B4C	7STRP	-0.014001,-0.007	Slew =0.5,0	4R3	4	0	3,496,592;05:0	
395	96	178	13:20:23.000	118IE110A111B4D	7STRP	0.007;0.0,46;0,0	Slew =,3.01	4R3	4	0	3,496,592;28:0	
396	96	178	13:20:53.666	118IE110A111A4D	7STRP	-0.014001,0.007,	Slew =0.5,0	4R3	4	0	3,496,592;74:0	
397	96	178	13:21:09.000	118IE110A111A4E	7STRP	0.007;0.0,46;0,0	Slew =,3.01	4R3	4	0	3,496,593;06:0	
398	96	178	13:21:39.666	118IE110A111B4E	7STRP	-0.014001,-0.007	Slew =0.5,0	4R3	4	0	3,496,593;52:0	
399	96	178	13:21:55.000	118IE110A111B4F	7STRP	0.007;0.0,46;0,0	Slew =,3.01	4R3	4	0	3,496,593;75:0	
400	96	178	13:22:25.666	118IE110A111A4F	7STRP	-0.014001,0.007,	Slew =0.5,0	4R3	4	0	3,496,594;30:0	
401	96	178	13:22:41.000	118IE110A111A4G	7STRP	0.007;0.0,46;0,0	Slew =,3.01	4R3	4	0	3,496,594;53:0	
402	96	178	13:23:11.666	118IE110A111B4G	7STRP	-0.014001,-0.007	Slew =0.5,0	4R3	4	0	3,496,595;08:0	
403	96	178	13:23:27.000	118IE110A111B4H	7STRP	0.007;0.0,46;0,0	Slew =,3.01	4R3	4	0	3,496,595;31:0	
404	96	178	13:23:57.666	118IE11A	SMOS	GE		4R3	4	0	3,496,595;77:0	
405	96	178	13:24:05.666	165AK4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,496,595;89:0	
406	96	178	13:24:06.333	165AK4B	7SCAN	NORM;238.23,-19.	Check S/P Position	4R3	4	0	3,496,595;90:0	
407	96	178	13:25:59.000	117AE	CSMOS	GS	***** GROUP START CSMOS	4R3	4	0	3,496,597;77:0	
408	96	178	13:26:07.666		DMS:	: *RUNDOWN	R115, TRACK 2, REV, TIC *2488.42 +/- 2	4R3	4	0	3,496,597;90:0	
409	96	178	13:26:07.666	465TF6A	6DMSC	P7,1	DMS Control Tape P/B 7.68kbps	4R3	4	0	3,496,597;90:0	
410	96	178	13:26:08.333	117AE105A106A4A	7STRP	0.0,0.0,0.0,0.0,0,	Slew = 0.01	4R3	4	0	3,496,598;00:0	
411	96	178	13:26:09.066		DMS:	: *RUNUP	P7, TRACK *1, *FWD, TIC *2487.50 +/- 2	4R3	4	0	3,496,598;01:1	
412	96	178	13:26:10.533		DMS:	: *P SLEW	P7, TRACK 1, FWD, TIC *2487.62 +/- 2	4R3	4	0	3,496,598;03:3	
413	96	178	13:27:39.000	117AE105A106A4B	7STRP	0.0077;0.0,0,0,0	Slew =12.01	4R3	4	0	3,496,599;45:0	
414	96	178	13:28:09.666	117AE105A106A4C	7STRP	0.0,0.0,0.0,0,0,0		4R3	4	0	3,496,600;00:0	
415	96	178	13:29:40.333	117AE105A106A4D	7STRP	0.0077;0.0,0,0,0,0	Slew =12.01	4R3	4	0	3,496,601;45:0	
416	96	178	13:30:11.000	117AE105A106A4E	7STRP	0.0,0.0,0.0,0,0,0	Slew =,0.01	4R3	4	0	3,496,602;00:0	
417	96	178	13:31:41.666	117AE105A106B4A	7STRP	-0.016001,-0.007	Slew =12.01	4R3	4	0	3,496,603;45:0	
418	96	178	13:32:12.333	117AE105A106B4B	7STRP	0.0,0.0,0.0,0,0,0	Slew =,0.01	4R3	4	0	3,496,604;00:0	
419	96	178	13:33:43.000	117AE105A106C4A	7STRP	0.0077;0.0,0,0,0,0	Slew =12.01	4R3	4	0	3,496,605;45:0	
420	96	178	13:34:13.666	117AE105A106C4B	7STRP	0.0,0.0,0.0,0,0,0	Slew = 0.01	4R3	4	0	3,496,606;00:0	
421	96	178	13:35:44.333	117AE105A106C4C	7STRP	0.0077;0.0,0,0,0,0	Slew =12.01	4R3	4	0	3,496,607;45:0	
422	96	178	13:36:15.000	117AE105A106C4D	7STRP	0.0,0.0,0.0,0,0,0	Slew =,0.01	4R3	4	0	3,496,608;00:0	
423	96	178	13:37:45.666	117AE11A	CSMOS	GE	***** GROUP END CSMOS	4R3	4	0	3,496,609;45:0	
424	96	178	13:38:15.000	165AL4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,496,609;89:0	
425	96	178	13:38:15.666	165AL4B	7SCAN	NORM;237.615,-20	Check S/P Position	4R3	4	0	3,496,609;90:0	
426	96	178	13:40:08.333	117AF	CSMOS	GS	***** GROUP START CSMOS	4R3	4	0	3,496,611;77:0	
427	96	178	13:40:17.666	117AF105A106A4A	7STRP	0.020003;0.0,0,0,0	Slew = 0.02	4R3	4	0	3,496,612;00:0	
428	96	178	13:56:15.666		DMS:	: *RUNDOWN	P7, TRACK 1, FWD, TIC *2910.70 +/- 2	4R3	4	0	3,496,627;72:0	
429	96	178	13:56:15.666	465TF6B	6DMSC	RDY,1	DMS Control Tape stop	4R3	4	0	3,496,627;72:0	
430	96	178	13:56:17.066		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *2910.76 +/- 2	4R3	4	0	3,496,627;74:1	
431	96	178	13:57:29.000	117AF11A	CSMOS	GE	***** GROUP END CSMOS	4R3	4	0	3,496,629;00:0	
432	96	178	14:11:37.000	165DE4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,496,642;89:0	
433	96	178	14:11:37.666	165DE4B	7SCAN	NORM;239.411999,	Check S/P Position	4R3	4	0	3,496,642;90:0	
434	96	178	14:11:42.266	G1JNGRS04102-		-----START-----		4R3	4	0	:	:
435	96	178	14:12:34.333	125DE4A	37IST	1.2,0,OFF,0,1,0	Chopper ON, Sync, Chopper (Ref)Gain State	2R3	4	0	3,496,643;84:0	
436	96	178	14:12:34.333	125DE11A	NIMSINIT	GE	##### GROUP END INIT	2R3	4	0	3,496,643;84:0	
437	96	178	14:12:34.333	125DE	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	3,496,643;84:0	
438	96	178	14:13:29.666		DMS:	: *US-RUNUP	R7, TRACK *2, *REV, TIC 2910.76 +/- 2	2R3	4	0	3,496,644;76:0	



Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
439	96	178	14:13:29.666	175DE422A6A	6DMSC	R7,2	DMS Control	2R3	4	0	3,496,644:76:0	
440	96	178	14:13:30.333	117DE	CSMOS	GS	**** GROUP START CSMOS	2R3	4	0	3,496,644:77:0	
441	96	178	14:13:35.000	127DE4A	37IOP	5,1	Short Map, Grating Start Position =01	2R5	4	1	3,496,644:84:0	
442	96	178	14:13:35.000	127DE	NIMSTAB	GS	%%GROUP START TAB	2R5	4	1	3,496,644:84:0	
443	96	178	14:13:35.666	127DE4B	37ETB		Loads wavelength edit table	2R5	4	1	3,496,644:85:0	
444	96	178	14:13:39.000	175DE176A6A	6TMREC	LPU	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	3,496,644:90:0	
445	96	178	14:13:39.200		DMS:	: *RECORD	R7, TRACK 2, REV, TIC *2912.04 +/- 2	2R5	4	1	3,496,644:90:3	
446	96	178	14:13:39.666	117DE105A106A4A	7STRP	-0.036016,0.0,0.0,	Slew =,0.12	2R5	4	1	3,496,645:00:0	
447	96	178	14:13:39.673	G1JNGRS04102-	NIMPBK	301DE	GRS 41 PHASE #2	2R5	4	1	:	
448	96	178	14:13:43.666	127DE11A	NIMSTAB	GE	%%GROUP END TAB	2R5	4	1	3,496,645:06:0	
449	96	178	14:18:59.666	117DE105A106A4B	7STRP	0.036016,-0.008,	Slew =12.01	2R5	4	1	3,496,650:25:0	
450	96	178	14:19:09.666	117DE105A106A4C	7STRP	-0.036016,0.0,0.0,	Slew =,0.12	2R5	4	1	3,496,650:40:0	
451	96	178	14:24:27.672	G1JNGRS04102-	DESEL	300DE	GRS 41 PHASE #2	2R5	4	1	:	
452	96	178	14:24:29.666	117DE11A	CSMOS	GE	**** GROUP END CSMOS	2R5	4	1	3,496,655:65:0	
453	96	178	14:24:29.666	175DE422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,496,655:65:0	
454	96	178	14:24:29.666	175DE6A	6TMREC	NRC	NO RECORD Record Mode Change	2R5	4	1	3,496,655:65:0	
455	96	178	14:24:29.666		DMS:	: *RUNDOWN	R7, TRACK 2, REV, TIC *2759.58 +/- 2	2R5	4	1	3,496,655:65:0	
456	96	178	14:24:31.066		DMS:	: *READY	RDY, TRACK 2, REV, TIC *2759.52 +/- 2	2R5	4	1	3,496,655:67:1	
457	96	178	14:24:45.666	165IH4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,496,655:89:0	
458	96	178	14:24:46.333	165IH4B	7SCAN	NORM,237,856998,	Check S/P Position	2R5	4	1	3,496,655:90:0	
459	96	178	14:24:50.933	G1JNGRS04102-		****STOP****		2R5	4	1	:	
460	96	178	14:28:38.333	175IE422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2R5	4	1	3,496,659:74:0	
461	96	178	14:28:38.333		DMS:	: *US-RUNUP	R115, TRACK 2, REV, TIC 2759.52 +/- 2	2R5	4	1	3,496,659:74:0	
462	96	178	14:28:41.666	118IH	SMOS	GS		2R5	4	1	3,496,659:79:0	
463	96	178	14:28:50.333	175IE176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R5	4	1	3,496,660:01:0	
464	96	178	14:28:50.400		DMS:	: *RECORD	R115, TRACK 2, REV, TIC *2754.65 +/- 2	2R5	4	1	3,496,660:01:1	
465	96	178	14:28:51.666	118IH110A111A4A	7STRP	0.007,0.0,46.0,0	Slew =,3.01	2R5	4	1	3,496,660:03:0	
466	96	178	14:29:22.333	118IH110A111B4A	7STRP	-0.014001,-0.007	Slew =0.5,0	2R5	4	1	3,496,660:49:0	
467	96	178	14:29:37.666	118IH110A111B4B	7STRP	0.007,0.0,46.0,0	Slew =,3.01	2R5	4	1	3,496,660:72:0	
468	96	178	14:30:08.333	118IH110A111A4B	7STRP	-0.013501,0.007,	Slew =0.5,0	2R5	4	1	3,496,661:27:0	
469	96	178	14:30:23.666	118IH110A111A4C	7STRP	0.007,0.0,46.0,0	Slew =,3.01	2R5	4	1	3,496,661:50:0	
470	96	178	14:30:54.333	118IH110A111B4C	7STRP	-0.014001,-0.007	Slew =0.5,0	2R5	4	1	3,496,662:05:0	
471	96	178	14:31:09.666	118IH110A111B4D	7STRP	0.007,0.0,46.0,0	Slew =,3.01	2R5	4	1	3,496,662:28:0	
472	96	178	14:31:40.333	118IH110A111A4D	7STRP	-0.013501,0.007,	Slew =0.5,0	2R5	4	1	3,496,662:74:0	
473	96	178	14:31:55.666	118IH110A111A4E	7STRP	0.007,0.0,46.0,0	Slew =,3.01	2R5	4	1	3,496,663:06:0	
474	96	178	14:32:26.333	118IH110A111B4E	7STRP	-0.014001,-0.007	Slew =0.5,0	2R5	4	1	3,496,663:52:0	
475	96	178	14:32:41.666	118IH110A111B4F	7STRP	0.007,0.0,46.0,0	Slew =,3.01	2R5	4	1	3,496,663:75:0	
476	96	178	14:33:12.333	118IH110A111A4F	7STRP	-0.013501,0.007,	Slew =0.5,0	2R5	4	1	3,496,664:30:0	
477	96	178	14:33:27.666	118IH110A111A4G	7STRP	0.007,0.0,46.0,0	Slew =,3.01	2R5	4	1	3,496,664:53:0	
478	96	178	14:33:58.333	118IH110A111B4G	7STRP	-0.014001,-0.007	Slew =0.5,0	2R5	4	1	3,496,665:08:0	
479	96	178	14:34:13.666	118IH110A111B4H	7STRP	0.007,0.0,46.0,0	Slew =,3.01	2R5	4	1	3,496,665:31:0	
480	96	178	14:34:44.333	118IH11A	SMOS	GE		2R5	4	1	3,496,665:77:0	
481	96	178	14:34:52.333	165AM4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,496,665:89:0	
482	96	178	14:34:53.000	165AM4B	7SCAN	NORM,237,859999,	Check S/P Position	2R5	4	1	3,496,665:90:0	
483	96	178	14:36:45.666	117AG	CSMOS	GS	**** GROUP START CSMOS	2R5	4	1	3,496,667:77:0	
484	96	178	14:36:54.333	465TG6A	6DMSC	P7,1	DMS Control Tape P/B 7.68kbps	2R5	4	1	3,496,667:90:0	
485	96	178	14:36:54.333		DMS:	: *RUNDOWN	R115, TRACK 2, REV, TIC *1053.32 +/- 2	2R5	4	1	3,496,667:90:0	
486	96	178	14:36:55.000	117AG105A106A4A	7STRP	0.0,0.0,0.0,0.0,0.0,	Slew =,0.01	2R5	4	1	3,496,668:00:0	
487	96	178	14:36:55.733		DMS:	: *RUNUP	P7, TRACK *1, *FWD, TIC *1052.41 +/- 3	2R5	4	1	3,496,668:01:1	
488	96	178	14:36:57.200		DMS:	: *P. SLEW	P7, TRACK 1, FWD, TIC *1052.53 +/- 3	2R5	4	1	3,496,668:03:3	
489	96	178	14:38:25.666	117AG105A106A4B	7STRP	0.0067,0.0,0.0,0.0,	Slew =12.01	2R5	4	1	3,496,669:45:0	
490	96	178	14:38:56.333	117AG105A106A4C	7STRP	0.0,0.0,0.0,0.0,	Slew =0.01	2R5	4	1	3,496,670:00:0	
491	96	178	14:40:27.000	117AG105A106A4D	7STRP	0.0067,0.0,0.0,0.0,	Slew =12.01	2R5	4	1	3,496,671:45:0	
492	96	178	14:40:57.666	117AG105A106A4E	7STRP	0.0,0.0,0.0,0.0,	Slew =0.01	2R5	4	1	3,496,672:00:0	
493	96	178	14:42:28.333	117AG105A106B4A	7STRP	-0.013501,-0.007	Slew =12.01	2R5	4	1	3,496,673:45:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
494	96	178	14:42:59.000	117AG105A106B4B	7STRP	0.0,0.0,0.0,0.0,0.0	Slew = 0.01	2R5	4	1	3,496,674:00:0	
495	96	178	14:44:29.666	117AG105A106C4A	7STRP	0.0067,0.0,0.0,0.0,0	Slew = 12.01	2R5	4	1	3,496,675:45:0	
496	96	178	14:45:00.333	117AG105A106C4B	7STRP	0.0,0.0,0.0,0.0,0.0	Slew = 0.01	2R5	4	1	3,496,676:00:0	
497	96	178	14:46:31.000	117AG105A106C4C	7STRP	0.0067,0.0,0.0,0.0,0	Slew = 12.01	2R5	4	1	3,496,677:45:0	
498	96	178	14:47:01.666	117AG105A106C4D	7STRP	0.0,0.0,0.0,0.0,0.0	Slew = 0.01	2R5	4	1	3,496,678:00:0	
499	96	178	14:48:32.333	117AG11A	CSMOS	GE	***** GROUP END CSMOS	2R5	4	1	3,496,679:45:0	
500	96	178	14:49:01.666	165AN4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,496,679:89:0	
501	96	178	14:49:02.333	165AN4B	7SCAN	NORM,237.810999,	Check S/P Position	2R5	4	1	3,496,679:90:0	
502	96	178	14:50:55.000	117AH	CSMOS	GS	***** GROUP START CSMOS	2R5	4	1	3,496,681:77:0	
503	96	178	14:51:04.333	117AH105A106A4A	7STRP	0.020000,0.0,0.0,0.0	Slew = 0.02	2R5	4	1	3,496,682:00:0	
504	96	178	15:07:02.333	465TG6B	6DMSC	RDY,1	DMS Control Tape stop	2R5	4	1	3,496,697:72:0	
505	96	178	15:07:02.333		DMS:	: *RUNDOWN	P7, TRACK 1, FWD, TIC *1475.61 +/- 3	2R5	4	1	3,496,697:72:0	
506	96	178	15:07:03.733		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *1475.67 +/- 3	2R5	4	1	3,496,697:74:1	
507	96	178	15:08:15.666	117AH11A	CSMOS	GE	***** GROUP END CSMOS	2R5	4	1	3,496,699:00:0	
508	96	178	15:13:17.666	165DG4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,496,703:89:0	
509	96	178	15:13:18.333	165DG4B	7SCAN	NORM,238.851,-20	Check S/P Position	2R5	4	1	3,496,703:90:0	
510	96	178	15:13:22.933	G1JNGRS04103-		*****START*****		2R5	4	1	:	:
511	96	178	15:15:10.333		DMS:	: *US-RUNUP	R7, TRACK 2, *REV, TIC 1475.67 +/- 3	2R5	4	1	3,496,705:76:0	
512	96	178	15:15:10.333	175DG422A6A	6DMSC	R7,2	DMS Control	2R5	4	1	3,496,705:76:0	
513	96	178	15:15:11.000	117DG	CSMOS	GS	***** GROUP START CSMOS	2R5	4	1	3,496,705:77:0	
514	96	178	15:15:15.666	127DG	NIMSTAB	GS	%%/%/% GROUP START TAB	2R5	4	1	3,496,705:84:0	
515	96	178	15:15:16.333	127DG4A	37ETB		Loads wavelength edit table	2R5	4	1	3,496,705:85:0	
516	96	178	15:15:19.666	175DG176A6A	6TMREC	LPU	7.68 KBPS NIMS-UVS-PPR RECORD	2R5	4	1	3,496,705:90:0	
517	96	178	15:15:19.666		DMS:	: *RECORD	R7, TRACK 2, REV, TIC *1476.94 +/- 3	2R5	4	1	3,496,705:90:3	
518	96	178	15:15:20.333	117DG105A106A4A	7STRP	-0.018002,0.0,0.0,0	Slew = 0.11	2R5	4	1	3,496,706:00:0	
519	96	178	15:15:20.333	G1JNGRS04103-	NIMPBK	301DG	GRS 41 PHASE #3	2R5	4	1	:	:
520	96	178	15:15:24.333	127DG11A	NIMSTAB	GE	%%/%/% GROUP END TAB	2R5	4	1	3,496,706:06:0	
521	96	178	15:18:12.333	117DG105A106A4B	7STRP	0.019002,-0.008,	Slew = 12.01	2R5	4	1	3,496,708:76:0	
522	96	178	15:18:22.333	117DG105A106A4C	7STRP	-0.018002,0.0,0.0,0	Slew = 0.11	2R5	4	1	3,496,709:00:0	
523	96	178	15:21:12.337	G1JNGRS04103-	DESEL	300DG	GRS 41 PHASE #3	2R5	4	1	:	:
524	96	178	15:21:14.333	175DG422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,496,711:76:0	
525	96	178	15:21:14.333	117DG11A	CSMOS	GE	***** GROUP END CSMOS	2R5	4	1	3,496,711:76:0	
526	96	178	15:21:14.333		DMS:	: *RUNDOWN	R7, TRACK 2, REV, TIC *1393.86 +/- 3	2R5	4	1	3,496,711:76:0	
527	96	178	15:21:14.333	175DG6A	6TMREC	NRC	NO RECORD Record Mode Change	2R5	4	1	3,496,711:76:0	
528	96	178	15:21:15.733		DMS:	: *READY	RDY, TRACK 2, REV, TIC *1393.80 +/- 3	2R5	4	1	3,496,711:78:1	
529	96	178	15:21:24.933	G1JNGRS04103-		*****STOP*****		2R5	4	1	:	:
530	96	178	15:27:27.000	165AO4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,496,717:89:0	
531	96	178	15:27:27.666	165AO4B	7SCAN	NORM,238.375,-20	Check S/P Position	2R5	4	1	3,496,717:90:0	
532	96	178	15:29:20.333	117AI	CSMOS	GS	***** GROUP START CSMOS	2R5	4	1	3,496,719:77:0	
533	96	178	15:29:29.666	117AI105A106A4A	7STRP	0.0,0.0,0.0,0.0,0.0	Slew = 0.01	2R5	4	1	3,496,720:00:0	
534	96	178	15:31:00.333	117AI105A106A4B	7STRP	0.009,0.0,0.0,0.0,0	Slew = 12.01	2R5	4	1	3,496,721:45:0	
535	96	178	15:31:31.000	117AI105A106A4C	7STRP	0.0,0.0,0.0,0.0,0	Slew = 0.01	2R5	4	1	3,496,722:00:0	
536	96	178	15:33:01.666	117AI105A106B4A	7STRP	-0.007,-0.0074,0	Slew = 12.01	2R5	4	1	3,496,723:45:0	
537	96	178	15:33:32.333	117AI105A106B4B	7STRP	0.0,0.0,0.0,0.0,0	Slew = 0.01	2R5	4	1	3,496,724:00:0	
538	96	178	15:35:03.000	117AI105A106C4A	7STRP	0.009,0.0,0.0,0.0,0	Slew = 12.01	2R5	4	1	3,496,725:45:0	
539	96	178	15:35:33.666	117AI105A106C4B	7STRP	0.0,0.0,0.0,0.0,0	Slew = 0.01	2R5	4	1	3,496,726:00:0	
540	96	178	15:37:04.333	117AI11A	CSMOS	GE	***** GROUP END CSMOS	2R5	4	1	3,496,727:45:0	
541	96	178	15:38:34.333	165AP4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,496,728:89:0	
542	96	178	15:38:35.000	165AP4B	7SCAN	NORM,238.483999,	Check S/P Position	2R5	4	1	3,496,728:90:0	
543	96	178	15:45:39.000	165IF4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,496,735:89:0	
544	96	178	15:45:39.666	165IF4B	7SCAN	NORM,224.439999,	Check S/P Position	2R5	4	1	3,496,735:90:0	
545	96	178	15:48:46.333	118IF	SMOS	GS		2R5	4	1	3,496,739:06:0	
546	96	178	15:49:19.000	118IF110A111A4A	7STRP	0.0034,0.0,26.0,	Slew = 2.01	2R5	4	1	3,496,739:55:0	
547	96	178	15:49:27.666	118IF110A111A4B	7STRP	-0.0034,0.0036,0	Slew = 2.01	2R5	4	1	3,496,739:68:0	
548	96	178	15:49:36.333	118IF110A111A4C	7STRP	0.0034,0.0,26.0,	Slew = 2.01	2R5	4	1	3,496,739:81:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
549	96	178	15:49:37.666		DMS:	: *US-RUNUP	R115, TRACK 2, REV, TIC 1393.80 +/- 3	2R5	4	1	3,496,739:830	
550	96	178	15:49:37.666	175IF422A6A	6DMSC	R115.0	DMS Control Tape runup 115.2kb	2R5	4	1	3,496,739:830	
551	96	178	15:49:45.000	118IF11A	SMOS	GE		2R5	4	1	3,496,740:030	
552	96	178	15:49:49.666	175IF176A6A	6TMREC	HIM	115.2 KBPS SSI + NIMS RECORD Record Mode	2R5	4	1	3,496,740:100	
553	96	178	15:49:49.733		DMS:	: *RECORD	R115, TRACK 2, REV, TIC *1388.93 +/- 3	2R5	4	1	3,496,740:101	
554	96	178	15:49:55.666	165IJ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,496,740:190	
555	96	178	15:49:56.333	165IJ4B	7SCAN	NORM,238.591,-20	Check S/P Position	2R5	4	1	3,496,740:200	
556	96	178	15:50:35.666	118IJ	SMOS	GS		2R5	4	1	3,496,740:790	
557	96	178	15:50:45.000	176IB6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R5	4	1	3,496,741:020	
558	96	178	15:50:45.666	118IJ110A111A4A	7STRP	0.0025,-0.007,46	Slew = -3.01	2R5	4	1	3,496,741:030	
559	96	178	15:51:01.000	118IJ110A111A4B	7STRP	-0.0025,0.007,0,	Slew = -3.01	2R5	4	1	3,496,741:260	
560	96	178	15:51:16.333	118IJ110A111A4C	7STRP	0.0025,-0.007,46	Slew = -3.01	2R5	4	1	3,496,741:490	
561	96	178	15:51:31.666	118IJ110A111A4D	7STRP	-0.0025,0.007,0,	Slew = -3.01	2R5	4	1	3,496,741:720	
562	96	178	15:51:47.000	118IJ110A111A4E	7STRP	0.0025,-0.007,46	Slew = -3.01	2R5	4	1	3,496,742:040	
563	96	178	15:52:02.333	118IJ110A111B4A	7STRP	0.0045,0.007,0,0	Slew = -3.01	2R5	4	1	3,496,742:270	
564	96	178	15:52:17.666	118IJ110A111B4B	7STRP	0.0025,-0.007,46	Slew = -3.01	2R5	4	1	3,496,742:500	
565	96	178	15:52:33.000	118IJ110A111C4A	7STRP	-0.009,0.007,0,0	Slew = -3.01	2R5	4	1	3,496,742:730	
566	96	178	15:52:48.333	118IJ110A111C4B	7STRP	0.0025,-0.007,46	Slew = -3.01	2R5	4	1	3,496,743:050	
567	96	178	15:53:03.666	118IJ11A	SMOS	GE		2R5	4	1	3,496,743:280	
568	96	178	15:53:15.666		DMS:	: *RUNDOWN	R115, TRACK 2, REV, TIC * 664.95 +/- 3	2R5	4	1	3,496,743:460	
569	96	178	15:53:15.666	175IF6A	6DMSC	P7,1	DMS Control Tape P/B 7.68kbps	2R5	4	1	3,496,743:460	
570	96	178	15:53:17.066		DMS:	: *RUNUP	P7, TRACK *1, *FWD, TIC * 664.03 +/- 3	2R5	4	1	3,496,743:481	
571	96	178	15:53:18.533		DMS:	: *P SLEW	P7, TRACK 1, FWD, TIC * 664.15 +/- 3	2R5	4	1	3,496,743:503	
572	96	178	16:23:15.666		DMS:	: *RUNDOWN	P7, TRACK 1, FWD, TIC *1085.35 +/- 3	2R5	4	1	3,496,773:160	
573	96	178	16:23:15.666	175IF6B	6DMSC	RDY,2	DMS Control Tape stop	2R5	4	1	3,496,773:160	
574	96	178	16:23:17.066		DMS:	: *READY	RDY, TRACK *2, *REV, TIC *1085.41 +/- 3	2R5	4	1	3,496,773:181	
575	96	178	16:27:11.000		DMS:	: *US-RUNUP	P7, TRACK 2, REV, TIC 1085.41 +/- 3	2R5	4	1	3,496,777:050	
576	96	178	16:27:11.000	465TH6A	6DMSC	P7,2	DMS Control Tape P/B 7.68kbps	2R5	4	1	3,496,777:050	
577	96	178	16:27:20.533		DMS:	: *P SLEW	P7, TRACK 2, REV, TIC *1086.69 +/- 3	2R5	4	1	3,496,777:193	
578	96	178	16:57:25.000	465TH6B	6DMSC	RDY,2	DMS Control Tape stop	2R5	4	1	3,496,806:870	
579	96	178	16:57:25.000		DMS:	: *RUNDOWN	P7, TRACK 2, REV, TIC * 663.77 +/- 3	2R5	4	1	3,496,806:870	
580	96	178	16:57:26.400		DMS:	: *READY	RDY, TRACK 2, REV, TIC * 663.71 +/- 3	2R5	4	1	3,496,806:891	
581	96	178	17:00:00.333	488AN6A	6TMSED	NORM,AL4	Sci. Eng. and D/L Chan	2R5	4	1	3,496,809:470	
582	96	178	17:16:39.000	165BN4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,496,825:890	
583	96	178	17:16:39.666	165BN4B	7SCAN	NORM,229.091999,	Check S/P Position	2R5	4	1	3,496,825:900	
584	96	178	18:37:55.666	488AN6B	6TMSED	NORM,AL3	Sci. Eng. and D/L Chan	2R5	4	1	3,496,906:330	
585	96	178	19:28:53.666	488AN6C	6TMSED	FILL,AL3	Sci. Eng. and D/L Chan	2R5	4	1	3,496,956:700	
586	96	178	19:37:39.666	488AN6D	6TMSED	FILL,AL2	Sci. Eng. and D/L Chan	2R5	4	1	3,496,965:400	
587	96	178	21:18:23.666	411AA6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,497,065:060	
588	96	178	21:18:33.200		DMS:	: *US-RUNUP	R7, TRACK 2, REV, TIC 663.71 +/- 3	2R5	4	1	3,497,065:060	
589	96	178	21:18:33.200		DMS:	: *RECORD	7.68 KBPS BUFFER DUMP TO TAPE Record Mode	2R5	4	1	3,497,065:203	
590	96	178	21:18:33.666	411AA6B	6TMREC	BDT	NO RECORD Record Mode Change	2R5	4	1	3,497,065:210	
591	96	178	21:20:35.000	411AA6D	6TMREC	NRC		2R5	4	1	3,497,067:210	
592	96	178	21:20:35.000		DMS:	: *RUNDOWN	R7, TRACK 2, REV, TIC * 636.44 +/- 4	2R5	4	1	3,497,067:210	
593	96	178	21:20:35.000	411AA6C	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,497,067:210	
594	96	178	21:20:36.400		DMS:	: *READY	RDY, TRACK 2, REV, TIC * 636.38 +/- 4	2R5	4	1	3,497,067:231	
595	96	178	21:23:26.933	G1NGLOBAL01-		-----START-----		2R5	4	1	:	
596	96	178	21:25:23.000	165DI4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,497,071:890	
597	96	178	21:25:23.666	165DI4B	7SCAN	NORM,251.997,-14	Check S/P Position	2R5	4	1	3,497,071:900	
598	96	178	21:27:21.000	125DI4A	37IST	1,2,0,OFF,0,1,0	Chopper ON, Sync, Chopper (Ref)Gain State	2R5	4	1	3,497,073:840	
599	96	178	21:27:21.000	125DI	NIMSNIT	GS	##### GROUP START INIT	2R5	4	1	3,497,073:840	
600	96	178	21:27:21.000	125DI11A	NIMSNIT	GE	##### GROUP END INIT	2R5	4	1	3,497,073:840	
601	96	178	21:28:16.333	175DI422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,497,074:760	
602	96	178	21:28:16.333		DMS:	: *US-RUNUP	R7, TRACK 2, REV, TIC 636.38 +/- 4	2R5	4	1	3,497,074:760	
603	96	178	21:28:17.000	117DI	CSMOS	GS	**** GROUP START CSMOS	2R5	4	1	3,497,074:770	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
604	96	178	21:28:21.666	127DI	NIMSTAB	GS	%%%GROUP START TAB	2R5	4	1	3,497,074:84:0	
605	96	178	21:28:21.666	127DI4A	37IOP	3.0	Long Map, Grating Start Position =00	2R3	4	0	3,497,074:84:0	
606	96	178	21:28:22.333	127DI4B	37ETB	07,C7,02,18,00,0	Loads wavelength edit table	2R3	4	0	3,497,074:85:0	
607	96	178	21:28:25.666	175DI176A6A	6TMREC	LPU	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R3	4	0	3,497,074:90:0	
608	96	178	21:28:26.866		DMS:	: *RECORD	R7, TRACK 2, REV, TIC * 637.65 +/- 4	2R3	4	0	3,497,074:90:3	
609	96	178	21:28:26.323	G1GNGL0BAL01-	NIMPBK	301DI	GANYMEDE GLOBAL SURFACE MAP	2R3	4	0	:	
610	96	178	21:28:26.333	117DI105A106A4A	7STRP	0.022604,0.0,0.0,0	Slew = 0.03	2R3	4	0	3,497,075:00:0	
611	96	178	21:28:30.333	127DI11A	NIMSTAB	GE	%%%%GROUP END TAB	2R3	4	0	3,497,075:06:0	
612	96	178	21:32:49.000	488AN6E	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	2R3	4	0	3,497,079:30:0	
613	96	178	21:41:01.666	117DI105A106A4B	7STRP	-0.022704,-0.007	Slew = 7.01	2R3	4	0	3,497,087:41:0	
614	96	178	21:41:09.000	117DI105A106A4C	7STRP	0.022604,0.0,0.0,0	Slew = 0.03	2R3	4	0	3,497,087:52:0	
615	96	178	21:53:12.333	488AO6A	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	2R3	4	0	3,497,099:45:0	
616	96	178	21:53:44.322	G1GNGL0BAL01-	DESEL	300DI	GANYMEDE GLOBAL SURFACE MAP	2R3	4	0	:	
617	96	178	21:53:44.333	175DI422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,497,100:02:0	
618	96	178	21:53:44.333	175DI6A	6TMREC	NRC	NO RECORD Record Mode Change	2R3	4	0	3,497,100:02:0	
619	96	178	21:53:44.333		DMS:	: *RUNDOWN	R7, TRACK 2, REV, TIC * 281.76 +/- 4	2R3	4	0	3,497,100:02:0	
620	96	178	21:53:44.333	117DI11A	CSMOS	GE	**** GROUP END CSMOS	2R3	4	0	3,497,100:02:0	
621	96	178	21:53:45.600	G1GNGL0BAL01-		-----STOP-----		2R3	4	0	:	
622	96	178	21:53:45.733		DMS:	: *READY	RDY, TRACK 2, REV, TIC * 281.70 +/- 4	2R3	4	0	3,497,100:04:1	
623	96	178	21:59:40.333	465KA6A	6DTRN	CMD,6DTRN,465KA6	DMS TRACK TURNAROUND	2R3	4	0	3,497,105:81:0	
624	96	178	21:59:40.333		DMS:	: *DMS-TURN	P7, TRACK 2, REV, TIC 281.70 +/- 4	2R3	4	0	3,497,105:81:0	
625	96	178	22:06:26.533		DMS:	: *REVERSE	P7, TRACK 2, REV, TIC * 190.00 +/- 4	2R3	4	0	3,497,112:53:3	
626	96	178	22:06:27.933		DMS:	: *TURNARND	P7, TRACK *3, *FWD, TIC * 189.94 +/- 4	2R3	4	0	3,497,112:55:4	
627	96	178	22:07:17.133		DMS:	: *AUTOSTOP	P7, TRACK 3, FWD, TIC * 201.25 +/-	2R3	4	0	3,497,113:38:2	
628	96	178	22:07:18.533		DMS:	: *READY	RDY, TRACK 3, FWD, TIC * 201.31 +/-	2R3	4	0	3,497,113:40:3	
629	96	178	22:12:59.600	G1GNGL0BAL02-		-----START-----		2R3	4	0	:	
630	96	178	22:14:52.333	165KA4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,497,120:84:0	
631	96	178	22:14:53.000	165KA4B	7SCAN	NORM,251.672998,	Check S/P Position	2R3	4	0	3,497,120:85:0	
632	96	178	22:15:01.000	117KA	CSMOS	GS	**** GROUP START CSMOS	2R3	4	0	3,497,121:06:0	
633	96	178	22:15:37.666		DMS:	: *US-RUNUP	R28, TRACK 3, FWD, TIC 201.31 +/-	2R3	4	0	3,497,121:16:0	
634	96	178	22:15:37.666	175KM422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	2R3	4	0	3,497,121:16:0	
635	96	178	22:15:49.666	175KM176A6A	6TMREC	MPW	28.8 KBPS PWS + NIMS RECORD Record Mode C	2R3	4	0	3,497,121:79:0	
636	96	178	22:15:49.733		DMS:	: *RECORD	R28, TRACK 3, FWD, TIC * 204.21 +/-	2R3	4	0	3,497,121:79:1	
637	96	178	22:15:51.000		DMS:	: *RUNDOWN	R28, TRACK 3, FWD, TIC * 205.32 +/-	2R3	4	0	3,497,121:81:0	
638	96	178	22:15:51.000	175KA422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	3,497,121:83:1	
639	96	178	22:15:52.400		DMS:	: *RUNUP	R7, TRACK 3, FWD, TIC * 205.54 +/-	2R3	4	0	3,497,121:83:1	
640	96	178	22:15:53.666	175KA176A6A	6TMREC	LPU	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R3	4	0	3,497,121:85:0	
641	96	178	22:15:53.866		DMS:	: *RECORD	R7, TRACK 3, FWD, TIC * 205.66 +/-	2R3	4	0	3,497,121:85:3	
642	96	178	22:15:54.333	117KA105A106A4A	7STRP	0.023004,0.0,0.0,0	Slew = 0.03	2R3	4	0	3,497,121:86:0	
643	96	178	22:16:30.321	G1GNGL0BAL02-	NIMPBK	301LA	GANYMEDE GLOBAL SURFACE MAP	2R3	4	0	:	
644	96	178	22:16:30.321	G1GNGL0BAL02-	DESEL	300LA	GANYMEDE GLOBAL SURFACE MAP	2R3	4	0	:	
645	96	178	22:28:43.000	175KA6A	6TMREC	NRC	NO RECORD Record Mode Change	2R3	4	0	3,497,134:56:0	
646	96	178	22:28:43.000		DMS:	: *RUNDOWN	R7, TRACK 3, FWD, TIC * 385.93 +/-	2R3	4	0	3,497,134:56:0	
647	96	178	22:28:43.000	175KA422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,497,134:56:0	
648	96	178	22:28:43.000	117KA11A	CSMOS	GE	**** GROUP END CSMOS	2R3	4	0	3,497,134:56:0	
649	96	178	22:28:44.400		DMS:	: *READY	RDY, TRACK 3, FWD, TIC * 385.99 +/-	2R3	4	0	3,497,134:58:1	
650	96	178	22:28:46.933	G1GNGL0BAL02-		-----STOP-----		2R3	4	0	:	
651	96	178	22:38:59.666	488AO6B	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	2R3	4	0	3,497,144:71:0	
652	96	178	22:46:15.000	488AO6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2R3	4	0	3,497,151:87:0	
653	96	178	22:53:21.000	165GA4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,497,158:89:0	
654	96	178	22:53:21.666	165GA4B	7SCAN	NORM,254.275,-23	Check S/P Position	2R3	4	0	3,497,158:90:0	
655	96	178	22:56:15.000	117GA	CSMOS	GS	**** GROUP START CSMOS	2R3	4	0	3,497,161:77:0	
656	96	178	22:56:24.333	117GA105A106A4A	7STRP	0.0,-0.0,0.0,0.0	Slew = 0.19	2R3	4	0	3,497,162:00:0	
657	96	178	22:56:24.333	176GA6A	6TMREC	BPT	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R3	4	0	3,497,162:00:0	
658	96	178	23:00:13.000	117GA105A106A4B	7STRP	0.0022,0.016808,	Slew = 8.01	2R3	4	0	3,497,165:70:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
659	96	178	23:00:23.666	117GA105A106A4C	7STRP	0.0,-0.0,0.17009,0,	Slew =-0.19	2R3	4	0	3,497,165:86:0	
660	96	178	23:04:12.333	117GA105A106A4D	7STRP	0.0022,0.016808,	Slew =-8.01	2R3	4	0	3,497,169:65:0	
661	96	178	23:04:23.000	117GA105A106A4E	7STRP	0.0,-0.0,0.17009,0,	Slew =-0.19	2R3	4	0	3,497,169:81:0	
662	96	178	23:08:11.666	117GA105A106A4F	7STRP	0.0022,0.016808,	Slew =-8.01	2R3	4	0	3,497,173:60:0	
663	96	178	23:08:22.333	117GA105A106A4G	7STRP	0.0,-0.0,0.17009,0,	Slew =-0.19	2R3	4	0	3,497,173:76:0	
664	96	178	23:09:16.333		DMS:	:*US-RUNUP	R7, TRACK 3, FWD, TIC 385.99 +/-	2R3	4	0	3,497,174:66:0	
665	96	178	23:09:16.333	50ZZ6XX	6DMSC	R7.0	DMS Control Tape runup 7.68kps	2R3	4	0	3,497,174:66:0	
666	96	178	23:09:24.533		DMS:	:*RECORD	R7, TRACK 3, FWD, TIC * 387.68 +/-	2R3	4	0	3,497,174:78:3	
667	96	178	23:09:45.000		DMS:	:*RUNDOWN	R7, TRACK 3, FWD, TIC * 392.48 +/-	2R3	4	0	3,497,175:18:0	
668	96	178	23:09:45.000	50ZZ6RD	6DMSC	RDY.0	DMS Control Tape stop	2R3	4	0	3,497,175:20:0	
669	96	178	23:09:46.400		DMS:	:*READY	RDY, TRACK 3, FWD, TIC * 392.54 +/-	2R3	4	0	3,497,175:20:0	
670	96	178	23:12:11.000	117GA105A106A4H	7STRP	0.0022,0.016808,	Slew =-8.01	2R3	4	0	3,497,177:55:0	
671	96	178	23:12:21.666	117GA105A106A4I	7STRP	0.0,-0.0,0.17009,0,	Slew =-0.19	2R3	4	0	3,497,177:71:0	
672	96	178	23:16:10.333	117GA105A106A4J	7STRP	0.0022,0.016808,	Slew =-8.01	2R3	4	0	3,497,181:50:0	
673	96	178	23:16:21.000	117GA105A106A4K	7STRP	0.0,-0.0,0.17009,0,	Slew =-0.19	2R3	4	0	3,497,181:66:0	
674	96	178	23:20:09.666	117GA105A106A4L	7STRP	0.0022,0.016808,	Slew =-8.01	2R3	4	0	3,497,185:45:0	
675	96	178	23:20:20.333	117GA105A106A4M	7STRP	0.0,-0.0,0.17009,0,	Slew =-0.19	2R3	4	0	3,497,185:61:0	
676	96	178	23:22:19.000		DMS:	:*US-RUNUP	R7, TRACK 3, FWD, TIC 392.54 +/-	2R3	4	0	3,497,187:57:0	
677	96	178	23:22:19.000	50ZZ6XX	6DMSC	R7.0	DMS Control Tape runup 7.68kps	2R3	4	0	3,497,187:57:0	
678	96	178	23:22:27.200		DMS:	:*RECORD	R7, TRACK 3, FWD, TIC * 394.24 +/-	2R3	4	0	3,497,187:69:3	
679	96	178	23:22:47.666		DMS:	:*RUNDOWN	R7, TRACK 3, FWD, TIC * 399.03 +/-	2R3	4	0	3,497,188:09:0	
680	96	178	23:22:47.666	50ZZ6RE	6DMSC	RDY.0	DMS Control Tape stop	2R3	4	0	3,497,188:09:0	
681	96	178	23:22:49.066		DMS:	:*READY	RDY, TRACK 3, FWD, TIC * 399.09 +/-	2R3	4	0	3,497,188:11:1	
682	96	178	23:24:09.000	117GA105A106A4N	7STRP	0.0022,0.016808,	Slew =-8.01	2R3	4	0	3,497,189:40:0	
683	96	178	23:24:19.666	117GA105A106A4O	7STRP	0.0,-0.0,0.17009,0,	Slew =-0.19	2R3	4	0	3,497,189:56:0	
684	96	178	23:28:08.333	117GA105A106A4P	7STRP	0.0022,0.016808,	Slew =-8.01	2R3	4	0	3,497,193:35:0	
685	96	178	23:28:19.000	117GA105A106A4Q	7STRP	0.0,-0.0,0.17009,0,	Slew =-0.19	2R3	4	0	3,497,193:51:0	
686	96	178	23:32:07.666	117GA105A106A4R	7STRP	0.0022,0.016808,	Slew =-8.01	2R3	4	0	3,497,197:30:0	
687	96	178	23:32:18.333	117GA105A106A4S	7STRP	0.0,-0.0,0.17009,0,	Slew =-0.19	2R3	4	0	3,497,197:46:0	
688	96	178	23:35:21.000	50ZZ6XX	6DMSC	R7.0	DMS Control Tape runup 7.68kps	2R3	4	0	3,497,200:47:0	
689	96	178	23:35:29.200		DMS:	:*US-RUNUP	R7, TRACK 3, FWD, TIC 399.09 +/-	2R3	4	0	3,497,200:47:0	
690	96	178	23:35:29.200		DMS:	:*RECORD	R7, TRACK 3, FWD, TIC * 400.79 +/-	2R3	4	0	3,497,200:59:3	
691	96	178	23:35:49.666	50ZZ6RD	6DMSC	RDY.0	DMS Control Tape stop	2R3	4	0	3,497,200:90:0	
692	96	178	23:35:49.666		DMS:	:*RUNDOWN	R7, TRACK 3, FWD, TIC * 405.59 +/-	2R3	4	0	3,497,200:90:0	
693	96	178	23:35:51.066		DMS:	:*READY	RDY, TRACK 3, FWD, TIC * 405.65 +/-	2R3	4	0	3,497,201:01:1	
694	96	178	23:36:07.000	117GA105A106A4T	7STRP	0.0022,0.016808,	Slew =-8.01	2R3	4	0	3,497,201:25:0	
695	96	178	23:36:17.666	117GA105A106A4U	7STRP	0.0,-0.0,0.17009,0,	Slew =-0.19	2R3	4	0	3,497,201:41:0	
696	96	178	23:40:06.333	117GA105A106A4V	7STRP	0.0022,0.016808,	Slew =-8.01	2R3	4	0	3,497,205:20:0	
697	96	178	23:40:17.000	117GA105A106A4W	7STRP	0.0,-0.0,0.17009,0,	Slew =-0.19	2R3	4	0	3,497,205:36:0	
698	96	178	23:44:05.666	117GA105A106A4X	7STRP	0.0022,0.016808,	Slew =-8.01	2R3	4	0	3,497,209:15:0	
699	96	178	23:44:16.333	117GA105A106A4Y	7STRP	0.0,-0.0,0.17009,0,	Slew =-0.19	2R3	4	0	3,497,209:31:0	
700	96	178	23:48:05.000	117GA105A106A4Z	7STRP	0.0022,0.016808,	Slew =-8.01	2R3	4	0	3,497,213:10:0	
701	96	178	23:48:15.666	117GA105A106A4AA	7STRP	0.0,-0.0,0.17009,0,	Slew =-0.19	2R3	4	0	3,497,213:26:0	
702	96	178	23:48:23.000		DMS:	:*US-RUNUP	R7, TRACK 3, FWD, TIC 405.65 +/-	2R3	4	0	3,497,213:37:0	
703	96	178	23:48:23.000	50ZZ6XX	6DMSC	R7.0	DMS Control Tape runup 7.68kps	2R3	4	0	3,497,213:37:0	
704	96	178	23:48:31.200		DMS:	:*RECORD	R7, TRACK 3, FWD, TIC * 407.34 +/-	2R3	4	0	3,497,213:49:3	
705	96	178	23:48:31.666		DMS:	:*RUNDOWN	R7, TRACK 3, FWD, TIC * 412.14 +/-	2R3	4	0	3,497,213:80:0	
706	96	178	23:48:51.666	50ZZ6RE	6DMSC	RDY.0	DMS Control Tape stop	2R3	4	0	3,497,213:80:0	
707	96	178	23:48:53.066		DMS:	:*READY	RDY, TRACK 3, FWD, TIC * 412.20 +/-	2R3	4	0	3,497,213:82:1	
708	96	178	23:52:04.333	117GA105A106A4AB	7STRP	0.0022,0.016808,	Slew =-8.01	2R3	4	0	3,497,217:05:0	
709	96	178	23:52:15.000	117GA105A106A4AC	7STRP	0.0,-0.0,0.17009,0,	Slew =-0.19	2R3	4	0	3,497,217:21:0	
710	96	178	23:56:03.666	117GA105A106A4AD	7STRP	0.0022,0.016808,	Slew =-8.01	2R3	4	0	3,497,221:00:0	
711	96	178	23:56:14.333	117GA105A106A4AE	7STRP	0.0,-0.0,0.17009,0,	Slew =-0.19	2R3	4	0	3,497,221:16:0	
712	96	179	00:00:03.000	50ZZ6XX	6DMSC	R7.0	DMS Control Tape runup 7.68kps	2R3	4	0	3,497,224:86:0	
713	96	179	00:00:03.000	176GA6B	6TMREC	NRC	NO RECORD Record Mode Change	2R3	4	0	3,497,224:86:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
714	96	179	00:00:03.000		DMS:	: *US-RUNUP	R7, TRACK 3, FWD, TIC 412.20 +/-	2R3	4	0	3,497,224:86:0	
715	96	179	00:00:03.000	117GA11A	CSMOS	GE	**** GROUP END CSMOS	2R3	4	0	3,497,224:86:0	
716	96	179	00:00:11.200		DMS:	: *RECORD	R7, TRACK 3, FWD, TIC * 413.89 +/-	2R3	4	0	3,497,225:07:3	
717	96	179	00:00:29.666	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,497,225:35:0	
718	96	179	00:00:29.666		DMS:	: *RUNDOWN	R7, TRACK 3, FWD, TIC * 418.28 +/-	2R3	4	0	3,497,225:35:0	
719	96	179	00:00:31.066		DMS:	: *READY	RDY, TRACK 3, FWD, TIC * 418.28 +/-	2R3	4	0	3,497,225:37:1	
720	96	179	00:01:05.666	165GB4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,497,225:89:0	
721	96	179	00:01:06.333	165GB4B	7SCAN	NORM,254.198999,	Check S/P Position	2R3	4	0	3,497,225:90:0	
722	96	179	00:01:58.333	117GB	CSMOS	GS	**** GROUP START CSMOS	2R3	4	0	3,497,226:77:0	
723	96	179	00:02:07.666	117GB105A106A4A	7STRP	0.0,-0.018511,0,	Slew = 0.61	2R3	4	0	3,497,227:00:0	
724	96	179	00:02:07.666	176GB6A	6TMREC	BPT	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R3	4	0	3,497,227:00:0	
725	96	179	00:03:29.000	117GB105A106A4B	7STRP	0.0022,0.018511,	Slew = 8.01	2R3	4	0	3,497,228:31:0	
726	96	179	00:03:39.000	117GB105A106A4C	7STRP	0.0,-0.018511,0,	Slew = 0.61	2R3	4	0	3,497,228:46:0	
727	96	179	00:05:00.333	117GB105A106A4D	7STRP	0.0022,0.018511,	Slew = 8.01	2R3	4	0	3,497,229:77:0	
728	96	179	00:05:10.333	117GB105A106A4E	7STRP	0.0,-0.018511,0,	Slew = 0.61	2R3	4	0	3,497,230:01:0	
729	96	179	00:06:31.666	117GB105A106A4F	7STRP	0.0022,0.018511,	Slew = 8.01	2R3	4	0	3,497,231:32:0	
730	96	179	00:06:41.666	117GB105A106A4G	7STRP	0.0,-0.018511,0,	Slew = 0.61	2R3	4	0	3,497,231:47:0	
731	96	179	00:08:03.000	117GB105A106A4H	7STRP	0.0022,0.018511,	Slew = 8.01	2R3	4	0	3,497,232:78:0	
732	96	179	00:08:13.000	117GB105A106A4I	7STRP	0.0,-0.018511,0,	Slew = 0.61	2R3	4	0	3,497,233:02:0	
733	96	179	00:09:34.333	117GB105A106A4J	7STRP	0.0022,0.018511,	Slew = 8.01	2R3	4	0	3,497,234:33:0	
734	96	179	00:09:44.333	117GB105A106A4K	7STRP	0.0,-0.018511,0,	Slew = 0.61	2R3	4	0	3,497,234:48:0	
735	96	179	00:11:05.666	117GB105A106A4L	7STRP	0.0022,0.018511,	Slew = 8.01	2R3	4	0	3,497,235:79:0	
736	96	179	00:11:15.666	117GB105A106A4M	7STRP	0.0,-0.018511,0,	Slew = 0.61	2R3	4	0	3,497,236:03:0	
737	96	179	00:12:37.000	117GB105A106A4N	7STRP	0.0022,0.018511,	Slew = 8.01	2R3	4	0	3,497,237:34:0	
738	96	179	00:12:47.000	117GB105A106A4O	7STRP	0.0,-0.018511,0,	Slew = 0.61	2R3	4	0	3,497,237:49:0	
739	96	179	00:14:08.333	117GB105A106A4P	7STRP	0.0022,0.018511,	Slew = 8.01	2R3	4	0	3,497,238:80:0	
740	96	179	00:14:18.333	117GB105A106A4Q	7STRP	0.0,-0.018511,0,	Slew = 0.61	2R3	4	0	3,497,239:04:0	
741	96	179	00:14:59.666	50ZZ6XX	6DMSC	RDY,0	DMS Control Tape runup 7.68kps	2R3	4	0	3,497,239:66:0	
742	96	179	00:14:59.666		DMS:	: *US-RUNUP	R7, TRACK 3, FWD, TIC 418.28 +/-	2R3	4	0	3,497,239:66:0	
743	96	179	00:15:07.866		DMS:	: *RECORD	R7, TRACK 3, FWD, TIC * 419.98 +/-	2R3	4	0	3,497,239:78:3	
744	96	179	00:15:28.333	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,497,240:18:0	
745	96	179	00:15:28.333		DMS:	: *RUNDOWN	R7, TRACK 3, FWD, TIC * 424.78 +/-	2R3	4	0	3,497,240:18:0	
746	96	179	00:15:29.733		DMS:	: *READY	RDY, TRACK 3, FWD, TIC * 424.84 +/-	2R3	4	0	3,497,240:20:1	
747	96	179	00:15:39.666	117GB105A106A4R	7STRP	0.0022,0.018511,	Slew = 8.01	2R3	4	0	3,497,240:35:0	
748	96	179	00:15:49.666	117GB105A106A4S	7STRP	0.0,-0.018511,0,	Slew = 0.61	2R3	4	0	3,497,240:50:0	
749	96	179	00:17:11.000	117GB105A106A4T	7STRP	0.0022,0.018511,	Slew = 8.01	2R3	4	0	3,497,241:81:0	
750	96	179	00:17:21.000	117GB105A106A4U	7STRP	0.0,-0.018511,0,	Slew = 0.61	2R3	4	0	3,497,242:05:0	
751	96	179	00:18:42.333	117GB105A106A4V	7STRP	0.0022,0.018511,	Slew = 8.01	2R3	4	0	3,497,243:36:0	
752	96	179	00:18:52.333	117GB105A106A4W	7STRP	0.0,-0.018511,0,	Slew = 0.61	2R3	4	0	3,497,243:51:0	
753	96	179	00:20:13.666	117GB105A106A4X	7STRP	0.0022,0.018511,	Slew = 8.01	2R3	4	0	3,497,244:82:0	
754	96	179	00:20:23.666	117GB105A106A4Y	7STRP	0.0,-0.018511,0,	Slew = 0.61	2R3	4	0	3,497,245:06:0	
755	96	179	00:21:45.000	117GB105A106A4Z	7STRP	0.0022,0.018511,	Slew = 8.01	2R3	4	0	3,497,246:37:0	
756	96	179	00:21:55.000	117GB105A106A4AA	7STRP	0.0,-0.018511,0,	Slew = 0.61	2R3	4	0	3,497,246:52:0	
757	96	179	00:23:16.333	117GB105A106A4AB	7STRP	0.0022,0.018511,	Slew = 8.01	2R3	4	0	3,497,247:83:0	
758	96	179	00:23:26.333	117GB105A106A4AC	7STRP	0.0,-0.018511,0,	Slew = 0.61	2R3	4	0	3,497,248:07:0	
759	96	179	00:24:47.666	117GB105A106B4A	7STRP	0.0021,0.019014,	Slew = 8.01	2R3	4	0	3,497,249:38:0	
760	96	179	00:24:57.666	117GB105A106B4B	7STRP	0.0,-0.007601,0,	Slew = 0.61	2R3	4	0	3,497,249:53:0	
761	96	179	00:25:32.333	117GB105A106C4A	7STRP	0.0023,0.007201,	Slew = 8.01	2R3	4	0	3,497,250:14:0	
762	96	179	00:25:40.333	117GB105A106C4B	7STRP	0.0,-0.007201,0,	Slew = 0.61	2R3	4	0	3,497,250:26:0	
763	96	179	00:26:16.333	117GB105A106C4C	7STRP	0.0023,0.007201,	Slew = 8.01	2R3	4	0	3,497,250:80:0	
764	96	179	00:26:24.333	117GB105A106C4D	7STRP	0.0,-0.007201,0,	Slew = 0.61	2R3	4	0	3,497,251:01:0	
765	96	179	00:27:00.333	117GB105A106C4E	7STRP	0.0023,0.007201,	Slew = 8.01	2R3	4	0	3,497,251:55:0	
766	96	179	00:27:08.333	117GB105A106C4F	7STRP	0.0,-0.007201,0,	Slew = 0.61	2R3	4	0	3,497,251:67:0	
767	96	179	00:27:44.333	117GB105A106C4G	7STRP	0.0023,0.007201,	Slew = 8.01	2R3	4	0	3,497,252:30:0	
768	96	179	00:27:52.333	117GB105A106C4H	7STRP	0.0,-0.007201,0,	Slew = 0.61	2R3	4	0	3,497,252:42:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
769	96	179	00:28:02.333		DMS:	:*US-RUNUP	R7, TRACK 3, FWD, TIC 424.84 +/-	2R3	4	0	3,497,252:57.0	
770	96	179	00:28:02.333	50ZZ6XX	6DMSC	R7.0	DMS Control Tape runup 7.68kps	2R3	4	0	3,497,252:57.0	
771	96	179	00:28:10.533		DMS:	:*RECORD	R7, TRACK 3, FWD, TIC * 426.53 +/-	2R3	4	0	3,497,252:69.3	
772	96	179	00:28:28.333	117GB105A106C41	7STRP	0.0023.0.007201,	Slew = -8.01	2R3	4	0	3,497,253:05.0	
773	96	179	00:28:31.000	50ZZ6RD	6DMSC	RDY.0	DMS Control Tape stop	2R3	4	0	3,497,253:09.0	
774	96	179	00:28:31.000		DMS:	:*RUNDOWN	R7, TRACK 3, FWD, TIC * 431.33 +/-	2R3	4	0	3,497,253:09.0	
775	96	179	00:28:32.400		DMS:	:*READY	RDY, TRACK 3, FWD, TIC * 431.39 +/-	2R3	4	0	3,497,253:11.1	
776	96	179	00:28:36.333	117GB105A106C4J	7STRP	0.0.-0.007201.0,	Slew = -0.61	2R3	4	0	3,497,253:17.0	
777	96	179	00:29:12.333	117GB105A106C4K	7STRP	0.0023.0.007201,	Slew = -8.01	2R3	4	0	3,497,253:71.0	
778	96	179	00:29:20.333	117GB105A106C4L	7STRP	0.0.-0.007201.0,	Slew = -0.61	2R3	4	0	3,497,253:83.0	
779	96	179	00:29:56.333	117GB105A106C4M	7STRP	0.0023.0.007201,	Slew = -8.01	2R3	4	0	3,497,254:46.0	
780	96	179	00:30:04.333	117GB105A106C4N	7STRP	0.0.-0.007201.0,	Slew = -0.61	2R3	4	0	3,497,254:58.0	
781	96	179	00:30:40.333	117GB105A106C4O	7STRP	0.0023.0.007201,	Slew = -8.01	2R3	4	0	3,497,255:21.0	
782	96	179	00:30:48.333	117GB105A106C4P	7STRP	0.0.-0.007201.0,	Slew = -0.61	2R3	4	0	3,497,255:33.0	
783	96	179	00:31:24.333	117GB105A106C4Q	7STRP	0.0023.0.007201,	Slew = -8.01	2R3	4	0	3,497,255:87.0	
784	96	179	00:31:32.333	117GB105A106C4R	7STRP	0.0.-0.007201.0,	Slew = -0.61	2R3	4	0	3,497,256:08.0	
785	96	179	00:32:08.333	117GB105A106C4S	7STRP	0.0023.0.007201,	Slew = -8.01	2R3	4	0	3,497,256:62.0	
786	96	179	00:32:16.333	117GB105A106C4T	7STRP	0.0.-0.007201.0,	Slew = -0.61	2R3	4	0	3,497,256:74.0	
787	96	179	00:32:52.333	117GB105A106C4U	7STRP	0.0023.0.007201,	Slew = -8.01	2R3	4	0	3,497,257:37.0	
788	96	179	00:33:00.333	117GB105A106C4V	7STRP	0.0.-0.007201.0,	Slew = -0.61	2R3	4	0	3,497,257:49.0	
789	96	179	00:33:36.333	117GB105A106C4W	7STRP	0.0023.0.007201,	Slew = -8.01	2R3	4	0	3,497,258:12.0	
790	96	179	00:33:44.333	117GB105A106C4X	7STRP	0.0.-0.007201.0,	Slew = -0.61	2R3	4	0	3,497,258:24.0	
791	96	179	00:34:20.333	117GB105A106C4Y	7STRP	0.0023.0.007201,	Slew = -8.01	2R3	4	0	3,497,258:78.0	
792	96	179	00:34:28.333	117GB105A106C4Z	7STRP	0.0.-0.007201.0,	Slew = -0.61	2R3	4	0	3,497,258:90.0	
793	96	179	00:35:04.333	117GB105A106C4AA	7STRP	0.0023.0.007201,	Slew = -8.01	2R3	4	0	3,497,259:53.0	
794	96	179	00:35:12.333	117GB105A106C4AB	7STRP	0.0.-0.007201.0,	Slew = -0.61	2R3	4	0	3,497,259:65.0	
795	96	179	00:35:48.333	117GB105A106C4AC	7STRP	0.0023.0.007201,	Slew = -8.01	2R3	4	0	3,497,260:28.0	
796	96	179	00:35:56.333	117GB105A106C4AD	7STRP	0.0.-0.007201.0,	Slew = -0.61	2R3	4	0	3,497,260:40.0	
797	96	179	00:36:32.333	176GB6B	6TMREC	NRC	NO RECORD Record Mode Change	2R3	4	0	3,497,261:03.0	
798	96	179	00:36:32.333	50ZZ6XX	6DMSC	R7.0	DMS Control Tape runup 7.68kps	2R3	4	0	3,497,261:03.0	
799	96	179	00:36:32.333	117GB11A	CSMOS	GE	***** GROUP END CSMOS	2R3	4	0	3,497,261:03.0	
800	96	179	00:36:32.333		DMS:	:*US-RUNUP	R7, TRACK 3, FWD, TIC 431.39 +/-	2R3	4	0	3,497,261:03.0	
801	96	179	00:36:40.533		DMS:	:*RECORD	R7, TRACK 3, FWD, TIC * 433.08 +/-	2R3	4	0	3,497,261:15.3	
802	96	179	00:36:56.333	50ZZ6RE	6DMSC	RDY.0	DMS Control Tape stop	2R3	4	0	3,497,261:39.0	
803	96	179	00:36:56.333		DMS:	:*RUNDOWN	R7, TRACK 3, FWD, TIC * 436.79 +/-	2R3	4	0	3,497,261:39.0	
804	96	179	00:36:57.733		DMS:	:*READY	RDY, TRACK 3, FWD, TIC * 436.85 +/-	2R3	4	0	3,497,261:41.1	
805	96	179	00:37:29.666	165FV4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,497,261:89.0	
806	96	179	00:37:30.333	165FV4B	7SCAN	NORM;256.345997,	Check S/P Position	2R3	4	0	3,497,261:90.0	
807	96	179	00:37:34.933	G1JNGRS02501-		-----START-----		2R3	4	0	:	:
808	96	179	00:38:15.000		DMS:	:*US-RUNUP	R28, TRACK 3, FWD, TIC 436.85 +/-	2R3	4	0	3,497,262:66.0	
809	96	179	00:38:15.000	175KB422A6A	6DMSC	R28.0	DMS Control Tape runup 28.8kbp	2R3	4	0	3,497,262:66.0	
810	96	179	00:38:22.333	117FV	CSMOS	GS	***** GROUP START CSMOS	2R3	4	0	3,497,262:77.0	
811	96	179	00:38:27.000	127FV	NIMSTAB	GS	%%-%-% GROUP START TAB	2R3	4	0	3,497,262:84.0	
812	96	179	00:38:27.000	127FV4A	37IOP	5.1	Short Map, Grating Start Position =01	2R5	4	1	3,497,262:84.0	
813	96	179	00:38:27.000	175KB176A6A	6TMREC	MPW	28.8 KBPS PWS + NIMS RECORD Record Mode C	2R5	4	1	3,497,262:84.0	
814	96	179	00:38:27.066		DMS:	:*RECORD	R28, TRACK 3, FWD, TIC * 439.74 +/-	2R5	4	1	3,497,262:84.1	
815	96	179	00:38:27.666	127FV4B	37ETB	CD.02.00.00.05,	Loads wavelength edit table	2R5	4	1	3,497,262:85.0	
816	96	179	00:38:28.333		DMS:	:*RUNDOWN	R28, TRACK 3, FWD, TIC * 440.86 +/-	2R5	4	1	3,497,262:86.0	
817	96	179	00:38:28.333	175FV422A6A	6DMSC	R7.0	DMS Control Tape runup 7.68kps	2R5	4	1	3,497,262:86.0	
818	96	179	00:38:29.733		DMS:	:*RUNUP	R7, TRACK 3, FWD, TIC * 441.08 +/-	2R5	4	1	3,497,262:88.1	
819	96	179	00:38:31.000	175FV176A6A	6TMREC	LPU	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	3,497,262:90.0	
820	96	179	00:38:31.200		DMS:	:*RECORD	R7, TRACK 3, FWD, TIC * 441.20 +/-	2R5	4	1	3,497,262:90.3	
821	96	179	00:38:31.649	G1JNGRS02501-		301FV	GRS 25 PHASE #1	2R5	4	1	:	:
822	96	179	00:38:31.666	117FV105A106A4A	7STRP	-0.035014.0.0.0,	Slew = 0.11	2R5	4	1	3,497,263:00.0	
823	96	179	00:38:35.666	127FV11A	NIMSTAB	GE	%%-%-% GROUP END TAB	2R5	4	1	3,497,263:06.0	



Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
824	96	179	00:43:55.666	117FV105A106A4B	7STRP	0.036016,-0.0080	Slew =12.01	2R5	4	1	3,497,268:31.0	
825	96	179	00:44:07.666	117FV105A106A4C	7STRP	-0.035014,0.0,0.0,	Slew = 0.11	2R5	4	1	3,497,268:49.0	
<b>826</b>	<b>96</b>	<b>179</b>	<b>00:49:31.648</b>	<b>G1JNGRS02501-</b>	<b>DESEL</b>	<b>300FV</b>	<b>GRS 25 PHASE #1</b>	<b>2R5</b>	<b>4</b>	<b>1</b>	<b>:</b>	<b>:</b>
827	96	179	00:49:31.666	117FV111A	CSMOS	GE	**** GROUP END CSMOS	2R5	4	1	3,497,273:80.0	
828	96	179	00:49:31.666	175FV6A	6TMREC	NRC	NO RECORD Record Mode Change	2R5	4	1	3,497,273:80.0	
829	96	179	00:49:31.666	175FV422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,497,273:80.0	
830	96	179	00:49:31.666		DMS:	: *RUNDOWN	R7, TRACK 3, FWD, TIC * 595.99 +/-	2R5	4	1	3,497,273:80.0	
831	96	179	00:49:33.066		DMS:	: *READY	RDY, TRACK 3, FWD, TIC * 596.05 +/-	2R5	4	1	3,497,273:82.1	
832	96	179	00:49:37.666	165GC4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,497,273:89.0	
833	96	179	00:49:38.333	165GC4B	7SCAN	NORM;256.158997,	Check S/P Position	2R5	4	1	3,497,273:90.0	
<b>834</b>	<b>96</b>	<b>179</b>	<b>00:49:42.933</b>	<b>G1JNGRS02501-</b>	<b>CSMOS</b>	<b>GS</b>	<b>STOP</b>	<b>2R5</b>	<b>4</b>	<b>1</b>	<b>:</b>	<b>:</b>
835	96	179	00:50:30.333	117GC	CSMOS	GS	**** GROUP START CSMOS	2R5	4	1	3,497,274:77.0	
836	96	179	00:50:39.666	176GC6A	6TMREC	BPT	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R5	4	1	3,497,275:00.0	
837	96	179	00:50:39.666	117GC105A106A4A	7STRP	0.0008,-0.009202	Slew = 0.21	2R5	4	1	3,497,275:00.0	
838	96	179	00:52:45.000	117GC105A106A4B	7STRP	0.0012,0.009152,	Slew = 8.01	2R5	4	1	3,497,277:06.0	
839	96	179	00:52:54.333	117GC105A106A4C	7STRP	0.0008,-0.009202	Slew = 0.21	2R5	4	1	3,497,277:20.0	
840	96	179	00:54:59.666	117GC105A106A4D	7STRP	0.0012,0.009152,	Slew = 8.01	2R5	4	1	3,497,279:26.0	
841	96	179	00:55:09.000	117GC105A106A4E	7STRP	0.0008,-0.009202	Slew = 0.21	2R5	4	1	3,497,279:40.0	
842	96	179	00:57:14.333	117GC105A106A4F	7STRP	0.0012,0.009152,	Slew = 8.01	2R5	4	1	3,497,281:46.0	
843	96	179	00:57:23.666	117GC105A106A4G	7STRP	0.0008,-0.009202	Slew = 0.21	2R5	4	1	3,497,281:60.0	
844	96	179	00:59:29.000	117GC105A106A4H	7STRP	0.0012,0.009152,	Slew = 8.01	2R5	4	1	3,497,283:66.0	
845	96	179	00:59:38.333	117GC105A106A4I	7STRP	0.0008,-0.009202	Slew = 0.21	2R5	4	1	3,497,283:80.0	
846	96	179	01:01:43.666	117GC105A106A4J	7STRP	0.0012,0.009152,	Slew = 8.01	2R5	4	1	3,497,285:86.0	
847	96	179	01:01:53.000	117GC105A106A4K	7STRP	0.0008,-0.009202	Slew = 0.21	2R5	4	1	3,497,286:09.0	
848	96	179	01:03:31.666		DMS:	: US-RUNUP	R7, TRACK 3, FWD, TIC 596.05 +/-	2R5	4	1	3,497,287:66.0	
849	96	179	01:03:31.666	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,497,287:66.0	
850	96	179	01:03:39.666		DMS:	: *RECORD	R7, TRACK 3, FWD, TIC * 597.75 +/-	2R5	4	1	3,497,287:78.3	
851	96	179	01:03:58.333	117GC105A106A4L	7STRP	0.0012,0.009152,	Slew = 8.01	2R5	4	1	3,497,288:15.0	
852	96	179	01:04:00.333		DMS:	: *RUNDOWN	R7, TRACK 3, FWD, TIC * 602.55 +/-	2R5	4	1	3,497,288:18.0	
853	96	179	01:04:00.333	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,497,288:18.0	
854	96	179	01:04:01.733		DMS:	: *READY	RDY, TRACK 3, FWD, TIC * 602.61 +/-	2R5	4	1	3,497,288:20.1	
855	96	179	01:04:07.666	117GC105A106A4M	7STRP	0.0008,-0.009202	Slew = 0.21	2R5	4	1	3,497,288:29.0	
856	96	179	01:06:13.000	117GC105A106A4N	7STRP	0.0012,0.009152,	Slew = 8.01	2R5	4	1	3,497,290:35.0	
857	96	179	01:06:22.333	117GC105A106A4O	7STRP	0.0008,-0.009202	Slew = 0.21	2R5	4	1	3,497,290:49.0	
858	96	179	01:08:27.666	117GC105A106A4P	7STRP	0.0012,0.009152,	Slew = 8.01	2R5	4	1	3,497,292:55.0	
859	96	179	01:08:37.000	117GC105A106A4Q	7STRP	0.0008,-0.009202	Slew = 0.21	2R5	4	1	3,497,292:69.0	
860	96	179	01:10:42.333	117GC105A106A4R	7STRP	0.0012,0.009152,	Slew = 8.01	2R5	4	1	3,497,294:75.0	
861	96	179	01:10:51.666	117GC105A106A4S	7STRP	0.0008,-0.009202	Slew = 0.21	2R5	4	1	3,497,294:89.0	
862	96	179	01:12:57.000	117GC105A106A4T	7STRP	0.0012,0.009152,	Slew = 8.01	2R5	4	1	3,497,297:04.0	
863	96	179	01:13:06.333	117GC105A106A4U	7STRP	0.0008,-0.009202	Slew = 0.21	2R5	4	1	3,497,297:18.0	
864	96	179	01:15:11.666	117GC105A106A4V	7STRP	0.0012,0.009152,	Slew = 8.01	2R5	4	1	3,497,299:24.0	
865	96	179	01:15:21.000	117GC105A106A4W	7STRP	0.0008,-0.009202	Slew = 0.21	2R5	4	1	3,497,299:38.0	
866	96	179	01:16:34.333	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,497,300:57.0	
867	96	179	01:16:34.333		DMS:	: *US-RUNUP	R7, TRACK 3, FWD, TIC 602.61 +/-	2R5	4	1	3,497,300:57.0	
868	96	179	01:16:42.533		DMS:	: *RECORD	R7, TRACK 3, FWD, TIC * 604.30 +/-	2R5	4	1	3,497,300:69.3	
869	96	179	01:17:03.000		DMS:	: *RUNDOWN	R7, TRACK 3, FWD, TIC * 609.10 +/-	2R5	4	1	3,497,301:09.0	
870	96	179	01:17:03.000	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,497,301:09.0	
871	96	179	01:17:04.400		DMS:	: *READY	RDY, TRACK 3, FWD, TIC * 609.16 +/-	2R5	4	1	3,497,301:11.1	
872	96	179	01:17:26.333	117GC105A106A4X	7STRP	0.0012,0.009152,	Slew = 8.01	2R5	4	1	3,497,301:44.0	
873	96	179	01:17:35.666	117GC105A106A4Y	7STRP	0.0008,-0.009202	Slew = 0.21	2R5	4	1	3,497,301:58.0	
874	96	179	01:19:41.000	117GC105A106A4Z	7STRP	0.0012,0.009152,	Slew = 8.01	2R5	4	1	3,497,303:64.0	
875	96	179	01:19:50.333	117GC105A106A4A	7STRP	0.0008,-0.009202	Slew = 0.21	2R5	4	1	3,497,303:78.0	
876	96	179	01:21:55.666	117GC11A	CSMOS	GE	**** GROUP END CSMOS	2R5	4	1	3,497,305:84.0	
877	96	179	01:21:55.666	176GC6B	6TMREC	NRC	NO RECORD Record Mode Change	2R5	4	1	3,497,305:84.0	
878	96	179	01:21:55.666	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,497,305:84.0	



Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
879	96	179	01:21:55.666		DMS:	:*US-RUNUP	R7, TRACK 3, FWD, TIC 609.16 +/-	2R5	4	1	3,497,305:84:0	
880	96	179	01:22:03.866		DMS:	:*RECORD	R7, TRACK 3, FWD, TIC * 610.86 +/-	2R5	4	1	3,497,306:05:3	
881	96	179	01:22:16.333		DMS:	:*RUNDOWN	R7, TRACK 3, FWD, TIC * 613.78 +/-	2R5	4	1	3,497,306:24:0	
882	96	179	01:22:16.333	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,497,306:24:0	
883	96	179	01:22:17.733		DMS:	:*READY	RDY, TRACK 3, FWD, TIC * 613.84 +/-	2R5	4	1	3,497,306:26:1	
884	96	179	01:22:59.666	165GD4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,497,306:89:0	
885	96	179	01:23:00.333	165GD4B	7SCAN	NORM,254.646999,	Check S/P Position	2R5	4	1	3,497,306:90:0	
886	96	179	01:23:52.333	117GD	CSMOS	GS	***** GROUP START CSMOS	2R5	4	1	3,497,307:77:0	
887	96	179	01:24:01.666	176GD6A	6TMREC	BPT	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R5	4	1	3,497,308:00:0	
888	96	179	01:24:41.666	117GD105A106A4A	7STRP	0.001,-0.012003,	Slew = -0.31	2R5	4	1	3,497,308:00:0	
889	96	179	01:25:41.000	117GD105A106A4B	7STRP	0.0018,0.011903,	Slew = -8.01	2R5	4	1	3,497,309:58:0	
890	96	179	01:25:50.333	117GD105A106A4C	7STRP	0.001,-0.012003,	Slew = -0.31	2R5	4	1	3,497,309:72:0	
891	96	179	01:27:29.666	117GD105A106A4D	7STRP	0.0018,0.011903,	Slew = -8.01	2R5	4	1	3,497,311:39:0	
892	96	179	01:27:39.000	117GD105A106A4E	7STRP	0.001,-0.012003,	Slew = -0.31	2R5	4	1	3,497,311:53:0	
893	96	179	01:29:18.333	117GD105A106A4F	7STRP	0.0018,0.011903,	Slew = -8.01	2R5	4	1	3,497,313:20:0	
894	96	179	01:29:27.666	117GD105A106A4G	7STRP	0.001,-0.012003,	Slew = -0.31	2R5	4	1	3,497,313:34:0	
895	96	179	01:31:07.000	117GD105A106A4H	7STRP	0.0018,0.011903,	Slew = -8.01	2R5	4	1	3,497,315:01:0	
896	96	179	01:31:16.333	117GD105A106A4I	7STRP	0.001,-0.012003,	Slew = -0.31	2R5	4	1	3,497,315:15:0	
897	96	179	01:32:55.666	117GD105A106A4J	7STRP	0.0018,0.011903,	Slew = -8.01	2R5	4	1	3,497,316:73:0	
898	96	179	01:33:05.000	117GD105A106A4K	7STRP	0.001,-0.012003,	Slew = -0.31	2R5	4	1	3,497,316:87:0	
899	96	179	01:34:44.333	117GD105A106A4L	7STRP	0.0018,0.011903,	Slew = -8.01	2R5	4	1	3,497,318:54:0	
900	96	179	01:34:53.666	117GD105A106A4M	7STRP	0.001,-0.012003,	Slew = -0.31	2R5	4	1	3,497,318:68:0	
901	96	179	01:36:33.000	117GD105A106A4N	7STRP	0.0018,0.011903,	Slew = -8.01	2R5	4	1	3,497,320:35:0	
902	96	179	01:36:42.333	117GD105A106A4O	7STRP	0.001,-0.012003,	Slew = -0.31	2R5	4	1	3,497,320:49:0	
903	96	179	01:38:16.333	50ZZ6XX	6DMSC	RDY,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,497,322:08:0	
904	96	179	01:38:16.333		DMS:	:*US-RUNUP	R7, TRACK 3, FWD, TIC 613.84 +/-	2R5	4	1	3,497,322:08:0	
905	96	179	01:38:21.666	117GD105A106A4P	7STRP	0.0018,0.011903,	Slew = -8.01	2R5	4	1	3,497,322:16:0	
906	96	179	01:38:24.533		DMS:	:*RECORD	R7, TRACK 3, FWD, TIC * 615.53 +/-	2R5	4	1	3,497,322:20:3	
907	96	179	01:38:31.000	117GD105A106A4Q	7STRP	0.001,-0.012003,	Slew = -0.31	2R5	4	1	3,497,322:30:0	
908	96	179	01:38:45.000	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,497,322:51:0	
909	96	179	01:38:45.000		DMS:	:*RUNDOWN	R7, TRACK 3, FWD, TIC * 620.33 +/-	2R5	4	1	3,497,322:51:0	
910	96	179	01:38:46.400		DMS:	:*READY	RDY, TRACK 3, FWD, TIC * 620.39 +/-	2R5	4	1	3,497,322:53:1	
911	96	179	01:40:10.333	176GD6B	6TMREC	NRC	NO RECORD Record Mode Change	2R5	4	1	3,497,323:88:0	
912	96	179	01:40:10.333	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,497,323:88:0	
913	96	179	01:40:10.333	117GD11A	CSMOS	GE	***** GROUP END CSMOS	2R5	4	1	3,497,323:88:0	
914	96	179	01:40:10.333		DMS:	:*US-RUNUP	R7, TRACK 3, FWD, TIC 620.39 +/-	2R5	4	1	3,497,323:88:0	
915	96	179	01:40:18.533		DMS:	:*RECORD	R7, TRACK 3, FWD, TIC * 622.09 +/-	2R5	4	1	3,497,324:09:3	
916	96	179	01:40:27.666	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,497,324:23:0	
917	96	179	01:40:27.666		DMS:	:*RUNDOWN	R7, TRACK 3, FWD, TIC * 624.23 +/-	2R5	4	1	3,497,324:23:0	
918	96	179	01:40:29.066		DMS:	:*READY	RDY, TRACK 3, FWD, TIC * 624.29 +/-	2R5	4	1	3,497,324:25:1	
919	96	179	02:08:03.666	488A06D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	2R5	4	1	3,497,351:50:0	
920	96	179	03:10:10.333	165DK4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,497,412:89:0	
921	96	179	03:10:11.000	165DK4B	7SCAN	NORM,251.949999,	Check S/P Position	2R5	4	1	3,497,412:90:0	
922	96	179	03:10:15.600	G1GNMEMPI01-		-----START-----		2R5	4	1	:	:
923	96	179	03:13:09.000	125DK	NIMSINIT	GS	##### GROUP START INIT	2R5	4	1	3,497,415:84:0	
924	96	179	03:13:09.000	125DK4A	37IST	1,2,0,OFF,0,1,2	Chopper ON, Sync, Chopper (Ref)Gain State	3R5	4	1	3,497,415:84:0	
925	96	179	03:13:09.000	125DK11A	NIMSINIT	GE	##### GROUP END INIT	3R5	4	1	3,497,415:84:0	
926	96	179	03:13:57.666		DMS:	:*US-RUNUP	R28, TRACK 3, FWD, TIC 624.29 +/-	3R5	4	1	3,497,416:66:0	
927	96	179	03:13:57.666	175KC422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	3R5	4	1	3,497,416:66:0	
928	96	179	03:14:05.000	117DK	CSMOS	GS	***** GROUP START CSMOS	3R5	4	1	3,497,416:77:0	
929	96	179	03:14:09.666	127DK4A	37IOP	3,0	Long Map, Group Start Position = 00	3R3	4	0	3,497,416:84:0	
930	96	179	03:14:09.666	127DK	NIMSTAB	GS	%%%%% GROUP START TAB	3R3	4	0	3,497,416:84:0	
931	96	179	03:14:09.666	175KC176A6A	6TMREC	MPW	28.8 KBPS PWS + NIMS RECORD Record Mode C	3R3	4	0	3,497,416:84:0	
932	96	179	03:14:09.733		DMS:	:*RECORD	R28, TRACK 3, FWD, TIC * 627.18 +/-	3R3	4	0	3,497,416:84:1	
933	96	179	03:14:10.333	127DK4B	37ETB	07,C7,02,00,18,0	Loads wavelength edit table	3R3	4	0	3,497,416:85:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
934	96	179	03:14:11.000		DMS:	:*RUNDOWN	R28, TRACK 3, FWD, TIC * 628.30 +/-	3R3	4	0	3,497,416:86:0	
935	96	179	03:14:11.000	175DK422A6A	6DMSC	R7.0	DMS Control Tape runup 7.68kps	3R3	4	0	3,497,416:86:0	
936	96	179	03:14:12.400		DMS:	:*RUNUP	R7, TRACK 3, FWD, TIC * 628.52 +/-	3R3	4	0	3,497,416:88:1	
937	96	179	03:14:13.000	165DK4C	7VECT		Inert vect update UTC	3R3	4	0	3,497,416:89:0	
938	96	179	03:14:13.666	165DK4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	3R3	4	0	3,497,416:90:0	
939	96	179	03:14:13.666	175DK176A6A	6TMREC	LPU	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	3R3	4	0	3,497,416:90:0	
940	96	179	03:14:13.866		DMS:	:*RECORD	R7, TRACK 3, FWD, TIC * 628.64 +/-	3R3	4	0	3,497,416:90:3	
941	96	179	03:14:14.310	G1GNMEMPI01-	NIMPBK	301DK	MEMPHIS FACULA FURROWS/PALIMPSES	3R3	4	0	:	:
942	96	179	03:14:14.333	117DK105A106A4A	7STRP	0.013801,0.0,0.0	Slew = 0.03	3R3	4	0	3,497,417:00:0	
943	96	179	03:14:18.333	127DK11A	NIMSTAB	GE	%%%%% GROUP END TAB	3R3	4	0	3,497,417:06:0	
944	96	179	03:15:01.000	488A06E	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	3R3	4	0	3,497,417:70:0	
945	96	179	03:22:19.643	G1GNMEMPI01-	DESEL	300DK	MEMPHIS FACULA FURROWS/PALIMPSES	3R3	4	0	:	:
946	96	179	03:22:19.666	175DK6A	6TMREC	NRC	NO RECORD Record Mode Change	3R3	4	0	3,497,425:00:0	
947	96	179	03:22:19.666	175DK422A6B	6DMSC	RDY,0	DMS Control Tape stop	3R3	4	0	3,497,425:00:0	
948	96	179	03:22:19.666	117DK11A	CSMOS	GE	**** GROUP END CSMOS	3R3	4	0	3,497,425:00:0	
949	96	179	03:22:19.666		DMS:	:*RUNDOWN	R7, TRACK 3, FWD, TIC * 742.50 +/-	3R3	4	0	3,497,425:00:0	
950	96	179	03:22:21.066		DMS:	:*READY	RDY, TRACK 3, FWD, TIC * 742.56 +/-	3R3	4	0	3,497,425:02:1	
951	96	179	03:24:19.666	165GE4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	3R3	4	0	3,497,426:89:0	
952	96	179	03:24:20.333	165GE4B	7SCAN	NORM,252.035999,	Check S/P Position	3R3	4	0	3,497,426:90:0	
953	96	179	03:24:25.933	G1GNMEMPI01-		-----STOP-----		3R3	4	0	:	:
954	96	179	03:24:25.000	117GE	CSMOS	GS	**** GROUP START CSMOS	3R3	4	0	3,497,427:06:0	
955	96	179	03:24:47.000	117GE105A106A4A	7STRP	0.052548,0.01500	Slew = 2.01	3R3	4	0	3,497,427:39:0	
956	96	179	03:24:47.000	176GE6A	6TMREC	BPT	7.68 KBPS PPR BURST TO TAPE Record Mode C	3R3	4	0	3,497,427:39:0	
957	96	179	03:25:18.333	117GE105A106A4B	7STRP	-0.051947,-0.016	Slew = 17.3	3R3	4	0	3,497,427:86:0	
958	96	179	03:25:29.666	117GE105A106A4C	7STRP	0.052548,0.01500	Slew = 2.01	3R3	4	0	3,497,428:12:0	
959	96	179	03:26:01.000	117GE105A106A4D	7STRP	-0.051947,-0.016	Slew = 17.3	3R3	4	0	3,497,428:59:0	
960	96	179	03:26:12.333	117GE105A106A4E	7STRP	0.052548,0.01500	Slew = 2.01	3R3	4	0	3,497,428:76:0	
961	96	179	03:26:43.666	117GE105A106A4F	7STRP	-0.051947,-0.016	Slew = 17.3	3R3	4	0	3,497,429:32:0	
962	96	179	03:26:55.000	117GE105A106A4G	7STRP	0.052548,0.01500	Slew = 2.01	3R3	4	0	3,497,429:49:0	
963	96	179	03:27:26.333	117GE105A106A4H	7STRP	-0.051947,-0.016	Slew = 17.3	3R3	4	0	3,497,430:05:0	
964	96	179	03:27:37.666	117GE105A106A4I	7STRP	0.052548,0.01500	Slew = 2.01	3R3	4	0	3,497,430:22:0	
965	96	179	03:28:09.000	117GE105A106A4J	7STRP	-0.051947,-0.016	Slew = 17.3	3R3	4	0	3,497,430:69:0	
966	96	179	03:28:20.333	117GE105A106A4K	7STRP	0.052548,0.01500	Slew = 2.01	3R3	4	0	3,497,430:86:0	
967	96	179	03:28:51.666	117GE105A106A4L	7STRP	-0.051947,-0.016	Slew = 17.3	3R3	4	0	3,497,431:42:0	
968	96	179	03:29:03.000	117GE105A106A4M	7STRP	0.052548,0.01500	Slew = 2.01	3R3	4	0	3,497,431:59:0	
969	96	179	03:29:07.666	488AP6A	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	3R3	4	0	3,497,431:66:0	
970	96	179	03:29:34.333	117GE105A106A4N	7STRP	-0.051947,-0.016	Slew = 17.3	3R3	4	0	3,497,432:15:0	
971	96	179	03:29:45.666	117GE105A106A4O	7STRP	0.052548,0.01500	Slew = 2.01	3R3	4	0	3,497,432:32:0	
972	96	179	03:30:17.000	117GE105A106A4P	7STRP	-0.051947,-0.016	Slew = 17.3	3R3	4	0	3,497,432:79:0	
973	96	179	03:30:28.333	117GE105A106A4Q	7STRP	0.052548,0.01500	Slew = 2.01	3R3	4	0	3,497,433:05:0	
974	96	179	03:30:59.666	117GE105A106A4R	7STRP	-0.051947,-0.016	Slew = 17.3	3R3	4	0	3,497,433:52:0	
975	96	179	03:31:11.000	117GE105A106A4S	7STRP	0.052548,0.01500	Slew = 2.01	3R3	4	0	3,497,433:69:0	
976	96	179	03:31:42.333	117GE105A106A4T	7STRP	-0.051947,-0.016	Slew = 17.3	3R3	4	0	3,497,434:25:0	
977	96	179	03:31:53.666	117GE105A106A4U	7STRP	0.052548,0.01500	Slew = 2.01	3R3	4	0	3,497,434:42:0	
978	96	179	03:32:25.000	117GE105A106A4V	7STRP	-0.051947,-0.016	Slew = 17.3	3R3	4	0	3,497,434:89:0	
979	96	179	03:32:36.333	117GE105A106A4W	7STRP	0.052548,0.01500	Slew = 2.01	3R3	4	0	3,497,435:15:0	
980	96	179	03:33:07.666	117GE105A106A4X	7STRP	-0.051947,-0.016	Slew = 17.3	3R3	4	0	3,497,435:62:0	
981	96	179	03:33:19.000	117GE105A106A4Y	7STRP	0.052548,0.01500	Slew = 2.01	3R3	4	0	3,497,435:79:0	
982	96	179	03:33:50.333	117GE105A106A4Z	7STRP	-0.051947,-0.016	Slew = 17.3	3R3	4	0	3,497,436:35:0	
983	96	179	03:34:01.666	117GE105A106A4A	7STRP	0.052548,0.01500	Slew = 2.01	3R3	4	0	3,497,436:52:0	
984	96	179	03:34:33.000	117GE105A106A4B	7STRP	-0.051947,-0.016	Slew = 17.3	3R3	4	0	3,497,437:08:0	
985	96	179	03:34:44.333	117GE105A106A4C	7STRP	0.052548,0.01500	Slew = 2.01	3R3	4	0	3,497,437:25:0	
986	96	179	03:35:15.666	117GE105A106A4D	7STRP	-0.051947,-0.016	Slew = 17.3	3R3	4	0	3,497,437:72:0	
987	96	179	03:35:27.000	117GE105A106A4E	7STRP	0.052548,0.01500	Slew = 2.01	3R3	4	0	3,497,437:89:0	
988	96	179	03:35:58.333	117GE105A106A4F	7STRP	-0.051947,-0.016	Slew = 17.3	3R3	4	0	3,497,438:45:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
989	96	179	03:36:09.666	117GE105A106A4AG	7STRP	0.052548,0.01500	Slew =,2.01	3R3	4	0	3,497,438:62.0	
990	96	179	03:36:41.000	117GE105A106A4AH	7STRP	-0.051947,-0.016	Slew =,17.3	3R3	4	0	3,497,439:18.0	
991	96	179	03:36:52.333	117GE105A106A4AI	7STRP	0.052548,0.01500	Slew =,2.01	3R3	4	0	3,497,439:35.0	
992	96	179	03:37:23.666	117GE105A106A4AJ	7STRP	-0.051947,-0.016	Slew =,17.3	3R3	4	0	3,497,439:82.0	
993	96	179	03:37:39.000	117GE105A106A4AK	7STRP	0.052548,0.01500	Slew =,2.01	3R3	4	0	3,497,440:08.0	
994	96	179	03:37:39.000		DMS:	: *US-RUNUP	R7, TRACK 3, FWD, TIC 742.56 +/-	3R3	4	0	3,497,440:14.0	
995	96	179	03:37:39.000	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	3R3	4	0	3,497,440:14.0	
996	96	179	03:37:47.200		DMS:	: *RECORD	R7, TRACK 3, FWD, TIC * 744.25 +/-	3R3	4	0	3,497,440:26.3	
997	96	179	03:38:06.333	117GE105A106A4AL	7STRP	-0.051947,-0.016	Slew =,17.3	3R3	4	0	3,497,440:55.0	
998	96	179	03:38:07.666		DMS:	: *RUNDOWN	R7, TRACK 3, FWD, TIC * 749.05 +/-	3R3	4	0	3,497,440:57.0	
999	96	179	03:38:07.666	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	3R3	4	0	3,497,440:57.0	
1000	96	179	03:38:09.066		DMS:	: *READY	RDY, TRACK 3, FWD, TIC * 749.11 +/-	3R3	4	0	3,497,440:59.1	
1001	96	179	03:38:17.666	117GE105A106A4AM	7STRP	0.052548,0.01500	Slew =,2.01	3R3	4	0	3,497,440:72.0	
1002	96	179	03:38:49.000	117GE105A106A4AN	7STRP	-0.051947,-0.016	Slew =,17.3	3R3	4	0	3,497,441:28.0	
1003	96	179	03:39:00.333	117GE105A106A4AO	7STRP	0.052548,0.01500	Slew =,2.01	3R3	4	0	3,497,441:45.0	
1004	96	179	03:39:31.666	117GE105A106A4AP	7STRP	-0.051947,-0.016	Slew =,17.3	3R3	4	0	3,497,442:01.0	
1005	96	179	03:39:43.000	117GE105A106A4AQ	7STRP	0.052548,0.01500	Slew =,2.01	3R3	4	0	3,497,442:18.0	
1006	96	179	03:40:14.333	117GE105A106A4AR	7STRP	-0.051947,-0.016	Slew =,17.3	3R3	4	0	3,497,442:65.0	
1007	96	179	03:40:25.666	117GE105A106A4AS	7STRP	0.052548,0.01500	Slew =,2.01	3R3	4	0	3,497,442:82.0	
1008	96	179	03:40:57.000	117GE105A106A4AT	7STRP	-0.051947,-0.016	Slew =,17.3	3R3	4	0	3,497,443:38.0	
1009	96	179	03:41:08.333	117GE105A106A4AU	7STRP	0.052548,0.01500	Slew =,2.01	3R3	4	0	3,497,443:55.0	
1010	96	179	03:41:39.666	117GE105A106A4AV	7STRP	-0.051947,-0.016	Slew =,17.3	3R3	4	0	3,497,444:11.0	
1011	96	179	03:41:51.000	117GE105A106A4AW	7STRP	0.052548,0.01500	Slew =,2.01	3R3	4	0	3,497,444:28.0	
1012	96	179	03:42:22.333	117GE105A106A4AX	7STRP	-0.051947,-0.016	Slew =,17.3	3R3	4	0	3,497,444:75.0	
1013	96	179	03:42:33.666	117GE105A106A4AY	7STRP	0.052548,0.01500	Slew =,2.01	3R3	4	0	3,497,445:01.0	
1014	96	179	03:43:05.000	117GE105A106A4AZ	7STRP	-0.051947,-0.016	Slew =,17.3	3R3	4	0	3,497,445:48.0	
1015	96	179	03:43:16.333	117GE105A106A4BA	7STRP	0.052548,0.01500	Slew =,2.01	3R3	4	0	3,497,445:65.0	
1016	96	179	03:43:47.666	117GE105A106A4BB	7STRP	-0.051947,-0.016	Slew =,17.3	3R3	4	0	3,497,446:21.0	
1017	96	179	03:43:59.000	117GE105A106A4BC	7STRP	0.052548,0.01500	Slew =,2.01	3R3	4	0	3,497,446:38.0	
1018	96	179	03:44:30.333	117GE105A106A4BD	7STRP	-0.051947,-0.016	Slew =,17.3	3R3	4	0	3,497,446:85.0	
1019	96	179	03:44:41.666	117GE105A106A4BE	7STRP	0.052548,0.01500	Slew =,2.01	3R3	4	0	3,497,447:11.0	
1020	96	179	03:45:13.000	117GE105A106A4BF	7STRP	-0.051947,-0.016	Slew =,17.3	3R3	4	0	3,497,447:58.0	
1021	96	179	03:45:24.333	117GE105A106A4BG	7STRP	0.052548,0.01500	Slew =,2.01	3R3	4	0	3,497,447:75.0	
1022	96	179	03:45:55.666	117GE105A106A4BH	7STRP	-0.051947,-0.016	Slew =,17.3	3R3	4	0	3,497,448:31.0	
1023	96	179	03:46:07.000	117GE105A106A4BI	7STRP	0.052548,0.01500	Slew =,2.01	3R3	4	0	3,497,448:48.0	
1024	96	179	03:46:38.266	117GE105A106A4BJ	7STRP	-0.051947,-0.016	Slew =,17.3	3R3	4	0	3,497,449:04.0	
1025	96	179	03:46:49.600	117GE105A106A4BK	7STRP	0.052548,0.01500	Slew =,2.01	3R3	4	0	3,497,449:21.0	
1026	96	179	03:47:20.933	117GE105A106A4BL	7STRP	-0.051947,-0.016	Slew =,17.3	3R3	4	0	3,497,449:68.0	
1027	96	179	03:47:32.266	117GE105A106A4BM	7STRP	0.052548,0.01500	Slew =,2.01	3R3	4	0	3,497,449:85.0	
1028	96	179	03:48:03.600	117GE105A106A4BN	7STRP	-0.051947,-0.016	Slew =,17.3	3R3	4	0	3,497,450:41.0	
1029	96	179	03:48:14.933	117GE105A106A4BO	7STRP	0.052548,0.01500	Slew =,2.01	3R3	4	0	3,497,450:58.0	
1030	96	179	03:48:46.266	117GE105A106A4BP	7STRP	-0.051947,-0.016	Slew =,17.3	3R3	4	0	3,497,451:14.0	
1031	96	179	03:48:57.600	117GE105A106A4BQ	7STRP	0.052548,0.01500	Slew =,2.01	3R3	4	0	3,497,451:31.0	
1032	96	179	03:49:28.933	117GE105A106A4BR	7STRP	-0.051947,-0.016	Slew =,17.3	3R3	4	0	3,497,451:78.0	
1033	96	179	03:49:40.266	117GE105A106A4BS	7STRP	0.052548,0.01500	Slew =,2.01	3R3	4	0	3,497,452:04.0	
1034	96	179	03:50:11.600	117GE105A106A4BT	7STRP	-0.051947,-0.016	Slew =,17.3	3R3	4	0	3,497,452:51.0	
1035	96	179	03:50:22.933	117GE105A106A4BU	7STRP	0.052548,0.01500	Slew =,2.01	3R3	4	0	3,497,452:68.0	
1036	96	179	03:50:41.600	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	3R3	4	0	3,497,453:05.0	
1037	96	179	03:50:41.600		DMS:	: *US-RUNUP	R7, TRACK 3, FWD, TIC 749.11 +/-	3R3	4	0	3,497,453:05.0	
1038	96	179	03:50:49.800		DMS:	: *RECORD	R7, TRACK 3, FWD, TIC * 750.81 +/-	3R3	4	0	3,497,453:17.3	
1039	96	179	03:50:54.266	117GE105A106A4BV	7STRP	-0.051947,-0.016	Slew =,17.3	3R3	4	0	3,497,453:24.0	
1040	96	179	03:51:05.600	117GE105A106A4BW	7STRP	0.052548,0.01500	Slew =,2.01	3R3	4	0	3,497,453:41.0	
1041	96	179	03:51:10.266	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	3R3	4	0	3,497,453:48.0	
1042	96	179	03:51:10.266		DMS:	: *RUNDOWN	R7, TRACK 3, FWD, TIC * 755.60 +/-	3R3	4	0	3,497,453:48.0	
1043	96	179	03:51:11.666		DMS:	: *READY	RDY, TRACK 3, FWD, TIC * 755.66 +/-	3R3	4	0	3,497,453:50.1	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1044	96	179	03:51:36.933	117GE105A106A4BX	7STRP	-0.051947,-0.016	Slew =,17.3	3R3	4	0	3,497,453:88:0	
1045	96	179	03:51:48.266	117GE105A106A4BY	7STRP	0.052548,0.01500	Slew =,2.01	3R3	4	0	3,497,454:14:0	
1046	96	179	03:52:19.600	117GE105A106A4BZ	7STRP	-0.051947,-0.016	Slew =,17.3	3R3	4	0	3,497,454:61:0	
1047	96	179	03:52:30.933	117GE105A106A4CA	7STRP	0.052548,0.01500	Slew =,2.01	3R3	4	0	3,497,454:78:0	
1048	96	179	03:53:02.266	117GE105A106A4CB	7STRP	-0.051947,-0.016	Slew =,17.3	3R3	4	0	3,497,455:34:0	
1049	96	179	03:53:13.600	117GE105A106A4CC	7STRP	0.052548,0.01500	Slew =,2.01	3R3	4	0	3,497,455:51:0	
1050	96	179	03:53:44.933	117GE105A106A4CD	7STRP	-0.051947,-0.016	Slew =,17.3	3R3	4	0	3,497,456:07:0	
1051	96	179	03:53:56.266	117GE105A106A4CE	7STRP	0.052548,0.01500	Slew =,2.01	3R3	4	0	3,497,456:24:0	
1052	96	179	03:54:27.600	50ZZ6XX	6DMSC	R7.0	DMS Control Tape runup 7.68kps	3R3	4	0	3,497,456:71:0	
1053	96	179	03:54:27.600	176GE6B	6TMREC		NO RECORD Record Mode Change	3R3	4	0	3,497,456:71:0	
1054	96	179	03:54:27.600		DMS:	:*US-RUNUP	R7, TRACK 3, FWD, TIC 755.66 +/-	3R3	4	0	3,497,456:71:0	
1055	96	179	03:54:27.600	117GE11A	CSMOS	GE	**** GROUP END CSMOS	3R3	4	0	3,497,456:71:0	
1056	96	179	03:54:35.800		DMS:	:*RECORD	R7, TRACK 3, FWD, TIC * 757.36 +/-	3R3	4	0	3,497,456:83:3	
1057	96	179	03:54:46.933		DMS:	:*RUNDOWN	R7, TRACK 3, FWD, TIC * 759.97 +/-	3R3	4	0	3,497,457:09:0	
1058	96	179	03:54:46.933	50ZZ6RE	6DMSC	RDY.0	DMS Control Tape stop	3R3	4	0	3,497,457:09:0	
1059	96	179	03:54:48.333		DMS:	:*READY	RDY, TRACK 3, FWD, TIC * 760.03 +/-	3R3	4	0	3,497,457:11:1	
1060	96	179	03:56:40.933	165IL4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	3R3	4	0	3,497,458:89:0	
1061	96	179	03:56:41.600	165IL4B	7SCAN	NORM;254.738998,	Check S/P Position	3R3	4	0	3,497,458:90:0	
1062	96	179	04:00:36.933	118IL	SMOS	GS		3R3	4	0	3,497,462:79:0	
1063	96	179	04:00:46.933	118IL110A111A4A	7STRP	0.00375,0.0,0.26,0	Slew =,1.01	3R3	4	0	3,497,463:03:0	
1064	96	179	04:00:55.600	118IL110A111A4B	7STRP	-0.00345,0.0036,	Slew =0.5,0	3R3	4	0	3,497,463:16:0	
1065	96	179	04:00:59.600		DMS:	:*US-RUNUP	R806, TRACK 3, FWD, TIC 760.03 +/-	3R3	4	0	3,497,463:22:0	
1066	96	179	04:00:59.600	175IG422A6A	6DMSC	R806.0	DMS Control Tape runup 806.4kb	3R3	4	0	3,497,463:22:0	
1067	96	179	04:01:04.266	118IL110A111A4C	7STRP	0.00375,0.0,0.26,0	Slew =,1.01	3R3	4	0	3,497,463:29:0	
1068	96	179	04:01:12.266	175IG176A6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	3R3	4	0	3,497,463:41:0	
1069	96	179	04:01:12.866		DMS:	:*RECORD	R806, TRACK 3, FWD, TIC * 826.43 +/-	3R3	4	0	3,497,463:41:9	
1070	96	179	04:01:12.933	118IL11A	SMOS	GE		3R3	4	0	3,497,463:42:0	
1071	96	179	04:01:19.600	175IG422A6B	6DMSC	RDY.0	DMS Control Tape stop	3R3	4	0	3,497,463:52:0	
1072	96	179	04:01:19.600		DMS:	:*RUNDOWN	R806, TRACK 3, FWD, TIC * 992.13 +/-	3R3	4	0	3,497,463:52:0	
1073	96	179	04:01:22.733		DMS:	:*READY	RDY, TRACK 3, FWD, TIC *1003.13 +/-	3R3	4	0	3,497,463:56:7	
1074	96	179	04:59:22.266	165DN4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	3R3	4	0	3,497,520:89:0	
1075	96	179	04:59:22.933	165DN4B	7SCAN	NORM;258.086998,	Check S/P Position	3R3	4	0	3,497,520:90:0	
1076	96	179	04:59:27.600	G1GNAMON_01-		-----START-----		3R3	4	0	:	:
1077	96	179	05:01:20.266	125DN11A	NIMSNIT	GE	##### GROUP END INIT	3R3	4	0	3,497,522:84:0	
1078	96	179	05:01:20.266	125DN	NIMSNIT	GS	##### GROUP START INIT	3R3	4	0	3,497,522:84:0	
1079	96	179	05:01:20.266	125DN4A	371ST	1,2,0,OFF,0,1,0	Chopper ON, Sync, Chopper (Ref)Gain State	2R3	4	0	3,497,522:84:0	
1080	96	179	05:02:08.933	175KD422A6A	6DMSC	R28.0	DMS Control Tape runup 28.8kbp	2R3	4	0	3,497,523:66:0	
1081	96	179	05:02:08.933		DMS:	:*US-RUNUP	R28, TRACK 3, FWD, TIC 1003.13 +/-	2R3	4	0	3,497,523:66:0	
1082	96	179	05:02:16.266	117DN	CSMOS	GS	**** GROUP START CSMOS	2R3	4	0	3,497,523:77:0	
1083	96	179	05:02:20.933	127DN	NIMSTAB	GS	%%%% GROUP START TAB	2R3	4	0	3,497,523:84:0	
1084	96	179	05:02:20.933	175KD176A6A	6TMREC	MPW	28.8 KBPS PWS + NIMS RECORD Record Mode C	2R3	4	0	3,497,523:84:0	
1085	96	179	05:02:21.000		DMS:	:*RECORD	R28, TRACK 3, FWD, TIC *1006.03 +/-	2R3	4	0	3,497,523:84:1	
1086	96	179	05:02:21.600	127DN4A	37ETB	07,C7,02,60,00,0	Loads wavelength edit table	2R3	4	0	3,497,523:85:0	
1087	96	179	05:02:22.266	175DN422A6A	6DMSC	R7.0	DMS Control Tape runup 7.68kps	2R3	4	0	3,497,523:86:0	
1088	96	179	05:02:22.266		DMS:	:*RUNDOWN	R28, TRACK 3, FWD, TIC *1007.14 +/-	2R3	4	0	3,497,523:86:0	
1089	96	179	05:02:23.666		DMS:	:*RUNUP	R7, TRACK 3, FWD, TIC *1007.36 +/-	2R3	4	0	3,497,523:88:1	
1090	96	179	05:02:24.266	165DN4C	7VECT		Inert vect update UTC	2R3	4	0	3,497,523:89:0	
1091	96	179	05:02:24.933	165DN4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	2R3	4	0	3,497,523:90:0	
1092	96	179	05:02:24.933	175DN176A6A	6TMREC	LPU	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R3	4	0	3,497,523:90:0	
1093	96	179	05:02:25.133		DMS:	:*RECORD	R7, TRACK 3, FWD, TIC *1007.48 +/-	2R3	4	0	3,497,523:90:3	
1094	96	179	05:02:25.600	117DN105A106A4A	7STRP	-0.0088,0.0,0.0,	Slew =,0.03	2R3	4	0	3,497,524:00:0	
1095	96	179	05:02:25.640	G1GNAMON_01-	NIMPBK	301DN	AMON BRIGHT RAYED CRATER/GROOVE	2R3	4	0	:	:
1096	96	179	05:02:29.600	127DN11A	NIMSTAB	GE	%%%% GROUP END TAB	2R3	4	0	3,497,524:06:0	
1097	96	179	05:07:19.640	G1GNAMON_01-	DESEL	300DN	AMON BRIGHT RAYED CRATER/GROOVE	2R3	4	0	:	:
1098	96	179	05:07:21.600	117DN11A	CSMOS	GE	**** GROUP END CSMOS	2R3	4	0	3,497,528:80:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1099	96	179	05:07:21.600	175DN6A	6TMREC	NRC	NO RECORD Record Mode Change	2R3	4	0	3,497,528:80:0	
1100	96	179	05:07:21.600	175DN422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,497,528:80:0	
1101	96	179	05:07:21.600		DMS:	:*RUNDOWN	R7, TRACK 3, FWD, TIC *1076.96 +/-	2R3	4	0	3,497,528:80:0	
1102	96	179	05:07:23.000		DMS:	:*READY	RDY, TRACK 3, FWD, TIC *1077.02 +/-	2R3	4	0	3,497,528:82:1	
1103	96	179	05:08:28.266	165DO4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,497,529:89:0	
1104	96	179	05:08:28.933	165DO4B	7SCAN	NORM,255.927999,	Check S/P Position	2R3	4	0	3,497,529:90:0	
1105	96	179	05:08:33.600	G1GNAMON_01-		-----STOP-----		2R3	4	0	:	
1106	96	179	05:08:33.600	G1GNPTAH_01-		-----START-----		2R3	4	0	:	
1107	96	179	05:11:14.933	175KE422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	2R3	4	0	3,497,532:66:0	
1108	96	179	05:11:14.933		DMS:	:*US-RUNUP	R28, TRACK 3, FWD, TIC 1077.02 +/-	2R3	4	0	3,497,532:66:0	
1109	96	179	05:11:22.266	117DO	CSMOS	GS	***** GROUP START CSMOS	2R3	4	0	3,497,532:77:0	
1110	96	179	05:11:26.933	175KE176A6A	6TMREC	MPW	28.8 KBPS PWS + NIMS RECORD Record Mode C	2R3	4	0	3,497,532:84:0	
1111	96	179	05:11:26.933	127DO	NIMSTAB	GS	%%-%-% GROUP START TAB	2R3	4	0	3,497,532:84:0	
1112	96	179	05:11:27.000		DMS:	:*RECORD	R28, TRACK 3, FWD, TIC *1079.92 +/-	2R3	4	0	3,497,532:84:1	
1113	96	179	05:11:27.600	127DO4A	37ETB	07,C7,02,0C,00,0	Loads wavelength edit table	2R3	4	0	3,497,532:85:0	
1114	96	179	05:11:28.266	175DO422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	3,497,532:86:0	
1115	96	179	05:11:28.266		DMS:	:*RUNDOWN	R28, TRACK 3, FWD, TIC *1081.03 +/-	2R3	4	0	3,497,532:86:0	
1116	96	179	05:11:29.666		DMS:	:*RUNUP	R7, TRACK 3, FWD, TIC *1081.25 +/-	2R3	4	0	3,497,532:88:1	
1117	96	179	05:11:30.266	165DO4C	7VECT		Inert vect update UTC	2R3	4	0	3,497,532:89:0	
1118	96	179	05:11:30.933	165DO4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	2R3	4	0	3,497,532:90:0	
1119	96	179	05:11:30.933	175DO176A6A	6TMREC	LPU	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R3	4	0	3,497,532:90:0	
1120	96	179	05:11:31.133		DMS:	:*RECORD	R7, TRACK 3, FWD, TIC *1081.38 +/-	2R3	4	0	3,497,532:90:0	
1121	96	179	05:11:31.600	117DO105A106A4A	7STRP	0.007,0.0,0.0,0.0,	Slew =,0.03	2R3	4	0	3,497,533:00:0	
1122	96	179	05:11:31.639	G1GNPTAH_01-	NIMPBK	301DO	RAYED CRATER PTAH	2R3	4	0	:	
1123	96	179	05:11:35.600	127DO11A	NIMSTAB	GE	%%-%-% GROUP END TAB	2R3	4	0	3,497,533:06:0	
1124	96	179	05:15:24.972	G1GNPTAH_01-	DESEL	300DO	RAYED CRATER PTAH	2R3	4	0	:	
1125	96	179	05:15:26.933		DMS:	:*RUNDOWN	R7, TRACK 3, FWD, TIC *1136.64 +/-	2R3	4	0	3,497,536:80:0	
1126	96	179	05:15:26.933	175DO6A	6TMREC	NRC	NO RECORD Record Mode Change	2R3	4	0	3,497,536:80:0	
1127	96	179	05:15:26.933	175DO422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,497,536:80:0	
1128	96	179	05:15:26.933	117DO11A	CSMOS	GE	***** GROUP END CSMOS	2R3	4	0	3,497,536:80:0	
1129	96	179	05:15:28.333		DMS:	:*READY	RDY, TRACK 3, FWD, TIC *1136.70 +/-	2R3	4	0	3,497,536:82:1	
1130	96	179	05:16:38.933	G1GNIPPIUR01-		-----START-----		2R3	4	0	:	
1131	96	179	05:16:38.933	G1GNPTAH_01-		-----STOP-----		2R3	4	0	:	
1132	96	179	05:17:34.266	165DP4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,497,538:89:0	
1133	96	179	05:17:34.933	165DP4B	7SCAN	NORM,256.668999,	Check S/P Position	2R3	4	0	3,497,538:90:0	
1134	96	179	05:19:32.266	125DP4A	37IST	1,2,0,OFF,0,1,2	Chopper ON, Sync, Chopper (Ref)Gain State	3R3	4	0	3,497,540:84:0	
1135	96	179	05:19:32.266	125DP11A	NIMSINIT	GE	##### GROUP END INIT	3R3	4	0	3,497,540:84:0	
1136	96	179	05:19:32.266	125DP	NIMSINIT	GS	##### GROUP START INIT	3R3	4	0	3,497,540:84:0	
1137	96	179	05:20:20.933		DMS:	:*US-RUNUP	R28, TRACK 3, FWD, TIC 1136.70 +/-	3R3	4	0	3,497,541:66:0	
1138	96	179	05:20:20.933	175KF422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	3R3	4	0	3,497,541:66:0	
1139	96	179	05:20:28.266	117DP	CSMOS	GS	***** GROUP START CSMOS	3R3	4	0	3,497,541:77:0	
1140	96	179	05:20:32.933	127DP	NIMSTAB	GS	%%-%-% GROUP START TAB	3R3	4	0	3,497,541:84:0	
1141	96	179	05:20:32.933	175KF176A6A	6TMREC	MPW	28.8 KBPS PWS + NIMS RECORD Record Mode C	3R3	4	0	3,497,541:84:0	
1142	96	179	05:20:33.000		DMS:	:*RECORD	R28, TRACK 3, FWD, TIC *1139.60 +/-	3R3	4	0	3,497,541:84:1	
1143	96	179	05:20:33.600	127DP4A	37ETB	07,C7,02,06,00,0	Loads wavelength edit table	3R3	4	0	3,497,541:85:0	
1144	96	179	05:20:34.266		DMS:	:*RUNDOWN	R28, TRACK 3, FWD, TIC *1140.71 +/-	3R3	4	0	3,497,541:86:0	
1145	96	179	05:20:34.266	175DP422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	3R3	4	0	3,497,541:86:0	
1146	96	179	05:20:35.666		DMS:	:*RUNUP	R7, TRACK 3, FWD, TIC *1140.93 +/-	3R3	4	0	3,497,541:88:1	
1147	96	179	05:20:36.266	165DP4C	7VECT		Inert vect update UTC	3R3	4	0	3,497,541:89:0	
1148	96	179	05:20:36.933	165DP4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	3R3	4	0	3,497,541:90:0	
1149	96	179	05:20:36.933	175DP176A6A	6TMREC	LPU	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	3R3	4	0	3,497,541:90:0	
1150	96	179	05:20:37.133		DMS:	:*RECORD	R7, TRACK 3, FWD, TIC *1141.05 +/-	3R3	4	0	3,497,541:90:0	
1151	96	179	05:20:37.600	117DP105A106A4A	7STRP	-0.019002,0.0,0.0,	Slew =,0.03	3R3	4	0	3,497,542:00:0	
1152	96	179	05:20:37.639	G1GNIPPIUR01-	NIMPBK	301DP	NIPUR SULCUS (FURROWS/DARK/GROO	3R3	4	0	:	
1153	96	179	05:20:41.600	127DP11A	NIMSTAB	GE	%%-%-% GROUP END TAB	3R3	4	0	3,497,542:06:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1154	96	179	05:31:42.972	G1GNNIPPUR01-	DESEL	300DP	NIPPUR SULCUS (FURROWS/DARK/GROO	3R3	4	0	:	:
1155	96	179	05:31:44.933	117DP11A	CSMOS	GE	**** GROUP END CSMOS	3R3	4	0	:	3,497,553:00:0
1156	96	179	05:31:44.933	175DPA22A6B	6DMSC	RDY,0	DMS Control Tape stop	3R3	4	0	:	3,497,553:00:0
1157	96	179	05:31:44.933	175DP6A	6TMREC	NRC	NO RECORD Record Mode Change	3R3	4	0	:	3,497,553:00:0
1158	96	179	05:31:44.933		DMS:	: *RUNDOWN	R7, TRACK 3, FWD, TIC *1297.57 +/-	3R3	4	0	:	3,497,553:00:0
1159	96	179	05:31:46.333		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *1297.63 +/-	3R3	4	0	:	3,497,553:02:1
1160	96	179	05:31:48.933	G1GNNIPPUR01-		-----STOP-----		3R3	4	0	:	:
1161	96	179	05:52:02.267	G1GNMIRRAY01-		-----START-----		3R3	4	0	:	:
1162	96	179	05:53:04.933	165DS4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	3R3	4	0	:	3,497,574:09:0
1163	96	179	05:53:05.600	165DS4B	7SCAN	NORM;271,247997,	Check S/P Position	3R3	4	0	:	3,497,574:10:0
1164	96	179	05:54:43.600	175KG422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	3R3	4	0	:	3,497,575:66:0
1165	96	179	05:54:43.600		DMS:	: *US-RUNUP	R28, TRACK 3, FWD, TIC 1297.63 +/-	3R3	4	0	:	3,497,575:66:0
1166	96	179	05:54:50.933	117DS	CSMOS	GS	**** GROUP START CSMOS	3R3	4	0	:	3,497,575:77:0
1167	96	179	05:54:55.600	127DS	NIMSTAB	GS	%%%%% GROUP START TAB	3R3	4	0	:	3,497,575:84:0
1168	96	179	05:54:55.600	175KGI76A6A	6TMREC	MPW	28.8 KBPS PWS + NIMS RECORD Record Mode C	3R3	4	0	:	3,497,575:84:0
1169	96	179	05:54:55.666		DMS:	: *RECORD	R28, TRACK 3, FWD, TIC *1300.52 +/-	3R3	4	0	:	3,497,575:84:1
1170	96	179	05:54:56.266	127DS4A	37ETB	07,C7,02,00,60,0	Loads wavelength edit table	3R3	4	0	:	3,497,575:85:0
1171	96	179	05:54:56.933		DMS:	: *RUNDOWN	R28, TRACK 3, FWD, TIC *1301.64 +/-	3R3	4	0	:	3,497,575:86:0
1172	96	179	05:54:56.933	175DS422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	3R3	4	0	:	3,497,575:86:0
1173	96	179	05:54:58.333		DMS:	: *RUNUP	R7, TRACK 3, FWD, TIC *1301.86 +/-	3R3	4	0	:	3,497,575:88:1
1174	96	179	05:54:58.933	165DS4C	7VECT		Inert vect update UTC	3R3	4	0	:	3,497,575:89:0
1175	96	179	05:54:59.600	175DS176A6A	6TMREC	LPU	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	3R3	4	0	:	3,497,575:90:0
1176	96	179	05:54:59.600	165DS4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	3R3	4	0	:	3,497,575:90:0
1177	96	179	05:54:59.800		DMS:	: *RECORD	R7, TRACK 3, FWD, TIC *1301.98 +/-	3R3	4	0	:	3,497,575:90:3
1178	96	179	05:55:00.266	117DS105A106A4A	7STRP	-0,016001,0,0,0,0,	Slew = -0.03	3R3	4	0	:	3,497,576:00:0
1179	96	179	05:55:00.304	G1GNMIRRAY01-	NIMPBK	301DS	MIR A DARK RAYED CRATER	3R3	4	0	:	:
1180	96	179	05:55:04.266	127DS11A	NIMSTAB	GE	%%%%% GROUP END TAB	3R3	4	0	:	3,497,576:06:0
1181	96	179	06:03:45.600	431NA6A	6RCSEL	DDSNCG,PLSSEL,EP	Record Select (DDS onl)	3R3	4	0	:	3,497,584:60:0
1182	96	179	06:03:53.637	G1GNMIRRAY01-	DESEL	300DS	MIR A DARK RAYED CRATER	3R3	4	0	:	:
1183	96	179	06:03:55.600	175DS422A6B	6DMSC	RDY,0	DMS Control Tape stop	3R3	4	0	:	3,497,584:75:0
1184	96	179	06:03:55.600		DMS:	: *RUNDOWN	R7, TRACK 3, FWD, TIC *1427.56 +/-	3R3	4	0	:	3,497,584:75:0
1185	96	179	06:03:55.600	117DS11A	CSMOS	GE	**** GROUP END CSMOS	3R3	4	0	:	3,497,584:75:0
1186	96	179	06:03:55.600	175DS6A	6TMREC	NRC	NO RECORD Record Mode Change	3R3	4	0	:	3,497,584:75:0
1187	96	179	06:03:57.000		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *1427.62 +/-	3R3	4	0	:	3,497,584:77:1
1188	96	179	06:04:10.267	G1GNURUSUL01*		-----START-----		3R3	4	0	:	:
1189	96	179	06:04:10.267	G1GNMIRRAY01-		-----STOP-----		3R3	4	0	:	:
1190	96	179	06:04:35.600	165IM4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	3R3	4	0	:	3,497,585:44:0
1191	96	179	06:04:36.266	165IM4B	7SCAN	OVER;264,903999,	Check S/P Position	3R3	4	0	:	3,497,585:45:0
1192	96	179	06:05:02.266	127FI	NIMSTAB	GS	%%%%% GROUP START TAB	3R3	4	0	:	3,497,585:84:0
1193	96	179	06:05:02.266	127FI4A	37IOP	5,0	Short Map, Grating Start Position =00	3R5	4	0	:	3,497,585:84:0
1194	96	179	06:05:02.933	127FI4B	37ETB	04,C4,0F,FF,FF	Loads wavelength edit table	3R5	4	0	:	3,497,585:85:0
1195	96	179	06:05:10.933	127FI11A	NIMSTAB	GE	%%%%% GROUP END TAB	3R5	4	0	:	3,497,586:06:0
1196	96	179	06:06:49.600		DMS:	: *US-RUNUP	R28, TRACK 3, FWD, TIC 1427.62 +/-	3R5	4	0	:	3,497,587:63:0
1197	96	179	06:06:49.600	175KH422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	3R5	4	0	:	3,497,587:63:0
1198	96	179	06:07:01.600	175KHI76A6A	6TMREC	MPW	28.8 KBPS PWS + NIMS RECORD Record Mode C	3R5	4	0	:	3,497,587:81:0
1199	96	179	06:07:01.666		DMS:	: *RECORD	R28, TRACK 3, FWD, TIC *1430.51 +/-	3R5	4	0	:	3,497,587:81:1
1200	96	179	06:07:02.933		DMS:	: *RUNDOWN	R28, TRACK 3, FWD, TIC *1431.63 +/-	3R5	4	0	:	3,497,587:83:0
1201	96	179	06:07:02.933	175TA422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	3R5	4	0	:	3,497,587:83:0
1202	96	179	06:07:04.333		DMS:	: *RUNUP	R7, TRACK 3, FWD, TIC *1431.85 +/-	3R5	4	0	:	3,497,587:85:1
1203	96	179	06:07:05.600	175TA176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	3R5	4	0	:	3,497,587:87:0
1204	96	179	06:07:05.800		DMS:	: *RECORD	R7, TRACK 3, FWD, TIC *1431.97 +/-	3R5	4	0	:	3,497,587:87:3
1205	96	179	06:07:08.266	431JB6A	6RCSEL	DDSEL,PLSNCG,EP	Record Select (DDS onl)	3R5	4	0	:	3,497,588:00:0
1206	96	179	06:07:48.266	428PA6A	6RCCLR			3R5	4	0	:	3,497,588:60:0
1207	96	179	06:07:48.933	428PA6B	6RCSET			3R5	4	0	:	3,497,588:61:0
1208	96	179	06:08:12.933	118IM	SMOS	GS		3R5	4	0	:	3,497,589:06:0



Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1209	96	179	06:08:31.600		DMS:	: *RUNDOWN	R7, TRACK 3, FWD, TIC *1452.08 +/-	3R5	4	0	3,497,589:34.0	
1210	96	179	06:08:31.600	175IH422A6A	6DMSC	R403.0	DMS Control Tape runup 403.2kb	3R5	4	0	3,497,589:34.0	
1211	96	179	06:08:33.000		DMS:	: *RUNUP	R403, TRACK 3, FWD, TIC *1452.14 +/-	3R5	4	0	3,497,589:36.1	
1212	96	179	06:08:33.600	165IM4C	7VECT		Inert vect update UTC	3R5	4	0	3,497,589:37.0	
1213	96	179	06:08:34.266	165IM4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	3R5	4	0	3,497,589:38.0	
1214	96	179	06:08:36.266	175IH176A6A	6TMREC	IM4	EN403.2 KBPS IMAGE RECORD Record Mode Chang	3R5	4	0	3,497,589:41.0	
1215	96	179	06:08:36.800		DMS:	: *RECORD	R403, TRACK 3, FWD, TIC *1474.84 +/- 1	3R5	4	0	3,497,589:41.8	
1216	96	179	06:08:36.933	118IM110A111A4A	7STRP	-0.007,0.0,26.0,	Slew =,3.01	3R5	4	0	3,497,589:42.0	
1217	96	179	06:08:36.970	G1GNURUSUL01*	NIMPBK	301DR	NIMS RIDE WITH SSION URU	3R5	4	0	:	:
1218	96	179	06:08:45.600	118IM110A111A4B	7STRP	0.0,-0.007001,0,	Slew =,7.01	3R5	4	0	3,497,589:55.0	
1219	96	179	06:08:54.266	118IM110A111A4C	7STRP	-0.007,0.0,26.0,	Slew =,3.01	3R5	4	0	3,497,589:68.0	
1220	96	179	06:09:02.933	165IN4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	3R5	4	0	3,497,589:81.0	
1221	96	179	06:09:02.933	118IM11A	SMOS	GE		3R5	4	0	3,497,589:81.0	
1222	96	179	06:09:03.600	165IN4B	7SCAN	OVER,260.121998,	Check S/P Position	3R5	4	0	3,497,589:82.0	
1223	96	179	06:09:04.933	127EJ	NIMSTAB	GS	%%%%GROUP START TAB	3R5	4	0	3,497,589:84.0	
1224	96	179	06:09:05.600	127EJ4A	37ETB	04,C4,0F,FF,FF	Loads wavelength edit table	3R5	4	0	3,497,589:85.0	
1225	96	179	06:09:09.637	G1GNURUSUL01*	DESEL	300DR	NIMS RIDE WITH SSION URU	3R5	4	0	:	:
1226	96	179	06:09:10.266	118IN	SMOS	GS		3R5	4	0	3,497,590:01.0	
1227	96	179	06:09:13.600	G1GNREGIO01*		-----START-----		3R5	4	0	:	:
1228	96	179	06:09:13.600	127EJ11A	NIMSTAB	GE	%%%%GROUP END TAB	3R5	4	0	3,497,590:06.0	
1229	96	179	06:09:13.600	G1GNURUSUL01*		-----STOP-----		3R5	4	0	:	:
1230	96	179	06:09:14.266	428PB6A	6RCCLR			3R5	4	0	3,497,590:07.0	
1231	96	179	06:09:14.933	428PB6B	6RCSET		11	3R5	4	0	3,497,590:08.0	
1232	96	179	06:09:16.303	G1GNREGIO01*	NIMPBK	301EJ	NIMS RIDE WITH SSION GALILEO RE	3R5	4	0	:	:
1233	96	179	06:09:16.933	165IN4C	7VECT		Inert vect update UTC	3R5	4	0	3,497,590:11.0	
1234	96	179	06:09:17.600	165IN4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	3R5	4	0	3,497,590:12.0	
1235	96	179	06:09:20.266	118IN110A111A4A	7STRP	0.007,0.0,26.0,0	Slew =,3.01	3R5	4	0	3,497,590:16.0	
1236	96	179	06:09:28.933	118IN110A111A4B	7STRP	0.0,0.007001,0,0	Slew =0.5.0	3R5	4	0	3,497,590:29.0	
1237	96	179	06:09:37.600	118IN110A111A4C	7STRP	0.007,0.0,26.0,0	Slew =,3.01	3R5	4	0	3,497,590:42.0	
1238	96	179	06:09:46.266	118IN11A	SMOS	GE		3R5	4	0	3,497,590:55.0	
1239	96	179	06:09:50.303	G1GNREGIO01*	DESEL	300EJ	NIMS RIDE WITH SSION GALILEO RE	3R5	4	0	:	:
1240	96	179	06:09:51.600	165CX4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	3R5	4	0	3,497,590:63.0	
1241	96	179	06:09:52.266	165CX4B	7SCAN	NORM,313.035,-38	Check S/P Position	3R5	4	0	3,497,590:64.0	
1242	96	179	06:09:52.933	175TB422A6A	6DMSC	R7.0	DMS Control Tape runup 7.68kps	3R5	4	0	3,497,590:65.0	
1243	96	179	06:09:52.933		DMS:	: *RUNUP	R403, TRACK 3, FWD, TIC *2411.63 +/- 1	3R5	4	0	3,497,590:65.0	
1244	96	179	06:09:56.066		DMS:	: *RECORD	R7, TRACK 3, FWD, TIC *2415.63 +/- 1	3R5	4	0	3,497,590:69.7	
1245	96	179	06:09:56.933	175TB176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	3R5	4	0	3,497,590:71.0	
1246	96	179	06:09:57.533		DMS:	: *RECORD	R7, TRACK 3, FWD, TIC *2415.75 +/- 1	3R5	4	0	3,497,590:71.9	
1247	96	179	06:10:14.267	G1GNREGIO01*		-----STOP-----		3R5	4	0	:	:
1248	96	179	06:15:12.933	428PC6A	6RCCLR			3R5	4	0	3,497,595:90.0	
1249	96	179	06:15:13.600	428PC6B	6RCSET		12	3R5	4	0	3,497,596:00.0	
1250	96	179	06:18:14.266	165IX4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	3R5	4	0	3,497,598:89.0	
1251	96	179	06:18:14.933	165IX4B	7SCAN	OVER,266.052998,	Check S/P Position	3R5	4	0	3,497,598:90.0	
1252	96	179	06:19:11.600	127FT	NIMSTAB	GS	%%%%GROUP START TAB	3R5	4	0	3,497,599:84.0	
1253	96	179	06:19:20.266	127FT4A	37ETB	04,C4,0F,FF,FF	Loads wavelength edit table	3R5	4	0	3,497,599:85.0	
1254	96	179	06:19:20.266	127FT11A	NIMSTAB	GE	%%%%GROUP END TAB	3R5	4	0	3,497,600:06.0	
1255	96	179	06:19:20.267	G1GNMEMPHI01*		-----START-----		3R5	4	0	:	:
1256	96	179	06:20:08.933	118IX	SMOS	GS		3R5	4	0	3,497,600:79.0	
1257	96	179	06:20:12.266	175IH422A6A	6DMSC	R115.0	DMS Control Tape runup 115.2kb	3R5	4	0	3,497,600:84.0	
1258	96	179	06:20:12.266		DMS:	: *RUNDOWN	R7, TRACK 3, FWD, TIC *2559.83 +/- 1	3R5	4	0	3,497,600:84.0	
1259	96	179	06:20:13.666		DMS:	: *RUNUP	R115, TRACK 3, FWD, TIC *2559.89 +/- 1	3R5	4	0	3,497,600:86.1	
1260	96	179	06:20:15.600	165IX4C	7VECT		Inert vect update UTC	3R5	4	0	3,497,600:89.0	
1261	96	179	06:20:16.266	165IX4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	3R5	4	0	3,497,600:90.0	
1262	96	179	06:20:17.600	175IH176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	3R5	4	0	3,497,601:01.0	
1263	96	179	06:20:17.666		DMS:	: *RECORD	R115, TRACK 3, FWD, TIC *2566.16 +/- 1	3R5	4	0	3,497,601:01.1	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1264	96	179	06:20:18.933	118IX110A111A4A	7STRP	0.00575,-0.001,4	Slew =,3.01	3R5	4	0	3,497,601:03:0	
1265	96	179	06:20:20.970	G1GNMEMPHI01*	NIMPBK	301FT	NIMS RIDE WITH SSION MEMPHIS	3R5	4	0	:	
1266	96	179	06:21:05.637	G1GNMEMPHI01*	DESEL	300FT	NIMS RIDE WITH SSION MEMPHIS	3R5	4	0	:	
1267	96	179	06:21:12.933	127DU4A	37IOP	7,1	Fixed Map, Grating Start Position =01	3R7	4	1	3,497,601:84:0	
1268	96	179	06:21:12.933	127DU4A	NIMSTAB	GS	%%%%GROUP START TAB	3R7	4	1	3,497,601:84:0	
1269	96	179	06:21:13.600	127DU4B	37ETB	04,C4,1B,FF,FF	Loads wavelength edit table	3R7	4	1	3,497,601:85:0	
1270	96	179	06:21:16.933	428PD6A	6RCCLR			3R7	4	1	3,497,601:90:0	
1271	96	179	06:21:17.600	428PD6B	6RCSET		8	3R7	4	1	3,497,602:00:0	
1272	96	179	06:21:21.600	127DU11A	NIMSTAB	GE	%%%%GROUP END TAB	3R7	4	1	3,497,602:06:0	
1273	96	179	06:21:35.600	118IX110A111B4A	7STRP	0.0065,-0.00375,	Slew =,3.01	3R7	4	1	3,497,602:27:0	
1274	96	179	06:21:50.933	118IX110A111B4B	7STRP	0.00575,-0.001,4	Slew =,3.01	3R7	4	1	3,497,602:50:0	
1275	96	179	06:22:06.266	118IX11A	SMOS	GE		3R7	4	1	3,497,602:73:0	
1276	96	179	06:22:13.600	125DU	NIMSINIT	GS	##### GROUP START INIT	3R7	4	1	3,497,602:84:0	
1277	96	179	06:22:13.600	125DU4A	37IST	1,2,0,OFF,0,1,1	Chopper ON, Sync, Chopper (Ref)Gain State	4R7	4	1	3,497,602:84:0	
1278	96	179	06:22:18.266	175TC422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R7	4	1	3,497,603:00:0	
1279	96	179	06:22:18.266		DMS:	:*RUNDOWN	R115, TRACK 3, FWD, TIC *2990.15 +/- 1	4R7	4	1	3,497,603:00:0	
1280	96	179	06:22:19.666		DMS:	:*RUNUP	R7, TRACK 3, FWD, TIC *2991.06 +/- 1	4R7	4	1	3,497,603:02:1	
1281	96	179	06:22:20.933	175TC176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	4R7	4	1	3,497,603:04:0	
1282	96	179	06:22:21.133		DMS:	:*RECORD	R7, TRACK 3, FWD, TIC *2991.18 +/- 1	4R7	4	1	3,497,603:04:3	
1283	96	179	06:22:21.600	165CY4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R7	4	1	3,497,603:05:0	
1284	96	179	06:22:22.266	165CY4B	7SCAN	NORM,29.117,-32.	Check S/P Position	4R7	4	1	3,497,603:06:0	
1285	96	179	06:22:22.267	G1GNLMBSC02*		-----START-----		4R7	4	1	:	
1286	96	179	06:22:22.267	G1GNMEMPHI01*		-----STOP-----		4R7	4	1	:	
1287	96	179	06:23:14.266	125DU11A	NIMSINIT	GE	##### GROUP END INIT	4R7	4	1	3,497,603:84:0	
1288	96	179	06:23:14.266	125DU4B	37MPT	1,1,1	Modify Parameter Table (affects scanning m	4R7	4	1	3,497,603:84:0	
1289	96	179	06:23:18.266	428PE6A	6RCCLR			4R7	4	1	3,497,603:90:0	
1290	96	179	06:23:18.933	428PE6B	6RCSET		12	4R7	4	1	3,497,604:00:0	
1291	96	179	06:24:03.600	488AP6B	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4R7	4	1	3,497,604:67:0	
1292	96	179	06:24:13.600		DMS:	:*RUNDOWN	R7, TRACK 3, FWD, TIC *3017.54 +/- 1	4R7	4	1	3,497,604:82:0	
1293	96	179	06:24:13.600	175CA422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	4R7	4	1	3,497,604:82:0	
1294	96	179	06:24:15.000		DMS:	:*RUNUP	R28, TRACK 3, FWD, TIC *3017.60 +/- 1	4R7	4	1	3,497,604:84:1	
1295	96	179	06:24:18.933	175CA176A6A	6TMREC	MPW	28.8 KBPS PWS + NIMS RECORD Record Mode C	4R7	4	1	3,497,604:90:0	
1296	96	179	06:24:19.000		DMS:	:*RECORD	R28, TRACK 3, FWD, TIC *3019.10 +/- 1	4R7	4	1	3,497,604:90:1	
1297	96	179	06:24:19.637	G1GNLMBSC02*	NIMPBK	301DU	LIMB SCAN FOR ATMOSPHERE	4R7	4	1	:	
1298	96	179	06:25:49.600	428PF6A	6RCCLR			4R7	4	1	3,497,606:44:0	
1299	96	179	06:25:50.266	428PF6B	6RCSET		8	4R7	4	1	3,497,606:45:0	
1300	96	179	06:27:20.266	165IP4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R7	4	1	3,497,607:89:0	
1301	96	179	06:27:20.933	165IP4B	7SCAN	NORM,9.929,-34.2	Check S/P Position	4R7	4	1	3,497,607:90:0	
1302	96	179	06:27:21.600		DMS:	:*RUNDOWN	R28, TRACK 3, FWD, TIC *3179.59 +/- 1	4R7	4	1	3,497,608:00:0	
1303	96	179	06:27:21.600	175TD422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R7	4	1	3,497,608:00:0	
1304	96	179	06:27:23.000		DMS:	:*RUNUP	R7, TRACK 3, FWD, TIC *3179.81 +/- 1	4R7	4	1	3,497,608:02:1	
1305	96	179	06:27:24.266	175TD176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	4R7	4	1	3,497,608:04:0	
1306	96	179	06:27:24.466		DMS:	:*RECORD	R7, TRACK 3, FWD, TIC *3179.93 +/- 1	4R7	4	1	3,497,608:04:3	
1307	96	179	06:27:24.970	G1GNLMBSC02*	DESEL	300DU	LIMB SCAN FOR ATMOSPHERE	4R7	4	1	:	
1308	96	179	06:27:25.600	G1GNLMBSC02*		-----STOP-----		4R7	4	1	:	
1309	96	179	06:29:23.600	428PG6A	6RCCLR			4R7	4	1	3,497,610:01:0	
1310	96	179	06:29:24.266	428PG6B	6RCSET		12	4R7	4	1	3,497,610:02:0	
1311	96	179	06:30:00.266	488AP6C	6TMSED	FILL,BL3	Sci, Eng, and D/L Chan	4R7	4	1	3,497,610:56:0	
1312	96	179	06:31:16.266		SMOS	GS		4R7	4	1	3,497,611:79:0	
1313	96	179	06:31:16.266	488AP6D	6TMSED	NORM,BL3	Sci, Eng, and D/L Chan	4R7	4	1	3,497,611:79:0	
1314	96	179	06:31:20.933		DMS:	:*RUNDOWN	R7, TRACK 3, FWD, TIC *3235.35 +/- 1	4R7	4	1	3,497,611:86:0	
1315	96	179	06:31:20.933	175U422A6A	6DMSC	R403,0	DMS Control Tape runup 403.2kb	4R7	4	1	3,497,611:86:0	
1316	96	179	06:31:22.333		DMS:	:*RUNUP	R403, TRACK 3, FWD, TIC *3235.41 +/- 1	4R7	4	1	3,497,611:88:1	
1317	96	179	06:31:22.933	165IP4C	7VECT		Inert vect update UTC	4R7	4	1	3,497,611:89:0	
1318	96	179	06:31:23.600	165IP4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	4R7	4	1	3,497,611:90:0	



Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1319	96	179	06:31:25.600	175U176A6A	6TMREC	IM4	403.2 KBPS IMAGE RECORD Record Mode Chang	4R7	4	1	3,497,612:02.0	
1320	96	179	06:31:26.133		DMS:	: *RECORD	R403, TRACK 3, FWD, TIC *3258.11 +/- 1	4R7	4	1	3,497,612:02.8	
1321	96	179	06:31:26.266	118IP110A111A4A	7STRP	0.007,0.0,26,0.0	Slew =,3.01	4R7	4	1	3,497,612:03.0	
1322	96	179	06:31:43.600	428PH6A	6RCCLR			4R7	4	1	3,497,612:29.0	
1323	96	179	06:31:44.266	428PH6B	6RCSET			4R7	4	1	3,497,612:30.0	
1324	96	179	06:31:52.266	118IP11A	SMOS	GE		4R7	4	1	3,497,612:42.0	
1325	96	179	06:31:58.933	175TE422A6A	6DMSC	R7.0	DMS Control Tape runup 7.68kps	4R7	4	1	3,497,612:52.0	
1326	96	179	06:31:58.933		DMS:	: *RUNDOWN	R403, TRACK 3, FWD, TIC *3661.71 +/- 1	4R7	4	1	3,497,612:52.0	
1327	96	179	06:32:02.066		DMS:	: *RUNUP	R7, TRACK 3, FWD, TIC *3665.71 +/- 1	4R7	4	1	3,497,612:56.7	
1328	96	179	06:32:02.933	175TE176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	4R7	4	1	3,497,612:58.9	
1329	96	179	06:32:03.533		DMS:	: *RECORD	R7, TRACK 3, FWD, TIC *3665.83 +/- 1	4R7	4	1	3,497,612:58.9	
1330	96	179	06:32:23.600	165CZ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R7	4	1	3,497,612:89.0	
1331	96	179	06:32:24.266	165CZ4B	7SCAN	NORM:359.752998,	Check S/P Position	4R7	4	1	3,497,612:90.0	
1332	96	179	06:39:29.600	428PI6A	6RCCLR			4R7	4	1	3,497,620:00.0	
1333	96	179	06:42:30.266	165HE4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R7	4	1	3,497,622:89.0	
1334	96	179	06:42:30.933	165HE4B	7SCAN	NORM:48.58,-2.97	Check S/P Position	4R7	4	1	3,497,622:90.0	
1335	96	179	06:43:30.266	117HE	CSMOS	GS	***** GROUP START CSMOS	4R7	4	1	3,497,623:88.0	
1336	96	179	06:43:38.266	165HE4C	7VECT		Inert vect update UTC	4R7	4	1	3,497,624:09.0	
1337	96	179	06:43:38.933	165HE4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	4R7	4	1	3,497,624:10.0	
1338	96	179	06:43:39.600	117HE105A106A4A	7STRP	0.034013,0.0,0.0	Slew =,1.76	4R7	4	1	3,497,624:11.0	
1339	96	179	06:44:02.933	117HE105A106A4B	7STRP	-0.034263,0.0016	Slew =12.01	4R7	4	1	3,497,624:46.0	
1340	96	179	06:44:08.933	117HE105A106A4C	7STRP	0.034013,0.0,0.0	Slew =,1.76	4R7	4	1	3,497,624:55.0	
1341	96	179	06:44:32.266	117HE105A106A4D	7STRP	-0.034263,0.0016	Slew =12.01	4R7	4	1	3,497,624:90.0	
1342	96	179	06:44:38.266	117HE105A106A4E	7STRP	0.034013,0.0,0.0	Slew =,1.76	4R7	4	1	3,497,625:08.0	
1343	96	179	06:45:01.600	117HE105A106A4F	7STRP	-0.034263,0.0016	Slew =12.01	4R7	4	1	3,497,625:43.0	
1344	96	179	06:45:07.600	117HE105A106A4G	7STRP	0.034013,0.0,0.0	Slew =,1.76	4R7	4	1	3,497,625:52.0	
1345	96	179	06:45:30.933	117HE105A106A4H	7STRP	-0.034263,0.0016	Slew =12.01	4R7	4	1	3,497,625:87.0	
1346	96	179	06:45:36.933	117HE105A106A4I	7STRP	0.034013,0.0,0.0	Slew =,1.76	4R7	4	1	3,497,626:05.0	
1347	96	179	06:46:00.266	117HE105A106A4J	7STRP	-0.034263,0.0016	Slew =12.01	4R7	4	1	3,497,626:40.0	
1348	96	179	06:46:06.266	117HE105A106A4K	7STRP	0.034013,0.0,0.0	Slew =,1.76	4R7	4	1	3,497,626:49.0	
1349	96	179	06:46:29.600	117HE105A106A4L	7STRP	-0.034263,0.0016	Slew =12.01	4R7	4	1	3,497,626:84.0	
1350	96	179	06:46:35.600	117HE105A106A4M	7STRP	0.034013,0.0,0.0	Slew =,1.76	4R7	4	1	3,497,627:02.0	
1351	96	179	06:46:58.933	117HE105A106A4N	7STRP	-0.034263,0.0016	Slew =12.01	4R7	4	1	3,497,627:37.0	
1352	96	179	06:47:04.933	117HE105A106A4O	7STRP	0.034013,0.0,0.0	Slew =,1.76	4R7	4	1	3,497,627:46.0	
1353	96	179	06:47:28.266	117HE105A106A4P	7STRP	-0.034263,0.0016	Slew =12.01	4R7	4	1	3,497,627:81.0	
1354	96	179	06:47:34.266	117HE105A106A4Q	7STRP	0.034013,0.0,0.0	Slew =,1.76	4R7	4	1	3,497,627:90.0	
1355	96	179	06:47:57.600	117HE105A106A4R	7STRP	-0.034263,0.0016	Slew =12.01	4R7	4	1	3,497,628:34.0	
1356	96	179	06:48:03.600	117HE105A106A4S	7STRP	0.034013,0.0,0.0	Slew =,1.76	4R7	4	1	3,497,628:43.0	
1357	96	179	06:48:26.933	117HE105A106B4A	7STRP	-0.030009,0.0016	Slew =12.01	4R7	4	1	3,497,628:78.0	
1358	96	179	06:48:32.933	117HE105A106B4B	7STRP	0.029659,0.0,0.0	Slew =,1.76	4R7	4	1	3,497,628:87.0	
1359	96	179	06:48:53.600	117HE105A106B4C	7STRP	-0.030009,0.0016	Slew =12.01	4R7	4	1	3,497,629:27.0	
1360	96	179	06:48:59.600	117HE105A106B4D	7STRP	0.029659,0.0,0.0	Slew =,1.76	4R7	4	1	3,497,629:36.0	
1361	96	179	06:49:20.266	117HE105A106B4E	7STRP	-0.030009,0.0016	Slew =12.01	4R7	4	1	3,497,629:67.0	
1362	96	179	06:49:26.266	117HE105A106B4F	7STRP	0.029659,0.0,0.0	Slew =,1.76	4R7	4	1	3,497,629:76.0	
1363	96	179	06:49:46.933	117HE105A106B4G	7STRP	-0.030009,0.0016	Slew =12.01	4R7	4	1	3,497,630:16.0	
1364	96	179	06:49:52.933	117HE105A106B4H	7STRP	0.029659,0.0,0.0	Slew =,1.76	4R7	4	1	3,497,630:25.0	
1365	96	179	06:50:13.600	117HE105A106B4I	7STRP	-0.030009,0.0016	Slew =12.01	4R7	4	1	3,497,630:56.0	
1366	96	179	06:50:19.600	117HE105A106B4J	7STRP	0.029659,0.0,0.0	Slew =,1.76	4R7	4	1	3,497,630:65.0	
1367	96	179	06:50:40.266	117HE105A106B4K	7STRP	-0.030009,0.0016	Slew =12.01	4R7	4	1	3,497,631:05.0	
1368	96	179	06:50:46.266	117HE105A106B4L	7STRP	0.029659,0.0,0.0	Slew =,1.76	4R7	4	1	3,497,631:14.0	
1369	96	179	06:51:06.933	117HE105A106B4M	7STRP	-0.030009,0.0016	Slew =12.01	4R7	4	1	3,497,631:45.0	
1370	96	179	06:51:12.933	117HE105A106B4N	7STRP	0.029659,0.0,0.0	Slew =,1.76	4R7	4	1	3,497,631:54.0	
1371	96	179	06:51:33.600	117HE11A	CSMOS	GE	***** GROUP END CSMOS	4R7	4	1	3,497,631:85.0	
1372	96	179	06:52:36.266	432JB431A6A	6RCDSL	DDSDSL,PLSNCG,EP	Record Deselect (DDS o	4R7	4	1	3,497,632:88.0	
1373	96	179	06:52:36.933	432JB6A	6RTSL1		R/T Select of DDS and	4R7	4	1	3,497,632:89.0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1374	96	179	06:52:38.266	432JC431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	4R7	4	1	3,497,633:00:0	
1375	96	179	06:52:38.933	432JC6A	6RTSL1		R/T Select of DDS and	4R7	4	1	3,497,633:01:0	
1376	96	179	06:52:40.266		DMS:	: *RUNDOWN	R7, TRACK 3, FWD, TIC *3955.69 +/- 1	4R7	4	1	3,497,633:03:0	
1377	96	179	06:52:40.266	175TE422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R7	4	1	3,497,633:03:0	
1378	96	179	06:52:41.666		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *3955.75 +/- 1	4R7	4	1	3,497,633:05:1	
1379	96	179	06:54:18.266	432NA431A6A	6RCDSL	DDSNCG,PLSDSL,EP	Record Deselect (DDS o	4R7	4	1	3,497,634:59:0	
1380	96	179	06:54:18.933	432NA6A	6RTSL1		R/T Select of DDS and	4R7	4	1	3,497,634:60:0	
1381	96	179	07:41:08.933	165GF4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R7	4	1	3,497,680:89:0	
1382	96	179	07:41:09.600	165GF4B	7SCAN	NORM,70.122,18.5	Check S/P Position	4R7	4	1	3,497,680:90:0	
1383	96	179	07:45:03.600	117GF	CSMOS	GS	**** GROUP START CSMOS	4R7	4	1	3,497,684:77:0	
1384	96	179	07:45:12.933	117GF105A106A4A	7STRP	0.015001,0.0,0.0	Slew =,0.41	4R7	4	1	3,497,685:00:0	
1385	96	179	07:45:12.933	176GF6A	6TMREC	BPT	7.68 KBPS PPR BURST TO TAPE Record Mode C	4R7	4	1	3,497,685:00:0	
1386	96	179	07:45:52.933	117GF105A106A4B	7STRP	-0.014851,0.0012	Slew =,8.01	4R7	4	1	3,497,685:60:0	
1387	96	179	07:45:58.933	117GF105A106A4C	7STRP	0.015001,0.0,0.0	Slew =,0.41	4R7	4	1	3,497,685:69:0	
1388	96	179	07:46:38.933	117GF105A106A4D	7STRP	-0.014851,0.0012	Slew =,8.01	4R7	4	1	3,497,686:38:0	
1389	96	179	07:46:44.933	117GF105A106A4E	7STRP	0.015001,0.0,0.0	Slew =,0.41	4R7	4	1	3,497,686:47:0	
1390	96	179	07:47:24.933	117GF105A106A4F	7STRP	-0.014851,0.0012	Slew =,8.01	4R7	4	1	3,497,687:16:0	
1391	96	179	07:47:30.933	117GF105A106A4G	7STRP	0.015001,0.0,0.0	Slew =,0.41	4R7	4	1	3,497,687:25:0	
1392	96	179	07:48:10.933	117GF105A106A4H	7STRP	-0.014851,0.0012	Slew =,8.01	4R7	4	1	3,497,687:85:0	
1393	96	179	07:48:16.933	117GF105A106A4I	7STRP	0.015001,0.0,0.0	Slew =,0.41	4R7	4	1	3,497,688:03:0	
1394	96	179	07:48:56.933	117GF105A106A4J	7STRP	-0.014851,0.0012	Slew =,8.01	4R7	4	1	3,497,688:63:0	
1395	96	179	07:49:02.933	117GF105A106A4K	7STRP	0.015001,0.0,0.0	Slew =,0.41	4R7	4	1	3,497,688:72:0	
1396	96	179	07:49:42.933	117GF105A106A4L	7STRP	-0.014851,0.0012	Slew =,8.01	4R7	4	1	3,497,689:41:0	
1397	96	179	07:49:48.933	117GF105A106A4M	7STRP	0.015001,0.0,0.0	Slew =,0.41	4R7	4	1	3,497,689:50:0	
1398	96	179	07:50:28.933	117GF105A106A4N	7STRP	-0.014851,0.0012	Slew =,8.01	4R7	4	1	3,497,690:19:0	
1399	96	179	07:50:34.933	117GF105A106A4O	7STRP	0.015001,0.0,0.0	Slew =,0.41	4R7	4	1	3,497,690:28:0	
1400	96	179	07:51:14.933	117GF105A106A4P	7STRP	-0.014851,0.0012	Slew =,8.01	4R7	4	1	3,497,690:88:0	
1401	96	179	07:51:20.933	117GF105A106A4Q	7STRP	0.015001,0.0,0.0	Slew =,0.41	4R7	4	1	3,497,691:06:0	
1402	96	179	07:52:00.933	117GF105A106A4R	7STRP	-0.014851,0.0012	Slew =,8.01	4R7	4	1	3,497,691:66:0	
1403	96	179	07:52:06.933	117GF105A106A4S	7STRP	0.015001,0.0,0.0	Slew =,0.41	4R7	4	1	3,497,691:75:0	
1404	96	179	07:52:46.933	117GF105A106A4T	7STRP	-0.014851,0.0012	Slew =,8.01	4R7	4	1	3,497,692:44:0	
1405	96	179	07:52:52.933	117GF105A106A4U	7STRP	0.015001,0.0,0.0	Slew =,0.41	4R7	4	1	3,497,692:53:0	
1406	96	179	07:53:32.933	117GF105A106A4V	7STRP	-0.014851,0.0012	Slew =,8.01	4R7	4	1	3,497,693:22:0	
1407	96	179	07:53:38.933	117GF105A106A4W	7STRP	0.015001,0.0,0.0	Slew =,0.41	4R7	4	1	3,497,693:31:0	
1408	96	179	07:54:18.933	117GF105A106A4X	7STRP	-0.014851,0.0012	Slew =,8.01	4R7	4	1	3,497,694:00:0	
1409	96	179	07:54:24.933	117GF105A106A4Y	7STRP	0.015001,0.0,0.0	Slew =,0.41	4R7	4	1	3,497,694:09:0	
1410	96	179	07:55:04.933	117GF105A106A4Z	7STRP	-0.014851,0.0012	Slew =,8.01	4R7	4	1	3,497,694:69:0	
1411	96	179	07:55:10.933	117GF105A106A4AA	7STRP	0.015001,0.0,0.0	Slew =,0.41	4R7	4	1	3,497,694:78:0	
1412	96	179	07:55:50.933	117GF105A106A4AB	7STRP	-0.014851,0.0012	Slew =,8.01	4R7	4	1	3,497,695:47:0	
1413	96	179	07:55:56.933	117GF105A106A4AC	7STRP	0.015001,0.0,0.0	Slew =,0.41	4R7	4	1	3,497,695:56:0	
1414	96	179	07:56:36.933	117GF105A106A4AD	7STRP	-0.014851,0.0012	Slew =,8.01	4R7	4	1	3,497,696:25:0	
1415	96	179	07:56:42.933	117GF105A106A4AE	7STRP	0.015001,0.0,0.0	Slew =,0.41	4R7	4	1	3,497,696:34:0	
1416	96	179	07:57:22.933	117GF105A106A4AF	7STRP	-0.014851,0.0012	Slew =,8.01	4R7	4	1	3,497,697:03:0	
1417	96	179	07:57:28.933	117GF105A106A4AG	7STRP	0.015001,0.0,0.0	Slew =,0.41	4R7	4	1	3,497,697:12:0	
1418	96	179	07:57:55.600	488AP6E	6TMSED	NORM,IBL2	Sci, Eng, and D/L Chan	4R7	4	1	3,497,697:52:0	
1419	96	179	07:58:08.933	117GF105A106A4AH	7STRP	-0.014851,0.0012	Slew =,8.01	4R7	4	1	3,497,697:72:0	
1420	96	179	07:58:14.933	117GF105A106A4AI	7STRP	0.015001,0.0,0.0	Slew =,0.41	4R7	4	1	3,497,697:81:0	
1421	96	179	07:58:54.933	117GF105A106A4AJ	7STRP	-0.014851,0.0012	Slew =,8.01	4R7	4	1	3,497,698:50:0	
1422	96	179	07:59:00.933	117GF105A106A4AK	7STRP	0.015001,0.0,0.0	Slew =,0.41	4R7	4	1	3,497,698:59:0	
1423	96	179	07:59:27.600	DMS:	: *US-RUNUP	R7, TRACK 3, FWD, TIC 3955.75 +/- 1	Record Mode C	4R7	4	1	3,497,699:08:0	
1424	96	179	07:59:27.600	50ZZ6XX	6DMSC	BPT	DMS Control Tape runup 7.68kps	4R7	4	1	3,497,699:08:0	
1425	96	179	07:59:35.800	DMS:	: *RECORD	R7, TRACK 3, FWD, TIC *3957.44 +/- 1	Record Mode C	4R7	4	1	3,497,699:20:3	
1426	96	179	07:59:40.933	117GF105A106A4AL	7STRP	-0.014851,0.0012	Slew =,8.01	4R7	4	1	3,497,699:28:0	
1427	96	179	07:59:46.933	117GF105A106A4AM	7STRP	0.015001,0.0,0.0	Slew =,0.41	4R7	4	1	3,497,699:37:0	
1428	96	179	07:59:56.266	DMS:	: *RUNDOWN	R7, TRACK 3, FWD, TIC *3962.24 +/- 1	Record Mode C	4R7	4	1	3,497,699:51:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1429	96	179	07:59:56.266	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	4R7	4	1	3,497,699:51.0	
1430	96	179	07:59:57.666		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *3962.30 +/- 1	4R7	4	1	3,497,699:51.1	
1431	96	179	08:00:28.933	117GF105A106A4AN	7STRP	-0.014851,0.0012	Slew = -8.01	4R7	4	1	3,497,700:06.0	
1432	96	179	08:00:32.933	117GF105A106A4AO	7STRP	0.015001,0.0000	Slew = 0.41	4R7	4	1	3,497,700:15.0	
1433	96	179	08:01:12.933	117GF105A106A4AP	7STRP	-0.014851,0.0012	Slew = -8.01	4R7	4	1	3,497,700:75.0	
1434	96	179	08:01:18.933	117GF105A106A4AQ	7STRP	0.015001,0.0000	Slew = 0.41	4R7	4	1	3,497,700:84.0	
1435	96	179	08:01:58.933	117GF105A106A4AR	7STRP	-0.014851,0.0012	Slew = -8.01	4R7	4	1	3,497,701:53.0	
1436	96	179	08:02:04.933	117GF105A106A4AS	7STRP	0.015001,0.0000	Slew = 0.41	4R7	4	1	3,497,701:62.0	
1437	96	179	08:02:44.933	117GF105A106A4AT	7STRP	-0.014851,0.0012	Slew = -8.01	4R7	4	1	3,497,702:31.0	
1438	96	179	08:02:50.933	117GF105A106A4AU	7STRP	0.015001,0.0000	Slew = 0.41	4R7	4	1	3,497,702:40.0	
1439	96	179	08:03:30.933	117GF105A106A4AV	7STRP	-0.014851,0.0012	Slew = -8.01	4R7	4	1	3,497,703:09.0	
1440	96	179	08:03:36.933	117GF105A106A4AW	7STRP	0.015001,0.0000	Slew = 0.41	4R7	4	1	3,497,703:18.0	
1441	96	179	08:04:16.933	117GF105A106A4AX	7STRP	-0.014851,0.0012	Slew = -8.01	4R7	4	1	3,497,703:78.0	
1442	96	179	08:04:22.933	117GF105A106A4AY	7STRP	0.015001,0.0000	Slew = 0.41	4R7	4	1	3,497,703:87.0	
1443	96	179	08:05:02.933	117GF105A106A4AZ	7STRP	-0.014851,0.0012	Slew = -8.01	4R7	4	1	3,497,704:56.0	
1444	96	179	08:05:08.933	117GF105A106A4BA	7STRP	0.015001,0.0000	Slew = 0.41	4R7	4	1	3,497,704:65.0	
1445	96	179	08:05:48.933	117GF105A106A4BB	7STRP	-0.014851,0.0012	Slew = -8.01	4R7	4	1	3,497,705:34.0	
1446	96	179	08:05:54.933	117GF105A106A4BC	7STRP	0.015001,0.0000	Slew = 0.41	4R7	4	1	3,497,705:43.0	
1447	96	179	08:06:34.933	117GF105A106A4BD	7STRP	-0.014851,0.0012	Slew = -8.01	4R7	4	1	3,497,706:12.0	
1448	96	179	08:06:40.933	117GF105A106A4BE	7STRP	0.015001,0.0000	Slew = 0.41	4R7	4	1	3,497,706:21.0	
1449	96	179	08:07:20.933	117GF105A106A4BF	7STRP	-0.014851,0.0012	Slew = -8.01	4R7	4	1	3,497,706:81.0	
1450	96	179	08:07:26.933	117GF105A106A4BG	7STRP	0.015001,0.0000	Slew = 0.41	4R7	4	1	3,497,706:90.0	
1451	96	179	08:08:06.933	117GF105A106A4BH	7STRP	-0.014851,0.0012	Slew = -8.01	4R7	4	1	3,497,707:59.0	
1452	96	179	08:08:12.933	117GF105A106A4BI	7STRP	0.015001,0.0000	Slew = 0.41	4R7	4	1	3,497,707:68.0	
1453	96	179	08:08:52.933	117GF105A106A4BJ	7STRP	-0.014851,0.0012	Slew = -8.01	4R7	4	1	3,497,708:37.0	
1454	96	179	08:08:58.933	117GF105A106A4BK	7STRP	0.015001,0.0000	Slew = 0.41	4R7	4	1	3,497,708:46.0	
1455	96	179	08:09:38.933	117GF105A106A4BL	7STRP	-0.014851,0.0012	Slew = -8.01	4R7	4	1	3,497,709:15.0	
1456	96	179	08:09:44.933	117GF105A106A4BM	7STRP	0.015001,0.0000	Slew = 0.41	4R7	4	1	3,497,709:24.0	
1457	96	179	08:10:24.933	117GF105A106A4BN	7STRP	-0.014851,0.0012	Slew = -8.01	4R7	4	1	3,497,709:84.0	
1458	96	179	08:10:30.933	117GF105A106A4BO	7STRP	0.015001,0.0000	Slew = 0.41	4R7	4	1	3,497,710:02.0	
1459	96	179	08:11:10.933	117GF105A106A4BP	7STRP	-0.014851,0.0012	Slew = -8.01	4R7	4	1	3,497,710:62.0	
1460	96	179	08:11:16.933	117GF105A106A4BQ	7STRP	0.015001,0.0000	Slew = 0.41	4R7	4	1	3,497,710:71.0	
1461	96	179	08:11:56.933	117GF105A106B4A	7STRP	-0.015201,0.0012	Slew = -8.01	4R7	4	1	3,497,711:40.0	
1462	96	179	08:12:02.933	117GF105A106B4B	7STRP	0.015001,0.0000	Slew = 0.41	4R7	4	1	3,497,711:49.0	
1463	96	179	08:12:42.933	117GF105A106B4C	7STRP	-0.015201,0.0012	Slew = -8.01	4R7	4	1	3,497,712:18.0	
1464	96	179	08:12:48.933	117GF105A106B4D	7STRP	0.015001,0.0000	Slew = 0.41	4R7	4	1	3,497,712:27.0	
1465	96	179	08:13:28.933	117GF105A106B4E	7STRP	-0.015201,0.0012	Slew = -8.01	4R7	4	1	3,497,712:87.0	
1466	96	179	08:13:34.933	117GF105A106B4F	7STRP	0.015001,0.0000	Slew = 0.41	4R7	4	1	3,497,713:05.0	
1467	96	179	08:13:52.266	50ZZ6XX	6DMSC	RDY,0	DMS Control Tape runup 7.68kps	4R7	4	1	3,497,713:31.0	
1468	96	179	08:13:52.266		DMS:	: *US-RUNUP	RDY, TRACK 3, FWD, TIC 3962.30 +/- 1	4R7	4	1	3,497,713:31.0	
1469	96	179	08:14:00.466		DMS:	: *RECORD	RDY, TRACK 3, FWD, TIC *3964.00 +/- 1	4R7	4	1	3,497,713:43.3	
1470	96	179	08:14:14.933	117GF105A106B4G	7STRP	-0.015201,0.0012	Slew = -8.01	4R7	4	1	3,497,713:65.0	
1471	96	179	08:14:20.933	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	4R7	4	1	3,497,713:74.0	
1472	96	179	08:14:20.933	117GF105A106B4H	7STRP	0.015001,0.0000	Slew = 0.41	4R7	4	1	3,497,713:74.0	
1473	96	179	08:14:20.933		DMS:	: *RUNDOWN	RDY, TRACK 3, FWD, TIC *3968.79 +/- 1	4R7	4	1	3,497,713:74.0	
1474	96	179	08:14:22.933		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *3968.85 +/- 1	4R7	4	1	3,497,713:76.1	
1475	96	179	08:15:00.933	117GF105A106B4I	7STRP	-0.015201,0.0012	Slew = -8.01	4R7	4	1	3,497,714:43.0	
1476	96	179	08:15:06.933	117GF105A106B4J	7STRP	0.015001,0.0000	Slew = 0.41	4R7	4	1	3,497,714:52.0	
1477	96	179	08:15:46.933	117GF105A106B4K	7STRP	-0.015201,0.0012	Slew = -8.01	4R7	4	1	3,497,715:21.0	
1478	96	179	08:15:52.933	117GF105A106B4L	7STRP	0.015001,0.0000	Slew = 0.41	4R7	4	1	3,497,715:30.0	
1479	96	179	08:16:32.933	117GF105A106B4M	7STRP	-0.015201,0.0012	Slew = -8.01	4R7	4	1	3,497,715:90.0	
1480	96	179	08:16:38.933	117GF105A106B4N	7STRP	0.015001,0.0000	Slew = 0.41	4R7	4	1	3,497,716:08.0	
1481	96	179	08:17:18.933	117GF105A106B4O	7STRP	-0.015201,0.0012	Slew = -8.01	4R7	4	1	3,497,716:68.0	
1482	96	179	08:17:24.933	117GF105A106B4P	7STRP	0.015001,0.0000	Slew = 0.41	4R7	4	1	3,497,716:77.0	
1483	96	179	08:18:04.933	117GF105A106B4Q	7STRP	-0.015201,0.0012	Slew = -8.01	4R7	4	1	3,497,717:46.0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1484	96	179	08:18:10.933	117GF105A106B4R	7STRP	0.015001,0.0,0.0	Slew =,0.41	4R7	4	1	3,497,717:55.0	
1485	96	179	08:18:50.933	117GF105A106B4S	7STRP	-0.015201,0.0012	Slew =,8.01	4R7	4	1	3,497,718:24.0	
1486	96	179	08:18:56.933	117GF105A106B4T	7STRP	0.015001,0.0,0.0	Slew =,0.41	4R7	4	1	3,497,718:33.0	
1487	96	179	08:19:36.933	117GF105A106B4U	7STRP	-0.015201,0.0012	Slew =,8.01	4R7	4	1	3,497,719:02.0	
1488	96	179	08:19:42.933	117GF105A106B4V	7STRP	0.015001,0.0,0.0	Slew =,0.41	4R7	4	1	3,497,719:11.0	
1489	96	179	08:20:22.933	117GF105A106B4W	7STRP	-0.015201,0.0012	Slew =,8.01	4R7	4	1	3,497,719:71.0	
1490	96	179	08:20:28.933	117GF105A106B4X	7STRP	0.015001,0.0,0.0	Slew =,0.41	4R7	4	1	3,497,719:80.0	
1491	96	179	08:21:08.933	117GF105A106B4Y	7STRP	-0.015201,0.0012	Slew =,8.01	4R7	4	1	3,497,720:49.0	
1492	96	179	08:21:14.933	117GF105A106B4Z	7STRP	0.015001,0.0,0.0	Slew =,0.41	4R7	4	1	3,497,720:58.0	
1493	96	179	08:21:54.933	117GF105A106B4AA	7STRP	-0.015201,0.0012	Slew =,8.01	4R7	4	1	3,497,721:27.0	
1494	96	179	08:22:00.933	117GF105A106B4AB	7STRP	0.015001,0.0,0.0	Slew =,0.41	4R7	4	1	3,497,721:36.0	
1495	96	179	08:22:40.933	117GF105A106B4AC	7STRP	-0.015201,0.0012	Slew =,8.01	4R7	4	1	3,497,722:05.0	
1496	96	179	08:22:46.933	117GF105A106B4AD	7STRP	0.015001,0.0,0.0	Slew =,0.41	4R7	4	1	3,497,722:14.0	
1497	96	179	08:23:26.933	117GF105A106B4AE	7STRP	-0.015201,0.0012	Slew =,8.01	4R7	4	1	3,497,722:74.0	
1498	96	179	08:23:32.933	117GF105A106B4AF	7STRP	0.015001,0.0,0.0	Slew =,0.41	4R7	4	1	3,497,722:83.0	
1499	96	179	08:24:12.933	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R7	4	1	3,497,723:52.0	
1500	96	179	08:24:12.933	117GF11A	CSMOS	GE	***** GROUP END CSMOS	4R7	4	1	3,497,723:52.0	
1501	96	179	08:24:12.933		DMS:	:*US-RUNUP	R7, TRACK 3, FWD, TIC 3968.85 +/- 1	4R7	4	1	3,497,723:52.0	
1502	96	179	08:24:12.933	176GF6B	6TMREC	NRC	NO RECORD Record Mode Change	4R7	4	1	3,497,723:52.0	
1503	96	179	08:24:21.133		DMS:	:*RECORD	R7, TRACK 3, FWD, TIC *3970.55 +/- 1	4R7	4	1	3,497,723:64:3	
1504	96	179	08:24:37.600	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	4R7	4	1	3,497,723:89.0	
1505	96	179	08:24:37.600		DMS:	:*RUNDOWN	R7, TRACK 3, FWD, TIC *3974.41 +/- 1	4R7	4	1	3,497,723:89.0	
1506	96	179	08:24:39.000		DMS:	:*READY	RDY, TRACK 3, FWD, TIC *3974.47 +/- 1	4R7	4	1	3,497,724:00:1	
1507	96	179	08:28:42.933	165GH4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R7	4	1	3,497,728:02.0	
1508	96	179	08:28:43.600	165GH4B	7SCAN	NORM;75.466999,1	Check S/P Position	4R7	4	1	3,497,728:03.0	
1509	96	179	08:32:37.600	117GH	CSMOS	GS	***** GROUP START CSMOS	4R7	4	1	3,497,731:81.0	
1510	96	179	08:32:46.933	176GH6A	6TMREC	BPT	7.68 KBPS PPR BURST TO TAPE Record Mode C	4R7	4	1	3,497,732:04.0	
1511	96	179	08:32:46.933	117GH105A106A4A	7STRP	0.0,0.006,0.0,0.0,	Slew =,1.16	4R7	4	1	3,497,732:04.0	
1512	96	179	08:33:10.266	117GH11A	CSMOS	GE	***** GROUP END CSMOS	4R7	4	1	3,497,732:39.0	
1513	96	179	08:33:20.266	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R7	4	1	3,497,732:54.0	
1514	96	179	08:33:20.266	176GH6B	6TMREC	NRC	NO RECORD Record Mode Change	4R7	4	1	3,497,732:54.0	
1515	96	179	08:33:20.266		DMS:	:*US-RUNUP	R7, TRACK 3, FWD, TIC 3974.47 +/- 1	4R7	4	1	3,497,732:54.0	
1516	96	179	08:33:28.466		DMS:	:*RECORD	R7, TRACK 3, FWD, TIC *3976.16 +/- 1	4R7	4	1	3,497,732:66:3	
1517	96	179	08:33:36.266	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	4R7	4	1	3,497,732:78.0	
1518	96	179	08:33:36.266		DMS:	:*RUNDOWN	R7, TRACK 3, FWD, TIC *3977.99 +/- 1	4R7	4	1	3,497,732:78.0	
1519	96	179	08:33:37.666		DMS:	:*READY	RDY, TRACK 3, FWD, TIC *3978.05 +/- 1	4R7	4	1	3,497,732:80:1	
1520	96	179	08:40:35.600	488AQ6A	6TMSED	NORM;BL3	Sci, Eng, and D/L Chan	4R7	4	1	3,497,739:70.0	
1521	96	179	08:55:40.266	165GG4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R7	4	1	3,497,754:62.0	
1522	96	179	08:55:40.933	165GG4B	7SCAN	NORM;74.0,18.615	Check S/P Position	4R7	4	1	3,497,754:63.0	
1523	96	179	08:58:52.266	117GG	CSMOS	GS	***** GROUP START CSMOS	4R7	4	1	3,497,757:77.0	
1524	96	179	08:59:01.600	176GG6A	6TMREC	BPT	7.68 KBPS PPR BURST TO TAPE Record Mode C	4R7	4	1	3,497,758:00.0	
1525	96	179	08:59:01.600	117GG105A106A4A	7STRP	0.05305,0.0,0.0,	Slew =,0.41	4R7	4	1	3,497,758:00.0	
1526	96	179	09:01:14.933	117GG105A106A4B	7STRP	-0.053812,0.0009	Slew =,15.0	4R7	4	1	3,497,760:18.0	
1527	96	179	09:01:22.266	117GG105A106A4C	7STRP	0.05305,0.0,0.0,	Slew =,0.41	4R7	4	1	3,497,760:29.0	
1528	96	179	09:03:42.933	117GG105A106A4D	7STRP	-0.053812,0.0009	Slew =,15.0	4R7	4	1	3,497,762:47.0	
1529	96	179	09:03:42.933	117GG105A106A4E	7STRP	0.05305,0.0,0.0,	Slew =,0.41	4R7	4	1	3,497,762:58.0	
1530	96	179	09:05:56.266	117GG105A106A4F	7STRP	-0.053812,0.0009	Slew =,15.0	4R7	4	1	3,497,764:76.0	
1531	96	179	09:06:03.600	117GG105A106A4G	7STRP	0.05305,0.0,0.0,	Slew =,0.41	4R7	4	1	3,497,764:87.0	
1532	96	179	09:08:16.933	117GG105A106A4H	7STRP	-0.053812,0.0009	Slew =,15.0	4R7	4	1	3,497,767:14.0	
1533	96	179	09:08:24.266	117GG105A106A4I	7STRP	0.05305,0.0,0.0,	Slew =,0.41	4R7	4	1	3,497,767:25.0	
1534	96	179	09:10:37.600	117GG105A106A4J	7STRP	-0.053812,0.0009	Slew =,15.0	4R7	4	1	3,497,769:43.0	
1535	96	179	09:10:44.933	117GG105A106A4K	7STRP	0.05305,0.0,0.0,	Slew =,0.41	4R7	4	1	3,497,769:54.0	
1536	96	179	09:12:58.266	117GG105A106A4L	7STRP	-0.053812,0.0009	Slew =,15.0	4R7	4	1	3,497,771:72.0	
1537	96	179	09:13:05.600	117GG105A106A4M	7STRP	0.05305,0.0,0.0,	Slew =,0.41	4R7	4	1	3,497,771:83.0	
1538	96	179	09:13:16.266	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R7	4	1	3,497,772:08.0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1539	96	179	09:13:16.266		DMS:	: *US-RUNUP	R7, TRACK 3, FWD, TIC 3978.05 +/- 1	4R7	4	1	3,497,772:08:0	
1540	96	179	09:13:24.466		DMS:	: *RECORD	R7, TRACK 3, FWD, TIC *3979.75 +/- 1	4R7	4	1	3,497,772:20:3	
1541	96	179	09:13:44.933		DMS:	: *RUNDOWN	R7, TRACK 3, FWD, TIC *3984.55 +/- 1	4R7	4	1	3,497,772:51:0	
1542	96	179	09:13:44.933	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	4R7	4	1	3,497,772:51:0	
1543	96	179	09:13:46.333		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *3984.61 +/- 1	4R7	4	1	3,497,772:53:1	
1544	96	179	09:15:18.933	117GG105A106A4N	7STRP	-0.053812,0.0009	Slew =,15.0	4R7	4	1	3,497,774:10:0	
1545	96	179	09:15:26.266	117GG105A106A4O	7STRP	0.05305,0.0,0.0	Slew =,0.41	4R7	4	1	3,497,774:21:0	
1546	96	179	09:17:39.600	117GG105A106A4P	7STRP	-0.053812,0.0009	Slew =,15.0	4R7	4	1	3,497,776:39:0	
1547	96	179	09:17:46.933	117GG105A106A4Q	7STRP	0.05305,0.0,0.0	Slew =,0.41	4R7	4	1	3,497,776:50:0	
1548	96	179	09:20:07.266	117GG105A106A4R	7STRP	-0.053812,0.0009	Slew =,15.0	4R7	4	1	3,497,778:68:0	
1549	96	179	09:20:07.600	117GG105A106A4S	7STRP	0.05305,0.0,0.0	Slew =,0.41	4R7	4	1	3,497,778:79:0	
1550	96	179	09:22:20.933	117GG105A106A4T	7STRP	-0.053812,0.0009	Slew =,15.0	4R7	4	1	3,497,781:06:0	
1551	96	179	09:22:28.266	117GG105A106A4U	7STRP	0.05305,0.0,0.0	Slew =,0.41	4R7	4	1	3,497,781:17:0	
1552	96	179	09:24:41.600	117GG105A106A4V	7STRP	-0.053812,0.0009	Slew =,15.0	4R7	4	1	3,497,783:35:0	
1553	96	179	09:24:48.933	117GG105A106A4W	7STRP	0.05305,0.0,0.0	Slew =,0.41	4R7	4	1	3,497,783:46:0	
1554	96	179	09:27:02.266	117GG105A106A4X	7STRP	-0.053812,0.0009	Slew =,15.0	4R7	4	1	3,497,785:64:0	
1555	96	179	09:27:09.600	117GG105A106A4Y	7STRP	0.05305,0.0,0.0	Slew =,0.41	4R7	4	1	3,497,785:75:0	
1556	96	179	09:27:40.933		DMS:	: *US-RUNUP	R7, TRACK 3, FWD, TIC 3984.61 +/- 1	4R7	4	1	3,497,786:31:0	
1557	96	179	09:27:40.933	50ZZ6XX	6DMSC	RDY,0	DMS Control Tape runup 7.68kps	4R7	4	1	3,497,786:31:0	
1558	96	179	09:27:49.133		DMS:	: *RECORD	R7, TRACK 3, FWD, TIC *3986.30 +/- 1	4R7	4	1	3,497,786:43:3	
1559	96	179	09:28:09.600		DMS:	: *RUNDOWN	R7, TRACK 3, FWD, TIC *3991.10 +/- 1	4R7	4	1	3,497,786:74:0	
1560	96	179	09:28:09.600	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	4R7	4	1	3,497,786:74:0	
1561	96	179	09:28:11.000		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *3991.16 +/- 1	4R7	4	1	3,497,786:76:1	
1562	96	179	09:29:22.933	117GG105A106A4Z	7STRP	-0.053812,0.0009	Slew =,15.0	4R7	4	1	3,497,788:02:0	
1563	96	179	09:29:30.266	117GG105A106A4AA	7STRP	0.05305,0.0,0.0	Slew =,0.41	4R7	4	1	3,497,788:13:0	
1564	96	179	09:31:43.600	117GG105A106A4AB	7STRP	-0.053812,0.0009	Slew =,15.0	4R7	4	1	3,497,790:31:0	
1565	96	179	09:31:50.933	117GG105A106A4AC	7STRP	0.05305,0.0,0.0	Slew =,0.41	4R7	4	1	3,497,790:42:0	
1566	96	179	09:34:04.266	117GG105A106A4AD	7STRP	-0.053812,0.0009	Slew =,15.0	4R7	4	1	3,497,792:60:0	
1567	96	179	09:34:11.600	117GG105A106A4AE	7STRP	0.05305,0.0,0.0	Slew =,0.41	4R7	4	1	3,497,792:71:0	
1568	96	179	09:36:24.933	117GG105A106A4AF	7STRP	-0.053812,0.0009	Slew =,15.0	4R7	4	1	3,497,794:89:0	
1569	96	179	09:36:32.266	117GG105A106A4AG	7STRP	0.05305,0.0,0.0	Slew =,0.41	4R7	4	1	3,497,795:09:0	
1570	96	179	09:38:45.600	117GG105A106A4AH	7STRP	-0.053812,0.0009	Slew =,15.0	4R7	4	1	3,497,797:27:0	
1571	96	179	09:38:52.933	117GG105A106A4AI	7STRP	0.05305,0.0,0.0	Slew =,0.41	4R7	4	1	3,497,797:38:0	
1572	96	179	09:41:06.266	117GG105A106A4AJ	7STRP	-0.053812,0.0009	Slew =,15.0	4R7	4	1	3,497,799:56:0	
1573	96	179	09:41:13.600	117GG105A106A4AK	7STRP	0.05305,0.0,0.0	Slew =,0.41	4R7	4	1	3,497,799:67:0	
1574	96	179	09:42:05.600		DMS:	: *US-RUNUP	R7, TRACK 3, FWD, TIC 3991.16 +/- 1	4R7	4	1	3,497,800:54:0	
1575	96	179	09:42:05.600	50ZZ6XX	6DMSC	RDY,0	DMS Control Tape runup 7.68kps	4R7	4	1	3,497,800:54:0	
1576	96	179	09:42:13.800		DMS:	: *RECORD	R7, TRACK 3, FWD, TIC *3992.85 +/- 1	4R7	4	1	3,497,800:66:3	
1577	96	179	09:42:34.266		DMS:	: *RUNDOWN	R7, TRACK 3, FWD, TIC *3997.65 +/- 1	4R7	4	1	3,497,801:06:0	
1578	96	179	09:42:34.266	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	4R7	4	1	3,497,801:06:0	
1579	96	179	09:42:35.666		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *3997.71 +/- 1	4R7	4	1	3,497,801:08:1	
1580	96	179	09:43:26.933	117GG105A106A4AL	7STRP	-0.053812,0.0009	Slew =,15.0	4R7	4	1	3,497,801:85:0	
1581	96	179	09:43:34.266	117GG105A106A4AM	7STRP	0.05305,0.0,0.0	Slew =,0.41	4R7	4	1	3,497,802:05:0	
1582	96	179	09:45:47.600	117GG105A106A4AN	7STRP	-0.053812,0.0009	Slew =,15.0	4R7	4	1	3,497,804:23:0	
1583	96	179	09:45:54.933	117GG105A106A4AO	7STRP	0.05305,0.0,0.0	Slew =,0.41	4R7	4	1	3,497,804:34:0	
1584	96	179	09:48:08.266	117GG105A106A4AP	7STRP	-0.053812,0.0009	Slew =,15.0	4R7	4	1	3,497,806:52:0	
1585	96	179	09:48:15.600	117GG105A106A4AQ	7STRP	0.05305,0.0,0.0	Slew =,0.41	4R7	4	1	3,497,806:63:0	
1586	96	179	09:50:28.933	117GG105A106A4AR	7STRP	-0.053812,0.0009	Slew =,15.0	4R7	4	1	3,497,808:81:0	
1587	96	179	09:50:36.266	117GG105A106A4AS	7STRP	0.05305,0.0,0.0	Slew =,0.41	4R7	4	1	3,497,809:01:0	
1588	96	179	09:52:49.600	117GG105A106A4AT	7STRP	-0.053812,0.0009	Slew =,15.0	4R7	4	1	3,497,811:19:0	
1589	96	179	09:52:56.933	117GG105A106A4AU	7STRP	0.05305,0.0,0.0	Slew =,0.41	4R7	4	1	3,497,811:30:0	
1590	96	179	09:55:17.600	117GG105A106A4AV	7STRP	-0.053812,0.0009	Slew =,15.0	4R7	4	1	3,497,813:48:0	
1591	96	179	09:55:17.600	117GG105A106A4AW	7STRP	0.05305,0.0,0.0	Slew =,0.41	4R7	4	1	3,497,813:59:0	
1592	96	179	09:56:30.266	50ZZ6XX	6DMSC	RDY,0	DMS Control Tape runup 7.68kps	4R7	4	1	3,497,814:77:0	
1593	96	179	09:56:30.266		DMS:	: *US-RUNUP	R7, TRACK 3, FWD, TIC 3997.71 +/- 1	4R7	4	1	3,497,814:77:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1594	96	179	09:56:38.466		DMS:	: *RECORD	R7, TRACK 3, FWD, TIC *3999.41 +/- 1	4R7	4	1	3,497,814:89:3	
1595	96	179	09:56:58.933	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	4R7	4	1	3,497,815:29:0	
1596	96	179	09:56:58.933		DMS:	: *RUNDOWN	R7, TRACK 3, FWD, TIC *4004.20 +/- 1	4R7	4	1	3,497,815:29:0	
1597	96	179	09:57:00.333		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *4004.26 +/- 1	4R7	4	1	3,497,815:31:1	
1598	96	179	09:57:30.933	117GG105A106A4AX	7STRP	-0.053812,0.0009	Slew =,15.0	4R7	4	1	3,497,815:77:0	
1599	96	179	09:57:38.266	117GG105A106A4AY	7STRP	0.05305,0.0,0.0	Slew =,15.0	4R7	4	1	3,497,815:88:0	
1600	96	179	09:59:51.600	117GG105A106A4AZ	7STRP	-0.053812,0.0009	Slew =,15.0	4R7	4	1	3,497,818:15:0	
1601	96	179	09:59:58.933	117GG105A106A4BA	7STRP	0.05305,0.0,0.0	Slew =,0.41	4R7	4	1	3,497,818:26:0	
1602	96	179	10:02:12.266	117GG105A106A4BB	7STRP	-0.053812,0.0009	Slew =,15.0	4R7	4	1	3,497,820:44:0	
1603	96	179	10:02:19.600	117GG105A106A4BC	7STRP	0.05305,0.0,0.0	Slew =,0.41	4R7	4	1	3,497,820:55:0	
1604	96	179	10:04:32.933	117GG105A106A4BD	7STRP	-0.053812,0.0009	Slew =,15.0	4R7	4	1	3,497,822:73:0	
1605	96	179	10:04:40.266	117GG105A106A4BE	7STRP	0.05305,0.0,0.0	Slew =,0.41	4R7	4	1	3,497,822:84:0	
1606	96	179	10:06:53.600	117GG105A106A4BF	7STRP	-0.053812,0.0009	Slew =,15.0	4R7	4	1	3,497,825:11:0	
1607	96	179	10:07:00.933	117GG105A106A4BG	7STRP	0.05305,0.0,0.0	Slew =,0.41	4R7	4	1	3,497,825:22:0	
1608	96	179	10:09:14.266	117GG105A106A4BH	7STRP	-0.053812,0.0009	Slew =,15.0	4R7	4	1	3,497,827:40:0	
1609	96	179	10:09:21.600	117GG105A106A4BI	7STRP	0.05305,0.0,0.0	Slew =,0.41	4R7	4	1	3,497,827:51:0	
1610	96	179	10:10:54.933		DMS:	: *US-RUNUP	R7, TRACK 3, FWD, TIC 4004.26 +/- 1	4R7	4	1	3,497,829:09:0	
1611	96	179	10:10:54.933	50ZZ6XX	6DMSC	RDY,0	DMS Control Tape runup 7.68kps	4R7	4	1	3,497,829:09:0	
1612	96	179	10:11:03.133		DMS:	: *RECORD	R7, TRACK 3, FWD, TIC *4005.96 +/- 1	4R7	4	1	3,497,829:21:3	
1613	96	179	10:11:23.600		DMS:	: *RUNDOWN	R7, TRACK 3, FWD, TIC *4010.76 +/- 1	4R7	4	1	3,497,829:52:0	
1614	96	179	10:11:23.600	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	4R7	4	1	3,497,829:52:0	
1615	96	179	10:11:25.000		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *4010.82 +/- 1	4R7	4	1	3,497,829:54:1	
1616	96	179	10:11:34.933	117GG105A106A4BJ	7STRP	-0.053812,0.0009	Slew =,15.0	4R7	4	1	3,497,829:69:0	
1617	96	179	10:11:42.266	117GG105A106A4BK	7STRP	0.05305,0.0,0.0	Slew =,0.41	4R7	4	1	3,497,829:80:0	
1618	96	179	10:13:55.600	117GG105A106A4BL	7STRP	-0.053812,0.0009	Slew =,15.0	4R7	4	1	3,497,832:07:0	
1619	96	179	10:14:02.933	117GG105A106A4BM	7STRP	0.05305,0.0,0.0	Slew =,0.41	4R7	4	1	3,497,832:18:0	
1620	96	179	10:16:16.266	117GG105A106A4BN	7STRP	-0.053812,0.0009	Slew =,15.0	4R7	4	1	3,497,834:36:0	
1621	96	179	10:16:23.600	117GG105A106A4BO	7STRP	0.05305,0.0,0.0	Slew =,0.41	4R7	4	1	3,497,834:47:0	
1622	96	179	10:18:36.933	117GG105A106A4BP	7STRP	-0.053812,0.0009	Slew =,15.0	4R7	4	1	3,497,836:65:0	
1623	96	179	10:18:44.266	117GG105A106A4BQ	7STRP	0.05305,0.0,0.0	Slew =,0.41	4R7	4	1	3,497,836:76:0	
1624	96	179	10:20:51.600	488AQ6B	6TMSED	NORM,BL4	Sci, Eng, and D/L Chan	4R7	4	1	3,497,838:85:0	
1625	96	179	10:20:57.600	117GG105A106A4BR	7STRP	-0.053812,0.0009	Slew =,15.0	4R7	4	1	3,497,839:03:0	
1626	96	179	10:21:04.933	117GG105A106A4BS	7STRP	0.05305,0.0,0.0	Slew =,0.41	4R7	4	1	3,497,839:14:0	
1627	96	179	10:23:18.266	117GG105A106A4BT	7STRP	-0.053812,0.0009	Slew =,15.0	4R7	4	1	3,497,841:32:0	
1628	96	179	10:23:25.600	117GG105A106A4BU	7STRP	0.05305,0.0,0.0	Slew =,0.41	4R7	4	1	3,497,841:43:0	
1629	96	179	10:25:18.933		DMS:	: *US-RUNUP	R7, TRACK 3, FWD, TIC 4010.82 +/- 1	4R7	4	1	3,497,843:31:0	
1630	96	179	10:25:18.933	50ZZ6XX	6DMSC	RDY,0	DMS Control Tape runup 7.68kps	4R7	4	1	3,497,843:31:0	
1631	96	179	10:25:27.133		DMS:	: *RECORD	R7, TRACK 3, FWD, TIC *4012.51 +/- 1	4R7	4	1	3,497,843:43:3	
1632	96	179	10:25:38.933	117GG105A106A4BV	7STRP	-0.053812,0.0009	Slew =,15.0	4R7	4	1	3,497,843:61:0	
1633	96	179	10:25:46.266	117GG105A106A4BW	7STRP	0.05305,0.0,0.0	Slew =,0.41	4R7	4	1	3,497,843:72:0	
1634	96	179	10:25:47.600	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	4R7	4	1	3,497,843:74:0	
1635	96	179	10:25:47.600		DMS:	: *RUNDOWN	R7, TRACK 3, FWD, TIC *4017.31 +/- 1	4R7	4	1	3,497,843:74:0	
1636	96	179	10:25:49.000		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *4017.37 +/- 1	4R7	4	1	3,497,843:76:1	
1637	96	179	10:27:59.600	117GG105A106A4BX	7STRP	-0.053812,0.0009	Slew =,15.0	4R7	4	1	3,497,845:90:0	
1638	96	179	10:28:06.933	117GG105A106A4BY	7STRP	0.05305,0.0,0.0	Slew =,0.41	4R7	4	1	3,497,846:10:0	
1639	96	179	10:30:20.266	117GG105A106A4BZ	7STRP	-0.053812,0.0009	Slew =,15.0	4R7	4	1	3,497,848:28:0	
1640	96	179	10:30:27.600	117GG105A106A4CA	7STRP	0.05305,0.0,0.0	Slew =,0.41	4R7	4	1	3,497,848:39:0	
1641	96	179	10:32:40.933	117GG105A106A4CB	7STRP	-0.053812,0.0009	Slew =,15.0	4R7	4	1	3,497,850:57:0	
1642	96	179	10:32:48.266	117GG105A106A4CC	7STRP	0.05305,0.0,0.0	Slew =,0.41	4R7	4	1	3,497,850:68:0	
1643	96	179	10:35:01.600	117GG105A106A4CD	7STRP	-0.053812,0.0009	Slew =,15.0	4R7	4	1	3,497,852:86:0	
1644	96	179	10:35:08.933	117GG105A106A4CE	7STRP	0.05305,0.0,0.0	Slew =,0.41	4R7	4	1	3,497,853:06:0	
1645	96	179	10:37:22.266	117GG105A106A4CF	7STRP	-0.053812,0.0009	Slew =,15.0	4R7	4	1	3,497,855:24:0	
1646	96	179	10:37:29.600	117GG105A106A4CG	7STRP	0.05305,0.0,0.0	Slew =,0.41	4R7	4	1	3,497,855:35:0	
1647	96	179	10:39:42.933	117GG105A106A4CH	7STRP	-0.053812,0.0009	Slew =,15.0	4R7	4	1	3,497,857:53:0	
1648	96	179	10:39:43.600	50ZZ6XX	6DMSC	RDY,0	DMS Control Tape runup 7.68kps	4R7	4	1	3,497,857:54:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1649	96	179	10:39:43.600		DMS:	: *US-RUNUP	R7, TRACK 3, FWD, TIC 4017.37 +/- 1	4R7	4	1	3,497,857:54.0	
1650	96	179	10:39:50.266	117GG105A106A4CI	7STRP	0.05305.0.0.0.0,	Slew = 0.41	4R7	4	1	3,497,857:64.0	
1651	96	179	10:39:51.800		DMS:	: *RECORD	R7, TRACK 3, FWD, TIC *4019.07 +/- 1	4R7	4	1	3,497,857:66.3	
1652	96	179	10:40:12.266	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	4R7	4	1	3,497,858:06.0	
1653	96	179	10:40:12.266		DMS:	: *RUNDOWN	R7, TRACK 3, FWD, TIC *4023.86 +/- 1	4R7	4	1	3,497,858:06.0	
1654	96	179	10:40:13.666		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *4023.92 +/- 1	4R7	4	1	3,497,858:08.1	
1655	96	179	10:42:03.600	117GG105A106A4CJ	7STRP	-0.053812.0.0009	Slew = 15.0	4R7	4	1	3,497,859:82.0	
1656	96	179	10:42:10.933	117GG105A106A4CK	7STRP	0.05305.0.0.0.0,	Slew = 0.41	4R7	4	1	3,497,860:02.0	
1657	96	179	10:44:24.266	117GG105A106A4CL	7STRP	-0.053812.0.0009	Slew = 15.0	4R7	4	1	3,497,862:20.0	
1658	96	179	10:44:31.600	117GG105A106A4CM	7STRP	0.05305.0.0.0.0,	Slew = 0.41	4R7	4	1	3,497,862:31.0	
1659	96	179	10:46:44.933	117GG105A106A4CN	7STRP	-0.053812.0.0009	Slew = 15.0	4R7	4	1	3,497,864:49.0	
1660	96	179	10:46:52.266	117GG105A106A4CO	7STRP	0.05305.0.0.0.0,	Slew = 0.41	4R7	4	1	3,497,864:60.0	
1661	96	179	10:49:05.600	117GG105A106A4CP	7STRP	-0.053812.0.0009	Slew = 15.0	4R7	4	1	3,497,866:78.0	
1662	96	179	10:49:12.933	117GG105A106A4CQ	7STRP	0.05305.0.0.0.0,	Slew = 0.41	4R7	4	1	3,497,866:89.0	
1663	96	179	10:51:26.266	117GG105A106A4CR	7STRP	-0.053812.0.0009	Slew = 15.0	4R7	4	1	3,497,869:16.0	
1664	96	179	10:51:33.600	117GG105A106A4CS	7STRP	0.05305.0.0.0.0,	Slew = 0.41	4R7	4	1	3,497,869:27.0	
1665	96	179	10:53:46.933	117GG105A106A4CT	7STRP	-0.053812.0.0009	Slew = 15.0	4R7	4	1	3,497,871:45.0	
1666	96	179	10:53:54.266	117GG105A106A4CU	7STRP	0.05305.0.0.0.0,	Slew = 0.41	4R7	4	1	3,497,871:56.0	
1667	96	179	10:54:08.266		DMS:	: *US-RUNUP	R7, TRACK 3, FWD, TIC 4023.92 +/- 1	4R7	4	1	3,497,871:77.0	
1668	96	179	10:54:08.266	50ZZ6XX	6DMSC	RDY,0	DMS Control Tape runup 7.68kps	4R7	4	1	3,497,871:77.0	
1669	96	179	10:54:16.466		DMS:	: *RECORD	R7, TRACK 3, FWD, TIC *4025.62 +/- 1	4R7	4	1	3,497,871:89.3	
1670	96	179	10:54:36.933		DMS:	: *RUNDOWN	R7, TRACK 3, FWD, TIC *4030.42 +/- 1	4R7	4	1	3,497,872:29.0	
1671	96	179	10:54:36.933	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	4R7	4	1	3,497,872:29.0	
1672	96	179	10:54:38.333		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *4030.48 +/- 1	4R7	4	1	3,497,872:31.1	
1673	96	179	10:56:07.600	117GG105A106A4CV	7STRP	-0.053812.0.0009	Slew = 15.0	4R7	4	1	3,497,873:11.0	
1674	96	179	10:56:14.933	117GG105A106A4CW	7STRP	0.05305.0.0.0.0,	Slew = 0.41	4R7	4	1	3,497,873:85.0	
1675	96	179	10:58:28.266	117GG105A106A4CX	7STRP	-0.053812.0.0009	Slew = 15.0	4R7	4	1	3,497,876:12.0	
1676	96	179	10:58:35.600	117GG105A106A4CY	7STRP	0.05305.0.0.0.0,	Slew = 0.41	4R7	4	1	3,497,876:23.0	
1677	96	179	11:00:48.933	117GG105A106A4CZ	7STRP	-0.053812.0.0009	Slew = 15.0	4R7	4	1	3,497,878:41.0	
1678	96	179	11:00:56.266	117GG105A106A4DA	7STRP	0.05305.0.0.0.0,	Slew = 0.41	4R7	4	1	3,497,878:52.0	
1679	96	179	11:03:09.600	117GG105A106A4DB	7STRP	-0.053812.0.0009	Slew = 15.0	4R7	4	1	3,497,880:70.0	
1680	96	179	11:03:16.933	117GG105A106A4DC	7STRP	0.05305.0.0.0.0,	Slew = 0.41	4R7	4	1	3,497,880:81.0	
1681	96	179	11:05:30.266	117GG105A106A4DD	7STRP	-0.053812.0.0009	Slew = 15.0	4R7	4	1	3,497,883:08.0	
1682	96	179	11:05:37.600	117GG105A106A4DE	7STRP	0.05305.0.0.0.0,	Slew = 0.41	4R7	4	1	3,497,883:19.0	
1683	96	179	11:07:50.933	117GG105A106A4DF	7STRP	-0.053812.0.0009	Slew = 15.0	4R7	4	1	3,497,885:37.0	
1684	96	179	11:07:58.266	117GG105A106A4DG	7STRP	0.05305.0.0.0.0,	Slew = 0.41	4R7	4	1	3,497,885:48.0	
1685	96	179	11:08:32.933	50ZZ6XX	6DMSC	RDY,0	DMS Control Tape runup 7.68kps	4R7	4	1	3,497,886:09.0	
1686	96	179	11:08:32.933		DMS:	: *US-RUNUP	R7, TRACK 3, FWD, TIC 4030.48 +/- 1	4R7	4	1	3,497,886:09.0	
1687	96	179	11:08:41.133		DMS:	: *RECORD	R7, TRACK 3, FWD, TIC *4032.17 +/- 1	4R7	4	1	3,497,886:21.3	
1688	96	179	11:09:01.600		DMS:	: *RUNDOWN	R7, TRACK 3, FWD, TIC *4036.97 +/- 1	4R7	4	1	3,497,886:52.0	
1689	96	179	11:09:01.600	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	4R7	4	1	3,497,886:52.0	
1690	96	179	11:09:03.000		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *4037.03 +/- 1	4R7	4	1	3,497,886:54.1	
1691	96	179	11:10:11.600	117GG105A106A4DH	7STRP	-0.053812.0.0009	Slew = 15.0	4R7	4	1	3,497,887:66.0	
1692	96	179	11:10:18.933	117GG105A106A4DI	7STRP	0.05305.0.0.0.0,	Slew = 0.41	4R7	4	1	3,497,887:77.0	
1693	96	179	11:12:32.266	117GG105A106A4DJ	7STRP	-0.053812.0.0009	Slew = 15.0	4R7	4	1	3,497,890:04.0	
1694	96	179	11:12:39.600	117GG105A106A4DK	7STRP	0.05305.0.0.0.0,	Slew = 0.41	4R7	4	1	3,497,890:15.0	
1695	96	179	11:14:52.933	176GG6B	6TMREC	NRC	NO RECORD Record Mode Change	4R7	4	1	3,497,892:33.0	
1696	96	179	11:14:52.933	50ZZ6XX	6DMSC	RDY,0	DMS Control Tape runup 7.68kps	4R7	4	1	3,497,892:33.0	
1697	96	179	11:14:52.933	117GG11A	CSMOS	GE	***** GROUP END CSMOS	4R7	4	1	3,497,892:33.0	
1698	96	179	11:14:52.933		DMS:	: *US-RUNUP	R7, TRACK 3, FWD, TIC 4037.03 +/- 1	4R7	4	1	3,497,892:33.0	
1699	96	179	11:15:01.133		DMS:	: *RECORD	R7, TRACK 3, FWD, TIC *4038.72 +/- 1	4R7	4	1	3,497,892:45.3	
1700	96	179	11:15:13.600	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	4R7	4	1	3,497,892:64.0	
1701	96	179	11:15:13.600		DMS:	: *RUNDOWN	R7, TRACK 3, FWD, TIC *4041.65 +/- 1	4R7	4	1	3,497,892:64.0	
1702	96	179	11:15:15.000		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *4041.71 +/- 1	4R7	4	1	3,497,892:66.1	
1703	96	179	11:16:30.933	165DW4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R7	4	1	3,497,893:89.0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1704	96	179	11:16:31.600	165DW4B	7SCAN	NORM,284.654999, -----START-----	Check S/P Position	4R7	4	1	3,497,893:90:0	
1705	96	179	11:16:36.266	G1JNGRS00501-				4R7	4	1	:	
1706	96	179	11:19:29.600	125DW11A	NIMSINIT	GE	##### GROUP END INIT	4R7	4	1	3,497,896:84:0	
1707	96	179	11:19:29.600	125DW	NIMSINIT	GS	##### GROUP START INIT	4R7	4	1	3,497,896:84:0	
1708	96	179	11:19:29.600	125DW4A	37IST	1,2,0,OFF,0,1,0	Chopper ON, Sync, Chopper (Ref)Gain State	2R7	4	1	3,497,896:84:0	
1709	96	179	11:20:18.266		DMS:	:*US-RUNUP	R28, TRACK 3, FWD, TIC 4041.71 +/- 1	2R7	4	1	3,497,897:66:0	
1710	96	179	11:20:18.266	175K1422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	2R7	4	1	3,497,897:66:0	
1711	96	179	11:20:25.600	117DW	CSMOS	GS	**** GROUP START CSMOS	2R7	4	1	3,497,897:77:0	
1712	96	179	11:20:30.266	127DW4A	37IOP	5,1	Short Map, Grating Start Position =01	2R5	4	1	3,497,897:84:0	
1713	96	179	11:20:30.266	175K1176A6A	6TMREC	MPW	28.8 KBPS PWS + NIMS RECORD Record Mode C	2R5	4	1	3,497,897:84:0	
1714	96	179	11:20:30.266	127DW	NIMSTAB	GS	%%%% GROUP START TAB	2R5	4	1	3,497,897:84:0	
1715	96	179	11:20:30.333		DMS:	:*RECORD	R28, TRACK 3, FWD, TIC *4044.60 +/- 1	2R5	4	1	3,497,897:84:0	
1716	96	179	11:20:30.933	127DW4B	37ETB	CD,02,00,00,05,	Loads wavelength edit table	2R5	4	1	3,497,897:85:0	
1717	96	179	11:20:31.600	175DW422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,497,897:86:0	
1718	96	179	11:20:31.600		DMS:	:*RUNDOWN	R28, TRACK 3, FWD, TIC *4045.72 +/- 1	2R5	4	1	3,497,897:86:0	
1719	96	179	11:20:33.000		DMS:	:*RUNUP	R7, TRACK 3, FWD, TIC *4045.94 +/- 1	2R5	4	1	3,497,897:88:1	
1720	96	179	11:20:33.600	165DW4C	7VECT		Inert vect update UTC	2R5	4	1	3,497,897:89:0	
1721	96	179	11:20:34.266	175DW176A6A	6TMREC	LPU	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	3,497,897:90:0	
1722	96	179	11:20:34.266	165DW4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	2R5	4	1	3,497,897:90:0	
1723	96	179	11:20:34.466		DMS:	:*RECORD	R7, TRACK 3, FWD, TIC *4046.06 +/- 1	2R5	4	1	3,497,897:90:3	
1724	96	179	11:20:34.933	117DW105A106A4A	7STRP	0,016001,0,0,0,0	Slew =-0.12	2R5	4	1	3,497,898:00:0	
1725	96	179	11:20:34.958	G1JNGRS00501-	NIMPBK	301DW	GRS 5 PHASE #1	2R5	4	1	:	
1726	96	179	11:20:38.933	127DW11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R5	4	1	3,497,898:06:0	
1727	96	179	11:26:14.933	117DW105A106A4B	7STRP	-0,014001,0,0070	Slew =12.01	2R5	4	1	3,497,903:55:0	
1728	96	179	11:26:34.933	117DW105A106A4C	7STRP	0,016001,0,0,0,0	Slew =-0.12	2R5	4	1	3,497,903:85:0	
1729	96	179	11:32:12.958	G1JNGRS00501-	DESEL	300DW	GRS 5 PHASE #1	2R5	4	1	:	
1730	96	179	11:32:14.933	175DW422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,497,909:49:0	
1731	96	179	11:32:14.933		DMS:	:*RUNDOWN	R7, TRACK 3, FWD, TIC *4210.23 +/- 1	2R5	4	1	3,497,909:49:0	
1732	96	179	11:32:14.933	175DW6A	6TMREC	NRC	NO RECORD Record Mode Change	2R5	4	1	3,497,909:49:0	
1733	96	179	11:32:14.933	117DW11A	CSMOS	GE	**** GROUP END CSMOS	2R5	4	1	3,497,909:49:0	
1734	96	179	11:32:16.333		DMS:	:*READY	RDY, TRACK 3, FWD, TIC *4210.29 +/- 1	2R5	4	1	3,497,909:51:1	
1735	96	179	11:32:36.266	G1JNGRS00501-		-----STOP-----		2R5	4	1	:	
1736	96	179	11:56:57.600	165GJ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,497,933:89:0	
1737	96	179	11:56:58.266	165GJ4B	7SCAN	NORM,290.566998,	Check S/P Position	2R5	4	1	3,497,933:90:0	
1738	96	179	12:00:52.266	117GJ	CSMOS	GS	**** GROUP START CSMOS	2R5	4	1	3,497,937:77:0	
1739	96	179	12:01:01.600	117GJ105A106A4A	7STRP	0,0,0,01915,0,0,0	Slew =-0.51	2R5	4	1	3,497,938:00:0	
1740	96	179	12:06:06.266	117GJ105A106A4B	7STRP	-0,0045,-0,01909	Slew =17.01	2R5	4	1	3,497,943:02:0	
1741	96	179	12:06:23.600	117GJ105A106A4C	7STRP	0,0,0,01915,0,0,0	Slew =-0.51	2R5	4	1	3,497,943:28:0	
1742	96	179	12:11:28.266	117GJ105A106A4D	7STRP	-0,0045,-0,01909	Slew =17.01	2R5	4	1	3,497,948:30:0	
1743	96	179	12:11:45.600	117GJ105A106A4E	7STRP	0,0,0,01915,0,0,0	Slew =-0.51	2R5	4	1	3,497,948:56:0	
1744	96	179	12:16:50.266	117GJ105A106A4F	7STRP	-0,0045,-0,01909	Slew =17.01	2R5	4	1	3,497,953:58:0	
1745	96	179	12:17:07.600	117GJ105A106A4G	7STRP	0,0,0,01915,0,0,0	Slew =0.51	2R5	4	1	3,497,953:84:0	
1746	96	179	12:22:12.266	117GJ105A106A4H	7STRP	-0,0045,-0,01909	Slew =17.01	2R5	4	1	3,497,958:86:0	
1747	96	179	12:22:29.600	117GJ105A106A4I	7STRP	0,0,0,01915,0,0,0	Slew =0.51	2R5	4	1	3,497,959:21:0	
1748	96	179	12:27:34.266	117GJ105A106B4A	7STRP	-0,004,-0,019775	Slew =17.01	2R5	4	1	3,497,964:23:0	
1749	96	179	12:27:52.933	117GJ105A106B4B	7STRP	0,0,0,020127,0,0	Slew =-0.51	2R5	4	1	3,497,964:51:0	
1750	96	179	12:32:26.266	117GJ105A106B4C	7STRP	-0,004,-0,019775	Slew =17.01	2R5	4	1	3,497,969:06:0	
1751	96	179	12:32:44.933	117GJ105A106B4D	7STRP	0,0,0,020127,0,0	Slew =-0.51	2R5	4	1	3,497,969:34:0	
1752	96	179	12:37:18.266	117GJ105A106B4E	7STRP	-0,004,-0,019775	Slew =17.01	2R5	4	1	3,497,973:80:0	
1753	96	179	12:37:36.933	117GJ105A106B4F	7STRP	0,0,0,020127,0,0	Slew =-0.51	2R5	4	1	3,497,974:17:0	
1754	96	179	12:42:10.266	117GJ105A106B4G	7STRP	-0,004,-0,019775	Slew =17.01	2R5	4	1	3,497,978:63:0	
1755	96	179	12:42:28.933	117GJ105A106B4H	7STRP	0,0,0,020127,0,0	Slew =0.51	2R5	4	1	3,497,979:00:0	
1756	96	179	12:46:31.600	176GJ6A	6TMREC	BPT	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R5	4	1	3,497,983:00:0	
1757	96	179	12:47:02.266	117GJ105A106B4I	7STRP	-0,004,-0,019775	Slew =17.01	2R5	4	1	3,497,983:46:0	
1758	96	179	12:47:20.933	117GJ105A106B4J	7STRP	0,0,0,020127,0,0	Slew =-0.51	2R5	4	1	3,497,983:74:0	



Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1759	96	179	12:51:54.266	117GJ105A106B4K	7STRP	-0.004,-0.019775	Slew =17.01	2R5	4	1	3,497,988:290	
1760	96	179	12:52:12.933	117GJ105A106B4L	7STRP	0.0.0.020127,0.0	Slew =0.51	2R5	4	1	3,497,988:570	
1761	96	179	12:56:46.266	117GJ105A106B4M	7STRP	-0.004,-0.019775	Slew =17.01	2R5	4	1	3,497,993:120	
1762	96	179	12:57:04.933	117GJ105A106B4N	7STRP	0.0.0.020127,0.0	Slew =0.51	2R5	4	1	3,497,993:400	
1763	96	179	13:00:46.266	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,497,997:080	
1764	96	179	13:00:46.266		DMS:	:*US-RUNUP	R7, TRACK 3, FWD, TIC 4210.29 +/- 1	2R5	4	1	3,497,997:080	
1765	96	179	13:00:54.466		DMS:	:*RECORD	R7, TRACK 3, FWD, TIC *4211.98 +/- 1	2R5	4	1	3,497,997:203	
1766	96	179	13:01:14.933	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,497,997:510	
1767	96	179	13:01:14.933		DMS:	:*RUNDOWN	R7, TRACK 3, FWD, TIC *4216.78 +/- 1	2R5	4	1	3,497,997:510	
1768	96	179	13:01:16.333		DMS:	:*READY	RDY, TRACK 3, FWD, TIC *4216.84 +/- 1	2R5	4	1	3,497,997:531	
1769	96	179	13:01:38.266	117GJ105A106B4O	7STRP	-0.004,-0.019775	Slew =17.01	2R5	4	1	3,497,997:860	
1770	96	179	13:01:56.933	117GJ105A106B4P	7STRP	0.0.0.020127,0.0	Slew =0.51	2R5	4	1	3,497,998:230	
1771	96	179	13:06:30.266	117GJ105A106B4Q	7STRP	-0.004,-0.019775	Slew =17.01	2R5	4	1	3,498,002:690	
1772	96	179	13:06:48.933	117GJ105A106B4R	7STRP	0.0.0.020127,0.0	Slew =0.51	2R5	4	1	3,498,003:060	
1773	96	179	13:11:22.266	117GJ105A106B4S	7STRP	-0.004,-0.019775	Slew =17.01	2R5	4	1	3,498,007:520	
1774	96	179	13:11:40.933	117GJ105A106B4T	7STRP	0.0.0.020127,0.0	Slew =0.51	2R5	4	1	3,498,007:800	
1775	96	179	13:15:10.933	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,498,011:310	
1776	96	179	13:15:10.933		DMS:	:*US-RUNUP	R7, TRACK 3, FWD, TIC 4216.84 +/- 1	2R5	4	1	3,498,011:310	
1777	96	179	13:15:19.133		DMS:	:*RECORD	R7, TRACK 3, FWD, TIC *4218.54 +/- 1	2R5	4	1	3,498,011:433	
1778	96	179	13:15:39.600	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,498,011:740	
1779	96	179	13:15:39.600		DMS:	:*RUNDOWN	R7, TRACK 3, FWD, TIC *4223.33 +/- 1	2R5	4	1	3,498,011:740	
1780	96	179	13:15:41.000		DMS:	:*READY	RDY, TRACK 3, FWD, TIC *4223.39 +/- 1	2R5	4	1	3,498,011:761	
1781	96	179	13:16:14.266	117GJ105A106B4U	7STRP	-0.004,-0.019775	Slew =17.01	2R5	4	1	3,498,012:350	
1782	96	179	13:16:32.933	117GJ105A106B4V	7STRP	0.0.0.020127,0.0	Slew =0.51	2R5	4	1	3,498,012:630	
1783	96	179	13:21:04.266	117GJ105A106B4W	7STRP	-0.004,-0.019775	Slew =17.01	2R5	4	1	3,498,017:180	
1784	96	179	13:21:24.933	117GJ105A106B4X	7STRP	0.0.0.020127,0.0	Slew =0.51	2R5	4	1	3,498,017:460	
1785	96	179	13:25:58.266	117GJ105A106B4Y	7STRP	-0.004,-0.019775	Slew =17.01	2R5	4	1	3,498,022:010	
1786	96	179	13:26:16.933	117GJ105A106B4Z	7STRP	0.0.0.020127,0.0	Slew =0.51	2R5	4	1	3,498,022:290	
1787	96	179	13:29:35.600	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,498,025:540	
1788	96	179	13:29:35.600		DMS:	:*US-RUNUP	R7, TRACK 3, FWD, TIC 4223.39 +/- 1	2R5	4	1	3,498,025:540	
1789	96	179	13:29:43.800		DMS:	:*RECORD	R7, TRACK 3, FWD, TIC *4225.09 +/- 1	2R5	4	1	3,498,025:663	
1790	96	179	13:30:04.266		DMS:	:*RUNDOWN	R7, TRACK 3, FWD, TIC *4229.89 +/- 1	2R5	4	1	3,498,026:060	
1791	96	179	13:30:04.266	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,498,026:060	
1792	96	179	13:30:05.666		DMS:	:*READY	RDY, TRACK 3, FWD, TIC *4229.95 +/- 1	2R5	4	1	3,498,026:081	
1793	96	179	13:30:50.266	117GJ105A106B4AA	7STRP	-0.004,-0.019775	Slew =17.01	2R5	4	1	3,498,026:750	
1794	96	179	13:31:08.933	117GJ105A106B4AB	7STRP	0.0.0.020127,0.0	Slew =0.51	2R5	4	1	3,498,027:120	
1795	96	179	13:35:42.266	117GJ105A106B4AC	7STRP	-0.004,-0.019775	Slew =17.01	2R5	4	1	3,498,031:580	
1796	96	179	13:36:00.933	117GJ105A106B4AD	7STRP	0.0.0.020127,0.0	Slew =0.51	2R5	4	1	3,498,031:860	
1797	96	179	13:40:34.266	117GJ105A106B4AE	7STRP	-0.004,-0.019775	Slew =17.01	2R5	4	1	3,498,036:410	
1798	96	179	13:40:52.933	117GJ105A106B4AF	7STRP	0.0.0.020127,0.0	Slew =0.51	2R5	4	1	3,498,036:690	
1799	96	179	13:44:00.266		DMS:	:*US-RUNUP	R7, TRACK 3, FWD, TIC 4229.95 +/- 1	2R5	4	1	3,498,039:770	
1800	96	179	13:44:00.266	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,498,039:770	
1801	96	179	13:44:08.466		DMS:	:*RECORD	R7, TRACK 3, FWD, TIC *4231.64 +/- 1	2R5	4	1	3,498,039:893	
1802	96	179	13:44:28.933		DMS:	:*RUNDOWN	R7, TRACK 3, FWD, TIC *4236.44 +/- 1	2R5	4	1	3,498,040:290	
1803	96	179	13:44:28.933	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,498,040:290	
1804	96	179	13:44:30.333		DMS:	:*READY	RDY, TRACK 3, FWD, TIC *4236.50 +/- 1	2R5	4	1	3,498,040:311	
1805	96	179	13:45:26.266	117GJ105A106B4AG	7STRP	-0.004,-0.019775	Slew =17.01	2R5	4	1	3,498,041:240	
1806	96	179	13:45:44.933	117GJ105A106B4AH	7STRP	0.0.0.020127,0.0	Slew =0.51	2R5	4	1	3,498,041:520	
1807	96	179	13:50:18.266	117GJ105A106B4AI	7STRP	-0.004,-0.019775	Slew =17.01	2R5	4	1	3,498,046:070	
1808	96	179	13:50:36.933	117GJ105A106B4AJ	7STRP	0.0.0.020127,0.0	Slew =0.51	2R5	4	1	3,498,046:350	
1809	96	179	13:55:10.266	117GJ105A106B4AK	7STRP	-0.004,-0.019775	Slew =17.01	2R5	4	1	3,498,050:810	
1810	96	179	13:55:28.933	117GJ105A106B4AL	7STRP	0.0.0.020127,0.0	Slew =0.51	2R5	4	1	3,498,051:180	
1811	96	179	13:58:24.933	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,498,054:090	
1812	96	179	13:58:24.933		DMS:	:*US-RUNUP	R7, TRACK 3, FWD, TIC 4236.50 +/- 1	2R5	4	1	3,498,054:090	
1813	96	179	13:58:33.133		DMS:	:*RECORD	R7, TRACK 3, FWD, TIC *4238.20 +/- 1	2R5	4	1	3,498,054:213	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1814	96	179	13:58:53.600	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,498,054:52.0	
1815	96	179	13:58:53.600		DMS:	:*RUNDOWN	R7, TRACK 3, FWD, TIC *4242.99 +/- 1	2R5	4	1	3,498,054:52.0	
1816	96	179	13:58:55.000		DMS:	:*READY	RDY, TRACK 3, FWD, TIC *4243.05 +/- 1	2R5	4	1	3,498,054:54.1	
1817	96	179	14:00:02.266	117GJ105A106B4AM	7STRP	-0.004,-0.019775	Slew =17.01	2R5	4	1	3,498,055:64.0	
1818	96	179	14:00:20.933	117GJ105A106B4AN	7STRP	0.0,0.020127,0.0	Slew =-0.51	2R5	4	1	3,498,056:01.0	
1819	96	179	14:00:54.266	117GJ105A106B4AO	7STRP	-0.004,-0.019775	Slew =-0.51	2R5	4	1	3,498,060:47.0	
1820	96	179	14:05:12.933	117GJ105A106B4AP	7STRP	0.0,0.020127,0.0	Slew =0.51	2R5	4	1	3,498,060:75.0	
1821	96	179	14:09:46.266	117GJ105A106B4AQ	7STRP	-0.004,-0.019775	Slew =17.01	2R5	4	1	3,498,065:30.0	
1822	96	179	14:10:04.933	117GJ105A106B4AR	7STRP	0.0,0.020127,0.0	Slew =-0.51	2R5	4	1	3,498,065:58.0	
1823	96	179	14:12:48.933	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,498,068:31.0	
1824	96	179	14:12:57.133		DMS:	:*RECORDER	R7, TRACK 3, FWD, TIC *4244.75 +/- 2	2R5	4	1	3,498,068:43.3	
1825	96	179	14:13:17.600	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,498,068:74.0	
1826	96	179	14:13:17.600		DMS:	:*RUNDOWN	R7, TRACK 3, FWD, TIC *4249.55 +/- 2	2R5	4	1	3,498,068:74.0	
1827	96	179	14:13:19.000		DMS:	:*READY	RDY, TRACK 3, FWD, TIC *4249.61 +/- 2	2R5	4	1	3,498,068:76.1	
1828	96	179	14:14:38.266	117GJ105A106B4AS	7STRP	-0.004,-0.019775	Slew =17.01	2R5	4	1	3,498,070:13.0	
1829	96	179	14:14:56.933	117GJ105A106B4AT	7STRP	0.0,0.020127,0.0	Slew =0.51	2R5	4	1	3,498,070:41.0	
1830	96	179	14:19:30.266	117GJ105A106B4AU	7STRP	-0.004,-0.019775	Slew =17.01	2R5	4	1	3,498,074:87.0	
1831	96	179	14:19:48.933	117GJ105A106B4AV	7STRP	0.0,0.020127,0.0	Slew =0.51	2R5	4	1	3,498,075:24.0	
1832	96	179	14:19:48.933	117GJ105A106B4AV	7STRP	-0.004,-0.019775	Slew =17.01	2R5	4	1	3,498,079:70.0	
1833	96	179	14:24:22.266	117GJ105A106B4AW	7STRP	0.0,0.020127,0.0	Slew =-0.51	2R5	4	1	3,498,080:07.0	
1834	96	179	14:24:40.933	117GJ105A106B4AX	7STRP	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,498,082:54.0	
1835	96	179	14:27:13.600	50ZZ6XX	6DMSC	R7,0	DMS Control Tape stop	2R5	4	1	3,498,082:54.0	
1836	96	179	14:27:13.600		DMS:	:*US-RUNUP	R7, TRACK 3, FWD, TIC 4249.61 +/- 2	2R5	4	1	3,498,082:54.0	
1837	96	179	14:27:21.800		DMS:	:*RECORD	R7, TRACK 3, FWD, TIC *4251.30 +/- 2	2R5	4	1	3,498,082:66.3	
1838	96	179	14:27:42.266	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,498,083:06.0	
1839	96	179	14:27:42.266		DMS:	:*RUNDOWN	R7, TRACK 3, FWD, TIC *4256.10 +/- 2	2R5	4	1	3,498,083:06.0	
1840	96	179	14:27:43.666		DMS:	:*READY	RDY, TRACK 3, FWD, TIC *4256.16 +/- 2	2R5	4	1	3,498,083:08.1	
1841	96	179	14:29:14.266	117GJ105A106B4AY	7STRP	-0.004,-0.019775	Slew =17.01	2R5	4	1	3,498,084:53.0	
1842	96	179	14:29:32.933	117GJ105A106B4AZ	7STRP	0.0,0.020127,0.0	Slew =0.51	2R5	4	1	3,498,084:81.0	
1843	96	179	14:34:06.266	117GJ105A106B4BA	7STRP	-0.004,-0.019775	Slew =17.01	2R5	4	1	3,498,089:36.0	
1844	96	179	14:34:24.933	117GJ105A106B4BB	7STRP	0.0,0.020127,0.0	Slew =-0.51	2R5	4	1	3,498,089:64.0	
1845	96	179	14:38:58.266	117GJ105A106B4BC	7STRP	-0.004,-0.019775	Slew =17.01	2R5	4	1	3,498,094:19.0	
1846	96	179	14:39:16.933	117GJ105A106B4BD	7STRP	0.0,0.020127,0.0	Slew =-0.51	2R5	4	1	3,498,094:47.0	
1847	96	179	14:41:38.266	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,498,096:77.0	
1848	96	179	14:41:38.266		DMS:	:*US-RUNUP	R7, TRACK 3, FWD, TIC 4256.16 +/- 2	2R5	4	1	3,498,096:77.0	
1849	96	179	14:41:46.466		DMS:	:*RECORD	R7, TRACK 3, FWD, TIC *4257.85 +/- 2	2R5	4	1	3,498,096:89.3	
1850	96	179	14:42:06.933		DMS:	:*RUNDOWN	R7, TRACK 3, FWD, TIC *4262.65 +/- 2	2R5	4	1	3,498,097:29.0	
1851	96	179	14:42:06.933	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,498,097:29.0	
1852	96	179	14:42:08.333		DMS:	:*READY	RDY, TRACK 3, FWD, TIC *4262.71 +/- 2	2R5	4	1	3,498,097:31.1	
1853	96	179	14:43:50.266	117GJ105A106B4BE	7STRP	-0.004,-0.019775	Slew =17.01	2R5	4	1	3,498,099:02.0	
1854	96	179	14:44:08.933	117GJ105A106B4BF	7STRP	0.0,0.020127,0.0	Slew =-0.51	2R5	4	1	3,498,099:30.0	
1855	96	179	14:48:42.266	117GJ105A106B4BG	7STRP	-0.004,-0.019775	Slew =17.01	2R5	4	1	3,498,103:76.0	
1856	96	179	14:49:00.933	117GJ105A106B4BH	7STRP	0.0,0.020127,0.0	Slew =-0.51	2R5	4	1	3,498,104:13.0	
1857	96	179	14:53:34.266	117GJ105A106B4BI	7STRP	-0.004,-0.019775	Slew =17.01	2R5	4	1	3,498,108:59.0	
1858	96	179	14:53:52.933	117GJ105A106B4BJ	7STRP	0.0,0.020127,0.0	Slew =-0.51	2R5	4	1	3,498,108:87.0	
1859	96	179	14:56:02.933	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,498,111:09.0	
1860	96	179	14:56:02.933		DMS:	:*US-RUNUP	R7, TRACK 3, FWD, TIC 4262.71 +/- 2	2R5	4	1	3,498,111:09.0	
1861	96	179	14:56:11.133		DMS:	:*RECORD	R7, TRACK 3, FWD, TIC *4264.41 +/- 2	2R5	4	1	3,498,111:21.3	
1862	96	179	14:56:31.600		DMS:	:*RUNDOWN	R7, TRACK 3, FWD, TIC *4269.20 +/- 2	2R5	4	1	3,498,111:52.0	
1863	96	179	14:56:31.600	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,498,111:52.0	
1864	96	179	14:56:33.000		DMS:	:*READY	RDY, TRACK 3, FWD, TIC *4269.26 +/- 2	2R5	4	1	3,498,111:54.1	
1865	96	179	14:58:26.266	117GJ105A106B4BK	7STRP	-0.004,-0.019775	Slew =17.01	2R5	4	1	3,498,113:42.0	
1866	96	179	14:58:44.933	117GJ105A106B4BL	7STRP	0.0,0.020127,0.0	Slew =-0.51	2R5	4	1	3,498,113:70.0	
1867	96	179	15:03:18.266	117GJ105A106B4BM	7STRP	-0.004,-0.019775	Slew =17.01	2R5	4	1	3,498,118:25.0	
1868	96	179	15:03:36.933	117GJ105A106B4BN	7STRP	0.0,0.020127,0.0	Slew =-0.51	2R5	4	1	3,498,118:53.0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1869	96	179	15:08:10.266	117GJ105A106B4BO	7STRP	-0.004,-0.019775	Slew =17.01	2R5	4	1	3,498,123:08.0	
1870	96	179	15:08:28.933	117GJ105A106B4BP	7STRP	0.0,0.020127,0.0	Slew =0.51	2R5	4	1	3,498,123:36.0	
1871	96	179	15:10:27.600		DMS:	: *US-RUNUP	R7, TRACK 3, FWD, TIC 4269.26 +/- 2	2R5	4	1	3,498,125:32.0	
1872	96	179	15:10:27.600	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,498,125:32.0	
1873	96	179	15:10:35.800		DMS:	: *RECORD	R7, TRACK 3, FWD, TIC *4270.96 +/- 2	2R5	4	1	3,498,125:44:3	
1874	96	179	15:10:56.266		DMS:	: *RUNDOWN	R7, TRACK 3, FWD, TIC *4275.76 +/- 2	2R5	4	1	3,498,125:75.0	
1875	96	179	15:10:56.266	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,498,125:75.0	
1876	96	179	15:10:57.666		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *4275.82 +/- 2	2R5	4	1	3,498,125:77.1	
1877	96	179	15:13:02.266	117GJ105A106B4BQ	7STRP	-0.004,-0.019775	Slew =17.01	2R5	4	1	3,498,127:82.0	
1878	96	179	15:13:20.933	117GJ105A106B4BR	7STRP	0.0,0.020127,0.0	Slew =0.51	2R5	4	1	3,498,128:19.0	
1879	96	179	15:17:54.266	117GJ105A106B4BS	7STRP	-0.004,-0.019775	Slew =17.01	2R5	4	1	3,498,132:65.0	
1880	96	179	15:18:12.933	117GJ105A106B4BT	7STRP	0.0,0.020127,0.0	Slew =0.51	2R5	4	1	3,498,133:02.0	
1881	96	179	15:22:46.266	117GJ105A106B4BU	7STRP	-0.004,-0.019775	Slew =17.01	2R5	4	1	3,498,137:48.0	
1882	96	179	15:23:04.933	117GJ105A106B4BV	7STRP	0.0,0.020127,0.0	Slew =0.51	2R5	4	1	3,498,137:76.0	
1883	96	179	15:24:51.600		DMS:	: *US-RUNUP	R7, TRACK 3, FWD, TIC 4275.82 +/- 2	2R5	4	1	3,498,139:54.0	
1884	96	179	15:24:51.600	50ZZ6XX	6DMSC		DMS Control Tape runup 7.68kps	2R5	4	1	3,498,139:54.0	
1885	96	179	15:24:59.800		DMS:	: *RECORD	R7, TRACK 3, FWD, TIC *4277.51 +/- 2	2R5	4	1	3,498,139:66:3	
1886	96	179	15:25:20.266		DMS:	: *RUNDOWN	R7, TRACK 3, FWD, TIC *4282.31 +/- 2	2R5	4	1	3,498,140:06.0	
1887	96	179	15:25:20.266	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,498,140:06.0	
1888	96	179	15:25:21.666		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *4282.37 +/- 2	2R5	4	1	3,498,140:08.1	
1889	96	179	15:27:38.266	117GJ105A106B4BW	7STRP	-0.004,-0.019775	Slew =17.01	2R5	4	1	3,498,142:31.0	
1890	96	179	15:27:56.933	117GJ105A106B4BX	7STRP	0.0,0.020127,0.0	Slew =0.51	2R5	4	1	3,498,142:59.0	
1891	96	179	15:32:30.266	117GJ105A106B4BY	7STRP	-0.004,-0.019775	Slew =17.01	2R5	4	1	3,498,147:14.0	
1892	96	179	15:32:48.933	117GJ105A106B4BZ	7STRP	0.0,0.020127,0.0	Slew =0.51	2R5	4	1	3,498,147:42.0	
1893	96	179	15:37:22.266	117GJ105A106B4CA	7STRP	-0.004,-0.019775	Slew =17.01	2R5	4	1	3,498,151:88.0	
1894	96	179	15:37:40.933	117GJ105A106B4CB	7STRP	0.0,0.020127,0.0	Slew =0.51	2R5	4	1	3,498,152:25.0	
1895	96	179	15:39:16.266		DMS:	: *US-RUNUP	R7, TRACK 3, FWD, TIC 4282.37 +/- 2	2R5	4	1	3,498,153:77.0	
1896	96	179	15:39:16.266	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,498,153:77.0	
1897	96	179	15:39:24.466		DMS:	: *RECORD	R7, TRACK 3, FWD, TIC *4284.07 +/- 2	2R5	4	1	3,498,153:89:3	
1898	96	179	15:39:44.933	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,498,154:29.0	
1899	96	179	15:39:44.933		DMS:	: *RUNDOWN	R7, TRACK 3, FWD, TIC *4288.86 +/- 2	2R5	4	1	3,498,154:29.0	
1900	96	179	15:39:46.333		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *4288.92 +/- 2	2R5	4	1	3,498,154:31.1	
1901	96	179	15:42:14.266	117GJ105A106C4A	7STRP	-0.003,-0.020783	Slew =17.01	2R5	4	1	3,498,156:71.0	
1902	96	179	15:42:31.600	117GJ105A106C4B	7STRP	0.0,0.021034,0.0	Slew =0.51	2R5	4	1	3,498,157:06.0	
1903	96	179	15:45:33.600	117GJ105A106C4C	7STRP	-0.003,-0.020783	Slew =17.01	2R5	4	1	3,498,160:06.0	
1904	96	179	15:45:50.933	117GJ105A106C4D	7STRP	0.0,0.021034,0.0	Slew =0.51	2R5	4	1	3,498,160:32.0	
1905	96	179	15:48:52.933	117GJ105A106C4E	7STRP	-0.003,-0.020783	Slew =17.01	2R5	4	1	3,498,163:32.0	
1906	96	179	15:49:10.266	117GJ105A106C4F	7STRP	0.0,0.021034,0.0	Slew =0.51	2R5	4	1	3,498,163:58.0	
1907	96	179	15:52:12.266	117GJ105A106C4G	7STRP	-0.003,-0.020783	Slew =17.01	2R5	4	1	3,498,166:58.0	
1908	96	179	15:52:29.600	117GJ105A106C4H	7STRP	0.0,0.021034,0.0	Slew =0.51	2R5	4	1	3,498,166:84.0	
1909	96	179	15:53:40.933	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,498,168:09.0	
1910	96	179	15:53:40.933		DMS:	: *US-RUNUP	R7, TRACK 3, FWD, TIC 4288.92 +/- 2	2R5	4	1	3,498,168:09.0	
1911	96	179	15:53:49.133		DMS:	: *RECORD	R7, TRACK 3, FWD, TIC *4290.62 +/- 2	2R5	4	1	3,498,168:21.3	
1912	96	179	15:54:09.600	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,498,168:52.0	
1913	96	179	15:54:09.600		DMS:	: *RUNDOWN	R7, TRACK 3, FWD, TIC *4295.42 +/- 2	2R5	4	1	3,498,168:52.0	
1914	96	179	15:54:11.000		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *4295.48 +/- 2	2R5	4	1	3,498,168:54.1	
1915	96	179	15:55:31.600	117GJ105A106C4I	7STRP	-0.003,-0.020783	Slew =17.01	2R5	4	1	3,498,169:84.0	
1916	96	179	15:55:48.933	117GJ105A106C4J	7STRP	0.0,0.021034,0.0	Slew =0.51	2R5	4	1	3,498,170:19.0	
1917	96	179	15:58:50.933	117GJ105A106C4K	7STRP	-0.003,-0.020783	Slew =17.01	2R5	4	1	3,498,173:19.0	
1918	96	179	15:59:08.266	117GJ105A106C4L	7STRP	0.0,0.021034,0.0	Slew =0.51	2R5	4	1	3,498,173:45.0	
1919	96	179	16:02:10.266	117GJ105A106C4M	7STRP	-0.003,-0.020783	Slew =17.01	2R5	4	1	3,498,176:45.0	
1920	96	179	16:02:27.600	117GJ105A106C4N	7STRP	0.0,0.021034,0.0	Slew =0.51	2R5	4	1	3,498,176:71.0	
1921	96	179	16:05:29.600	117GJ105A106C4O	7STRP	-0.003,-0.020783	Slew =17.01	2R5	4	1	3,498,179:71.0	
1922	96	179	16:05:46.933	117GJ105A106C4P	7STRP	0.0,0.021034,0.0	Slew =0.51	2R5	4	1	3,498,180:06.0	
1923	96	179	16:08:05.600	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,498,182:32.0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1924	96	179	16:08:05.600		DMS:	: *US-RUNUP	R7, TRACK 3, FWD, TIC 4295.48 +/- 2	2R5	4	1	3,498,182:32.0	
1925	96	179	16:08:13.800		DMS:	: *RECORD	R7, TRACK 3, FWD, TIC *4297.17 +/- 2	2R5	4	1	3,498,182:44.3	
1926	96	179	16:08:34.266		DMS:	: *RUNDOWN	R7, TRACK 3, FWD, TIC *4301.97 +/- 2	2R5	4	1	3,498,182:75.0	
1927	96	179	16:08:34.266	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,498,182:75.0	
1928	96	179	16:08:35.666		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *4302.03 +/- 2	2R5	4	1	3,498,182:77.1	
1929	96	179	16:08:48.933	117GJ105A106C4Q	7STRP	-0.003,-0.020783	Slew =17.01	2R5	4	1	3,498,183:06.0	
1930	96	179	16:09:06.266	117GJ105A106C4R	7STRP	0.0.0.021034,0.0	Slew =0.51	2R5	4	1	3,498,183:32.0	
1931	96	179	16:12:08.266	117GJ105A106C4S	7STRP	-0.003,-0.020783	Slew =17.01	2R5	4	1	3,498,186:32.0	
1932	96	179	16:12:25.600	117GJ105A106C4T	7STRP	0.0.0.021034,0.0	Slew =0.51	2R5	4	1	3,498,186:58.0	
1933	96	179	16:15:27.600	117GJ105A106C4U	7STRP	-0.003,-0.020783	Slew =17.01	2R5	4	1	3,498,189:58.0	
1934	96	179	16:15:44.933	117GJ105A106C4V	7STRP	0.0.0.021034,0.0	Slew =0.51	2R5	4	1	3,498,189:84.0	
1935	96	179	16:18:46.933	117GJ105A106C4W	7STRP	-0.003,-0.020783	Slew =17.01	2R5	4	1	3,498,192:84.0	
1936	96	179	16:19:04.266	117GJ105A106C4X	7STRP	0.0.0.021034,0.0	Slew =0.51	2R5	4	1	3,498,193:19.0	
1937	96	179	16:22:06.266	117GJ105A106C4Y	7STRP	-0.003,-0.020783	Slew =17.01	2R5	4	1	3,498,196:19.0	
1938	96	179	16:22:23.600	117GJ105A106C4Z	7STRP	0.0.0.021034,0.0	Slew =0.51	2R5	4	1	3,498,196:45.0	
1939	96	179	16:22:30.266		DMS:	: *US-RUNUP	R7, TRACK 3, FWD, TIC 4302.03 +/- 2	2R5	4	1	3,498,196:55.0	
1940	96	179	16:22:30.266	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,498,196:55.0	
1941	96	179	16:22:38.466		DMS:	: *RECORD	R7, TRACK 3, FWD, TIC *4303.72 +/- 2	2R5	4	1	3,498,196:67.3	
1942	96	179	16:22:58.933		DMS:	: *RUNDOWN	R7, TRACK 3, FWD, TIC *4308.52 +/- 2	2R5	4	1	3,498,197:07.0	
1943	96	179	16:22:58.933	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,498,197:07.0	
1944	96	179	16:23:00.333		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *4308.58 +/- 2	2R5	4	1	3,498,197:09.1	
1945	96	179	16:25:25.600	117GJ105A106C4AA	7STRP	-0.003,-0.020783	Slew =17.01	2R5	4	1	3,498,199:45.0	
1946	96	179	16:25:42.933	117GJ105A106C4AB	7STRP	0.0.0.021034,0.0	Slew =0.51	2R5	4	1	3,498,199:71.0	
1947	96	179	16:28:44.933	117GJ105A106C4AC	7STRP	-0.003,-0.020783	Slew =17.01	2R5	4	1	3,498,202:71.0	
1948	96	179	16:29:02.266	117GJ105A106C4AD	7STRP	0.0.0.021034,0.0	Slew =0.51	2R5	4	1	3,498,203:06.0	
1949	96	179	16:30:00.266	488AR6A	6TMSD	NORM,AL4	Sci, Eng, and D/L Chan	2R5	4	1	3,498,204:02.0	
1950	96	179	16:32:04.266	117GJ105A106C4AE	7STRP	-0.003,-0.020783	Slew =17.01	2R5	4	1	3,498,206:06.0	
1951	96	179	16:32:21.600	117GJ105A106C4AF	7STRP	0.0.0.021034,0.0	Slew =0.51	2R5	4	1	3,498,206:32.0	
1952	96	179	16:35:23.600	117GJ105A106C4AG	7STRP	-0.003,-0.020783	Slew =17.01	2R5	4	1	3,498,209:32.0	
1953	96	179	16:35:40.933	117GJ105A106C4AH	7STRP	0.0.0.021034,0.0	Slew =0.51	2R5	4	1	3,498,209:58.0	
1954	96	179	16:36:54.266	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,498,210:77.0	
1955	96	179	16:36:54.266		DMS:	: *US-RUNUP	R7, TRACK 3, FWD, TIC 4308.58 +/- 2	2R5	4	1	3,498,210:77.0	
1956	96	179	16:37:02.466		DMS:	: *RECORD	R7, TRACK 3, FWD, TIC *4310.28 +/- 2	2R5	4	1	3,498,210:89.3	
1957	96	179	16:37:22.933	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,498,211:29.0	
1958	96	179	16:37:22.933		DMS:	: *RUNDOWN	R7, TRACK 3, FWD, TIC *4315.07 +/- 2	2R5	4	1	3,498,211:29.0	
1959	96	179	16:37:24.333		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *4315.13 +/- 2	2R5	4	1	3,498,211:31.1	
1960	96	179	16:38:42.933	117GJ105A106C4AI	7STRP	-0.003,-0.020783	Slew =17.01	2R5	4	1	3,498,212:58.0	
1961	96	179	16:39:00.266	117GJ105A106C4AJ	7STRP	0.0.0.021034,0.0	Slew =0.51	2R5	4	1	3,498,212:84.0	
1962	96	179	16:42:02.266	117GJ105A106C4AK	7STRP	-0.003,-0.020783	Slew =17.01	2R5	4	1	3,498,215:84.0	
1963	96	179	16:42:19.600	117GJ105A106C4AL	7STRP	0.0.0.021034,0.0	Slew =0.51	2R5	4	1	3,498,216:19.0	
1964	96	179	16:45:21.600	117GJ105A106C4AM	7STRP	-0.003,-0.020783	Slew =17.01	2R5	4	1	3,498,219:19.0	
1965	96	179	16:45:38.933	117GJ105A106C4AN	7STRP	0.0.0.021034,0.0	Slew =0.51	2R5	4	1	3,498,219:45.0	
1966	96	179	16:48:40.933	117GJ105A106C4AO	7STRP	-0.003,-0.020783	Slew =17.01	2R5	4	1	3,498,222:45.0	
1967	96	179	16:48:58.266	117GJ105A106C4AP	7STRP	0.0.0.021034,0.0	Slew =0.51	2R5	4	1	3,498,222:71.0	
1968	96	179	16:51:18.933		DMS:	: *US-RUNUP	R7, TRACK 3, FWD, TIC 4315.13 +/- 2	2R5	4	1	3,498,225:09.0	
1969	96	179	16:51:18.933	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,498,225:09.0	
1970	96	179	16:51:27.133		DMS:	: *RECORD	R7, TRACK 3, FWD, TIC *4316.83 +/- 2	2R5	4	1	3,498,225:21.3	
1971	96	179	16:51:47.600		DMS:	: *RUNDOWN	R7, TRACK 3, FWD, TIC *4321.63 +/- 2	2R5	4	1	3,498,225:52.0	
1972	96	179	16:51:47.600	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,498,225:52.0	
1973	96	179	16:51:49.000		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *4321.69 +/- 2	2R5	4	1	3,498,225:54.1	
1974	96	179	16:52:00.266	117GJ105A106C4AQ	7STRP	-0.003,-0.020783	Slew =17.01	2R5	4	1	3,498,225:71.0	
1975	96	179	16:52:17.600	117GJ105A106C4AR	7STRP	0.0.0.021034,0.0	Slew =0.51	2R5	4	1	3,498,226:06.0	
1976	96	179	16:55:19.600	117GJ105A106C4AS	7STRP	-0.003,-0.020783	Slew =17.01	2R5	4	1	3,498,229:06.0	
1977	96	179	16:55:36.933	117GJ105A106C4AT	7STRP	0.0.0.021034,0.0	Slew =0.51	2R5	4	1	3,498,229:32.0	
1978	96	179	16:58:38.933	117GJ105A106C4AU	7STRP	-0.003,-0.020783	Slew =17.01	2R5	4	1	3,498,232:32.0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1979	96	179	16:58:56.266	117GJ105A106C4AV	7STRP	0.0.0.021034.0.0	Slew = 0.51	2R5	4	1	3,498,232:58.0	
1980	96	179	17:01:58.266	117GJ105A106C4AW	7STRP	-0.003.-0.020783	Slew = 17.01	2R5	4	1	3,498,235:58.0	
1981	96	179	17:02:15.600	117GJ105A106C4AX	7STRP	0.0.0.021034.0.0	Slew = 0.51	2R5	4	1	3,498,235:84.0	
1982	96	179	17:05:17.600	117GJ105A106C4AY	7STRP	-0.003.-0.020783	Slew = 17.01	2R5	4	1	3,498,238:84.0	
1983	96	179	17:05:34.933	117GJ105A106C4AZ	7STRP	0.0.0.021034.0.0	Slew = 0.51	2R5	4	1	3,498,239:19.0	
1984	96	179	17:05:43.600		DMS:	:*US-RUNUP	R7, TRACK 3, FWD, TIC 4321.69 +/- 2	2R5	4	1	3,498,239:32.0	
1985	96	179	17:05:43.600	50ZZ6XX	6DMSC	R7.0	DMS Control Tape runup 7.68kps	2R5	4	1	3,498,239:32.0	
1986	96	179	17:05:51.800		DMS:	:*RECORD	R7, TRACK 3, FWD, TIC *4323.38 +/- 2	2R5	4	1	3,498,239:44.3	
1987	96	179	17:06:12.266		DMS:	:*RUNDOWN	R7, TRACK 3, FWD, TIC *4328.18 +/- 2	2R5	4	1	3,498,239:75.0	
1988	96	179	17:06:12.266	50ZZ6RE	6DMSC	RDY.0	DMS Control Tape stop	2R5	4	1	3,498,239:75.0	
1989	96	179	17:06:13.666		DMS:	:*READY	RDY, TRACK 3, FWD, TIC *4328.24 +/- 2	2R5	4	1	3,498,239:77.1	
1990	96	179	17:08:36.933	117GJ105A106C4BA	7STRP	-0.003.-0.020783	Slew = 17.01	2R5	4	1	3,498,242:19.0	
1991	96	179	17:08:54.266	117GJ105A106C4BB	7STRP	0.0.0.021034.0.0	Slew = 0.51	2R5	4	1	3,498,242:45.0	
1992	96	179	17:11:56.266	117GJ105A106C4BC	7STRP	-0.003.-0.020783	Slew = 17.01	2R5	4	1	3,498,245:45.0	
1993	96	179	17:12:13.600	117GJ105A106C4BD	7STRP	0.0.0.021034.0.0	Slew = 0.51	2R5	4	1	3,498,245:71.0	
1994	96	179	17:15:15.600	117GJ105A106C4BE	7STRP	-0.003.-0.020783	Slew = 17.01	2R5	4	1	3,498,248:71.0	
1995	96	179	17:15:32.933	117GJ105A106C4BF	7STRP	0.0.0.021034.0.0	Slew = 0.51	2R5	4	1	3,498,249:06.0	
1996	96	179	17:18:34.933	117GJ105A106C4BG	7STRP	-0.003.-0.020783	Slew = 17.01	2R5	4	1	3,498,252:06.0	
1997	96	179	17:18:52.266	117GJ105A106C4BH	7STRP	0.0.0.021034.0.0	Slew = 0.51	2R5	4	1	3,498,252:32.0	
1998	96	179	17:20:08.266		DMS:	:*US-RUNUP	R7, TRACK 3, FWD, TIC 4328.24 +/- 2	2R5	4	1	3,498,253:55.0	
1999	96	179	17:20:08.266	50ZZ6XX	6DMSC	R7.0	DMS Control Tape runup 7.68kps	2R5	4	1	3,498,253:55.0	
2000	96	179	17:20:16.466		DMS:	:*RECORD	R7, TRACK 3, FWD, TIC *4329.94 +/- 2	2R5	4	1	3,498,253:67.3	
2001	96	179	17:20:36.933		DMS:	:*RUNDOWN	R7, TRACK 3, FWD, TIC *4334.73 +/- 2	2R5	4	1	3,498,254:07.0	
2002	96	179	17:20:36.933	50ZZ6RD	6DMSC	RDY.0	DMS Control Tape stop	2R5	4	1	3,498,254:07.0	
2003	96	179	17:20:38.333		DMS:	:*READY	RDY, TRACK 3, FWD, TIC *4334.79 +/- 2	2R5	4	1	3,498,254:09.1	
2004	96	179	17:21:54.266	117GJ105A106C4BI	7STRP	-0.003.-0.020783	Slew = 17.01	2R5	4	1	3,498,255:32.0	
2005	96	179	17:22:11.600	117GJ105A106C4BJ	7STRP	0.0.0.021034.0.0	Slew = 0.51	2R5	4	1	3,498,255:58.0	
2006	96	179	17:25:13.600	117GJ105A106C4BK	7STRP	-0.003.-0.020783	Slew = 17.01	2R5	4	1	3,498,258:58.0	
2007	96	179	17:25:30.933	117GJ105A106C4BL	7STRP	0.0.0.021034.0.0	Slew = 0.51	2R5	4	1	3,498,258:84.0	
2008	96	179	17:28:32.933	117GJ105A106C4BM	7STRP	-0.003.-0.020783	Slew = 17.01	2R5	4	1	3,498,261:84.0	
2009	96	179	17:28:50.266	117GJ105A106C4BN	7STRP	0.0.0.021034.0.0	Slew = 0.51	2R5	4	1	3,498,262:19.0	
2010	96	179	17:31:52.266	117GJ105A106C4BO	7STRP	-0.003.-0.020783	Slew = 17.01	2R5	4	1	3,498,265:19.0	
2011	96	179	17:32:09.600	117GJ105A106C4BP	7STRP	0.0.0.021034.0.0	Slew = 0.51	2R5	4	1	3,498,265:45.0	
2012	96	179	17:34:32.933		DMS:	R7.0	DMS Control Tape runup 7.68kps	2R5	4	1	3,498,267:78.0	
2013	96	179	17:34:32.933		DMS:	:*US-RUNUP	R7, TRACK 3, FWD, TIC 4334.79 +/- 2	2R5	4	1	3,498,267:78.0	
2014	96	179	17:34:41.133		DMS:	:*RECORD	R7, TRACK 3, FWD, TIC *4336.49 +/- 2	2R5	4	1	3,498,267:90.3	
2015	96	179	17:35:01.600	50ZZ6RE	6DMSC	RDY.0	DMS Control Tape stop	2R5	4	1	3,498,268:30.0	
2016	96	179	17:35:01.600		DMS:	:*RUNDOWN	R7, TRACK 3, FWD, TIC *4341.29 +/- 2	2R5	4	1	3,498,268:30.0	
2017	96	179	17:35:03.000		DMS:	:*READY	RDY, TRACK 3, FWD, TIC *4341.35 +/- 2	2R5	4	1	3,498,268:32.1	
2018	96	179	17:35:11.600	117GJ105A106D4A	7STRP	-0.00275.-0.0208	Slew = 17.01	2R5	4	1	3,498,268:45.0	
2019	96	179	17:35:28.933	117GJ105A106D4B	7STRP	0.0.0.021019.0.0	Slew = 0.51	2R5	4	1	3,498,268:71.0	
2020	96	179	17:38:28.933	117GJ105A106D4C	7STRP	-0.00275.-0.0208	Slew = 17.01	2R5	4	1	3,498,271:68.0	
2021	96	179	17:38:46.266	117GJ105A106D4D	7STRP	0.0.0.021019.0.0	Slew = 0.51	2R5	4	1	3,498,272:03.0	
2022	96	179	17:41:46.266	117GJ105A106D4E	7STRP	-0.00275.-0.0208	Slew = 17.01	2R5	4	1	3,498,275:00.0	
2023	96	179	17:42:03.600	117GJ105A106D4F	7STRP	0.0.0.021019.0.0	Slew = 0.51	2R5	4	1	3,498,275:26.0	
2024	96	179	17:45:03.600	117GJ105A106D4G	7STRP	-0.00275.-0.0208	Slew = 17.01	2R5	4	1	3,498,278:23.0	
2025	96	179	17:45:20.933	117GJ105A106D4H	7STRP	0.0.0.021019.0.0	Slew = 0.51	2R5	4	1	3,498,278:49.0	
2026	96	179	17:48:20.933	117GJ105A106D4I	7STRP	-0.00275.-0.0208	Slew = 17.01	2R5	4	1	3,498,281:46.0	
2027	96	179	17:48:38.266	117GJ105A106D4J	7STRP	0.0.0.021019.0.0	Slew = 0.51	2R5	4	1	3,498,281:72.0	
2028	96	179	17:48:56.933	50ZZ6XX	6DMSC	R7.0	DMS Control Tape runup 7.68kps	2R5	4	1	3,498,282:09.0	
2029	96	179	17:48:56.933		DMS:	:*US-RUNUP	R7, TRACK 3, FWD, TIC 4341.35 +/- 2	2R5	4	1	3,498,282:09.0	
2030	96	179	17:49:05.133		DMS:	:*RECORD	R7, TRACK 3, FWD, TIC *4343.04 +/- 2	2R5	4	1	3,498,282:21.3	
2031	96	179	17:49:25.600	50ZZ6RD	6DMSC	RDY.0	DMS Control Tape stop	2R5	4	1	3,498,282:52.0	
2032	96	179	17:49:25.600		DMS:	:*RUNDOWN	R7, TRACK 3, FWD, TIC *4347.84 +/- 2	2R5	4	1	3,498,282:52.0	
2033	96	179	17:49:27.000		DMS:	:*READY	RDY, TRACK 3, FWD, TIC *4347.90 +/- 2	2R5	4	1	3,498,282:54.1	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2034	96	179	17:51:38.266	117GJ105A106D4K	7STRP	-0.00275,-0.0208	Slew =17.01	2R5	4	1	3,498,284:690	
2035	96	179	17:51:55.600	117GJ105A106D4L	7STRP	0.0.0.021019,0.0	Slew =0.51	2R5	4	1	3,498,285:040	
2036	96	179	17:54:55.600	117GJ105A106D4M	7STRP	-0.00275,-0.0208	Slew =17.01	2R5	4	1	3,498,288:010	
2037	96	179	17:55:12.933	117GJ105A106D4N	7STRP	0.0.0.021019,0.0	Slew =0.51	2R5	4	1	3,498,288:270	
2038	96	179	17:58:12.933	117GJ105A106D4O	7STRP	-0.00275,-0.0208	Slew =17.01	2R5	4	1	3,498,291:240	
2039	96	179	17:58:30.266	117GJ105A106D4P	7STRP	0.0.0.021019,0.0	Slew =0.51	2R5	4	1	3,498,291:500	
2040	96	179	17:59:31.600	488AR6B	6TMSED	NORMAL3	Sci, Eng, and D/L Chan	2R5	4	1	3,498,292:510	
2041	96	179	18:01:30.266	117GJ105A106D4Q	7STRP	-0.00275,-0.0208	Slew =17.01	2R5	4	1	3,498,294:470	
2042	96	179	18:01:47.600	117GJ105A106D4R	7STRP	0.0.0.021019,0.0	Slew =0.51	2R5	4	1	3,498,294:730	
2043	96	179	18:03:21.600	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,498,296:320	
2044	96	179	18:03:21.600		DMS:	:*US-RUNUP	R7, TRACK 3, FWD, TIC 4347.90 +/- 2	2R5	4	1	3,498,296:320	
2045	96	179	18:03:29.800		DMS:	:*RECORD	R7, TRACK 3, FWD, TIC *4349.59 +/- 2	2R5	4	1	3,498,296:443	
2046	96	179	18:03:50.266	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,498,296:750	
2047	96	179	18:03:50.266		DMS:	:*RUNDOWN	R7, TRACK 3, FWD, TIC *4354.39 +/- 2	2R5	4	1	3,498,296:750	
2048	96	179	18:03:51.666		DMS:	:*READY	RDY, TRACK 3, FWD, TIC *4354.45 +/- 2	2R5	4	1	3,498,296:771	
2049	96	179	18:04:47.600	117GJ105A106D4S	7STRP	-0.00275,-0.0208	Slew =17.01	2R5	4	1	3,498,297:700	
2050	96	179	18:05:04.933	117GJ105A106D4T	7STRP	0.0.0.021019,0.0	Slew =0.51	2R5	4	1	3,498,298:050	
2051	96	179	18:08:04.933	117GJ105A106D4U	7STRP	-0.00275,-0.0208	Slew =17.01	2R5	4	1	3,498,301:020	
2052	96	179	18:08:22.266	117GJ105A106D4V	7STRP	0.0.0.021019,0.0	Slew =0.51	2R5	4	1	3,498,301:280	
2053	96	179	18:11:22.266	117GJ105A106D4W	7STRP	-0.00275,-0.0208	Slew =17.01	2R5	4	1	3,498,304:250	
2054	96	179	18:11:39.600	117GJ105A106D4X	7STRP	0.0.0.021019,0.0	Slew =0.51	2R5	4	1	3,498,304:510	
2055	96	179	18:14:39.600	117GJ105A106D4Y	7STRP	-0.00275,-0.0208	Slew =17.01	2R5	4	1	3,498,307:480	
2056	96	179	18:14:56.933	117GJ105A106D4Z	7STRP	0.0.0.021019,0.0	Slew =0.51	2R5	4	1	3,498,307:740	
2057	96	179	18:17:46.266	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,498,310:550	
2058	96	179	18:17:46.266		DMS:	:*US-RUNUP	R7, TRACK 3, FWD, TIC 4354.45 +/- 2	2R5	4	1	3,498,310:550	
2059	96	179	18:17:54.466		DMS:	:*RECORD	R7, TRACK 3, FWD, TIC *4356.15 +/- 2	2R5	4	1	3,498,310:673	
2060	96	179	18:17:56.933	117GJ105A106D4AA	7STRP	-0.00275,-0.0208	Slew =17.01	2R5	4	1	3,498,310:710	
2061	96	179	18:18:14.266	117GJ105A106D4AB	7STRP	0.0.0.021019,0.0	Slew =0.51	2R5	4	1	3,498,311:060	
2062	96	179	18:18:14.933	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,498,311:070	
2063	96	179	18:18:14.933		DMS:	:*RUNDOWN	R7, TRACK 3, FWD, TIC *4360.94 +/- 2	2R5	4	1	3,498,311:070	
2064	96	179	18:18:16.333		DMS:	:*READY	RDY, TRACK 3, FWD, TIC *4361.00 +/- 2	2R5	4	1	3,498,311:091	
2065	96	179	18:21:14.266	117GJ105A106D4AC	7STRP	-0.00275,-0.0208	Slew =17.01	2R5	4	1	3,498,314:030	
2066	96	179	18:21:31.600	117GJ105A106D4AD	7STRP	0.0.0.021019,0.0	Slew =0.51	2R5	4	1	3,498,314:290	
2067	96	179	18:24:31.600	117GJ105A106D4AE	7STRP	-0.00275,-0.0208	Slew =17.01	2R5	4	1	3,498,317:260	
2068	96	179	18:24:48.933	117GJ105A106D4AF	7STRP	0.0.0.021019,0.0	Slew =0.51	2R5	4	1	3,498,317:520	
2069	96	179	18:27:48.933	117GJ105A106D4AG	7STRP	-0.00275,-0.0208	Slew =17.01	2R5	4	1	3,498,320:490	
2070	96	179	18:28:06.266	117GJ105A106D4AH	7STRP	0.0.0.021019,0.0	Slew =0.51	2R5	4	1	3,498,320:750	
2071	96	179	18:31:06.266	117GJ105A106D4AI	7STRP	-0.00275,-0.0208	Slew =17.01	2R5	4	1	3,498,323:720	
2072	96	179	18:31:23.600	117GJ105A106D4AJ	7STRP	0.0.0.021019,0.0	Slew =0.51	2R5	4	1	3,498,324:070	
2073	96	179	18:32:10.933	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,498,324:780	
2074	96	179	18:32:10.933		DMS:	:*US-RUNUP	R7, TRACK 3, FWD, TIC 4361.00 +/- 2	2R5	4	1	3,498,324:780	
2075	96	179	18:32:19.133		DMS:	:*RECORD	R7, TRACK 3, FWD, TIC *4362.70 +/- 2	2R5	4	1	3,498,324:903	
2076	96	179	18:32:39.600		DMS:	:*RUNDOWN	R7, TRACK 3, FWD, TIC *4367.50 +/- 2	2R5	4	1	3,498,325:300	
2077	96	179	18:32:39.600	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,498,325:300	
2078	96	179	18:32:41.000		DMS:	:*READY	RDY, TRACK 3, FWD, TIC *4367.56 +/- 2	2R5	4	1	3,498,325:321	
2079	96	179	18:34:23.600	117GJ105A106D4AK	7STRP	-0.00275,-0.0208	Slew =17.01	2R5	4	1	3,498,327:040	
2080	96	179	18:34:40.933	117GJ105A106D4AL	7STRP	0.0.0.021019,0.0	Slew =0.51	2R5	4	1	3,498,327:300	
2081	96	179	18:37:40.933	117GJ105A106D4AM	7STRP	-0.00275,-0.0208	Slew =17.01	2R5	4	1	3,498,330:270	
2082	96	179	18:37:58.266	117GJ105A106D4AN	7STRP	0.0.0.021019,0.0	Slew =0.51	2R5	4	1	3,498,330:530	
2083	96	179	18:40:58.266	117GJ105A106D4AO	7STRP	-0.00275,-0.0208	Slew =17.01	2R5	4	1	3,498,333:500	
2084	96	179	18:41:15.600	117GJ105A106D4AP	7STRP	0.0.0.021019,0.0	Slew =0.51	2R5	4	1	3,498,333:760	
2085	96	179	18:44:15.600	117GJ105A106D4AQ	7STRP	-0.00275,-0.0208	Slew =17.01	2R5	4	1	3,498,336:730	
2086	96	179	18:44:32.933	117GJ105A106D4AR	7STRP	0.0.0.021019,0.0	Slew =0.51	2R5	4	1	3,498,337:080	
2087	96	179	18:46:35.600		DMS:	:*US-RUNUP	R7, TRACK 3, FWD, TIC 4367.56 +/- 2	2R5	4	1	3,498,339:100	
2088	96	179	18:46:35.600	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,498,339:100	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2089	96	179	18:46:43.800		DMS:	:*RECORD	R7, TRACK 3, FWD, TIC *4369.25 +/- 2	2R5	4	1	3,498,339:22:3	
2090	96	179	18:47:04.266	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,498,339:53:0	
2091	96	179	18:47:04.266		DMS:	:*RUNDOWN	R7, TRACK 3, FWD, TIC *4374.05 +/- 2	2R5	4	1	3,498,339:53:0	
2092	96	179	18:47:05.666		DMS:	:*READY	RDY, TRACK 3, FWD, TIC *4374.11 +/- 2	2R5	4	1	3,498,339:55:1	
2093	96	179	18:47:32.933	117GJ105A106D4AS	7STRP	-0.00275,-0.0208	Slew =17.01	2R5	4	1	3,498,340:05:0	
2094	96	179	18:47:50.266	117GJ105A106D4AT	7STRP	0.0.0.021019,0.0		2R5	4	1	3,498,340:31:0	
2095	96	179	18:50:50.266	117GJ105A106D4AU	7STRP	-0.00275,-0.0208	Slew =17.01	2R5	4	1	3,498,343:28:0	
2096	96	179	18:51:07.600	117GJ105A106D4AV	7STRP	0.0.0.021019,0.0		2R5	4	1	3,498,343:54:0	
2097	96	179	18:54:07.600	117GJ105A106D4AW	7STRP	-0.00275,-0.0208	Slew =17.01	2R5	4	1	3,498,346:51:0	
2098	96	179	18:54:24.933	117GJ105A106D4AX	7STRP	0.0.0.021019,0.0		2R5	4	1	3,498,346:77:0	
2099	96	179	18:57:24.933	117GJ105A106D4AY	7STRP	-0.00275,-0.0208	Slew =17.01	2R5	4	1	3,498,349:74:0	
2100	96	179	18:57:42.266	117GJ105A106D4AZ	7STRP	0.0.0.021019,0.0	Slew =0.51	2R5	4	1	3,498,350:09:0	
2101	96	179	19:00:42.266	117GJ105A106D4BA	7STRP	-0.00275,-0.0208	Slew =17.01	2R5	4	1	3,498,353:06:0	
2102	96	179	19:00:59.600	117GJ105A106D4BB	7STRP	0.0.0.021019,0.0	Slew =0.51	2R5	4	1	3,498,353:32:0	
2103	96	179	19:00:59.600	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,498,353:32:0	
2104	96	179	19:00:59.600		DMS:	:*US-RUNUP	R7, TRACK 3, FWD, TIC 4374.11 +/- 2	2R5	4	1	3,498,353:32:0	
2105	96	179	19:01:07.800		DMS:	:*RECORD	R7, TRACK 3, FWD, TIC *4375.81 +/- 2	2R5	4	1	3,498,353:44:3	
2106	96	179	19:01:28.266		DMS:	:*RUNDOWN	R7, TRACK 3, FWD, TIC *4380.60 +/- 2	2R5	4	1	3,498,353:75:0	
2107	96	179	19:01:28.266	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,498,353:75:0	
2108	96	179	19:01:29.666		DMS:	:*READY	RDY, TRACK 3, FWD, TIC *4380.66 +/- 2	2R5	4	1	3,498,353:77:1	
2109	96	179	19:03:59.600	117GJ105A106D4BC	7STRP	-0.00275,-0.0208	Slew =17.01	2R5	4	1	3,498,356:29:0	
2110	96	179	19:04:16.933	117GJ105A106D4BD	7STRP	0.0.0.021019,0.0	Slew =0.51	2R5	4	1	3,498,356:55:0	
2111	96	179	19:07:16.933	117GJ105A106D4BE	7STRP	-0.00275,-0.0208	Slew =17.01	2R5	4	1	3,498,359:52:0	
2112	96	179	19:07:34.266	117GJ105A106D4BF	7STRP	0.0.0.021019,0.0	Slew =0.51	2R5	4	1	3,498,359:78:0	
2113	96	179	19:10:34.266	117GJ105A106D4BG	7STRP	-0.00275,-0.0208	Slew =17.01	2R5	4	1	3,498,362:75:0	
2114	96	179	19:10:51.600	117GJ105A106D4BH	7STRP	0.0.0.021019,0.0	Slew =0.51	2R5	4	1	3,498,363:10:0	
2115	96	179	19:13:51.600	117GJ105A106D4BI	7STRP	-0.00275,-0.0208	Slew =17.01	2R5	4	1	3,498,366:07:0	
2116	96	179	19:14:09.933	117GJ105A106D4BJ	7STRP	0.0.0.021019,0.0	Slew =0.51	2R5	4	1	3,498,366:33:0	
2117	96	179	19:15:24.266		DMS:	:*US-RUNUP	R7, TRACK 3, FWD, TIC 4380.66 +/- 2	2R5	4	1	3,498,367:55:0	
2118	96	179	19:15:24.266	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,498,367:55:0	
2119	96	179	19:15:32.466		DMS:	:*RECORD	R7, TRACK 3, FWD, TIC *4382.36 +/- 2	2R5	4	1	3,498,367:67:3	
2120	96	179	19:15:52.933		DMS:	:*RUNDOWN	R7, TRACK 3, FWD, TIC *4387.16 +/- 2	2R5	4	1	3,498,368:07:0	
2121	96	179	19:15:52.933	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,498,368:07:0	
2122	96	179	19:15:54.333		DMS:	:*READY	RDY, TRACK 3, FWD, TIC *4387.22 +/- 2	2R5	4	1	3,498,368:09:1	
2123	96	179	19:17:08.933	117GJ105A106D4BK	7STRP	-0.00275,-0.0208	Slew =17.01	2R5	4	1	3,498,369:30:0	
2124	96	179	19:17:26.266	117GJ105A106D4BL	7STRP	0.0.0.021019,0.0	Slew =0.51	2R5	4	1	3,498,369:56:0	
2125	96	179	19:20:26.266	117GJ105A106D4BM	7STRP	-0.00275,-0.0208	Slew =17.01	2R5	4	1	3,498,372:53:0	
2126	96	179	19:20:43.600	117GJ105A106D4BN	7STRP	0.0.0.021019,0.0	Slew =0.51	2R5	4	1	3,498,372:79:0	
2127	96	179	19:23:43.600	117GJ105A106D4BO	7STRP	-0.00275,-0.0208	Slew =17.01	2R5	4	1	3,498,375:76:0	
2128	96	179	19:24:00.933	117GJ105A106D4BP	7STRP	0.0.0.021019,0.0	Slew =0.51	2R5	4	1	3,498,376:11:0	
2129	96	179	19:27:00.933	117GJ105A106D4BQ	7STRP	-0.00275,-0.0208	Slew =17.01	2R5	4	1	3,498,379:08:0	
2130	96	179	19:27:18.266	117GJ105A106D4BR	7STRP	0.0.0.021019,0.0	Slew =0.51	2R5	4	1	3,498,379:34:0	
2131	96	179	19:29:07.600	488AR6C	6TMSED	NORMAL2	Sci. Eng. and D/L Chan	2R5	4	1	3,498,381:16:0	
2132	96	179	19:29:48.933		DMS:	:*US-RUNUP	R7, TRACK 3, FWD, TIC 4387.22 +/- 2	2R5	4	1	3,498,381:78:0	
2133	96	179	19:29:48.933	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,498,381:78:0	
2134	96	179	19:29:57.133		DMS:	:*RECORD	R7, TRACK 3, FWD, TIC *4388.91 +/- 2	2R5	4	1	3,498,381:90:3	
2135	96	179	19:30:17.600	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,498,382:30:0	
2136	96	179	19:30:17.600		DMS:	:*RUNDOWN	R7, TRACK 3, FWD, TIC *4393.71 +/- 2	2R5	4	1	3,498,382:30:0	
2137	96	179	19:30:18.266	117GJ105A106D4BS	7STRP	-0.00275,-0.0208	Slew =17.01	2R5	4	1	3,498,382:31:0	
2138	96	179	19:30:19.000		DMS:	:*READY	RDY, TRACK 3, FWD, TIC *4393.77 +/- 2	2R5	4	1	3,498,382:32:1	
2139	96	179	19:30:35.600	117GJ105A106D4BT	7STRP	0.0.0.021019,0.0	Slew =0.51	2R5	4	1	3,498,382:57:0	
2140	96	179	19:33:35.600	117GJ105A106D4BU	7STRP	-0.00275,-0.0208	Slew =17.01	2R5	4	1	3,498,385:54:0	
2141	96	179	19:33:52.933	117GJ105A106D4BV	7STRP	0.0.0.021019,0.0	Slew =0.51	2R5	4	1	3,498,385:80:0	
2142	96	179	19:36:52.933	117GJ105A106D4BW	7STRP	-0.00275,-0.0208	Slew =17.01	2R5	4	1	3,498,388:77:0	
2143	96	179	19:37:10.266	117GJ105A106D4BX	7STRP	0.0.0.021019,0.0	Slew =0.51	2R5	4	1	3,498,389:12:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2144	96	179	19:40:10.266	117GJ105A106D4BY	7STRP	-0.00275,-0.0208	Slew =17.01	2R5	4	1	3,498,392:09.0	
2145	96	179	19:40:27.600	117GJ105A106D4BZ	7STRP	0.0.0.021019,0.0	Slew =0.51	2R5	4	1	3,498,392:35.0	
2146	96	179	19:43:27.600	117GJ105A106D4CA	7STRP	-0.00275,-0.0208	Slew =17.01	2R5	4	1	3,498,395:32.0	
2147	96	179	19:43:44.933	117GJ105A106D4CB	7STRP	0.0.0.021019,0.0	Slew =0.51	2R5	4	1	3,498,395:58.0	
2148	96	179	19:44:13.600	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,498,396:10.0	
2149	96	179	19:44:13.600		DMS:	:*US-RUNUP	R7, TRACK 3, FWD, TIC 4393.77 +/- 2	2R5	4	1	3,498,396:10.0	
2150	96	179	19:44:21.800		DMS:	:*RECORD	R7, TRACK 3, FWD, TIC *4395.46 +/- 2	2R5	4	1	3,498,396:22.3	
2151	96	179	19:44:42.266	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,498,396:53.0	
2152	96	179	19:44:42.266		DMS:	:*RUNDOWN	R7, TRACK 3, FWD, TIC *4400.26 +/- 2	2R5	4	1	3,498,396:53.0	
2153	96	179	19:44:43.666		DMS:	:*READY	RDY, TRACK 3, FWD, TIC *4400.32 +/- 2	2R5	4	1	3,498,396:55.1	
2154	96	179	19:46:44.933	117GJ105A106D4CC	7STRP	-0.00275,-0.0208	Slew =17.01	2R5	4	1	3,498,398:55.0	
2155	96	179	19:47:02.266	117GJ105A106D4CD	7STRP	0.0.0.021019,0.0	Slew =0.51	2R5	4	1	3,498,398:81.0	
2156	96	179	19:48:30.266	488AR6D	6TMSED	FILL,AL2	Sci. Eng. and D/L Chan	2R5	4	1	3,498,400:31.0	
2157	96	179	19:50:02.266	117GJ105A106D4CE	7STRP	-0.00275,-0.0208	Slew =17.01	2R5	4	1	3,498,401:78.0	
2158	96	179	19:50:19.600	117GJ105A106D4CF	7STRP	0.0.0.021019,0.0	Slew =0.51	2R5	4	1	3,498,402:13.0	
2159	96	179	19:53:19.600	117GJ105A106D4CG	7STRP	-0.00275,-0.0208	Slew =17.01	2R5	4	1	3,498,405:10.0	
2160	96	179	19:53:36.933	117GJ105A106D4CH	7STRP	0.0.0.021019,0.0	Slew =0.51	2R5	4	1	3,498,405:36.0	
2161	96	179	19:56:36.933	117GJ105A106D4CI	7STRP	-0.00275,-0.0208	Slew =17.01	2R5	4	1	3,498,408:33.0	
2162	96	179	19:56:54.266	117GJ105A106D4CJ	7STRP	0.0.0.021019,0.0	Slew =0.51	2R5	4	1	3,498,408:59.0	
2163	96	179	19:58:38.266	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,498,410:33.0	
2164	96	179	19:58:38.266		DMS:	:*US-RUNUP	R7, TRACK 3, FWD, TIC 4400.32 +/- 2	2R5	4	1	3,498,410:33.0	
2165	96	179	19:58:46.466		DMS:	:*RECORD	R7, TRACK 3, FWD, TIC *4402.02 +/- 2	2R5	4	1	3,498,410:45.3	
2166	96	179	19:59:06.933		DMS:	:*RUNDOWN	R7, TRACK 3, FWD, TIC *4406.81 +/- 2	2R5	4	1	3,498,410:76.0	
2167	96	179	19:59:06.933	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,498,410:76.0	
2168	96	179	19:59:08.333		DMS:	:*READY	RDY, TRACK 3, FWD, TIC *4406.87 +/- 2	2R5	4	1	3,498,410:78.1	
2169	96	179	19:59:54.266	117GJ105A106D4CK	7STRP	-0.00275,-0.0208	Slew =17.01	2R5	4	1	3,498,411:56.0	
2170	96	179	20:00:11.600	117GJ105A106D4CL	7STRP	0.0.0.021019,0.0	Slew =0.51	2R5	4	1	3,498,411:82.0	
2171	96	179	20:03:11.600	117GJ105A106D4CM	7STRP	-0.00275,-0.0208	Slew =17.01	2R5	4	1	3,498,414:79.0	
2172	96	179	20:03:28.933	117GJ105A106D4CN	7STRP	0.0.0.021019,0.0	Slew =0.51	2R5	4	1	3,498,415:14.0	
2173	96	179	20:06:28.933	117GJ105A106D4CO	7STRP	-0.00275,-0.0208	Slew =17.01	2R5	4	1	3,498,418:11.0	
2174	96	179	20:06:46.266	117GJ105A106D4CP	7STRP	0.0.0.021019,0.0	Slew =0.51	2R5	4	1	3,498,418:37.0	
2175	96	179	20:09:46.266	117GJ105A106D4CQ	7STRP	-0.00275,-0.0208	Slew =17.01	2R5	4	1	3,498,421:34.0	
2176	96	179	20:10:03.600	117GJ105A106D4CR	7STRP	0.0.0.021019,0.0	Slew =0.51	2R5	4	1	3,498,421:60.0	
2177	96	179	20:13:02.266		DMS:	:*US-RUNUP	R7, TRACK 3, FWD, TIC 4406.87 +/- 2	2R5	4	1	3,498,424:55.0	
2178	96	179	20:13:02.266	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,498,424:55.0	
2179	96	179	20:13:03.600	117GJ105A106D4CS	7STRP	-0.00275,-0.0208	Slew =17.01	2R5	4	1	3,498,424:57.0	
2180	96	179	20:13:10.466		DMS:	:*RECORD	R7, TRACK 3, FWD, TIC *4408.57 +/- 2	2R5	4	1	3,498,424:67.3	
2181	96	179	20:13:20.933	117GJ105A106D4CT	7STRP	0.0.0.021019,0.0	Slew =0.51	2R5	4	1	3,498,424:83.0	
2182	96	179	20:13:30.933		DMS:	:*RUNDOWN	R7, TRACK 3, FWD, TIC *4413.37 +/- 2	2R5	4	1	3,498,425:07.0	
2183	96	179	20:13:30.933	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,498,425:07.0	
2184	96	179	20:13:32.333		DMS:	:*READY	RDY, TRACK 3, FWD, TIC *4413.43 +/- 2	2R5	4	1	3,498,425:09.1	
2185	96	179	20:16:20.933	117GJ105A106D4CU	7STRP	-0.00275,-0.0208	Slew =17.01	2R5	4	1	3,498,427:80.0	
2186	96	179	20:16:38.266	117GJ105A106D4CV	7STRP	0.0.0.021019,0.0	Slew =0.51	2R5	4	1	3,498,428:15.0	
2187	96	179	20:19:38.266	117GJ105A106E4A	7STRP	-0.0024,-0.02191	Slew =17.01	2R5	4	1	3,498,431:12.0	
2188	96	179	20:19:56.266	117GJ105A106E4B	7STRP	0.0.0.022013,0.0	Slew =0.51	2R5	4	1	3,498,431:39.0	
2189	96	179	20:21:57.600	117GJ105A106E4C	7STRP	-0.0024,-0.02191	Slew =17.01	2R5	4	1	3,498,433:39.0	
2190	96	179	20:22:15.600	117GJ105A106E4D	7STRP	0.0.0.022013,0.0	Slew =0.51	2R5	4	1	3,498,433:66.0	
2191	96	179	20:24:16.933	117GJ105A106E4E	7STRP	-0.0024,-0.02191	Slew =17.01	2R5	4	1	3,498,435:66.0	
2192	96	179	20:24:34.933	117GJ105A106E4F	7STRP	0.0.0.022013,0.0	Slew =0.51	2R5	4	1	3,498,436:02.0	
2193	96	179	20:26:36.266	117GJ105A106E4G	7STRP	-0.0024,-0.02191	Slew =17.01	2R5	4	1	3,498,438:02.0	
2194	96	179	20:26:54.266	117GJ105A106E4H	7STRP	0.0.0.022013,0.0	Slew =0.51	2R5	4	1	3,498,438:29.0	
2195	96	179	20:27:26.933		DMS:	:*US-RUNUP	R7, TRACK 3, FWD, TIC 4413.43 +/- 2	2R5	4	1	3,498,438:78.0	
2196	96	179	20:27:26.933	50ZZ6XX	6DMSC	RDY,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,498,438:78.0	
2197	96	179	20:27:35.133		DMS:	:*RECORD	R7, TRACK 3, FWD, TIC *4415.12 +/- 2	2R5	4	1	3,498,438:90.3	
2198	96	179	20:27:55.600	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,498,439:30.0	



Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2199	96	179	20:27:55.600		DMS:	: *RUNDOWN	R7, TRACK 3, FWD, TIC *4419.92 +/- 2	2R5	4	1	3,498,439:30.0	
2200	96	179	20:27:57.000		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *4419.98 +/- 2	2R5	4	1	3,498,439:32.1	
2201	96	179	20:28:55.600	117GJ105A106E4I	7STRP	-0.0024,-0.02191	Slew =17.01	2R5	4	1	3,498,440:29.0	
2202	96	179	20:29:13.600	117GJ105A106E4J	7STRP	0.0,0.022013,0.0	Slew =0.51	2R5	4	1	3,498,440:56.0	
2203	96	179	20:31:14.933	117GJ105A106E4K	7STRP	-0.0024,-0.02191	Slew =17.01	2R5	4	1	3,498,442:56.0	
2204	96	179	20:31:32.933	117GJ105A106E4L	7STRP	0.0,0.022013,0.0	Slew =0.51	2R5	4	1	3,498,442:83.0	
2205	96	179	20:33:34.266	117GJ105A106E4M	7STRP	-0.0024,-0.02191	Slew =17.01	2R5	4	1	3,498,444:83.0	
2206	96	179	20:33:52.266	117GJ105A106E4N	7STRP	0.0,0.022013,0.0	Slew =0.51	2R5	4	1	3,498,445:19.0	
2207	96	179	20:35:53.600	117GJ105A106E4O	7STRP	-0.0024,-0.02191	Slew =17.01	2R5	4	1	3,498,447:19.0	
2208	96	179	20:36:11.600	117GJ105A106E4P	7STRP	0.0,0.022013,0.0	Slew =0.51	2R5	4	1	3,498,447:46.0	
2209	96	179	20:38:12.933	117GJ105A106E4Q	7STRP	-0.0024,-0.02191	Slew =17.01	2R5	4	1	3,498,449:46.0	
2210	96	179	20:38:30.933	117GJ105A106E4R	7STRP	0.0,0.022013,0.0	Slew =0.51	2R5	4	1	3,498,449:73.0	
2211	96	179	20:40:32.266	117GJ105A106E4S	7STRP	-0.0024,-0.02191	Slew =17.01	2R5	4	1	3,498,451:73.0	
2212	96	179	20:40:50.266	117GJ105A106E4T	7STRP	0.0,0.022013,0.0	Slew =0.51	2R5	4	1	3,498,452:09.0	
2213	96	179	20:41:51.600		DMS:	: *US-RUNUP	R7, TRACK 3, FWD, TIC 4419.98 +/- 2	2R5	4	1	3,498,453:10.0	
2214	96	179	20:41:51.600	50ZZ6XX	6DMSC		DMS Control Tape runup 7.68kps	2R5	4	1	3,498,453:10.0	
2215	96	179	20:41:59.800		DMS:	: *RECORD	R7, TRACK 3, FWD, TIC *4421.68 +/- 2	2R5	4	1	3,498,453:22.3	
2216	96	179	20:42:20.266	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,498,453:53.0	
2217	96	179	20:42:20.266		DMS:	: *RUNDOWN	R7, TRACK 3, FWD, TIC *4426.47 +/- 2	2R5	4	1	3,498,453:53.0	
2218	96	179	20:42:21.666		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *4426.53 +/- 2	2R5	4	1	3,498,453:55.1	
2219	96	179	20:42:51.600	117GJ105A106E4U	7STRP	-0.0024,-0.02191	Slew =17.01	2R5	4	1	3,498,454:09.0	
2220	96	179	20:43:09.600	117GJ105A106E4V	7STRP	0.0,0.022013,0.0	Slew =0.51	2R5	4	1	3,498,454:36.0	
2221	96	179	20:45:10.933	117GJ105A106E4W	7STRP	-0.0024,-0.02191	Slew =17.01	2R5	4	1	3,498,456:36.0	
2222	96	179	20:45:28.933	117GJ105A106E4X	7STRP	0.0,0.022013,0.0	Slew =0.51	2R5	4	1	3,498,456:63.0	
2223	96	179	20:47:30.266	117GJ105A106E4Y	7STRP	-0.0024,-0.02191	Slew =17.01	2R5	4	1	3,498,458:63.0	
2224	96	179	20:47:48.266	117GJ105A106E4Z	7STRP	0.0,0.022013,0.0	Slew =0.51	2R5	4	1	3,498,458:90.0	
2225	96	179	20:49:49.600	117GJ105A106E4AA	7STRP	-0.0024,-0.02191	Slew =17.01	2R5	4	1	3,498,460:90.0	
2226	96	179	20:50:07.600	117GJ105A106E4AB	7STRP	0.0,0.022013,0.0	Slew =0.51	2R5	4	1	3,498,461:26.0	
2227	96	179	20:52:08.933	117GJ105A106E4AC	7STRP	-0.0024,-0.02191	Slew =17.01	2R5	4	1	3,498,463:26.0	
2228	96	179	20:52:26.933	117GJ105A106E4AD	7STRP	0.0,0.022013,0.0	Slew =0.51	2R5	4	1	3,498,463:53.0	
2229	96	179	20:54:28.266	117GJ105A106E4AE	7STRP	-0.0024,-0.02191	Slew =17.01	2R5	4	1	3,498,465:53.0	
2230	96	179	20:54:46.266	117GJ105A106E4AF	7STRP	0.0,0.022013,0.0	Slew =0.51	2R5	4	1	3,498,465:80.0	
2231	96	179	20:56:16.266	50ZZ6XX	6DMSC	RDY,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,498,467:33.0	
2232	96	179	20:56:16.266		DMS:	: *US-RUNUP	R7, TRACK 3, FWD, TIC 4426.53 +/- 2	2R5	4	1	3,498,467:33.0	
2233	96	179	20:56:24.466		DMS:	: *RECORD	R7, TRACK 3, FWD, TIC *4428.23 +/- 2	2R5	4	1	3,498,467:45.3	
2234	96	179	20:56:44.933		DMS:	: *RUNDOWN	R7, TRACK 3, FWD, TIC *4433.03 +/- 2	2R5	4	1	3,498,467:76.0	
2235	96	179	20:56:44.933	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,498,467:76.0	
2236	96	179	20:56:46.333		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *4433.09 +/- 2	2R5	4	1	3,498,467:78.1	
2237	96	179	20:56:47.600	117GJ105A106E4AG	7STRP	-0.0024,-0.02191	Slew =17.01	2R5	4	1	3,498,467:80.0	
2238	96	179	20:57:05.600	117GJ105A106E4AH	7STRP	0.0,0.022013,0.0	Slew =0.51	2R5	4	1	3,498,468:16.0	
2239	96	179	20:59:06.933	117GJ105A106E4AI	7STRP	-0.0024,-0.02191	Slew =17.01	2R5	4	1	3,498,470:16.0	
2240	96	179	20:59:24.933	117GJ105A106E4AJ	7STRP	0.0,0.022013,0.0	Slew =0.51	2R5	4	1	3,498,470:43.0	
2241	96	179	21:01:26.266	117GJ105A106E4AK	7STRP	-0.0024,-0.02191	Slew =17.01	2R5	4	1	3,498,472:43.0	
2242	96	179	21:01:44.266	117GJ105A106E4AL	7STRP	0.0,0.022013,0.0	Slew =0.51	2R5	4	1	3,498,472:70.0	
2243	96	179	21:03:45.600	117GJ105A106E4AM	7STRP	-0.0024,-0.02191	Slew =17.01	2R5	4	1	3,498,474:70.0	
2244	96	179	21:04:03.600	117GJ105A106E4AN	7STRP	0.0,0.022013,0.0	Slew =0.51	2R5	4	1	3,498,475:06.0	
2245	96	179	21:06:04.933	117GJ105A106E4AO	7STRP	-0.0024,-0.02191	Slew =17.01	2R5	4	1	3,498,477:06.0	
2246	96	179	21:06:22.933	117GJ105A106E4AP	7STRP	0.0,0.022013,0.0	Slew =0.51	2R5	4	1	3,498,477:33.0	
2247	96	179	21:08:24.266	117GJ105A106E4AQ	7STRP	-0.0024,-0.02191	Slew =17.01	2R5	4	1	3,498,479:33.0	
2248	96	179	21:08:42.266	117GJ105A106E4AR	7STRP	0.0,0.022013,0.0	Slew =0.51	2R5	4	1	3,498,479:60.0	
2249	96	179	21:10:40.933	50ZZ6XX	6DMSC	RDY,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,498,481:56.0	
2250	96	179	21:10:40.933		DMS:	: *US-RUNUP	R7, TRACK 3, FWD, TIC 4433.09 +/- 2	2R5	4	1	3,498,481:56.0	
2251	96	179	21:10:43.600	117GJ105A106E4AS	7STRP	-0.0024,-0.02191	Slew =17.01	2R5	4	1	3,498,481:60.0	
2252	96	179	21:10:49.133		DMS:	: *RECORD	R7, TRACK 3, FWD, TIC *4434.78 +/- 2	2R5	4	1	3,498,481:68.3	
2253	96	179	21:11:01.600	117GJ105A106E4AT	7STRP	0.0,0.022013,0.0	Slew =0.51	2R5	4	1	3,498,481:87.0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2254	96	179	21:11:09.600	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,498,482:08:0	
2255	96	179	21:11:09.600		DMS:	: *RUNDOWN	R7, TRACK 3, FWD, TIC *4439.58 +/- 2	2R5	4	1	3,498,482:08:0	
2256	96	179	21:11:11.000		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *4439.64 +/- 2	2R5	4	1	3,498,482:10:1	
2257	96	179	21:13:02.933	117GJ105A106E4AU	7STRP	-0.0024,-0.02191	Slew =17.01	2R5	4	1	3,498,483:87:0	
2258	96	179	21:13:20.933	117GJ105A106E4AV	7STRP	0.0,0.022013,0.0	Slew =0.51	2R5	4	1	3,498,484:23:0	
2259	96	179	21:15:22.266	117GJ105A106E4AW	7STRP	-0.0024,-0.02191	Slew =17.01	2R5	4	1	3,498,486:23:0	
2260	96	179	21:15:40.266	117GJ105A106E4AX	7STRP	0.0,0.022013,0.0	Slew =0.51	2R5	4	1	3,498,486:50:0	
2261	96	179	21:17:41.600	117GJ105A106E4AY	7STRP	-0.0024,-0.02191	Slew =17.01	2R5	4	1	3,498,488:50:0	
2262	96	179	21:17:59.600	117GJ105A106E4AZ	7STRP	0.0,0.022013,0.0	Slew =0.51	2R5	4	1	3,498,488:77:0	
2263	96	179	21:20:00.933	117GJ105A106E4BA	7STRP	-0.0024,-0.02191	Slew =17.01	2R5	4	1	3,498,490:77:0	
2264	96	179	21:20:18.933	117GJ105A106E4BB	7STRP	0.0,0.022013,0.0	Slew =0.51	2R5	4	1	3,498,491:13:0	
2265	96	179	21:22:20.266	117GJ105A106E4BC	7STRP	-0.0024,-0.02191	Slew =17.01	2R5	4	1	3,498,493:13:0	
2266	96	179	21:22:38.266	117GJ105A106E4BD	7STRP	0.0,0.022013,0.0	Slew =0.51	2R5	4	1	3,498,493:40:0	
2267	96	179	21:24:39.600	117GJ105A106E4BE	7STRP	-0.0024,-0.02191	Slew =17.01	2R5	4	1	3,498,495:40:0	
2268	96	179	21:24:57.600	117GJ105A106E4BF	7STRP	0.0,0.022013,0.0	Slew =0.51	2R5	4	1	3,498,495:67:0	
2269	96	179	21:25:04.933	50ZZ6XX	6DMSC	RDY,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,498,495:78:0	
2270	96	179	21:25:04.933		DMS:	: *US-RUNUP	R7, TRACK 3, FWD, TIC 4439.64 +/- 2	2R5	4	1	3,498,495:78:0	
2271	96	179	21:25:13.133		DMS:	: *RECORD	R7, TRACK 3, FWD, TIC *4441.33 +/- 2	2R5	4	1	3,498,495:90:3	
2272	96	179	21:25:33.600		DMS:	: *RUNDOWN	R7, TRACK 3, FWD, TIC *4446.13 +/- 2	2R5	4	1	3,498,496:30:0	
2273	96	179	21:25:35.600	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,498,496:30:0	
2274	96	179	21:25:35.000		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *4446.19 +/- 2	2R5	4	1	3,498,496:32:1	
2275	96	179	21:26:58.933	117GJ105A106E4BG	7STRP	-0.0024,-0.02191	Slew =17.01	2R5	4	1	3,498,497:67:0	
2276	96	179	21:27:16.933	117GJ105A106E4BH	7STRP	0.0,0.022013,0.0	Slew =0.51	2R5	4	1	3,498,498:03:0	
2277	96	179	21:29:18.266	117GJ105A106E4BI	7STRP	-0.0024,-0.02191	Slew =17.01	2R5	4	1	3,498,500:03:0	
2278	96	179	21:29:36.266	117GJ105A106E4BJ	7STRP	0.0,0.022013,0.0	Slew =0.51	2R5	4	1	3,498,500:30:0	
2279	96	179	21:31:37.600	117GJ105A106E4BK	7STRP	-0.0024,-0.02191	Slew =17.01	2R5	4	1	3,498,502:30:0	
2280	96	179	21:31:55.600	117GJ105A106E4BL	7STRP	0.0,0.022013,0.0	Slew =0.51	2R5	4	1	3,498,502:57:0	
2281	96	179	21:33:56.933	117GJ105A106E4BM	7STRP	-0.0024,-0.02191	Slew =17.01	2R5	4	1	3,498,504:57:0	
2282	96	179	21:34:14.933	117GJ105A106E4BN	7STRP	0.0,0.022013,0.0	Slew =0.51	2R5	4	1	3,498,504:84:0	
2283	96	179	21:36:16.266	117GJ105A106E4BO	7STRP	-0.0024,-0.02191	Slew =17.01	2R5	4	1	3,498,506:84:0	
2284	96	179	21:36:34.266	117GJ105A106E4BP	7STRP	0.0,0.022013,0.0	Slew =0.51	2R5	4	1	3,498,507:20:0	
2285	96	179	21:38:35.600	117GJ105A106E4BQ	7STRP	-0.0024,-0.02191	Slew =17.01	2R5	4	1	3,498,509:20:0	
2286	96	179	21:38:53.600	117GJ105A106E4BR	7STRP	0.0,0.022013,0.0	Slew =0.51	2R5	4	1	3,498,509:47:0	
2287	96	179	21:39:29.600	50ZZ6XX	6DMSC	RDY,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,498,510:10:0	
2288	96	179	21:39:29.600		DMS:	: *US-RUNUP	R7, TRACK 3, FWD, TIC 4446.19 +/- 2	2R5	4	1	3,498,510:10:0	
2289	96	179	21:39:37.800		DMS:	: *RECORD	R7, TRACK 3, FWD, TIC *4447.89 +/- 2	2R5	4	1	3,498,510:22:3	
2290	96	179	21:39:58.266	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,498,510:53:0	
2291	96	179	21:39:58.266		DMS:	: *RUNDOWN	R7, TRACK 3, FWD, TIC *4452.68 +/- 2	2R5	4	1	3,498,510:53:0	
2292	96	179	21:39:59.666		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *4452.74 +/- 2	2R5	4	1	3,498,510:55:1	
2293	96	179	21:40:54.933	117GJ105A106E4BS	7STRP	-0.0024,-0.02191	Slew =17.01	2R5	4	1	3,498,511:47:0	
2294	96	179	21:41:12.933	117GJ105A106E4BT	7STRP	0.0,0.022013,0.0	Slew =0.51	2R5	4	1	3,498,511:74:0	
2295	96	179	21:43:14.266	50ZZ6XX	6DMSC	RDY,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,498,513:74:0	
2296	96	179	21:43:14.266	176GJ6B	6TMREC	NRC	NO RECORD Record Mode Change	2R5	4	1	3,498,513:74:0	
2297	96	179	21:43:14.266	117GJ11A	CSMOS	GE	***** GROUP END CSMOS	2R5	4	1	3,498,513:74:0	
2298	96	179	21:43:14.266		DMS:	: *US-RUNUP	R7, TRACK 3, FWD, TIC 4452.74 +/- 2	2R5	4	1	3,498,513:74:0	
2299	96	179	21:43:22.466		DMS:	: *RECORD	R7, TRACK 3, FWD, TIC *4454.44 +/- 2	2R5	4	1	3,498,513:86:3	
2300	96	179	21:43:32.933	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,498,514:11:0	
2301	96	179	21:43:32.933		DMS:	: *RUNDOWN	R7, TRACK 3, FWD, TIC *4456.89 +/- 2	2R5	4	1	3,498,514:11:0	
2302	96	179	21:43:34.333		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *4456.95 +/- 2	2R5	4	1	3,498,514:13:1	
2303	96	179	21:44:24.933	165GN4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,498,514:89:0	
2304	96	179	21:44:25.600	165GN4B	7SCAN	NORM,327.760998,	Check S/P Position	2R5	4	1	3,498,514:90:0	
2305	96	179	21:48:19.600	117GN	CSMOS	GS	***** GROUP START CSMOS	2R5	4	1	3,498,518:77:0	
2306	96	179	21:48:28.933	117GN105A106A4A	7STRP	-0.024005,-0.002	Slew =0.19	2R5	4	1	3,498,519:00:0	
2307	96	179	21:48:28.933	176GN6A	6TMREC	BPT	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R5	4	1	3,498,519:00:0	
2308	96	179	21:50:36.933	117GN105A106A4B	7STRP	0.023004,0.004:0	Slew =8.01	2R5	4	1	3,498,521:10:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2309	96	179	21:50:43.600	117GN105A106A4C	7STRP	-0.024005,-0.002	Slew = 0.19	2R5	4	1	3,498,521.20:0	
2310	96	179	21:52:51.600	117GN105A106A4D	7STRP	0.023004,0.004,0	Slew = 8.01	2R5	4	1	3,498,523.30:0	
2311	96	179	21:52:58.266	117GN105A106A4E	7STRP	-0.024005,-0.002	Slew = 0.19	2R5	4	1	3,498,523.40:0	
2312	96	179	21:55:06.266	117GN105A106A4F	7STRP	0.023004,0.004,0	Slew = 8.01	2R5	4	1	3,498,525.50:0	
2313	96	179	21:55:12.933	117GN105A106A4G	7STRP	-0.024005,-0.002	Slew = 0.19	2R5	4	1	3,498,525.60:0	
2314	96	179	21:57:20.933	117GN105A106A4H	7STRP	0.023004,0.004,0	Slew = 8.01	2R5	4	1	3,498,527.70:0	
2315	96	179	21:57:27.600	117GN105A106A4I	7STRP	-0.024005,-0.002	Slew = 0.19	2R5	4	1	3,498,527.80:0	
2316	96	179	21:59:35.600		DMS:	: *US-RUNUP	R7, TRACK 3, FWD, TIC 4456.95 +/- 2	2R5	4	1	3,498,529.90:0	
2317	96	179	21:59:35.600	117GN11A	CSMOS	GE	***** GROUP END CSMOS	2R5	4	1	3,498,529.90:0	
2318	96	179	21:59:35.600	176GN6B	6TMREC	NRC	NO RECORD Record Mode Change	2R5	4	1	3,498,529.90:0	
2319	96	179	21:59:35.600	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,498,529.90:0	
2320	96	179	21:59:43.800		DMS:	: *RECORD	R7, TRACK 3, FWD, TIC *4458.65 +/- 2	2R5	4	1	3,498,530.11:3	
2321	96	179	21:59:58.933	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,498,530.34:0	
2322	96	179	21:59:58.933		DMS:	: *RUNDOWN	R7, TRACK 3, FWD, TIC *4462.20 +/- 2	2R5	4	1	3,498,530.34:0	
2323	96	179	22:00:00.333		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *4462.26 +/- 2	2R5	4	1	3,498,530.36:1	
2324	96	179	22:09:41.600	165AQ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,498,539.89:0	
2325	96	179	22:09:42.266	165AQ4B	7SCAN	NORM,238.251999,	Check S/P Position	2R5	4	1	3,498,539.90:0	
2326	96	179	22:13:28.933	175KJ422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	2R5	4	1	3,498,543.66:0	
2327	96	179	22:13:28.933		DMS:	: *US-RUNUP	R28, TRACK 3, FWD, TIC 4462.26 +/- 2	2R5	4	1	3,498,543.66:0	
2328	96	179	22:13:40.933	175KJ176A6A	6TMREC	MPW	28.8 KBPS PWS + NIMS RECORD Record Mode C	2R5	4	1	3,498,543.84:0	
2329	96	179	22:13:41.000		DMS:	: *RECORD	R28, TRACK 3, FWD, TIC *4465.15 +/- 2	2R5	4	1	3,498,543.84:1	
2330	96	179	22:13:42.266		DMS:	: *RUNDOWN	R28, TRACK 3, FWD, TIC *4466.27 +/- 2	2R5	4	1	3,498,543.86:0	
2331	96	179	22:13:42.266	175AB422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,498,543.86:0	
2332	96	179	22:13:43.666		DMS:	: *RUNUP	R7, TRACK 3, FWD, TIC *4466.49 +/- 2	2R5	4	1	3,498,543.88:1	
2333	96	179	22:13:44.933	175AB176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	2R5	4	1	3,498,543.90:3	
2334	96	179	22:13:45.133		DMS:	: *RECORD	R7, TRACK 3, FWD, TIC *4466.61 +/- 2	2R5	4	1	3,498,543.90:3	
2335	96	179	22:14:46.266	175AB422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,498,545.00:0	
2336	96	179	22:14:46.266		DMS:	: *RUNDOWN	R7, TRACK 3, FWD, TIC *4480.94 +/- 2	2R5	4	1	3,498,545.00:0	
2337	96	179	22:14:47.666		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *4481.00 +/- 2	2R5	4	1	3,498,545.02:1	
2338	96	179	22:19:54.933	165GM4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,498,550.08:0	
2339	96	179	22:19:55.600	165GM4B	7SCAN	NORM,301.103996,	Check S/P Position	2R5	4	1	3,498,550.09:0	
2340	96	179	22:21:54.933	117GM	CSMOS	GS	***** GROUP START CSMOS	2R5	4	1	3,498,552.06:0	
2341	96	179	22:22:11.600	176GM6A	6TMREC	BPT	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R5	4	1	3,498,552.31:0	
2342	96	179	22:22:11.600	117GM105A106A4A	7STRP	-0.0065,0.006,0,	Slew = 0.81	2R5	4	1	3,498,552.31:0	
2343	96	179	22:22:34.933	117GM11A	CSMOS	GE	***** GROUP END CSMOS	2R5	4	1	3,498,552.66:0	
2344	96	179	22:22:44.933	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,498,552.81:0	
2345	96	179	22:22:44.933		DMS:	: *US-RUNUP	R7, TRACK 3, FWD, TIC 4481.00 +/- 2	2R5	4	1	3,498,552.81:0	
2346	96	179	22:22:44.933	176GM6B	6TMREC	NRC	NO RECORD Record Mode Change	2R5	4	1	3,498,552.81:0	
2347	96	179	22:22:53.133		DMS:	: *RECORD	R7, TRACK 3, FWD, TIC *4482.69 +/- 2	2R5	4	1	3,498,553.02:3	
2348	96	179	22:23:00.933		DMS:	: *RUNDOWN	R7, TRACK 3, FWD, TIC *4484.52 +/- 2	2R5	4	1	3,498,553.14:0	
2349	96	179	22:23:00.933	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,498,553.14:0	
2350	96	179	22:23:02.333		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *4484.58 +/- 2	2R5	4	1	3,498,553.16:1	
2351	96	179	22:26:52.933	165DB4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,498,556.89:0	
2352	96	179	22:26:53.600	165DB4B	7SCAN	NORM,329.084,-16	Check S/P Position	2R5	4	1	3,498,556.90:0	
2353	96	179	22:26:58.266	G1JNHOTMAP01-	-----START-----			2R5	4	1	:	
2354	96	179	22:30:47.600	117DB	CSMOS	GS	***** GROUP START CSMOS	2R5	4	1	3,498,560.77:0	
2355	96	179	22:30:52.266	127DB	NIMSTAB	GS	%%/%/% GROUP START TAB	2R5	4	1	3,498,560.84:0	
2356	96	179	22:30:52.266	127DB4A	37IOP	3,0	Long Map, Grating Start Position = 00	2R3	4	0	3,498,560.84:0	
2357	96	179	22:30:52.933	127DB4B	37ETB		Loads wavelength edit table	2R3	4	0	3,498,560.85:0	
2358	96	179	22:30:56.933	117DB105A106A4A	7STRP	-0.083997,0.0,0,	Slew = 0.04	2R3	4	0	3,498,561.00:0	
2359	96	179	22:31:00.933	127DB11A	NIMSTAB	GE	%%/%/% GROUP END TAB	2R3	4	0	3,498,561.06:0	
2360	96	179	22:32:35.600	488AS6A	6TMSED	FILL,AL3	Sci, Eng. and D/L Chan	2R3	4	0	3,498,562.57:0	
2361	96	179	22:40:44.266	488AS6B	6TMSED	NORM,AL3	Sci, Eng. and D/L Chan	2R3	4	0	3,498,570.62:0	
2362	96	179	22:41:47.600		DMS:	: *US-RUNUP	R28, TRACK 3, FWD, TIC 4484.58 +/- 2	2R3	4	0	3,498,571.66:0	
2363	96	179	22:41:47.600	175KJ422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	2R3	4	0	3,498,571.66:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2364	96	179	22:41:59.600	175KK176A6A	6TMREC	MPW	28.8 KBPS PWS + NIMS RECORD Record Mode C	2R3	4	0	3,498,571:84:0	
2365	96	179	22:41:59.666		DMS:	: *RECORD	R28, TRACK 3, FWD, TIC *4487.48 +/- 2	2R3	4	0	3,498,571:84:0	
2366	96	179	22:42:00.933		DMS:	: *RUNDOWN	R28, TRACK 3, FWD, TIC *4488.59 +/- 2	2R3	4	0	3,498,571:86:0	
2367	96	179	22:42:00.933	175DB422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	3,498,571:86:0	
2368	96	179	22:42:02.333	175DB176A6A	6TMREC	LPU	R7, TRACK 3, FWD, TIC *4488.81 +/- 2	2R3	4	0	3,498,571:88:1	
2369	96	179	22:42:03.600	175DB176A6A	6TMREC	: *RECORD	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R3	4	0	3,498,571:90:0	
2370	96	179	22:42:03.800		DMS:	: *RECORD	R7, TRACK 3, FWD, TIC *4488.93 +/- 2	2R3	4	0	3,498,571:90:3	
2371	96	179	22:42:04.265	G1JNHOTMAP01-	NIMPBK	301DB	HOTMAP	2R3	4	0	:	:
2372	96	179	23:06:02.933	117DB105A106A4B	7STRP	0.065092,0.008,0	Slew = 12.01	2R3	4	0	3,498,595:65:0	
2373	96	179	23:06:16.933	117DB105A106A4C	7STRP	-0.083997,0.0,0.0,	Slew = -0.04	2R3	4	0	3,498,595:86:0	
2374	96	179	23:25:44.930	G1JNHOTMAP01-	DESELC	RDY,0	HOTMAP	2R3	4	0	:	:
2375	96	179	23:36:40.266	175DB422A6B	6DMSC	RDDY,0	DMS Control Tape stop	2R3	4	0	3,498,626:00:0	
2376	96	179	23:36:40.266		DMS:	: *RUNDOWN	R7, TRACK 3, FWD, TIC *5256.85 +/- 2	2R3	4	0	3,498,626:00:0	
2377	96	179	23:36:40.266	175DB6A	6TMREC	NRC	NO RECORD Record Mode Change	2R3	4	0	3,498,626:00:0	
2378	96	179	23:36:41.666		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *5256.91 +/- 2	2R3	4	0	3,498,626:02:1	
2379	96	179	23:41:22.933	117DB11A	CSMOS	GE	***** GROUP END CSMOS	2R3	4	0	3,498,630:60:0	
2380	96	179	23:48:52.266	G1JNHOTMAP01-		-----STOP-----		2R3	4	0	:	:
2381	96	179	23:56:52.266	165EC4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,498,645:89:0	
2382	96	179	23:56:52.933	165EC4B	7SCAN	NORM,311.658997,	Check S/P Position	2R3	4	0	3,498,645:90:0	
2383	96	179	23:56:57.600	G1ENNHILAT01-		-----START-----		2R3	4	0	:	:
2384	96	179	23:59:50.933	125EC11A	NIMSINIT	GE	##### GROUP END INIT	2R3	4	0	3,498,648:84:0	
2385	96	179	23:59:50.933	125EC	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	3,498,648:84:0	
2386	96	179	23:59:50.933	125EC4A	37IST	1,2,0,OFF,0,1,2	Chopper ON, Sync, Chopper (Ref)Gain State	3R3	4	0	3,498,648:84:0	
2387	96	180	00:00:39.600	175KL422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	3R3	4	0	3,498,649:66:0	
2388	96	180	00:00:39.600		DMS:	: *US-RUNUP	R28, TRACK 3, FWD, TIC 5256.91 +/- 2	3R3	4	0	3,498,649:66:0	
2389	96	180	00:00:46.933	117EC	CSMOS	GS	***** GROUP START CSMOS	3R3	4	0	3,498,649:77:0	
2390	96	180	00:00:51.600	175KL176A6A	6TMREC	MPW	28.8 KBPS PWS + NIMS RECORD Record Mode C	3R3	4	0	3,498,649:84:0	
2391	96	180	00:00:51.600	127EC	NIMSTAB	GS	%%-%-%-% GROUP START TAB	3R3	4	0	3,498,649:84:0	
2392	96	180	00:00:51.600	127EC4A	37IOP	3,0	Long Map, Grating Start Position = 00	3R3	4	0	3,498,649:84:0	
2393	96	180	00:00:51.666		DMS:	: *RECORD	R28, TRACK 3, FWD, TIC *5259.81 +/- 2	3R3	4	0	3,498,649:84:1	
2394	96	180	00:00:52.266	127EC4B	37ETB	07,C7,02,0C,00,0	Loads wavelength edit table	3R3	4	0	3,498,649:85:0	
2395	96	180	00:00:52.933	175EC422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	3R3	4	0	3,498,649:86:0	
2396	96	180	00:00:52.933		DMS:	: *RUNDOWN	R28, TRACK 3, FWD, TIC *5260.92 +/- 2	3R3	4	0	3,498,649:86:0	
2397	96	180	00:00:54.333		DMS:	: *RUNUP	R7, TRACK 3, FWD, TIC *5261.14 +/- 2	3R3	4	0	3,498,649:88:1	
2398	96	180	00:00:54.933	165EC4C	7VECT		Inert vect update UTC	3R3	4	0	3,498,649:89:0	
2399	96	180	00:00:55.600	175EC176A6A	6TMREC	LPU	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	3R3	4	0	3,498,649:90:0	
2400	96	180	00:00:55.600	165EC4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	3R3	4	0	3,498,649:90:0	
2401	96	180	00:00:55.800		DMS:	: *RECORD	R7, TRACK 3, FWD, TIC *5261.26 +/- 2	3R3	4	0	3,498,649:90:3	
2402	96	180	00:00:56.262	G1ENNHILAT01-	NIMPBK	301EC	EUROPA NORTH HIGH LATITUDE COVER	3R3	4	0	:	:
2403	96	180	00:00:56.266	117EC105A106A4A	7STRP	0.018802,0.0,0.0	Slew = -0.03	3R3	4	0	3,498,650:00:0	
2404	96	180	00:01:00.266	127EC11A	NIMSTAB	GE	%%-%-%-% GROUP END TAB	3R3	4	0	3,498,650:06:0	
2405	96	180	00:10:58.266	125FR11A	NIMSINIT	GE	##### GROUP END INIT	3R3	4	0	3,498,659:84:0	
2406	96	180	00:10:58.266	125FR	NIMSINIT	GS	##### GROUP START INIT	3R3	4	0	3,498,659:84:0	
2407	96	180	00:10:58.266	125FR4A	37IST	1,2,0,OFF,0,1,0	Chopper ON, Sync, Chopper (Ref)Gain State	2R3	4	0	3,498,659:84:0	
2408	96	180	00:11:24.933	117EC105A106A4B	7STRP	-0.018502,0.0077	Slew = 12.01	2R3	4	0	3,498,660:33:0	
2409	96	180	00:11:34.266	117EC105A106A4C	7STRP	0.018802,0.0,0.0	Slew = -0.03	2R3	4	0	3,498,660:47:0	
2410	96	180	00:21:09.594	G1ENNHILAT01-	DESELC	300EC	EUROPA NORTH HIGH LATITUDE COVER	2R3	4	0	:	:
2411	96	180	00:22:02.933	117EC105A106B4A	7STRP	-0.017302,0.0046	Slew = 12.01	2R3	4	0	3,498,670:80:0	
2412	96	180	00:22:05.600	125FL4A	37IST	1,2,0,OFF,0,1,2	Chopper ON, Sync, Chopper (Ref)Gain State	3R3	4	0	3,498,670:84:0	
2413	96	180	00:22:05.600	125FL	NIMSINIT	GS	##### GROUP START INIT	3R3	4	0	3,498,670:84:0	
2414	96	180	00:22:05.600	125FL11A	NIMSINIT	GE	##### GROUP END INIT	3R3	4	0	3,498,670:84:0	
2415	96	180	00:22:08.933	117EC105A106B4B	7STRP	0.016001,0.0,0.0	Slew = 0.03	3R3	4	0	3,498,670:89:0	
2416	96	180	00:31:04.266	117EC11A	CSMOS	GE	***** GROUP END CSMOS	3R3	4	0	3,498,679:73:0	
2417	96	180	00:31:04.266		DMS:	: *RUNDOWN	R7, TRACK 3, FWD, TIC *5685.12 +/- 2	3R3	4	0	3,498,679:73:0	
2418	96	180	00:31:04.266	175EC6A	6TMREC	NRC	NO RECORD Record Mode Change	3R3	4	0	3,498,679:73:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2419	96	180	00:31:04.266	175EC422A6B	6DMSC	RDY,0	DMS Control Tape stop	3R3	4	0	3,498,679:73:0	
2420	96	180	00:31:05.666		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *5685.18 +/- 2	3R3	4	0	3,498,679:75:1	
<b>2421</b>	<b>96</b>	<b>180</b>	<b>00:32:05.600</b>	<b>G1ENNHILAT01-</b>		-----STOP-----		<b>3R3</b>	<b>4</b>	<b>0</b>	<b>:</b>	<b>:</b>
2422	96	180	00:35:12.266	465KB6A	6DTRN	CMD,6DTRN,465KB6	DMS TRACK TURNAROUND	3R3	4	0	3,498,683:81:0	
2423	96	180	00:35:12.266		DMS:	: *DMS-TURN	P7, TRACK 3, FWD, TIC 5685.18 +/- 2	3R3	4	0	3,498,683:81:0	
2424	96	180	01:00:14.266		DMS:	: *REVERSE	P7, TRACK 3, FWD, TIC *6037.00 +/- 2	3R3	4	0	3,498,708:59:0	
2425	96	180	01:00:15.666		DMS:	: *TURNARND	P7, TRACK *4, *REV, TIC *6037.06 +/- 2	3R3	4	0	3,498,708:61:1	
2426	96	180	01:01:09.466		DMS:	: *AUTOSTOP	P7, TRACK 4, REV, TIC *6024.66 +/-	3R3	4	0	3,498,709:50:8	
2427	96	180	01:01:10.866		DMS:	: *READY	RDY, TRACK 4, REV, TIC *6024.60 +/-	3R3	4	0	3,498,709:52:9	
<b>2428</b>	<b>96</b>	<b>180</b>	<b>01:41:58.266</b>	<b>125FD4A</b>	<b>37IST</b>	<b>1,2,0,OFF,0,1,0</b>	<b>Chopper ON, Sync, Chopper (Ref)Gain State</b>	<b>2R3</b>	<b>4</b>	<b>0</b>	<b>3,498,749:84:0</b>	
2429	96	180	01:41:58.266	125FD11A	NIMSINIT	GE	##### GROUP END INIT	2R3	4	0	3,498,749:84:0	
2430	96	180	01:41:58.266	125FD	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	3,498,749:84:0	
2431	96	180	01:42:01.600	165IR4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,498,749:89:0	
2432	96	180	01:42:02.266	165IR4B	7SCAN	NORM,321.786999,	Check S/P Position	2R3	4	0	3,498,749:90:0	
<b>2433</b>	<b>96</b>	<b>180</b>	<b>01:42:06.933</b>	<b>G1ENGLOBAL01*</b>		-----START-----		<b>2R3</b>	<b>4</b>	<b>0</b>	<b>:</b>	<b>:</b>
2434	96	180	01:42:53.600		DMS:	: *US-RUNUP	R403, TRACK 4, REV, TIC 6024.60 +/-	2R3	4	0	3,498,750:76:0	
2435	96	180	01:42:53.600	175IK422A6A	6DMSC	R403,0	DMS Control Tape runup 403.2kb	2R3	4	0	3,498,750:76:0	
2436	96	180	01:42:55.600	118IR	SMOS	GS		2R3	4	0	3,498,750:79:0	
2437	96	180	01:42:58.933	127FD	NIMSTAB	GS	%%%%GROUP START TAB	2R3	4	0	3,498,750:84:0	
<b>2438</b>	<b>96</b>	<b>180</b>	<b>01:42:58.933</b>	<b>127FD4A</b>	<b>37IOP</b>	<b>7,0</b>	<b>Fixed Map, Grating Start Position =00</b>	<b>2R7</b>	<b>4</b>	<b>0</b>	<b>3,498,750:84:0</b>	
<b>2439</b>	<b>96</b>	<b>180</b>	<b>01:42:59.600</b>	<b>127FD4B</b>	<b>37ETEB</b>	<b>07,C7,19,FF,FF,0</b>	<b>Loads wavelength edit table</b>	<b>2R7</b>	<b>4</b>	<b>0</b>	<b>3,498,750:85:0</b>	
2440	96	180	01:43:02.266	165IR4C	7VECT		Inert vect update UTC	2R7	4	0	3,498,750:89:0	
2441	96	180	01:43:02.933	165IR4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	2R7	4	0	3,498,750:90:0	
2442	96	180	01:43:04.933	175IK176A6A	6TMREC	IM4	403.2 KBPS IMAGE RECORD Record Mode Chang	2R7	4	0	3,498,751:02:0	
2443	96	180	01:43:05.466		DMS:	: *RECORD	R403, TRACK 4, REV, TIC *6003.30 +/-	2R7	4	0	3,498,751:02:8	
<b>2444</b>	<b>96</b>	<b>180</b>	<b>01:43:05.591</b>	<b>G1ENGLOBAL01*</b>	<b>NIMPBK</b>	<b>301FD</b>	<b>EUROPA COORDINATED SCIENCE NIMS/</b>	<b>2R7</b>	<b>4</b>	<b>0</b>	<b>:</b>	<b>:</b>
2445	96	180	01:43:05.600	118IR10A11A4A	7STRP	0,0,0,00665,26,0,	Slew = 3.01	2R7	4	0	3,498,751:03:0	
2446	96	180	01:43:07.600	127FD11A	NIMSTAB	GE	%%%%GROUP END TAB	2R7	4	0	3,498,751:06:0	
2447	96	180	01:43:14.266	118IR10A11A4B	7STRP	-0.0073,0,0,0,0,0,	Slew = 6.01	2R7	4	0	3,498,751:16:0	
2448	96	180	01:43:22.933	118IR10A11A4C	7STRP	0,0,0,00665,26,0,	Slew = 3.01	2R7	4	0	3,498,751:29:0	
<b>2449</b>	<b>96</b>	<b>180</b>	<b>01:43:31.591</b>	<b>G1ENGLOBAL01*</b>	<b>DESEL</b>	<b>300FD</b>	<b>EUROPA COORDINATED SCIENCE NIMS/</b>	<b>2R7</b>	<b>4</b>	<b>0</b>	<b>:</b>	<b>:</b>
2450	96	180	01:43:31.600	118IR11A	SMOS	GE		2R7	4	0	3,498,751:42:0	
2451	96	180	01:43:31.600	116IR4A	7STRP	0.00525,0.00075,	Slew =0.5.0	2R7	4	0	3,498,751:42:0	
2452	96	180	01:45:04.933	465TI6A	6DMSC	P7,1	DMS Control Tape P/B 7.68kbps	2R7	4	0	3,498,753:00:0	
2453	96	180	01:45:04.933		DMS:	: *RUNDOWN	R403, TRACK 4, REV, TIC *4533.30 +/-	2R7	4	0	3,498,753:00:0	
2454	96	180	01:45:08.066		DMS:	: *RUNUP	P7, TRACK *1, *FWD, TIC *4529.30 +/-	2R7	4	0	3,498,753:04:7	
2455	96	180	01:45:09.533		DMS:	: *P SLEW	P7, TRACK 1, FWD, TIC *4529.42 +/-	2R7	4	0	3,498,753:06:9	
<b>2456</b>	<b>96</b>	<b>180</b>	<b>01:55:15.600</b>	<b>G1ENGLOBAL01*</b>		-----STOP-----		<b>2R7</b>	<b>4</b>	<b>0</b>	<b>:</b>	<b>:</b>
2457	96	180	02:15:27.600		DMS:	: *RUNDOWN	P7, TRACK 1, FWD, TIC *4955.53 +/-	2R7	4	0	3,498,783:04:0	
2458	96	180	02:15:27.600	465TI6B	6DMSC	RDY,1	DMS Control Tape stop	2R7	4	0	3,498,783:04:0	
2459	96	180	02:15:29.000		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *4955.59 +/-	2R7	4	0	3,498,783:06:1	
2460	96	180	02:20:18.933	465KC6A	6DMSC	P7,4	DMS Control Tape P/B 7.68kbps	2R7	4	0	3,498,787:77:0	
2461	96	180	02:20:18.933		DMS:	: *US-RUNUP	P7, TRACK *4, *REV, TIC 4955.59 +/-	2R7	4	0	3,498,787:77:0	
2462	96	180	02:20:28.466		DMS:	: *P SLEW	P7, TRACK 4, REV, TIC *4956.87 +/-	2R7	4	0	3,498,788:00:3	
2463	96	180	02:22:59.600	488AS6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	2R7	4	0	3,498,790:45:0	
2464	96	180	02:27:08.933		DMS:	: *RUNDOWN	P7, TRACK 4, REV, TIC *4863.01 +/-	2R7	4	0	3,498,794:55:0	
2465	96	180	02:27:08.933	465KC6B	6DMSC	RDY,4	DMS Control Tape stop	2R7	4	0	3,498,794:55:0	
2466	96	180	02:27:10.333		DMS:	: *READY	RDY, TRACK 4, REV, TIC *4862.95 +/-	2R7	4	0	3,498,794:57:1	
2467	96	180	02:39:00.933	31F6C,	6MROH		12 read from LLM1A12,2282,0,A2	2R7	4	0	3,498,806:31:0	
2468	96	180	02:45:00.266	481SA4A	7VECT		Inert vect update UTC	2R7	4	0	3,498,812:24:0	
2469	96	180	03:01:10.933	165GO4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R7	4	0	3,498,828:24:0	
2470	96	180	03:01:11.600	165GO4B	7SCAN	NORM,330.822998,	Check S/P Position	2R7	4	0	3,498,828:25:0	
2471	96	180	03:03:00.266	117GO	CSMOS	GS	***** GROUP START CSMOS	2R7	4	0	3,498,830:06:0	
2472	96	180	03:03:13.600	117GO105A106A4A	7STRP	-0.007,0.006,0,0	Slew = 0.48	2R7	4	0	3,498,830:26:0	
2473	96	180	03:03:13.600	176GO6A	6TMREC	BPT	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R7	4	0	3,498,830:26:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2474	96	180	03:03:36.933	117GO11A	CSMOS	GE	***** GROUP END CSMOS	2R7	4	0	3,498,830:61.0	
2475	96	180	03:03:46.933	176GO6B	6TMREC	NRC	NO RECORD Record Mode Change	2R7	4	0	3,498,830:76.0	
2476	96	180	03:03:46.933	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R7	4	0	3,498,830:76.0	
2477	96	180	03:03:46.933		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 4862.95 +/- 1	2R7	4	0	3,498,830:76.0	
2478	96	180	03:03:56.466		DMS:	: *RECORD	R7, TRACK 4, REV, TIC *4864.22 +/- 1	2R7	4	0	3,498,830:90.3	
2479	96	180	03:04:04.266		DMS:	: *RUNDOWN	R7, TRACK 4, REV, TIC *4862.39 +/- 1	2R7	4	0	3,498,831:11.0	
2480	96	180	03:04:04.266	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R7	4	0	3,498,831:11.0	
2481	96	180	03:04:05.666		DMS:	: *READY	RDY, TRACK 4, REV, TIC *4862.33 +/- 1	2R7	4	0	3,498,831:13.1	
2482	96	180	03:08:29.600	488AS6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	2R7	4	0	3,498,835:45.0	
2483	96	180	03:08:58.933	165EA4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R7	4	0	3,498,835:89.0	
2484	96	180	03:08:59.600	165EA4B	7SCAN	NORM,13.889,3.42	Check S/P Position	2R7	4	0	3,498,835:90.0	
2485	96	180	03:09:04.200	G1INCHEMIS01-		-----START-----		2R7	4	0	:	:
2486	96	180	03:09:56.266	125EA11A	NIMSINIT	GE	##### GROUP END INIT	2R7	4	0	3,498,836:84.0	
2487	96	180	03:09:56.266	125EA	NIMSINIT	GS	##### GROUP START INIT	2R7	4	0	3,498,836:84.0	
2488	96	180	03:09:56.266	125EA4A	37IST	1,2,0,OFF,0,1,0	Chopper ON, Sync, Chopper (Ref)Gain State	2R7	4	0	3,498,836:84.0	
2489	96	180	03:10:51.600		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 4862.33 +/- 1	2R7	4	0	3,498,837:76.0	
2490	96	180	03:10:51.600	175EA422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R7	4	0	3,498,837:76.0	
2491	96	180	03:10:52.266	117EA	CSMOS	GS	***** GROUP START CSMOS	2R7	4	0	3,498,837:77.0	
2492	96	180	03:10:56.933	127EA4A	37IOP	3,0	Long Map, Grating Start Position =00	2R3	4	0	3,498,837:84.0	
2493	96	180	03:10:56.933	127EA	NIMSTAB	GS	%%%% GROUP START TAB	2R3	4	0	3,498,837:84.0	
2494	96	180	03:10:57.600	127EA4B	37ETB	07,C7,02,01,80,0	Loads wavelength edit table	2R3	4	0	3,498,837:85.0	
2495	96	180	03:11:00.933	175EA176A6A	6TMREC	LPU	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R3	4	0	3,498,837:90.0	
2496	96	180	03:11:01.133		DMS:	: *RECORD	R7, TRACK 4, REV, TIC *4863.61 +/- 1	2R3	4	0	3,498,837:90.3	
2497	96	180	03:11:01.588	G1INCHEMIS01-	NIMPBK	301EA	MONITORING OF IO'S DAYSIDE	2R3	4	0	:	:
2498	96	180	03:11:01.600	117EA105A106A4A	7STRP	0,0011,0,0,0,0,0,0	Slew = -0.02	2R3	4	0	3,498,838:00.0	
2499	96	180	03:11:05.600	127EA11A	NIMSTAB	GE	%%%% GROUP END TAB	2R3	4	0	3,498,838:06.0	
2500	96	180	03:12:01.588	G1INCHEMIS01-	DESEL	300EA	MONITORING OF IO'S DAYSIDE	2R3	4	0	:	:
2501	96	180	03:12:01.600	117EA11A	CSMOS	GE	***** GROUP END CSMOS	2R3	4	0	3,498,838:90.0	
2502	96	180	03:12:11.600		DMS:	: *RUNDOWN	R7, TRACK 4, REV, TIC *4847.09 +/- 1	2R3	4	0	3,498,839:14.0	
2503	96	180	03:12:11.600	175EA6A	6TMREC	NRC	NO RECORD Record Mode Change	2R3	4	0	3,498,839:14.0	
2504	96	180	03:12:11.600	175EA422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,498,839:14.0	
2505	96	180	03:12:13.000		DMS:	: *READY	RDY, TRACK 4, REV, TIC *4847.03 +/- 1	2R3	4	0	3,498,839:16.1	
2506	96	180	03:13:08.867	G1INCHEMIS01-		-----STOP-----		2R3	4	0	:	:
2507	96	180	03:14:07.533	G1INTHRMAL01-		-----START-----		2R3	4	0	:	:
2508	96	180	03:14:26.933	165EB4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,498,841:35.0	
2509	96	180	03:14:27.600	165EB4B	7SCAN	NORM,14.088,3.51	Check S/P Position	2R3	4	0	3,498,841:36.0	
2510	96	180	03:14:54.266	175EB422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	3,498,841:76.0	
2511	96	180	03:14:54.266		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 4847.03 +/- 1	2R3	4	0	3,498,841:76.0	
2512	96	180	03:14:54.933	117EB	CSMOS	GS	***** GROUP START CSMOS	2R3	4	0	3,498,841:77.0	
2513	96	180	03:14:59.600	127EB4A	37IOP	7,21	Fixed Map, Grating Start Position =21	2R7	4	21	3,498,841:84.0	
2514	96	180	03:14:59.600	127EB	NIMSTAB	GS	%%%% GROUP START TAB	2R7	4	21	3,498,841:84.0	
2515	96	180	03:15:00.266	127EB4B	37ETB	07,C7,19,D5,55,0	Loads wavelength edit table	2R7	4	21	3,498,841:85.0	
2516	96	180	03:15:03.600	175EB176A6A	6TMREC	LPU	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R7	4	21	3,498,841:90.0	
2517	96	180	03:15:03.800		DMS:	: *RECORD	R7, TRACK 4, REV, TIC *4848.31 +/- 1	2R7	4	21	3,498,841:90.3	
2518	96	180	03:15:04.255	G1INTHRMAL01-	NIMPBK	301EB	MONITORING OF IO'S NIGHTSIDE	2R7	4	21	:	:
2519	96	180	03:15:04.266	117EB105A106A4A	7STRP	0,0022,0,0,0,0,0,0	Slew = -0.76	2R7	4	21	3,498,842:00.0	
2520	96	180	03:15:08.266	127EB11A	NIMSTAB	GE	%%%% GROUP END TAB	2R7	4	21	3,498,842:06.0	
2521	96	180	03:15:10.933	175EB6A	6TMREC	NRC	NO RECORD Record Mode Change	2R7	4	21	3,498,842:10.0	
2522	96	180	03:15:10.933	175EB422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R7	4	21	3,498,842:10.0	
2523	96	180	03:15:10.933	117EB11A	CSMOS	GE	***** GROUP END CSMOS	2R7	4	21	3,498,842:10.0	
2524	96	180	03:15:10.933		DMS:	: *RUNDOWN	R7, TRACK 4, REV, TIC *4846.64 +/- 1	2R7	4	21	3,498,842:10.0	
2525	96	180	03:15:12.333		DMS:	: *READY	RDY, TRACK 4, REV, TIC *4846.58 +/- 1	2R7	4	21	3,498,842:12.1	
2526	96	180	03:16:32.867	G1INTHRMAL01-		-----STOP-----		2R7	4	21	:	:
2527	96	180	03:42:20.933	165IW4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R7	4	21	3,498,868:89.0	
2528	96	180	03:42:21.600	165IW4B	7SCAN	NORM,335.108997,	Check S/P Position	2R7	4	21	3,498,868:90.0	



Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2529	96	180	03:42:26.266	G1ENEUTERM01-		-----START-----		2R7	4	21	:	:
2530	96	180	03:46:14.933		DMS:	: *US-RUNUP	R403, TRACK 4, REV, TIC 4846.58 +/- 1	2R7	4	21	3,498,872:76:0	
2531	96	180	03:46:14.933	175IL422A6A	6DMSC	R403.0	DMS Control Tape runup 403.2kb	2R7	4	21	3,498,872:76:0	
2532	96	180	03:46:16.933	118IW	SMOS	GS		2R7	4	21	3,498,872:79:0	
2533	96	180	03:46:26.266	175IL176A6A	6TMREC	IM4	403.2 KBPS IMAGE RECORD Record Mode Chang	2R7	4	21	3,498,873:02:0	
2534	96	180	03:46:26.800		DMS:	: *RECORD	R403, TRACK 4, REV, TIC *4825.27 +/- 2	2R7	4	21	3,498,873:02:8	
2535	96	180	03:46:26.920	G1INTHRMAL01-	DESEL	300EB	MONITORING OF IO'S NIGHTSIDE	2R7	4	21	:	:
2536	96	180	03:46:26.933	118IW110A111A4A	7STRP	-0.0025,0.0064,	Slew =,3.01	2R7	4	21	3,498,873:03:0	
2537	96	180	03:46:28.253	G1ENEUTERM01*	NIMPBK	301FZ	EUROPA TERMINATOR	2R7	4	21	:	:
2538	96	180	03:46:35.586	G1ENEUTERM01*	DESEL	300FZ	EUROPA TERMINATOR	2R7	4	21	:	:
2539	96	180	03:46:35.600	118IW111A	SMOS	GE		2R7	4	21	3,498,873:16:0	
2540	96	180	03:47:16.933		DMS:	: *RUNDOWN	R403, TRACK 4, REV, TIC *4208.40 +/- 2	2R7	4	21	3,498,873:78:0	
2541	96	180	03:47:16.933	465TJ6A	6DMSC	P7,1	DMS Control Tape P/B 7.68kbps	2R7	4	21	3,498,873:78:0	
2542	96	180	03:47:20.066		DMS:	: *RUNUP	P7, TRACK *1, *FWD, TIC *4204.40 +/- 2	2R7	4	21	3,498,873:82:7	
2543	96	180	03:47:21.533		DMS:	: *P SLEW	P7, TRACK 1, FWD, TIC *4204.52 +/- 2	2R7	4	21	3,498,873:84:9	
2544	96	180	03:48:30.266	G1ENEUTERM01-		-----STOP-----		2R7	4	21	:	:
2545	96	180	04:00:47.600	488AS6E	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	2R7	4	21	3,498,887:20:0	
2546	96	180	04:17:39.600	465TJ6B	6DMSC	RDY,1	DMS Control Tape stop	2R7	4	21	3,498,903:82:0	
2547	96	180	04:17:39.600		DMS:	: *RUNDOWN	P7, TRACK 1, FWD, TIC *4630.63 +/- 2	2R7	4	21	3,498,903:82:0	
2548	96	180	04:17:41.000		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *4630.69 +/- 2	2R7	4	21	3,498,903:84:1	
2549	96	180	04:17:41.600	465TK6A	6DMSC	RDY,4	DMS Control Tape stop	2R7	4	21	3,498,903:85:0	
2550	96	180	04:17:41.600		DMS:	: READY	RDY, TRACK *4, *REV, TIC 4630.69 +/- 2	2R7	4	21	3,498,903:85:0	
2551	96	180	04:28:26.933	488AT6A	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	2R7	4	21	3,498,914:52:0	
2552	96	180	04:30:59.600	488AT6B	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	2R7	4	21	3,498,917:08:0	
2553	96	180	05:25:10.933	165GP4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R7	4	21	3,498,970:62:0	
2554	96	180	05:25:11.600	165GP4B	7SCAN	NORM,344.566998,	Check S/P Position	2R7	4	21	3,498,970:63:0	
2555	96	180	05:26:34.933	117GP	CSMOS	GS	***** GROUP START CSMOS	2R7	4	21	3,498,972:06:0	
2556	96	180	05:27:13.600	117GP105A106A4A	7STRP	-0.005,0.006,0.0	Slew =,0.41	2R7	4	21	3,498,972:64:0	
2557	96	180	05:27:13.600	176GP6A	6TMREC	BPT	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R7	4	21	3,498,972:64:0	
2558	96	180	05:27:36.933	117GP11A	CSMOS	GE	***** GROUP END CSMOS	2R7	4	21	3,498,973:08:0	
2559	96	180	05:27:46.933	50ZZ6XX	6DMSC	RDY,0	DMS Control Tape runup 7.68kps	2R7	4	21	3,498,973:23:0	
2560	96	180	05:27:46.933		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 4630.69 +/- 2	2R7	4	21	3,498,973:23:0	
2561	96	180	05:27:46.933	176GP6B	6TMREC	NRC	NO RECORD Record Mode Change	2R7	4	21	3,498,973:23:0	
2562	96	180	05:27:56.466		DMS:	: *RECORD	R7, TRACK 4, REV, TIC *4631.97 +/- 2	2R7	4	21	3,498,973:37:3	
2563	96	180	05:28:04.266		DMS:	: *RUNDOWN	R7, TRACK 4, REV, TIC *4630.14 +/- 2	2R7	4	21	3,498,973:49:0	
2564	96	180	05:28:04.266	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R7	4	21	3,498,973:49:0	
2565	96	180	05:28:05.666		DMS:	: *READY	RDY, TRACK 4, REV, TIC *4630.08 +/- 2	2R7	4	21	3,498,973:51:1	
2566	96	180	05:36:16.266	488AT6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2R7	4	21	3,498,981:59:0	
2567	96	180	06:06:59.600	488AT6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2R7	4	21	3,499,012:03:0	
2568	96	180	06:27:27.600	165GQ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R7	4	21	3,499,032:25:0	
2569	96	180	06:27:28.266	165GQ4B	7SCAN	NORM,349.471996,	Check S/P Position	2R7	4	21	3,499,032:26:0	
2570	96	180	06:30:16.933	117GQ	CSMOS	GS	***** GROUP START CSMOS	2R7	4	21	3,499,035:06:0	
2571	96	180	06:30:30.933	117GQ105A106A4A	7STRP	-0.004,0.006,0.0	Slew =,0.37	2R7	4	21	3,499,035:27:0	
2572	96	180	06:30:30.933	176GQ6A	6TMREC	BPT	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R7	4	21	3,499,035:27:0	
2573	96	180	06:30:54.266	117GQ11A	CSMOS	GE	***** GROUP END CSMOS	2R7	4	21	3,499,035:62:0	
2574	96	180	06:31:04.266		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 4630.08 +/- 2	2R7	4	21	3,499,035:77:0	
2575	96	180	06:31:04.266	176GQ6B	6TMREC	NRC	NO RECORD Record Mode Change	2R7	4	21	3,499,035:77:0	
2576	96	180	06:31:04.266	50ZZ6XX	6DMSC	RDY,0	DMS Control Tape runup 7.68kps	2R7	4	21	3,499,035:77:0	
2577	96	180	06:31:13.800		DMS:	: *RECORD	R7, TRACK 4, REV, TIC *4631.35 +/- 2	2R7	4	21	3,499,036:00:3	
2578	96	180	06:31:21.600	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R7	4	21	3,499,036:12:0	
2579	96	180	06:31:21.600		DMS:	: *RUNDOWN	R7, TRACK 4, REV, TIC *4629.52 +/- 2	2R7	4	21	3,499,036:12:0	
2580	96	180	06:31:23.000		DMS:	: *READY	RDY, TRACK 4, REV, TIC *4629.46 +/- 2	2R7	4	21	3,499,036:14:1	
2581	96	180	06:59:30.933	165ED4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R7	4	21	3,499,063:89:0	
2582	96	180	06:59:31.600	165ED4B	7SCAN	NORM,10.17,-0.98	Check S/P Position	2R7	4	21	3,499,063:90:0	
2583	96	180	06:59:36.266	G1JNGRS09101-		-----START-----		2R7	4	21	:	:

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2584	96	180	07:03:24.933		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 4629.46 +/- 2	2R7	4	21	3,499,067.76:0	
2585	96	180	07:03:24.933	175ED422A6A	6DMSC	R7.0	DMS Control Tape runup 7.68kps	2R7	4	21	3,499,067.76:0	
2586	96	180	07:03:25.600	117ED	CSMOS	GS	**** GROUP START CSMOS	2R7	4	21	3,499,067.77:0	
2587	96	180	07:03:30.266	127ED4A	37IOP	5.1	Short Map, Grating Start Position =01	2R5	4	1	3,499,067.84:0	
2588	96	180	07:03:30.266	127ED	NIMSTAB	GS	%%%% GROUP START TAB	2R5	4	1	3,499,067.84:0	
2589	96	180	07:03:30.933	127ED4B	37ETB	CD,02,00,00,05,	Loads wavelength edit table	2R5	4	1	3,499,067.85:0	
2590	96	180	07:03:34.266	175ED176A6A	6TMREC	LPU	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	3,499,067.90:0	
2591	96	180	07:03:34.466		DMS:	: *RECORD	R7, TRACK 4, REV, TIC *4630.74 +/- 2	2R5	4	1	3,499,067.90:3	
2592	96	180	07:03:34.913	G1JNGRS09101-	NIMPBK	301ED	GRS 91 PHASE #1	2R5	4	1	:	
2593	96	180	07:03:34.933	117ED105A106A4A	7STRP	GE	0.015501,0.0,0.0	2R5	4	1	3,499,068.00:0	
2594	96	180	07:03:38.933	127ED11A	NIMSTAB	GE	%%%% GROUP END TAB	2R5	4	1	3,499,068.06:0	
2595	96	180	07:06:08.933	117ED105A106A4B	7STRP	-0.015501,0.008,	Slew =12.01	2R5	4	1	3,499,070.49:0	
2596	96	180	07:06:18.933	117ED105A106A4C	7STRP	0.015501,0.0,0.0	Slew =-0.11	2R5	4	1	3,499,070.64:0	
2597	96	180	07:08:52.913	G1JNGRS09101-	DESEL	300ED	GRS 91 PHASE #1	2R5	4	1	:	
2598	96	180	07:08:52.933	117ED11A	CSMOS	GE	**** GROUP END CSMOS	2R5	4	1	3,499,073.22:0	
2599	96	180	07:09:02.933		DMS:	: *RUNDOWN	R7, TRACK 4, REV, TIC *4553.76 +/- 2	2R5	4	1	3,499,073.37:0	
2600	96	180	07:09:02.933	175ED6A	6TMREC	NRC	NO RECORD Record Mode Change	2R5	4	1	3,499,073.37:0	
2601	96	180	07:09:02.933	175ED422A6B	6DMSC	RDY.0	DMS Control Tape stop	2R5	4	1	3,499,073.37:0	
2602	96	180	07:09:04.333		DMS:	: *READY	RDY, TRACK 4, REV, TIC *4553.70 +/- 2	2R5	4	1	3,499,073.39:1	
2603	96	180	07:10:42.266	G1JNGRS09101-		-----STOP-----		2R5	4	1	:	
2604	96	180	07:15:00.266	481SB4A	7VECT		Inert vect update UTC	2R5	4	1	3,499,079.27:0	
2605	96	180	07:28:28.266	165GR4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,499,092.56:0	
2606	96	180	07:28:28.933	165GR4B	7SCAN	NORM,353.5,-23.9	Check S/P Position	2R5	4	1	3,499,092.57:0	
2607	96	180	07:29:56.266	117GR	CSMOS	GS	**** GROUP START CSMOS	2R5	4	1	3,499,094.06:0	
2608	96	180	07:30:30.933	117GR105A106A4A	7STRP	-0.0038,0.006,0,	Slew =-0.35	2R5	4	1	3,499,094.58:0	
2609	96	180	07:30:30.933	176GR6A	6TMREC	BPT	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R5	4	1	3,499,094.58:0	
2610	96	180	07:30:54.266	117GR11A	CSMOS	GE	**** GROUP END CSMOS	2R5	4	1	3,499,095.02:0	
2611	96	180	07:31:04.266	50ZZ6XX	6DMSC	R7.0	DMS Control Tape runup 7.68kps	2R5	4	1	3,499,095.17:0	
2612	96	180	07:31:04.266	176GR6B	6TMREC	NRC	NO RECORD Record Mode Change	2R5	4	1	3,499,095.17:0	
2613	96	180	07:31:04.266		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 4553.70 +/- 2	2R5	4	1	3,499,095.17:0	
2614	96	180	07:31:13.800		DMS:	: *RECORD	R7, TRACK 4, REV, TIC *4554.97 +/- 3	2R5	4	1	3,499,095.31:3	
2615	96	180	07:31:21.600		DMS:	: *RUNDOWN	R7, TRACK 4, REV, TIC *4553.14 +/- 3	2R5	4	1	3,499,095.43:0	
2616	96	180	07:31:21.600	50ZZ6RE	6DMSC	RDY.0	DMS Control Tape stop	2R5	4	1	3,499,095.43:0	
2617	96	180	07:31:23.000		DMS:	: *READY	RDY, TRACK 4, REV, TIC *4553.08 +/- 3	2R5	4	1	3,499,095.45:1	
2618	96	180	07:35:54.933	165EF4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,499,099.89:0	
2619	96	180	07:35:55.600	165EF4B	7SCAN	NORM,11.869,-0.2	Check S/P Position	2R5	4	1	3,499,099.90:0	
2620	96	180	07:36:00.266	G1JNGRSSUB01-		-----START-----		2R5	4	1	:	
2621	96	180	07:37:47.600	175EF422A6A	6DMSC	R7.0	DMS Control Tape runup 7.68kps	2R5	4	1	3,499,101.76:0	
2622	96	180	07:37:47.600		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 4553.08 +/- 3	2R5	4	1	3,499,101.76:0	
2623	96	180	07:37:48.266	117EF	CSMOS	GS	**** GROUP START CSMOS	2R5	4	1	3,499,101.77:0	
2624	96	180	07:37:52.933	127EF4A	37IOP	3.0	Long Map, Grating Start Position =00	2R3	4	0	3,499,101.84:0	
2625	96	180	07:37:52.933	127EF	NIMSTAB	GS	%%%% GROUP START TAB	2R3	4	0	3,499,101.84:0	
2626	96	180	07:37:53.600	127EF4B	37ETB		Loads wavelength edit table	2R3	4	0	3,499,101.85:0	
2627	96	180	07:37:56.266	165EF4C	7VECT		Inert vect update UTC	2R3	4	0	3,499,101.89:0	
2628	96	180	07:37:56.933	175EF176A6A	6TMREC	LPU	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R3	4	0	3,499,101.90:0	
2629	96	180	07:37:56.933	165EF4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	2R3	4	0	3,499,101.90:0	
2630	96	180	07:37:57.133		DMS:	: *RECORD	R7, TRACK 4, REV, TIC *4554.36 +/- 3	2R3	4	0	3,499,101.90:3	
2631	96	180	07:37:57.600	117EF105A106A4A	7STRP	0.047035,0.0,0.0	Slew =-0.03	2R3	4	0	3,499,102.00:0	
2632	96	180	07:38:01.600	127EF11A	NIMSTAB	GE	%%%% GROUP END TAB	2R3	4	0	3,499,102.06:0	
2633	96	180	07:42:59.600	488AT6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2R3	4	0	3,499,106.89:0	
2634	96	180	08:04:17.600	117EF105A106A4B	7STRP	-0.04503,0.008,0	Slew =12.01	2R3	4	0	3,499,128.04:0	
2635	96	180	08:04:25.600	117EF105A106A4C	7STRP	0.047035,0.0,0.0	Slew = 0.03	2R3	4	0	3,499,128.16:0	
2636	96	180	08:23:31.600	488AU6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2R3	4	0	3,499,147.06:0	
2637	96	180	08:30:45.600	117EF11A	CSMOS	GE	**** GROUP END CSMOS	2R3	4	0	3,499,154.20:0	
2638	96	180	08:30:55.600	175EF422A6B	6DMSC	RDY.0	DMS Control Tape stop	2R3	4	0	3,499,154.35:0	



Line	YR	DOY	SCET - GMT	PSID	Command Parameters	Description	GCM	GO	GS	RIM	MF I
2639	96	180	08:30:55.600		DMS: : *RUNDOWN	R7, TRACK 4, REV, TIC *3809.41 +/- 3	2R3	4	0	3,499,154:35:0	
2640	96	180	08:30:55.600	175EF6A	6TMREC NRC	NO RECORD Record Mode Change	2R3	4	0	3,499,154:35:0	
2641	96	180	08:30:57.000		DMS: : *READY	RDY, TRACK 4, REV, TIC *3809.35 +/- 3	2R3	4	0	3,499,154:37:1	
2642	96	180	08:31:00.932	G1JNGRSSUB01-	-----STOP-----		2R3	4	0	:	:
2643	96	180	08:43:39.600	165EE4A	7TMOT DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,499,166:89:0	
2644	96	180	08:43:40.266	165EE4B	7SCAN NORM,14,171,0,75	Check S/P Position	2R3	4	0	3,499,166:90:0	
2645	96	180	08:43:44.932	G1JNGRS09102-	-----START-----		2R3	4	0	:	:
2646	96	180	08:47:33.533		DMS: : *US-RUNUP	R7, TRACK 4, REV, TIC 3809.35 +/- 3	2R3	4	0	3,499,170:76:0	
2647	96	180	08:47:33.533	175EE422A6A	6DMSC R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	3,499,170:76:0	
2648	96	180	08:47:34.200	117EE	CSMOS GS	**** GROUP START CSMOS	2R3	4	0	3,499,170:77:0	
2649	96	180	08:47:38.866	127EE4A	37IOP 5,1	Short Map, Grating Start Position =01	2R5	4	1	3,499,170:84:0	
2650	96	180	08:47:38.866	127EE	NIMSTAB GS	%%%%%%%% GROUP START TAB	2R5	4	1	3,499,170:84:0	
2651	96	180	08:47:39.533	127EE4B	37ETB ,CD,02,00,00,05,	Loads wavelength edit table	2R5	4	1	3,499,170:85:0	
2652	96	180	08:47:42.866	175EE176A6A	6TMREC LPU	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	3,499,170:90:0	
2653	96	180	08:47:43.066		DMS: : *RECORD	R7, TRACK 4, REV, TIC *3810.62 +/- 3	2R5	4	1	3,499,170:90:3	
2654	96	180	08:47:43.533	117EE105A106A4A	7STRP 0.042025,0,0,0,0	Slew =-0.12	2R5	4	1	3,499,171:00:0	
2655	96	180	08:47:43.576	G1JNGRS09102-	NIMPBK 301EE	GRS 91 PHASE #2	2R5	4	1	:	:
2656	96	180	08:47:47.533	127EE11A	NIMSTAB GE	%%%%%%%% GROUP END TAB	2R5	4	1	3,499,171:06:0	
2657	96	180	08:53:37.533	117EE105A106A4B	7STRP -0.044028,0,0,0,0,	Slew =12.01	2R5	4	1	3,499,176:76:0	
2658	96	180	08:53:45.533	117EE105A106A4C	7STRP 0.042025,0,0,0,0	Slew =-0.12	2R5	4	1	3,499,176:88:0	
2659	96	180	08:59:39.533	117EE11A	CSMOS GE	**** GROUP END CSMOS	2R5	4	1	3,499,182:73:0	
2660	96	180	08:59:39.575	G1JNGRS09102-	DESEL 300EE	GRS 91 PHASE #2	2R5	4	1	:	:
2661	96	180	08:59:45.599	G1JNGRS09102-	-----STOP-----		2R5	4	1	:	:
2662	96	180	08:59:49.533		DMS: : *RUNDOWN	R7, TRACK 4, REV, TIC *3640.36 +/- 3	2R5	4	1	3,499,182:88:0	
2663	96	180	08:59:49.533	175EE6A	6TMREC NRC	NO RECORD Record Mode Change	2R5	4	1	3,499,182:88:0	
2664	96	180	08:59:49.533	175EE422A6B	6DMSC RDY,0	DMS Control Tape stop	2R5	4	1	3,499,182:88:0	
2665	96	180	08:59:50.933		DMS: : *READY	RDY, TRACK 4, REV, TIC *3640.30 +/- 3	2R5	4	1	3,499,182:90:1	
2666	96	180	09:01:33.533	488AU6B	6TMSED FILL,AL4	Sci, Eng, and D/L Chan	2R5	4	1	3,499,184:62:0	
2667	96	180	09:05:20.866	165GS4A	7TMOT DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,499,188:39:0	
2668	96	180	09:05:21.533	165GS4B	7SCAN NORM:358.903,-18	Check S/P Position	2R5	4	1	3,499,188:40:0	
2669	96	180	09:07:00.200	117GS	CSMOS GS	**** GROUP START CSMOS	2R5	4	1	3,499,190:06:0	
2670	96	180	09:07:23.533	176GS6A	6TMREC BPT	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R5	4	1	3,499,190:41:0	
2671	96	180	09:07:23.533	117GS105A106A4A	7STRP -0.003,0,0,0,0,0	Slew =-0.34	2R5	4	1	3,499,190:41:0	
2672	96	180	09:07:46.866	117GS11A	CSMOS GE	**** GROUP END CSMOS	2R5	4	1	3,499,190:76:0	
2673	96	180	09:07:56.866	50ZZ6XX	6DMSC R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,499,191:00:0	
2674	96	180	09:07:56.866	176GS6B	6TMREC NRC	NO RECORD Record Mode Change	2R5	4	1	3,499,191:00:0	
2675	96	180	09:07:56.866		DMS: : *US-RUNUP	R7, TRACK 4, REV, TIC 3640.30 +/- 3	2R5	4	1	3,499,191:00:0	
2676	96	180	09:08:06.400		DMS: : *RECORD	R7, TRACK 4, REV, TIC *3641.57 +/- 3	2R5	4	1	3,499,191:14:3	
2677	96	180	09:08:14.200		DMS: : *RUNDOWN	R7, TRACK 4, REV, TIC *3639.74 +/- 3	2R5	4	1	3,499,191:26:0	
2678	96	180	09:08:14.200	50ZZ6RD	6DMSC RDY,0	DMS Control Tape stop	2R5	4	1	3,499,191:26:0	
2679	96	180	09:08:15.600		DMS: : *READY	RDY, TRACK 4, REV, TIC *3639.68 +/- 3	2R5	4	1	3,499,191:28:1	
2680	96	180	09:15:00.200	488AU6C	6TMSED FILL,EL4	Sci, Eng, and D/L Chan	2R5	4	1	3,499,197:89:0	
2681	96	180	09:28:51.533	488AU6D	6TMSED NORM,EL4	Sci, Eng, and D/L Chan	2R5	4	1	3,499,211:62:0	
2682	96	180	09:31:10.866	165EH4A	7TMOT DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,499,213:89:0	
2683	96	180	09:31:11.533	165EH4B	7SCAN NORM,12.686,0,23	Check S/P Position	2R5	4	1	3,499,213:90:0	
2684	96	180	09:31:16.266	G1JNGRS5UM01-	-----START-----		2R5	4	1	:	:
2685	96	180	09:32:08.200	125EH	NIMSNIT GS	##### GROUP START INIT	2R5	4	1	3,499,214:84:0	
2686	96	180	09:32:08.200	125EH11A	NIMSNIT GE	##### GROUP END INIT	2R5	4	1	3,499,214:84:0	
2687	96	180	09:32:08.200	125EH4A	37IST 1,2,0,OFF,0,1,1	Chopper ON, Sync, Chopper (Ref)Gain State	4R5	4	1	3,499,214:84:0	
2688	96	180	09:33:03.533	175EH422A6A	6DMSC R7,0	DMS Control Tape runup 7.68kps	4R5	4	1	3,499,215:76:0	
2689	96	180	09:33:03.533		DMS: : *US-RUNUP	R7, TRACK 4, REV, TIC 3639.68 +/- 3	4R5	4	1	3,499,215:76:0	
2690	96	180	09:33:04.200	117EH	CSMOS GS	**** GROUP START CSMOS	4R5	4	1	3,499,215:77:0	
2691	96	180	09:33:08.866	127EH	NIMSTAB GS	%%%%%%%% GROUP START TAB	4R5	4	1	3,499,215:84:0	
2692	96	180	09:33:08.866	127EH4A	37IOP 3,0	Long Map, Grating Start Position =00	4R3	4	0	3,499,215:84:0	
2693	96	180	09:33:09.533	127EH4B	37ETB ,CD,02,03,FF,1A,	Loads wavelength edit table	4R3	4	0	3,499,215:85:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2694	96	180	09:33:12.866	175EH176A6A	6TMREC	LPU	7.68 KBPS NIMS-UVS-PPR RECORD	4R3	4	0	3,499,215:90:0	
2695	96	180	09:33:13.066		DMS:	:*RECORD	R7, TRACK 4, REV, TIC *3640.96 +/- 3	4R3	4	0	3,499,215:90:3	
2696	96	180	09:33:13.533	117EH105A106A4A	7STRP	-0.032011,0.0,0.0,	Slew = 0.03	4R3	4	0	3,499,216:00:0	
2697	96	180	09:33:17.533	127EH11A	NIMSTAB	GE	%%%%GROUP END TAB	4R3	4	0	3,499,216:06:0	
2698	96	180	09:51:03.533	117EH105A106A4B	7STRP	0.026006,0.008,0	Slew = 12.01	4R3	4	0	3,499,233:58:0	
2699	96	180	09:51:11.533	117EH105A106A4C	7STRP	-0.032011,0.0,0.0,	Slew = 0.03	4R3	4	0	3,499,233:70:0	
2700	96	180	10:01:39.533	488AU6E	6TMSED	NORM,EL5	Sci, Eng, and D/L Chan	4R3	4	0	3,499,244:11:0	
2701	96	180	10:09:01.533	117EH11A	CSMOS	GE	**** GROUP END CSMOS	4R3	4	0	3,499,251:37:0	
2702	96	180	10:09:11.533		DMS:	:*RUNDOWN	R7, TRACK 4, REV, TIC *3135.07 +/- 3	4R3	4	0	3,499,251:52:0	
2703	96	180	10:09:11.533	175EH422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,499,251:52:0	
2704	96	180	10:09:11.533	175EH6A	6TMREC	NRC	NO RECORD Record Mode Change	4R3	4	0	3,499,251:52:0	
2705	96	180	10:09:12.933		DMS:	:*READY	RDY, TRACK 4, REV, TIC *3135.01 +/- 3	4R3	4	0	3,499,251:54:1	
2706	96	180	10:09:16.932	G1JNGRS5UM01-		-----STOP-----		4R3	4	0	:	:
2707	96	180	10:12:34.200	165GT4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,499,254:83:0	
2708	96	180	10:12:34.866	165GT4B	7SCAN	NORM,2.047,-15.6	Check S/P Position	4R3	4	0	3,499,254:84:0	
2709	96	180	10:14:44.866	117GT	CSMOS	GS	**** GROUP START CSMOS	4R3	4	0	3,499,257:06:0	
2710	96	180	10:15:37.533	117GT105A106A4A	7STRP	-0.003,0.006,0,0	Slew = 0.34	4R3	4	0	3,499,257:85:0	
2711	96	180	10:15:37.533	176GT6A	6TMREC	BPT	7.68 KBPS PPR BURST TO TAPE Record Mode C	4R3	4	0	3,499,257:85:0	
2712	96	180	10:16:00.866	117GT11A	CSMOS	GE	**** GROUP END CSMOS	4R3	4	0	3,499,258:29:0	
2713	96	180	10:16:10.866		DMS:	:*US-RUNUP	R7, TRACK 4, REV, TIC 3135.01 +/- 3	4R3	4	0	3,499,258:44:0	
2714	96	180	10:16:10.866	50Z26XX	6DMSC	RDY,0	DMS Control Tape runup 7.68kps	4R3	4	0	3,499,258:44:0	
2715	96	180	10:16:10.866	176GT6B	6TMREC	NRC	NO RECORD Record Mode Change	4R3	4	0	3,499,258:44:0	
2716	96	180	10:16:20.400		DMS:	:*RECORD	R7, TRACK 4, REV, TIC *3136.28 +/- 4	4R3	4	0	3,499,258:58:3	
2717	96	180	10:16:28.200	50Z26RE	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,499,258:70:0	
2718	96	180	10:16:28.200		DMS:	:*RUNDOWN	R7, TRACK 4, REV, TIC *3134.46 +/- 4	4R3	4	0	3,499,258:70:0	
2719	96	180	10:16:29.600		DMS:	:*READY	RDY, TRACK 4, REV, TIC *3134.40 +/- 4	4R3	4	0	3,499,258:72:1	
2720	96	180	10:17:41.533	165EI4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,499,259:89:0	
2721	96	180	10:17:42.200	165EI4B	7SCAN	NORM,15.044,1.48	Check S/P Position	4R3	4	0	3,499,259:90:0	
2722	96	180	10:17:46.932	G1JNGRS3UM01-		-----START-----		4R3	4	0	:	:
2723	96	180	10:18:33.533		DMS:	:*US-RUNUP	R7, TRACK 4, REV, TIC 3134.40 +/- 4	4R3	4	0	3,499,260:76:0	
2724	96	180	10:18:33.533	175EI422A6A	6DMSC	RDY,0	DMS Control Tape runup 7.68kps	4R3	4	0	3,499,260:76:0	
2725	96	180	10:18:34.200	117EI	CSMOS	GS	**** GROUP START CSMOS	4R3	4	0	3,499,260:77:0	
2726	96	180	10:18:38.866	127EI	NIMSTAB	GS	%%%%GROUP START TAB	4R3	4	0	3,499,260:84:0	
2727	96	180	10:18:39.533	127EI4A	37ETB		Loads wavelength edit table	4R3	4	0	3,499,260:85:0	
2728	96	180	10:18:42.200	165EI4C	7VECT		Inert vect update UTC	4R3	4	0	3,499,260:89:0	
2729	96	180	10:18:42.866	175EI176A6A	6TMREC	LPU	7.68 KBPS NIMS-UVS-PPR RECORD	4R3	4	0	3,499,260:90:0	
2730	96	180	10:18:42.866	165EI4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	4R3	4	0	3,499,260:90:0	
2731	96	180	10:18:43.066		DMS:	:*RECORD	R7, TRACK 4, REV, TIC *3135.67 +/- 4	4R3	4	0	3,499,260:90:3	
2732	96	180	10:18:43.533	117EI105A106A4A	7STRP	0.028708,0.0,0,0,0	Slew = 0.03	4R3	4	0	3,499,261:00:0	
2733	96	180	10:18:47.533	127EI11A	NIMSTAB	GE	%%%%GROUP END TAB	4R3	4	0	3,499,261:06:0	
2734	96	180	10:34:49.533	117EI105A106A4B	7STRP	-0.032011,0.008,	Slew = 12.01	4R3	4	0	3,499,276:84:0	
2735	96	180	10:34:59.533	117EI105A106A4C	7STRP	0.028708,0.0,0,0,0	Slew = 0.03	4R3	4	0	3,499,277:08:0	
2736	96	180	10:51:05.533	117EI11A	CSMOS	GE	**** GROUP END CSMOS	4R3	4	0	3,499,293:01:0	
2737	96	180	10:51:08.932	G1JNGRS3UM01-		-----STOP-----		4R3	4	0	:	:
2738	96	180	10:51:15.533	175EI6A	6TMREC	NRC	NO RECORD Record Mode Change	4R3	4	0	3,499,293:16:0	
2739	96	180	10:51:15.533		DMS:	:*RUNDOWN	R7, TRACK 4, REV, TIC *2678.06 +/- 4	4R3	4	0	3,499,293:16:0	
2740	96	180	10:51:15.533	175EI422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,499,293:16:0	
2741	96	180	10:51:16.933		DMS:	:*READY	RDY, TRACK 4, REV, TIC *2678.00 +/- 4	4R3	4	0	3,499,293:18:1	
2742	96	180	11:16:25.533	G1INCHEMIS02-		-----START-----		4R3	4	0	:	:
2743	96	180	11:17:14.200	165EL4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,499,318:79:0	
2744	96	180	11:17:14.866	165EL4B	7SCAN	NORM,46.293,14.7	Check S/P Position	4R3	4	0	3,499,318:80:0	
2745	96	180	11:18:18.200	125EL4A	37IST	1.2,0,OFF,0,1,0	Chopper ON, Sync, Chopper (Ref)Gain State	2R3	4	0	3,499,319:84:0	
2746	96	180	11:18:18.200	125EL11A	NIMSNIT	GE	##### GROUP END INIT	2R3	4	0	3,499,319:84:0	
2747	96	180	11:18:18.200	125EL	NIMSNIT	GS	##### GROUP START INIT	2R3	4	0	3,499,319:84:0	
2748	96	180	11:19:13.533		DMS:	:*US-RUNUP	R7, TRACK 4, REV, TIC 2678.00 +/- 4	2R3	4	0	3,499,320:76:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2749	96	180	11:19:13.533	175EL422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	3,499,320:76:0	
2750	96	180	11:19:14.200	117EL	CSMOS	GS	***** GROUP START CSMOS	2R3	4	0	3,499,320:77:0	
2751	96	180	11:19:18.866	127EL	NIMSTAB	GS	%%-%-% GROUP START TAB	2R3	4	0	3,499,320:84:0	
2752	96	180	11:19:19.533	127EL4A	37ETB	07,C7,02,01,80,0	Loads wavelength edit table	2R3	4	0	3,499,320:85:0	
2753	96	180	11:19:22.866	175EL176A6A	6TMREC	LPU	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R3	4	0	3,499,320:90:0	
2754	96	180	11:19:23.066		DMS:	:*RECORD	R7, TRACK 4, REV, TIC *2679.28 +/- 4	2R3	4	0	3,499,320:90:3	
2755	96	180	11:19:23.533	117EL105A106A4A	7STRP	0.0019,0,0,0,0	Slew = 0.03	2R3	4	0	3,499,321:00:0	
2756	96	180	11:19:23.570	G1INCHEMIS02-	NIMPBK	301EL	MONITORING OF IO'S DAYSIDE	2R3	4	0	:	:
2757	96	180	11:19:27.533	127EL11A	NIMSTAB	GE	%%-%-% GROUP END TAB	2R3	4	0	3,499,321:06:0	
2758	96	180	11:20:31.533	117EL11A	CSMOS	GE	***** GROUP END CSMOS	2R3	4	0	3,499,322:11:0	
2759	96	180	11:20:31.570	G1INCHEMIS02-	DESEL	300EL	MONITORING OF IO'S DAYSIDE	2R3	4	0	:	:
2760	96	180	11:20:41.533	175EL422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,499,322:26:0	
2761	96	180	11:20:41.533		DMS:	:*RUNDOWN	R7, TRACK 4, REV, TIC *2660.89 +/- 4	2R3	4	0	3,499,322:26:0	
2762	96	180	11:20:41.533	175EL6A	6TMREC	NRC	NO RECORD Record Mode Change	2R3	4	0	3,499,322:26:0	
2763	96	180	11:20:42.933		DMS:	:*READY	RDY, TRACK 4, REV, TIC *2660.83 +/- 4	2R3	4	0	3,499,322:28:1	
2764	96	180	11:20:46.867	G1INCHEMIS02-		*****STOP-----		2R3	4	0	:	:
2765	96	180	11:21:23.533	165EK4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,499,322:89:0	
2766	96	180	11:21:24.200	165EK4B	7SCAN	NORM,46.407,14.7	Check S/P Position	2R3	4	0	3,499,322:90:0	
2767	96	180	11:21:28.867	G1INTHRMAL02-		*****START-----		2R3	4	0	:	:
2768	96	180	11:22:20.866	125EK	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	3,499,323:84:0	
2769	96	180	11:22:20.866	125EK4A	37IST	1,2,0,OFF,0,1,1	Chopper ON, Sync, Chopper (Ref)Gain State	4R3	4	0	3,499,323:84:0	
2770	96	180	11:22:20.866	125EK11A	NIMSINIT	GE	##### GROUP END INIT	4R3	4	0	3,499,323:84:0	
2771	96	180	11:23:16.200		DMS:	:*US-RUNUP	R7, TRACK 4, REV, TIC 2660.83 +/- 4	4R3	4	0	3,499,324:76:0	
2772	96	180	11:23:16.200	175EK422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	3,499,324:76:0	
2773	96	180	11:23:16.866	117EK	CSMOS	GS	***** GROUP START CSMOS	4R3	4	0	3,499,324:77:0	
2774	96	180	11:23:21.533	127EK	NIMSTAB	GS	%%-%-% GROUP START TAB	4R3	4	0	3,499,324:84:0	
2775	96	180	11:23:22.200	127EK4A	37ETB	07,C7,03,80,00,0	Loads wavelength edit table	4R3	4	0	3,499,324:85:0	
2776	96	180	11:23:25.533	175EK176A6A	6TMREC	LPU	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	4R3	4	0	3,499,324:90:0	
2777	96	180	11:23:25.733		DMS:	:*RECORD	R7, TRACK 4, REV, TIC *2662.10 +/- 4	4R3	4	0	3,499,324:90:3	
2778	96	180	11:23:26.200	117EK105A106A4A	7STRP	0.0027,0,0,0,0,0	Slew = -0.03	4R3	4	0	3,499,325:00:0	
2779	96	180	11:23:26.237	G1INTHRMAL02-	NIMPBK	301EK	MONITORING OF IO'S NIGHTSIDE	4R3	4	0	:	:
2780	96	180	11:23:30.200	127EK11A	NIMSTAB	GE	%%-%-% GROUP END TAB	4R3	4	0	3,499,325:06:0	
2781	96	180	11:25:02.200	117EK11A	CSMOS	GE	***** GROUP END CSMOS	4R3	4	0	3,499,326:53:0	
2782	96	180	11:25:02.237	G1INTHRMAL02-	DESEL	300EK	MONITORING OF IO'S NIGHTSIDE	4R3	4	0	:	:
2783	96	180	11:25:12.200	175EK422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,499,326:68:0	
2784	96	180	11:25:12.200		DMS:	:*RUNDOWN	R7, TRACK 4, REV, TIC *2637.15 +/- 4	4R3	4	0	3,499,326:68:0	
2785	96	180	11:25:12.200	175EK6A	6TMREC	NRC	NO RECORD Record Mode Change	4R3	4	0	3,499,326:68:0	
2786	96	180	11:25:13.600		DMS:	:*READY	RDY, TRACK 4, REV, TIC *2637.09 +/- 4	4R3	4	0	3,499,326:70:1	
2787	96	180	11:26:06.867	G1INTHRMAL02-		*****STOP-----		4R3	4	0	:	:
2788	96	180	11:26:26.866	165EM4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,499,327:89:0	
2789	96	180	11:26:27.533	165EM4B	7SCAN	NORM,46.615,14.7	Check S/P Position	4R3	4	0	3,499,327:90:0	
2790	96	180	11:26:32.200	G1INVOLCAN05-		*****START-----		4R3	4	0	:	:
2791	96	180	11:27:24.200	125EM	NIMSINIT	GS	##### GROUP START INIT	4R3	4	0	3,499,328:84:0	
2792	96	180	11:27:24.200	125EM4A	37IST	1,2,0,OFF,0,1,0	Chopper ON, Sync, Chopper (Ref)Gain State	2R3	4	0	3,499,328:84:0	
2793	96	180	11:27:24.200	125EM11A	NIMSINIT	GE	##### GROUP END INIT	2R3	4	0	3,499,328:84:0	
2794	96	180	11:28:19.533		DMS:	:*US-RUNUP	R7, TRACK 4, REV, TIC 2637.09 +/- 4	2R3	4	0	3,499,329:76:0	
2795	96	180	11:28:19.533	175EM422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	3,499,329:76:0	
2796	96	180	11:28:20.200	117EM	CSMOS	GS	***** GROUP START CSMOS	2R3	4	0	3,499,329:77:0	
2797	96	180	11:28:24.866	127EM4A	37IOP	7,21	Fixed Map, Grating Start Position =21	2R7	4	21	3,499,329:84:0	
2798	96	180	11:28:24.866	127EM	NIMSTAB	GS	%%-%-% GROUP START TAB	2R7	4	21	3,499,329:84:0	
2799	96	180	11:28:25.533	127EM4B	37ETB	07,C7,19,D,5,55,0	Loads wavelength edit table	2R7	4	21	3,499,329:85:0	
2800	96	180	11:28:28.866	175EM176A6A	6TMREC	LPU	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R7	4	21	3,499,329:90:0	
2801	96	180	11:28:29.066		DMS:	:*RECORD	R7, TRACK 4, REV, TIC *2638.37 +/- 4	2R7	4	21	3,499,329:90:3	
2802	96	180	11:28:29.533	117EM105A106A4A	7STRP	0.00375,0,0,0,0,0	Slew = 0.76	2R7	4	21	3,499,330:00:0	
2803	96	180	11:28:29.570	G1INVOLCAN05-	NIMPBK	301EM	MONITORING OF SELECTED VOLCANIC	2R7	4	21	:	:

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2804	96	180	11:28:33.533	127EM11A	NIMSTAB	GE	%%-%-% GROUP END TAB	2R7	4	21	3,499,330:06:0	
2805	96	180	11:28:38.200	117EM11A	CSMOS	GE	**** GROUP END CSMOS	2R7	4	21	3,499,330:13:0	
2806	96	180	11:28:38.237	G1INVOLCAN05-	DESEL	300EM	MONITORING OF SELECTED VOLCANIC	2R7	4	21	:	
2807	96	180	11:28:48.200		DMS:	: *RUNDOWN	R7, TRACK 4, REV, TIC *2633.88 +/- 4	2R7	4	21	3,499,330:28:0	
2808	96	180	11:28:48.200	175EM6A	6TMREC	NRC	NO RECORD Record Mode Change	2R7	4	21	3,499,330:28:0	
2809	96	180	11:28:48.200	175EM422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R7	4	21	3,499,330:28:0	
2810	96	180	11:28:49.600		DMS:	: *READY	RDY, TRACK 4, REV, TIC *2633.82 +/- 4	2R7	4	21	3,499,330:30:1	
2811	96	180	11:30:49.533	G1INVOLCAN05-		-----STOP-----		2R7	4	21	:	
2812	96	180	12:00:49.533	165GU4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R7	4	21	3,499,361:89:0	
2813	96	180	12:00:50.200	165GU4B	7SCAN	NORM:6.174,-10.9	Check S/P Position	2R7	4	21	3,499,361:90:0	
2814	96	180	12:02:42.866	117GU	CSMOS	GS	**** GROUP START CSMOS	2R7	4	21	3,499,363:77:0	
2815	96	180	12:02:52.200	117GU105A106A4A	7STRP	-0.0025,0.006,0,	Slew = 0.32	2R7	4	21	3,499,364:00:0	
2816	96	180	12:02:52.200	176GU6A	6TMREC	BPT	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R7	4	21	3,499,364:00:0	
2817	96	180	12:03:15.533	117GU11A	CSMOS	GE	**** GROUP END CSMOS	2R7	4	21	3,499,364:35:0	
2818	96	180	12:03:25.533	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R7	4	21	3,499,364:50:0	
2819	96	180	12:03:25.533	176GU6B	6TMREC	NRC	NO RECORD Record Mode Change	2R7	4	21	3,499,364:50:0	
2820	96	180	12:03:25.533		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 2633.82 +/- 4	2R7	4	21	3,499,364:50:0	
2821	96	180	12:03:35.066		DMS:	: *RECORD	R7, TRACK 4, REV, TIC *2635.10 +/- 5	2R7	4	21	3,499,364:64:3	
2822	96	180	12:03:42.866	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R7	4	21	3,499,364:76:0	
2823	96	180	12:03:42.866		DMS:	: *RUNDOWN	R7, TRACK 4, REV, TIC *2633.27 +/- 5	2R7	4	21	3,499,364:76:0	
2824	96	180	12:03:44.266		DMS:	: *READY	RDY, TRACK 4, REV, TIC *2633.21 +/- 5	2R7	4	21	3,499,364:78:1	
2825	96	180	12:23:04.200	165EN4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R7	4	21	3,499,383:89:0	
2826	96	180	12:23:04.866	165EN4B	7SCAN	NORM:48.883,15.3	Check S/P Position	2R7	4	21	3,499,383:90:0	
2827	96	180	12:23:09.533	G1INVOLCAN04-		-----START-----		2R7	4	21	:	
2828	96	180	12:24:56.866	175EN422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R7	4	21	3,499,385:76:0	
2829	96	180	12:24:56.866		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 2633.21 +/- 5	2R7	4	21	3,499,385:76:0	
2830	96	180	12:24:57.533	117EN	CSMOS	GS	**** GROUP START CSMOS	2R7	4	21	3,499,385:77:0	
2831	96	180	12:25:02.200	127EN	NIMSTAB	GS	%%-%-% GROUP START TAB	2R7	4	21	3,499,385:84:0	
2832	96	180	12:25:02.866	127EN4A	37ETB	07,C7,19,D5,55,0	Loads wavelength edit table	2R7	4	21	3,499,385:85:0	
2833	96	180	12:25:06.200	175EN176A6A	6TMREC	LPU	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R7	4	21	3,499,385:90:0	
2834	96	180	12:25:06.400		DMS:	: *RECORD	R7, TRACK 4, REV, TIC *2634.48 +/- 5	2R7	4	21	3,499,385:90:3	
2835	96	180	12:25:06.866	117EN105A106A4A	7STRP	0.00375,0.0,0.0,	Slew = 0.76	2R7	4	21	3,499,386:00:0	
2836	96	180	12:25:06.902	G1INVOLCAN04-	NIMPBK	301EN	MONITORING OF SELECTED VOLCANIC	2R7	4	21	:	
2837	96	180	12:25:10.866	127EN11A	NIMSTAB	GE	%%-%-% GROUP END TAB	2R7	4	21	3,499,386:06:0	
2838	96	180	12:25:15.533	117EN11A	CSMOS	GE	**** GROUP END CSMOS	2R7	4	21	3,499,386:13:0	
2839	96	180	12:25:15.568	G1INVOLCAN04-	DESEL	300EN	MONITORING OF SELECTED VOLCANIC	2R7	4	21	:	
2840	96	180	12:25:25.533	175EN6A	6TMREC	NRC	NO RECORD Record Mode Change	2R7	4	21	3,499,386:28:0	
2841	96	180	12:25:25.533		DMS:	: *RUNDOWN	R7, TRACK 4, REV, TIC *2630.00 +/- 5	2R7	4	21	3,499,386:28:0	
2842	96	180	12:25:25.533	175EN422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R7	4	21	3,499,386:28:0	
2843	96	180	12:25:26.933		DMS:	: *READY	RDY, TRACK 4, REV, TIC *2629.94 +/- 5	2R7	4	21	3,499,386:30:1	
2844	96	180	12:27:26.867	G1INVOLCAN04-		-----STOP-----		2R7	4	21	:	
2845	96	180	13:11:37.533	192GV4A	7CONE	17.4,0.0	Check S/P Position	2R7	4	21	3,499,432:00:0	
2846	96	180	13:16:24.200	176GV6A	6TMREC	BPT	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R7	4	21	3,499,436:66:0	
2847	96	180	13:17:50.866		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 2629.94 +/- 5	2R7	4	21	3,499,438:14:0	
2848	96	180	13:17:50.866	176GV6B	6TMREC	NRC	NO RECORD Record Mode Change	2R7	4	21	3,499,438:14:0	
2849	96	180	13:17:50.866	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R7	4	21	3,499,438:14:0	
2850	96	180	13:18:00.400		DMS:	: *RECORD	R7, TRACK 4, REV, TIC *2631.22 +/- 5	2R7	4	21	3,499,438:28:3	
2851	96	180	13:18:08.866		DMS:	: *RUNDOWN	R7, TRACK 4, REV, TIC *2629.23 +/- 5	2R7	4	21	3,499,438:41:0	
2852	96	180	13:18:08.866	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R7	4	21	3,499,438:41:0	
2853	96	180	13:18:10.266		DMS:	: *READY	RDY, TRACK 4, REV, TIC *2629.17 +/- 5	2R7	4	21	3,499,438:43:1	
2854	96	180	13:43:57.533	165EO4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R7	4	21	3,499,463:89:0	
2855	96	180	13:43:58.200	165EO4B	7SCAN	NORM:51.51,15.89	Check S/P Position	2R7	4	21	3,499,463:90:0	
2856	96	180	13:45:03.533	G1INCHEMIS03-		-----START-----		2R7	4	21	:	
2857	96	180	13:47:51.533		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 2629.17 +/- 5	2R7	4	21	3,499,467:76:0	
2858	96	180	13:47:51.533	175EO422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R7	4	21	3,499,467:76:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2859	96	180	13:47:52.200	117EO	CSMOS	GS	**** GROUP START CSMOS	2R7	4	21	3,499,467.77:0	
2860	96	180	13:47:56.866	127EO	NIMSTAB	GS	%%GROUP START TAB	2R7	4	21	3,499,467.84:0	
2861	96	180	13:47:56.866	127EO4A	37IOP	3.0	Long Map, Grating Start Position =00	2R3	4	0	3,499,467.84:0	
2862	96	180	13:47:57.533	127EO4B	37ETB	07,C7,02,01,80,0	Loads wavelength edit table	2R3	4	0	3,499,467.85:0	
2863	96	180	13:48:00.866	175EO176A6A	6TMREC	LPU	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R3	4	0	3,499,467.90:0	
2864	96	180	13:48:01.066		DMS:	*RECORD	R7, TRACK 4, REV, TIC *2630.45 +/- 5	2R3	4	0	3,499,467.90:0	
2865	96	180	13:48:01.533	117EO105A106A4A	7STRP	0.0025,0.0,0.0,0	Slew = 0.03	2R3	4	0	3,499,468.00:0	
2866	96	180	13:48:01.564	G1NINCHMIS03-	NIMPBK	301EO	MONITORING OF IO'S DAYSIDE	2R3	4	0	:	:
2867	96	180	13:48:05.533	127EO11A	NIMSTAB	GE	%%GROUP END TAB	2R3	4	0	3,499,468.06:0	
2868	96	180	13:49:30.866	117EO11A	CSMOS	GE	**** GROUP END CSMOS	2R3	4	0	3,499,469.43:0	
2869	96	180	13:49:30.898	G1NINCHMIS03-	DESEL	300EO	MONITORING OF IO'S DAYSIDE	2R3	4	0	:	:
2870	96	180	13:49:40.866	175EO422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,499,469.58:0	
2871	96	180	13:49:40.866		DMS:	*RUNDOWN	R7, TRACK 4, REV, TIC *2607.06 +/- 5	2R3	4	0	3,499,469.58:0	
2872	96	180	13:49:40.866	175EO6A	6TMREC	NRC	NO RECORD Record Mode Change	2R3	4	0	3,499,469.58:0	
2873	96	180	13:49:42.266		DMS:	*READY	RDY, TRACK 4, REV, TIC *2607.00 +/- 5	2R3	4	0	3,499,469.60:1	
2874	96	180	13:50:35.533	G1NINCHMIS03-		-----STOP-----		2R3	4	0	:	:
2875	96	180	13:52:02.866	165EP4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,499,471.89:0	
2876	96	180	13:52:03.533	165EP4B	7SCAN	NORM,51.323,15.8	Check S/P Position	2R3	4	0	3,499,471.90:0	
2877	96	180	13:52:08.200	G1NINCHMIS03-		-----START-----		2R3	4	0	:	:
2878	96	180	13:53:00.200	125EP	NIMSNIT	GS	#### GROUP START INIT	2R3	4	0	3,499,472.84:0	
2879	96	180	13:53:00.200	25EP4A	37IST	1,2,0,OFF,0,1,1	Chopper ON, Sync, Chopper (Ref)Gain State	4R3	4	0	3,499,472.84:0	
2880	96	180	13:53:00.200	125EP11A	NIMSNIT	GE	#### GROUP END INIT	4R3	4	0	3,499,472.84:0	
2881	96	180	13:53:55.533	175EP422A6A	6DMSC	RDY,0	DMS Control Tape runup 7.68kps	4R3	4	0	3,499,473.76:0	
2882	96	180	13:53:55.533		DMS:	*US-RUNUP	R7, TRACK 4, REV, TIC 2607.00 +/- 5	4R3	4	0	3,499,473.76:0	
2883	96	180	13:53:56.200	117EP	CSMOS	GS	**** GROUP START CSMOS	4R3	4	0	3,499,473.77:0	
2884	96	180	13:54:00.866	127EP	NIMSTAB	GS	%%GROUP START TAB	4R3	4	0	3,499,473.84:0	
2885	96	180	13:54:01.533	127EP4A	37ETB	07,C7,03,80,00,0	Loads wavelength edit table	4R3	4	0	3,499,473.85:0	
2886	96	180	13:54:04.866	175EP176A6A	6TMREC	LPU	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	4R3	4	0	3,499,473.90:0	
2887	96	180	13:54:05.066		DMS:	*RECORD	R7, TRACK 4, REV, TIC *2608.27 +/- 5	4R3	4	0	3,499,473.90:0	
2888	96	180	13:54:05.533	117EP105A106A4A	7STRP	-0.0058,0.0,0.0,0	Slew = 0.03	4R3	4	0	3,499,474.00:0	
2889	96	180	13:54:05.564	G1NINCHMIS03-	NIMPBK	301EP	MONITORING OF IO'S NIGHTSIDE	4R3	4	0	:	:
2890	96	180	13:54:09.533	127EP11A	NIMSTAB	GE	%%GROUP END TAB	4R3	4	0	3,499,474.06:0	
2891	96	180	13:57:30.200	117EP11A	CSMOS	GE	**** GROUP END CSMOS	4R3	4	0	3,499,477.34:0	
2892	96	180	13:57:30.231	G1NINCHMIS03-	DESEL	300EP	MONITORING OF IO'S NIGHTSIDE	4R3	4	0	:	:
2893	96	180	13:57:40.200	175EP422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,499,477.49:0	
2894	96	180	13:57:40.200		DMS:	*RUNDOWN	R7, TRACK 4, REV, TIC *2557.85 +/- 5	4R3	4	0	3,499,477.49:0	
2895	96	180	13:57:40.200	175EP6A	6TMREC	NRC	NO RECORD Record Mode Change	4R3	4	0	3,499,477.49:0	
2896	96	180	13:57:41.600		DMS:	*READY	RDY, TRACK 4, REV, TIC *2557.79 +/- 5	4R3	4	0	3,499,477.51:1	
2897	96	180	13:58:36.200	G1NINCHMIS03-		-----STOP-----		4R3	4	0	:	:
2898	96	180	14:00:46.866	165GY4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,499,480.56:0	
2899	96	180	14:00:47.533	165GY4B	7SCAN	NORM,9.977,-6.56	Check S/P Position	4R3	4	0	3,499,480.57:0	
2900	96	180	14:02:14.866	117GY	CSMOS	GS	**** GROUP START CSMOS	4R3	4	0	3,499,482.06:0	
2901	96	180	14:02:49.533	176GY6A	6TMREC	BPT	7.68 KBPS PPR BURST TO TAPE Record Mode C	4R3	4	0	3,499,482.58:0	
2902	96	180	14:02:49.533	117GY105A106A4A	7STRP	-0.0015,0.006,0,0	Slew = 0.32	4R3	4	0	3,499,482.58:0	
2903	96	180	14:03:12.866	117GY11A	CSMOS	GE	**** GROUP END CSMOS	4R3	4	0	3,499,483.02:0	
2904	96	180	14:03:22.866	50ZZ6XX	6DMSC	RDY,0	DMS Control Tape runup 7.68kps	4R3	4	0	3,499,483.17:0	
2905	96	180	14:03:22.866	176GY6B	6TMREC	NRC	NO RECORD Record Mode Change	4R3	4	0	3,499,483.17:0	
2906	96	180	14:03:22.866		DMS:	*US-RUNUP	R7, TRACK 4, REV, TIC 2557.79 +/- 6	4R3	4	0	3,499,483.17:0	
2907	96	180	14:03:32.400		DMS:	*RECORD	R7, TRACK 4, REV, TIC *2559.07 +/- 6	4R3	4	0	3,499,483.31:3	
2908	96	180	14:03:40.200		DMS:	*RUNDOWN	R7, TRACK 4, REV, TIC *2557.24 +/- 6	4R3	4	0	3,499,483.43:0	
2909	96	180	14:03:40.200	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,499,483.43:0	
2910	96	180	14:03:41.600		DMS:	*READY	RDY, TRACK 4, REV, TIC *2557.18 +/- 6	4R3	4	0	3,499,483.45:1	
2911	96	180	14:06:12.200	165HF4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,499,485.89:0	
2912	96	180	14:06:12.866	165HF4B	7SCAN	NORM,29.182,8.79	Check S/P Position	4R3	4	0	3,499,485.90:0	
2913	96	180	14:10:06.866	117HF	CSMOS	GS	**** GROUP START CSMOS	4R3	4	0	3,499,489.77:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2914	96	180	14:10:16.200	117HF105A106A4A	7STRP	0.0,0.016002,0.0	Slew = 0.16	4R3	4	0	3,499,490:00:0	
2915	96	180	14:10:16.200	176HF6A	6TMREC	BPT	7.68 KBPS PPR BURST TO TAPE Record Mode C	4R3	4	0	3,499,490:00:0	
2916	96	180	14:12:20.200	117HF105A106A4B	7STRP	-0.002,-0.016052	Slew = 12.01	4R3	4	0	3,499,492:04:0	
2917	96	180	14:12:32.200	117HF105A106A4C	7STRP	0.0,0.016002,0.0	Slew = 0.16	4R3	4	0	3,499,492:22:0	
2918	96	180	14:14:36.200	117HF105A106A4D	7STRP	-0.002,-0.016052	Slew = 12.01	4R3	4	0	3,499,494:26:0	
2919	96	180	14:14:48.200	117HF105A106A4E	7STRP	0.0,0.016002,0.0	Slew = 0.16	4R3	4	0	3,499,494:44:0	
2920	96	180	14:16:52.200	117HF105A106A4F	7STRP	-0.002,-0.016052	Slew = 12.01	4R3	4	0	3,499,496:48:0	
2921	96	180	14:17:04.200	117HF105A106A4G	7STRP	0.0,0.016002,0.0	Slew = 0.16	4R3	4	0	3,499,496:66:0	
2922	96	180	14:19:08.200	117HF105A106A4H	7STRP	-0.002,-0.016052	Slew = 12.01	4R3	4	0	3,499,498:70:0	
2923	96	180	14:19:20.200	117HF105A106A4I	7STRP	0.0,0.016002,0.0	Slew = 0.16	4R3	4	0	3,499,498:88:0	
2924	96	180	14:21:24.200	117HF105A106A4J	7STRP	-0.002,-0.016052	Slew = 12.01	4R3	4	0	3,499,501:01:0	
2925	96	180	14:21:36.200	117HF105A106A4K	7STRP	0.0,0.016002,0.0	Slew = 0.16	4R3	4	0	3,499,501:19:0	
2926	96	180	14:23:40.200	117HF105A106A4L	7STRP	-0.002,-0.016052	Slew = 12.01	4R3	4	0	3,499,503:23:0	
2927	96	180	14:23:52.200	117HF105A106A4M	7STRP	0.0,0.016002,0.0	Slew = 0.16	4R3	4	0	3,499,503:41:0	
2928	96	180	14:24:29.533	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	3,499,504:06:0	
2929	96	180	14:24:29.533		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 2557.18 +/- 6	4R3	4	0	3,499,504:06:0	
2930	96	180	14:24:39.066		DMS:	: *RECORD	R7, TRACK 4, REV, TIC *2558.45 +/- 6	4R3	4	0	3,499,504:20:3	
2931	96	180	14:24:59.533	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,499,504:51:0	
2932	96	180	14:24:59.533		DMS:	: *RUNDOWN	R7, TRACK 4, REV, TIC *2553.66 +/- 6	4R3	4	0	3,499,504:51:0	
2933	96	180	14:25:00.933		DMS:	: *READY	RDY, TRACK 4, REV, TIC *2553.60 +/- 6	4R3	4	0	3,499,504:53:1	
2934	96	180	14:25:56.200	117HF105A106A4N	7STRP	-0.002,-0.016052	Slew = 12.01	4R3	4	0	3,499,505:45:0	
2935	96	180	14:26:08.200	117HF105A106A4O	7STRP	0.0,0.016002,0.0	Slew = 0.16	4R3	4	0	3,499,505:63:0	
2936	96	180	14:28:12.200	117HF105A106A4P	7STRP	-0.002,-0.016052	Slew = 12.01	4R3	4	0	3,499,507:67:0	
2937	96	180	14:28:24.200	117HF105A106A4Q	7STRP	0.0,0.016002,0.0	Slew = 0.16	4R3	4	0	3,499,507:85:0	
2938	96	180	14:30:28.200	117HF105A106A4R	7STRP	-0.002,-0.016052	Slew = 12.01	4R3	4	0	3,499,509:89:0	
2939	96	180	14:30:40.200	117HF105A106A4S	7STRP	0.0,0.016002,0.0	Slew = 0.16	4R3	4	0	3,499,510:16:0	
2940	96	180	14:32:44.200	117HF105A106A4T	7STRP	-0.002,-0.016052	Slew = 12.01	4R3	4	0	3,499,512:20:0	
2941	96	180	14:32:56.200	117HF105A106A4U	7STRP	0.0,0.016002,0.0	Slew = 0.16	4R3	4	0	3,499,512:38:0	
2942	96	180	14:35:00.200	117HF105A106A4V	7STRP	-0.002,-0.016052	Slew = 12.01	4R3	4	0	3,499,514:42:0	
2943	96	180	14:35:12.200	117HF105A106A4W	7STRP	0.0,0.016002,0.0	Slew = 0.16	4R3	4	0	3,499,514:60:0	
2944	96	180	14:37:16.200	117HF105A106A4X	7STRP	-0.002,-0.016052	Slew = 12.01	4R3	4	0	3,499,516:64:0	
2945	96	180	14:37:28.200	117HF105A106A4Y	7STRP	0.0,0.016002,0.0	Slew = 0.16	4R3	4	0	3,499,516:82:0	
2946	96	180	14:38:54.200		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 2553.60 +/- 6	4R3	4	0	3,499,518:29:0	
2947	96	180	14:38:54.200	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	3,499,518:29:0	
2948	96	180	14:39:03.733		DMS:	: *RECORD	R7, TRACK 4, REV, TIC *2554.87 +/- 6	4R3	4	0	3,499,518:43:3	
2949	96	180	14:39:24.200		DMS:	: *RUNDOWN	R7, TRACK 4, REV, TIC *2550.08 +/- 6	4R3	4	0	3,499,518:74:0	
2950	96	180	14:39:24.200	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,499,518:74:0	
2951	96	180	14:39:25.600		DMS:	: *READY	RDY, TRACK 4, REV, TIC *2550.02 +/- 6	4R3	4	0	3,499,518:76:1	
2952	96	180	14:39:32.200	117HF105A106A4Z	7STRP	-0.002,-0.016052	Slew = 12.01	4R3	4	0	3,499,518:86:0	
2953	96	180	14:39:44.200	117HF105A106A4AA	7STRP	0.0,0.016002,0.0	Slew = 0.16	4R3	4	0	3,499,519:13:0	
2954	96	180	14:40:00.200	488AV6A	6TMSED	NORM,CL5	Sci, Eng, and D/L Chan	4R3	4	0	3,499,519:37:0	
2955	96	180	14:41:48.200	117HF105A106A4AB	7STRP	-0.002,-0.016052	Slew = 12.01	4R3	4	0	3,499,521:17:0	
2956	96	180	14:42:00.200	117HF105A106A4AC	7STRP	0.0,0.016002,0.0	Slew = 0.16	4R3	4	0	3,499,521:35:0	
2957	96	180	14:44:04.200	117HF105A106A4AD	7STRP	-0.002,-0.016052	Slew = 12.01	4R3	4	0	3,499,523:39:0	
2958	96	180	14:44:16.200	117HF105A106A4AE	7STRP	0.0,0.016002,0.0	Slew = 0.16	4R3	4	0	3,499,523:57:0	
2959	96	180	14:46:20.200	117HF105A106A4AF	7STRP	-0.002,-0.016052	Slew = 12.01	4R3	4	0	3,499,525:61:0	
2960	96	180	14:46:32.200	117HF105A106A4AG	7STRP	0.0,0.016002,0.0	Slew = 0.16	4R3	4	0	3,499,525:79:0	
2961	96	180	14:48:36.200	117HF105A106A4AH	7STRP	-0.002,-0.016052	Slew = 12.01	4R3	4	0	3,499,527:83:0	
2962	96	180	14:48:48.200	117HF105A106A4AI	7STRP	0.0,0.016002,0.0	Slew = 0.16	4R3	4	0	3,499,528:10:0	
2963	96	180	14:50:52.200	117HF105A106A4AJ	7STRP	-0.002,-0.016052	Slew = 12.01	4R3	4	0	3,499,530:14:0	
2964	96	180	14:51:04.200	117HF105A106A4AK	7STRP	0.0,0.016002,0.0	Slew = 0.16	4R3	4	0	3,499,530:32:0	
2965	96	180	14:53:08.200	117HF105A106A4AL	7STRP	-0.002,-0.016052	Slew = 12.01	4R3	4	0	3,499,532:36:0	
2966	96	180	14:53:18.866	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	3,499,532:52:0	
2967	96	180	14:53:18.866		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 2550.02 +/- 6	4R3	4	0	3,499,532:52:0	
2968	96	180	14:53:20.200	117HF105A106A4AM	7STRP	0.0,0.016002,0.0	Slew = 0.16	4R3	4	0	3,499,532:54:0	



Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2969	96	180	14:53:28.400		DMS:	:*RECORD	R7, TRACK 4, REV, TIC *2551.29 +/- 6	4R3	4	0	3,499,532.66:3	
2970	96	180	14:53:48.866	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,499,533.06:0	
2971	96	180	14:53:48.866		DMS:	:*RUNDOWN	R7, TRACK 4, REV, TIC *2546.49 +/- 6	4R3	4	0	3,499,533.06:0	
2972	96	180	14:53:50.266		DMS:	:*READY	RDY, TRACK 4, REV, TIC *2546.43 +/- 6	4R3	4	0	3,499,533.08:1	
2973	96	180	14:55:24.200	117HF105A106A4AN	7STRP	-0.002,-0.016052	Slew =12.01	4R3	4	0	3,499,534:58:0	
2974	96	180	14:55:36.200	117HF105A106A4AO	7STRP	0.0,0.016002,0.0	Slew =-0.16	4R3	4	0	3,499,536:80:0	
2975	96	180	14:57:40.200	117HF105A106A4AP	7STRP	-0.002,-0.016052	Slew =12.01	4R3	4	0	3,499,536:80:0	
2976	96	180	14:57:52.200	117HF105A106A4AQ	7STRP	0.0,0.016002,0.0	Slew =-0.16	4R3	4	0	3,499,537:07:0	
2977	96	180	14:59:56.200	117HF105A106A4AR	7STRP	-0.002,-0.016052	Slew =12.01	4R3	4	0	3,499,539:11:0	
2978	96	180	15:00:08.200	117HF105A106A4AS	7STRP	0.0,0.016002,0.0	Slew =-0.16	4R3	4	0	3,499,539:29:0	
2979	96	180	15:02:12.200	117HF105A106A4AT	7STRP	-0.002,-0.016052	Slew =12.01	4R3	4	0	3,499,541:33:0	
2980	96	180	15:02:24.200	117HF105A106A4AU	7STRP	0.0,0.016002,0.0	Slew =-0.16	4R3	4	0	3,499,541:51:0	
2981	96	180	15:04:28.200	117HF105A106A4AV	7STRP	-0.002,-0.016052	Slew =12.01	4R3	4	0	3,499,543:55:0	
2982	96	180	15:04:40.200	117HF105A106A4AW	7STRP	0.0,0.016002,0.0	Slew =-0.16	4R3	4	0	3,499,543:73:0	
2983	96	180	15:06:44.200	117HF105A106A4AX	7STRP	-0.002,-0.016052	Slew =12.01	4R3	4	0	3,499,545:77:0	
2984	96	180	15:06:56.200	117HF105A106A4AY	7STRP	0.0,0.016002,0.0	Slew =-0.16	4R3	4	0	3,499,546:04:0	
2985	96	180	15:07:43.533	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	3,499,546:75:0	
2986	96	180	15:07:43.533		DMS:	:*US-RUNUP	R7, TRACK 4, REV, TIC 2546.43 +/- 6	4R3	4	0	3,499,546:75:0	
2987	96	180	15:07:53.066		DMS:	:*RECORD	R7, TRACK 4, REV, TIC *2547.71 +/- 6	4R3	4	0	3,499,546:89:3	
2988	96	180	15:08:13.533	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,499,547:29:0	
2989	96	180	15:08:13.533		DMS:	:*RUNDOWN	R7, TRACK 4, REV, TIC *2542.91 +/- 6	4R3	4	0	3,499,547:29:0	
2990	96	180	15:08:14.933		DMS:	:*READY	RDY, TRACK 4, REV, TIC *2542.85 +/- 6	4R3	4	0	3,499,547:31:1	
2991	96	180	15:09:00.200	117HF105A106A4AZ	7STRP	-0.002,-0.016052	Slew =12.01	4R3	4	0	3,499,548:08:0	
2992	96	180	15:09:12.200	117HF105A106A4BA	7STRP	0.0,0.016002,0.0	Slew =-0.16	4R3	4	0	3,499,548:26:0	
2993	96	180	15:11:16.200	117HF105A106A4BB	7STRP	-0.002,-0.016052	Slew =12.01	4R3	4	0	3,499,550:30:0	
2994	96	180	15:11:28.200	117HF105A106A4BC	7STRP	0.0,0.016002,0.0	Slew =-0.16	4R3	4	0	3,499,550:48:0	
2995	96	180	15:13:32.200	117HF105A106A4BD	7STRP	-0.002,-0.016052	Slew =12.01	4R3	4	0	3,499,552:52:0	
2996	96	180	15:13:44.200	117HF105A106A4BE	7STRP	0.0,0.016002,0.0	Slew =-0.16	4R3	4	0	3,499,552:70:0	
2997	96	180	15:15:48.200	117HF105A106A4BF	7STRP	-0.002,-0.016052	Slew =12.01	4R3	4	0	3,499,554:74:0	
2998	96	180	15:16:00.200	117HF105A106A4BG	7STRP	0.0,0.016002,0.0	Slew =-0.16	4R3	4	0	3,499,555:01:0	
2999	96	180	15:18:04.200	117HF105A106A4BH	7STRP	-0.002,-0.016052	Slew =12.01	4R3	4	0	3,499,557:05:0	
3000	96	180	15:18:16.200	117HF105A106A4BI	7STRP	0.0,0.016002,0.0	Slew =-0.16	4R3	4	0	3,499,557:23:0	
3001	96	180	15:20:20.200	117HF105A106A4BJ	7STRP	-0.002,-0.016052	Slew =12.01	4R3	4	0	3,499,559:27:0	
3002	96	180	15:20:32.200	117HF105A106A4BK	7STRP	0.0,0.016002,0.0	Slew =-0.16	4R3	4	0	3,499,559:45:0	
3003	96	180	15:22:08.200		DMS:	:*US-RUNUP	R7, TRACK 4, REV, TIC 2542.85 +/- 7	4R3	4	0	3,499,561:07:0	
3004	96	180	15:22:08.200	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	3,499,561:07:0	
3005	96	180	15:22:17.733		DMS:	:*RECORD	R7, TRACK 4, REV, TIC *2544.13 +/- 7	4R3	4	0	3,499,561:21:3	
3006	96	180	15:22:36.200	117HF105A106A4BL	7STRP	-0.002,-0.016052	Slew =12.01	4R3	4	0	3,499,561:49:0	
3007	96	180	15:22:38.200		DMS:	:*RUNDOWN	R7, TRACK 4, REV, TIC *2539.33 +/- 7	4R3	4	0	3,499,561:52:0	
3008	96	180	15:22:38.200	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,499,561:52:0	
3009	96	180	15:22:39.600		DMS:	:*READY	RDY, TRACK 4, REV, TIC *2539.27 +/- 7	4R3	4	0	3,499,561:54:1	
3010	96	180	15:22:48.200	117HF105A106A4BM	7STRP	0.0,0.016002,0.0	Slew =-0.16	4R3	4	0	3,499,561:67:0	
3011	96	180	15:24:52.200	117HF105A106A4BN	7STRP	-0.002,-0.016052	Slew =12.01	4R3	4	0	3,499,563:71:0	
3012	96	180	15:25:04.200	117HF105A106A4BO	7STRP	0.0,0.016002,0.0	Slew =-0.16	4R3	4	0	3,499,563:89:0	
3013	96	180	15:27:08.200	117HF105A106A4BP	7STRP	-0.002,-0.016052	Slew =12.01	4R3	4	0	3,499,566:02:0	
3014	96	180	15:27:20.200	117HF105A106A4BQ	7STRP	0.0,0.016002,0.0	Slew =-0.16	4R3	4	0	3,499,566:20:0	
3015	96	180	15:29:24.200	117HF105A106A4BR	7STRP	-0.002,-0.016052	Slew =12.01	4R3	4	0	3,499,568:24:0	
3016	96	180	15:29:36.200	117HF105A106A4BS	7STRP	0.0,0.016002,0.0	Slew =-0.16	4R3	4	0	3,499,568:42:0	
3017	96	180	15:31:40.200	117HF105A106A4BT	7STRP	-0.002,-0.016052	Slew =12.01	4R3	4	0	3,499,570:46:0	
3018	96	180	15:31:52.200	117HF105A106A4BU	7STRP	0.0,0.016002,0.0	Slew =-0.16	4R3	4	0	3,499,570:64:0	
3019	96	180	15:33:56.200	117HF105A106A4BV	7STRP	-0.002,-0.016052	Slew =12.01	4R3	4	0	3,499,572:68:0	
3020	96	180	15:34:08.200	117HF105A106A4BW	7STRP	0.0,0.016002,0.0	Slew =-0.16	4R3	4	0	3,499,572:86:0	
3021	96	180	15:36:12.200	117HF105A106A4BX	7STRP	-0.002,-0.016052	Slew =12.01	4R3	4	0	3,499,574:90:0	
3022	96	180	15:36:24.200	117HF105A106A4BY	7STRP	0.0,0.016002,0.0	Slew =-0.16	4R3	4	0	3,499,575:17:0	
3023	96	180	15:36:32.200	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	3,499,575:29:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
3024	96	180	15:36:32.200		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 2539.27 +/- 7	4R3	4	0	3,499,575:290	
3025	96	180	15:36:41.733		DMS:	: *RECORD	R7, TRACK 4, REV, TIC *2540.55 +/- 7	4R3	4	0	3,499,575:433	
3026	96	180	15:37:02.200	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,499,575:740	
3027	96	180	15:37:02.200		DMS:	: *RUNDOWN	R7, TRACK 4, REV, TIC *2535.75 +/- 7	4R3	4	0	3,499,575:740	
3028	96	180	15:37:03.600		DMS:	: *READY	RDY, TRACK 4, REV, TIC *2535.69 +/- 7	4R3	4	0	3,499,575:761	
3029	96	180	15:38:28.200	117HF105A106A4BZ	7STRP	-0.002,-0.016052	Slew =12.01	4R3	4	0	3,499,577:210	
3030	96	180	15:38:40.200	117HF105A106A4CA	7STRP	0.0,0.016002,0.0	Slew = 0.16	4R3	4	0	3,499,577:390	
3031	96	180	15:40:44.200	117HF105A106A4CB	7STRP	-0.002,-0.016052	Slew =12.01	4R3	4	0	3,499,579:430	
3032	96	180	15:40:56.200	117HF105A106A4CC	7STRP	0.0,0.016002,0.0	Slew = 0.16	4R3	4	0	3,499,579:610	
3033	96	180	15:43:00.200	117HF105A106A4CD	7STRP	-0.002,-0.016052	Slew =12.01	4R3	4	0	3,499,581:650	
3034	96	180	15:43:12.200	117HF105A106A4CE	7STRP	0.0,0.016002,0.0	Slew = 0.16	4R3	4	0	3,499,581:830	
3035	96	180	15:45:16.200	117HF105A106A4CF	7STRP	-0.002,-0.016052	Slew =12.01	4R3	4	0	3,499,583:870	
3036	96	180	15:45:28.200	117HF105A106A4CG	7STRP	0.0,0.016002,0.0	Slew = 0.16	4R3	4	0	3,499,584:140	
3037	96	180	15:47:32.200	117HF105A106A4CH	7STRP	-0.002,-0.016052	Slew =12.01	4R3	4	0	3,499,586:180	
3038	96	180	15:47:44.200	117HF105A106A4CI	7STRP	0.0,0.016002,0.0	Slew = 0.16	4R3	4	0	3,499,586:360	
3039	96	180	15:49:48.200	117HF105A106A4CJ	7STRP	-0.002,-0.016052	Slew =12.01	4R3	4	0	3,499,588:400	
3040	96	180	15:50:00.200	117HF105A106A4CK	7STRP	0.0,0.016002,0.0	Slew = 0.16	4R3	4	0	3,499,588:580	
3041	96	180	15:50:56.866	50ZZ6XX	6DMSC	RDY,0	DMS Control Tape runup 7.68kps	4R3	4	0	3,499,589:520	
3042	96	180	15:50:56.866		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 2535.69 +/- 7	4R3	4	0	3,499,589:520	
3043	96	180	15:51:06.400		DMS:	: *RECORD	R7, TRACK 4, REV, TIC *2536.97 +/- 7	4R3	4	0	3,499,589:663	
3044	96	180	15:51:26.866		DMS:	: *RUNDOWN	R7, TRACK 4, REV, TIC *2532.17 +/- 7	4R3	4	0	3,499,590:060	
3045	96	180	15:51:26.866	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,499,590:060	
3046	96	180	15:51:28.266		DMS:	: *READY	RDY, TRACK 4, REV, TIC *2532.11 +/- 7	4R3	4	0	3,499,590:081	
3047	96	180	15:52:04.200	117HF105A106A4CL	7STRP	-0.002,-0.016052	Slew =12.01	4R3	4	0	3,499,590:620	
3048	96	180	15:52:16.200	117HF105A106A4CM	7STRP	0.0,0.016002,0.0	Slew = 0.16	4R3	4	0	3,499,590:800	
3049	96	180	15:54:20.200	117HF105A106A4CN	7STRP	-0.002,-0.016052	Slew =12.01	4R3	4	0	3,499,592:840	
3050	96	180	15:54:32.200	117HF105A106A4CO	7STRP	0.0,0.016002,0.0	Slew = 0.16	4R3	4	0	3,499,593:110	
3051	96	180	15:56:36.200	117HF105A106A4CP	7STRP	-0.002,-0.016052	Slew =12.01	4R3	4	0	3,499,595:150	
3052	96	180	15:56:48.200	117HF105A106A4CQ	7STRP	0.0,0.016002,0.0	Slew = 0.16	4R3	4	0	3,499,595:330	
3053	96	180	15:58:52.200	117HF105A106A4CR	7STRP	-0.002,-0.016052	Slew =12.01	4R3	4	0	3,499,597:370	
3054	96	180	15:59:04.200	117HF105A106A4CS	7STRP	0.0,0.016002,0.0	Slew = 0.16	4R3	4	0	3,499,597:550	
3055	96	180	16:01:08.200	117HF105A106A4CT	7STRP	-0.002,-0.016052	Slew =12.01	4R3	4	0	3,499,599:590	
3056	96	180	16:01:20.200	117HF105A106A4CU	7STRP	0.0,0.016002,0.0	Slew = 0.16	4R3	4	0	3,499,599:770	
3057	96	180	16:03:24.200	117HF105A106A4CV	7STRP	-0.002,-0.016052	Slew =12.01	4R3	4	0	3,499,601:810	
3058	96	180	16:03:36.200	117HF105A106A4CW	7STRP	0.0,0.016002,0.0	Slew = 0.16	4R3	4	0	3,499,602:080	
3059	96	180	16:05:21.533	50ZZ6XX	6DMSC	RDY,0	DMS Control Tape runup 7.68kps	4R3	4	0	3,499,603:750	
3060	96	180	16:05:21.533		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 2532.11 +/- 7	4R3	4	0	3,499,603:750	
3061	96	180	16:05:31.066		DMS:	: *RECORD	R7, TRACK 4, REV, TIC *2533.38 +/- 7	4R3	4	0	3,499,603:893	
3062	96	180	16:05:40.200	117HF105A106A4CX	7STRP	-0.002,-0.016052	Slew =12.01	4R3	4	0	3,499,604:120	
3063	96	180	16:05:51.533	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,499,604:290	
3064	96	180	16:05:51.533		DMS:	: *RUNDOWN	R7, TRACK 4, REV, TIC *2528.59 +/- 7	4R3	4	0	3,499,604:290	
3065	96	180	16:05:52.200	117HF105A106A4CY	7STRP	0.0,0.016002,0.0	Slew = 0.16	4R3	4	0	3,499,604:300	
3066	96	180	16:05:52.933		DMS:	: *READY	RDY, TRACK 4, REV, TIC *2528.53 +/- 7	4R3	4	0	3,499,604:311	
3067	96	180	16:07:56.200	117HF105A106A4CZ	7STRP	-0.002,-0.016052	Slew =12.01	4R3	4	0	3,499,606:340	
3068	96	180	16:08:08.200	117HF105A106A4DA	7STRP	0.0,0.016002,0.0	Slew = 0.16	4R3	4	0	3,499,606:520	
3069	96	180	16:10:12.200	117HF105A106A4DB	7STRP	-0.002,-0.016052	Slew =12.01	4R3	4	0	3,499,608:560	
3070	96	180	16:10:24.200	117HF105A106A4DC	7STRP	0.0,0.016002,0.0	Slew = 0.16	4R3	4	0	3,499,608:740	
3071	96	180	16:12:28.200	117HF105A106A4DD	7STRP	-0.002,-0.016052	Slew =12.01	4R3	4	0	3,499,610:780	
3072	96	180	16:12:40.200	117HF105A106A4DE	7STRP	0.0,0.016002,0.0	Slew = 0.16	4R3	4	0	3,499,611:050	
3073	96	180	16:14:44.200	117HF105A106A4DF	7STRP	-0.002,-0.016052	Slew =12.01	4R3	4	0	3,499,613:090	
3074	96	180	16:14:56.200	117HF105A106A4DG	7STRP	0.0,0.016002,0.0	Slew = 0.16	4R3	4	0	3,499,613:270	
3075	96	180	16:17:00.200	117HF105A106A4DH	7STRP	-0.002,-0.016052	Slew =12.01	4R3	4	0	3,499,615:310	
3076	96	180	16:17:12.200	117HF105A106A4DI	7STRP	0.0,0.016002,0.0	Slew = 0.16	4R3	4	0	3,499,615:490	
3077	96	180	16:19:16.200	117HF105A106A4DJ	7STRP	-0.002,-0.016052	Slew =12.01	4R3	4	0	3,499,617:530	
3078	96	180	16:19:28.200	117HF105A106A4DK	7STRP	0.0,0.016002,0.0	Slew = 0.16	4R3	4	0	3,499,617:710	



Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
3079	96	180	16:19:46.200	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	3,499,618:07.0	
3080	96	180	16:19:46.200		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 2528.53 +/- 7	4R3	4	0	3,499,618:07.0	
3081	96	180	16:19:55.733		DMS:	: *RECORD	R7, TRACK 4, REV, TIC *2529.80 +/- 7	4R3	4	0	3,499,618:21.3	
3082	96	180	16:20:16.200		DMS:	: *RUNDOWN	R7, TRACK 4, REV, TIC *2525.01 +/- 7	4R3	4	0	3,499,618:52.0	
3083	96	180	16:20:17.600	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,499,618:52.0	
3084	96	180	16:20:17.600		DMS:	: *READY	RDY, TRACK 4, REV, TIC *2524.95 +/- 7	4R3	4	0	3,499,618:54.1	
3085	96	180	16:21:32.200	117HF105A106A4DL	7STRP	-0.002,-0.016052	Slew =12.01	4R3	4	0	3,499,619:75.0	
3086	96	180	16:21:44.200	117HF105A106A4DM	7STRP	0.0,0.016002,0.0	Slew =-0.16	4R3	4	0	3,499,620:02.0	
3087	96	180	16:23:48.200	117HF105A106A4DN	7STRP	-0.002,-0.016052	Slew =12.01	4R3	4	0	3,499,622:06.0	
3088	96	180	16:24:00.200	117HF105A106A4DO	7STRP	0.0,0.016002,0.0	Slew =-0.16	4R3	4	0	3,499,622:24.0	
3089	96	180	16:26:04.200	117HF105A106A4DP	7STRP	-0.002,-0.016052	Slew =12.01	4R3	4	0	3,499,624:28.0	
3090	96	180	16:26:16.200	117HF105A106A4DQ	7STRP	0.0,0.016002,0.0	Slew =-0.16	4R3	4	0	3,499,624:46.0	
3091	96	180	16:28:20.200	117HF105A106A4DR	7STRP	-0.002,-0.016052	Slew =12.01	4R3	4	0	3,499,626:50.0	
3092	96	180	16:28:32.200	117HF105A106A4DS	7STRP	0.0,0.016002,0.0	Slew =-0.16	4R3	4	0	3,499,626:68.0	
3093	96	180	16:30:36.200	117HF105A106A4DT	7STRP	-0.002,-0.016052	Slew =12.01	4R3	4	0	3,499,628:72.0	
3094	96	180	16:30:48.200	117HF105A106A4DU	7STRP	0.0,0.016002,0.0	Slew =-0.16	4R3	4	0	3,499,628:90.0	
3095	96	180	16:32:52.200	117HF105A106A4DV	7STRP	-0.002,-0.016052	Slew =12.01	4R3	4	0	3,499,631:03.0	
3096	96	180	16:33:04.200	117HF105A106A4DW	7STRP	0.0,0.016002,0.0	Slew =-0.16	4R3	4	0	3,499,631:21.0	
3097	96	180	16:34:10.866		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 2524.95 +/- 8	4R3	4	0	3,499,632:30.0	
3098	96	180	16:34:10.866	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	3,499,632:30.0	
3099	96	180	16:34:20.400		DMS:	: *RECORD	R7, TRACK 4, REV, TIC *2526.22 +/- 8	4R3	4	0	3,499,632:44.3	
3100	96	180	16:34:20.400		DMS:	: *RUNDOWN	R7, TRACK 4, REV, TIC *2521.43 +/- 8	4R3	4	0	3,499,632:75.0	
3101	96	180	16:34:40.866	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,499,632:75.0	
3102	96	180	16:34:42.266		DMS:	: *READY	RDY, TRACK 4, REV, TIC *2521.37 +/- 8	4R3	4	0	3,499,632:77.1	
3103	96	180	16:35:08.200	117HF105A106A4DX	7STRP	-0.002,-0.016052	Slew =12.01	4R3	4	0	3,499,633:25.0	
3104	96	180	16:35:20.200	117HF105A106A4DY	7STRP	0.0,0.016002,0.0	Slew =-0.16	4R3	4	0	3,499,633:43.0	
3105	96	180	16:37:24.200	117HF105A106A4DZ	7STRP	-0.002,-0.016052	Slew =12.01	4R3	4	0	3,499,635:47.0	
3106	96	180	16:37:36.200	117HF105A106A4EA	7STRP	0.0,0.016002,0.0	Slew =-0.16	4R3	4	0	3,499,635:65.0	
3107	96	180	16:39:40.200	117HF105A106A4EB	7STRP	-0.002,-0.016052	Slew =12.01	4R3	4	0	3,499,637:69.0	
3108	96	180	16:39:52.200	117HF105A106A4EC	7STRP	0.0,0.016002,0.0	Slew =-0.16	4R3	4	0	3,499,637:87.0	
3109	96	180	16:40:00.200	481SC4A	7VECT		Inert vect update UTC	4R3	4	0	3,499,638:08.0	
3110	96	180	16:41:56.200	117HF105A106A4ED	7STRP	-0.002,-0.016052	Slew =12.01	4R3	4	0	3,499,640:00.0	
3111	96	180	16:42:08.200	117HF105A106A4EE	7STRP	0.0,0.016002,0.0	Slew =-0.16	4R3	4	0	3,499,640:18.0	
3112	96	180	16:44:12.200	117HF105A106A4EF	7STRP	-0.002,-0.016052	Slew =12.01	4R3	4	0	3,499,642:22.0	
3113	96	180	16:44:24.200	117HF105A106A4EG	7STRP	0.0,0.016002,0.0	Slew =-0.16	4R3	4	0	3,499,642:40.0	
3114	96	180	16:46:28.200	117HF105A106A4EH	7STRP	-0.002,-0.016052	Slew =12.01	4R3	4	0	3,499,644:44.0	
3115	96	180	16:46:40.200	117HF105A106A4EI	7STRP	0.0,0.016002,0.0	Slew =-0.16	4R3	4	0	3,499,644:62.0	
3116	96	180	16:48:34.866		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 2521.37 +/- 8	4R3	4	0	3,499,646:52.0	
3117	96	180	16:48:34.866	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	3,499,646:52.0	
3118	96	180	16:48:44.200	117HF105A106A4EJ	7STRP	-0.002,-0.016052	Slew =12.01	4R3	4	0	3,499,646:66.0	
3119	96	180	16:48:44.400		DMS:	: *RECORD	R7, TRACK 4, REV, TIC *2522.64 +/- 8	4R3	4	0	3,499,646:66.3	
3120	96	180	16:48:56.200	117HF105A106A4EK	7STRP	0.0,0.016002,0.0	Slew =-0.16	4R3	4	0	3,499,646:84.0	
3121	96	180	16:49:04.866	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,499,647:06.0	
3122	96	180	16:49:04.866		DMS:	: *RUNDOWN	R7, TRACK 4, REV, TIC *2517.84 +/- 8	4R3	4	0	3,499,647:06.0	
3123	96	180	16:49:06.266		DMS:	: *READY	RDY, TRACK 4, REV, TIC *2517.78 +/- 8	4R3	4	0	3,499,647:08.1	
3124	96	180	16:51:00.200	117HF105A106A4EL	7STRP	-0.002,-0.016052	Slew =12.01	4R3	4	0	3,499,648:88.0	
3125	96	180	16:51:12.200	117HF105A106A4EM	7STRP	0.0,0.016002,0.0	Slew =-0.16	4R3	4	0	3,499,649:15.0	
3126	96	180	16:53:16.200	117HF105A106A4EN	7STRP	-0.002,-0.016052	Slew =12.01	4R3	4	0	3,499,651:19.0	
3127	96	180	16:53:28.200	117HF105A106A4EO	7STRP	0.0,0.016002,0.0	Slew =-0.16	4R3	4	0	3,499,651:37.0	
3128	96	180	16:55:32.200	117HF105A106A4EP	7STRP	-0.002,-0.016052	Slew =12.01	4R3	4	0	3,499,653:41.0	
3129	96	180	16:55:44.200	117HF105A106A4EQ	7STRP	0.0,0.016002,0.0	Slew =-0.16	4R3	4	0	3,499,653:59.0	
3130	96	180	16:57:48.200		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 2517.78 +/- 8	4R3	4	0	3,499,655:63.0	
3131	96	180	16:57:48.200	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	3,499,655:63.0	
3132	96	180	16:57:48.200	176HF6B	6TMREC	NRC	NO RECORD Record Mode Change	4R3	4	0	3,499,655:63.0	
3133	96	180	16:57:48.200	117HF11A	CSMOS	GE	**** GROUP END CSMOS	4R3	4	0	3,499,655:63.0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
3134	96	180	16:57:57.733		DMS:	:*RECORD	R7, TRACK 4, REV, TIC *2519.06 +/- 8	4R3	4	0	3,499,655:77.3	
3135	96	180	16:58:12.866		DMS:	:*RUNDOWN	R7, TRACK 4, REV, TIC *2515.51 +/- 8	4R3	4	0	3,499,656:09.0	
3136	96	180	16:58:12.866	50Z26RD	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,499,656:09.0	
3137	96	180	16:58:14.266		DMS:	:*READY	RDY, TRACK 4, REV, TIC *2515.45 +/- 8	4R3	4	0	3,499,656:11.1	
3138	96	180	17:00:06.866	165EQ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,499,657:89.0	
3139	96	180	17:00:07.533	165EQ4B	7SCAN	NORM:53.194,16.1	Check S/P Position	4R3	4	0	3,499,657:90.0	
3140	96	180	17:00:12.200	G1INCHEMIS04-		-----START-----		4R3	4	0	:	
3141	96	180	17:03:05.533	125EQ	NIMSINIT	GS	##### GROUP START INIT	4R3	4	0	3,499,660:84.0	
3142	96	180	17:03:05.533	125EQ11A	NIMSINIT	GE	##### GROUP END INIT	4R3	4	0	3,499,660:84.0	
3143	96	180	17:03:05.533	125EQ4A	37IST	1,2,0,OFF,0,1,0	Chopper ON, Sync, Chopper (Ref)Gain State	2R3	4	0	3,499,660:84.0	
3144	96	180	17:04:00.866		DMS:	:*US-RUNUP	R7, TRACK 4, REV, TIC 2515.45 +/- 8	2R3	4	0	3,499,661:76.0	
3145	96	180	17:04:10.400	175EQ422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	3,499,661:76.0	
3146	96	180	17:04:01.533	117EQ	CSMOS	GS	**** GROUP START CSMOS	2R3	4	0	3,499,661:77.0	
3147	96	180	17:04:06.200	127EQ	NIMSTAB	GS	%% %% %% GROUP START TAB	2R3	4	0	3,499,661:84.0	
3148	96	180	17:04:06.866	127EQ4A	37ETB	07,C7,02,01,80,0	Loads wavelength edit table	2R3	4	0	3,499,661:85.0	
3149	96	180	17:04:10.200	175EQ176A6A	6TMREC	LPU	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R3	4	0	3,499,661:90.0	
3150	96	180	17:04:10.400		DMS:	:*RECORD	R7, TRACK 4, REV, TIC *2516.73 +/- 8	2R3	4	0	3,499,661:90.3	
3151	96	180	17:04:10.866	117EQ105A106A4A	7STRP	0.0035,0.0,0.0,0.0	Slew =-0.03	2R3	4	0	3,499,662:00.0	
3152	96	180	17:04:10.891	G1INCHEMIS04-	NIMPBK	301EQ	MONITORING OF IO'S DAYSIDE	2R3	4	0	:	
3153	96	180	17:04:14.866	117EQ11A	NIMSTAB	GE	%% %% %% GROUP END TAB	2R3	4	0	3,499,662:06.0	
3154	96	180	17:06:15.533	117EQ11A	CSMOS	GE	**** GROUP END CSMOS	2R3	4	0	3,499,664:05.0	
3155	96	180	17:06:15.557	G1INCHEMIS04-	DESEL	300EQ	MONITORING OF IO'S DAYSIDE	2R3	4	0	:	
3156	96	180	17:06:25.533	175EQ422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,499,664:20.0	
3157	96	180	17:06:25.533		DMS:	:*RUNDOWN	R7, TRACK 4, REV, TIC *2485.06 +/- 8	2R3	4	0	3,499,664:20.0	
3158	96	180	17:06:25.533	175EQ6A	6TMREC	NRC	NO RECORD Record Mode Change	2R3	4	0	3,499,664:20.0	
3159	96	180	17:06:26.933		DMS:	:*READY	RDY, TRACK 4, REV, TIC *2485.00 +/- 8	2R3	4	0	3,499,664:22.1	
3160	96	180	17:11:41.533	G1INCHEMIS04-		-----STOP-----		2R3	4	0	:	
3161	96	180	17:12:14.866	165DH4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,499,669:89.0	
3162	96	180	17:12:15.533	165DH4B	7SCAN	NORM:52.923,16.1	Check S/P Position	2R3	4	0	3,499,669:90.0	
3163	96	180	17:12:20.200	G1INIOMON_05-		-----START-----		2R3	4	0	:	
3164	96	180	17:14:12.866	125DH4A	37IST	1,2,0,OFF,0,1,0	Chopper ON, Sync, Chopper (Ref)Gain State	2R3	4	0	3,499,671:84.0	
3165	96	180	17:14:12.866	125DH	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	3,499,671:84.0	
3166	96	180	17:15:13.533	125DH4B	37MB	18,03,0,0,0,0	Selects mirror (spatial) edit table	2R3	4	0	3,499,672:84.0	
3167	96	180	17:15:13.533	125DH11A	NIMSINIT	GE	##### GROUP END INIT	2R3	4	0	3,499,672:84.0	
3168	96	180	17:15:38.200	432DH6A	6RTSL2	NIMSEL,AACNCG,RT	NIMS R/T SELECT	2R3	4	0	3,499,673:30.0	
3169	96	180	17:16:09.533	117DH	CSMOS	GS	**** GROUP START CSMOS	2R3	4	0	3,499,673:77.0	
3170	96	180	17:16:14.200	127DH4A	37IOP	7,21	Fixed Map, Grating Start Position =21	2R7	4	21	3,499,673:84.0	
3171	96	180	17:16:14.200	127DH	NIMSTAB	GS	%% %% %% GROUP START TAB	2R7	4	21	3,499,673:84.0	
3172	96	180	17:16:14.866	127DH4B	37ETB	07,C7,19,2A,95,0	Loads wavelength edit table	2R7	4	21	3,499,673:85.0	
3173	96	180	17:16:18.866	117DH105A106A4A	7STRP	0.003,0,0,0,0,0	Slew = -0.76	2R7	4	21	3,499,674:00.0	
3174	96	180	17:16:22.866	127DH11A	NIMSTAB	GE	%% %% %% GROUP END TAB	2R7	4	21	3,499,674:06.0	
3175	96	180	17:16:26.866	117DH11A	CSMOS	GE	**** GROUP END CSMOS	2R7	4	21	3,499,674:12.0	
3176	96	180	17:16:30.867	G1INIOMON_05-		-----STOP-----		2R7	4	21	:	
3177	96	180	17:16:37.533	432DR6A	6RTDS2	NIMDSL,AACNCG,RT	NIMS R/T DESELECT	2R7	4	21	3,499,674:28.0	
3178	96	180	17:17:14.866	125ER	NIMSINIT	GS	##### GROUP START INIT	2R7	4	21	3,499,674:84.0	
3179	96	180	17:17:14.866	125ER4A	37MB	0,0,0,0,0,0	Selects mirror (spatial) edit table	2R7	4	21	3,499,674:84.0	
3180	96	180	17:17:18.200	165ER4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R7	4	21	3,499,674:89.0	
3181	96	180	17:17:18.866	165ER4B	7SCAN	NORM:52.734,16.0	Check S/P Position	2R7	4	21	3,499,674:90.0	
3182	96	180	17:17:23.533	G1INNSPEC_01-		-----START-----		2R7	4	21	:	
3183	96	180	17:18:15.533	125ER11A	NIMSINIT	GE	##### GROUP END INIT	2R7	4	21	3,499,675:84.0	
3184	96	180	17:18:15.533	125ER4B	37IST	1,2,0,OFF,0,1,1	Chopper ON, Sync, Chopper (Ref)Gain State	4R7	4	21	3,499,675:84.0	
3185	96	180	17:19:08.200		DMS:	:*US-RUNUP	R28, TRACK 4, REV, TIC 2485.00 +/- 8	4R7	4	21	3,499,676:72.0	
3186	96	180	17:19:08.200	175ER422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	4R7	4	21	3,499,676:72.0	
3187	96	180	17:19:11.533	117ER	CSMOS	GS	**** GROUP START CSMOS	4R7	4	21	3,499,676:77.0	
3188	96	180	17:19:16.200	127ER4A	37IOP	3,0	Long Map, Grating Start Position =00	4R3	4	0	3,499,676:84.0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
3189	96	180	17:19:16.200	127ER	NIMSTAB	GS	%%%GROUP START TAB	4R3	4	0	3,499,676:84:0	
3190	96	180	17:19:16.866	127ER4B	37ETB	04,C4,35,FF,FF	Loads wavelength edit table	4R3	4	0	3,499,676:85:0	
3191	96	180	17:19:20.200	175ER176A6A	6TMREC	MPW	28.8 KBPS PWS + NIMS RECORD Record Mode C	4R3	4	0	3,499,676:90:0	
3192	96	180	17:19:20.266		DMS:	:*RECORD	R28, TRACK 4, REV, TIC *2484.89 +/- 9	4R3	4	0	3,499,676:90:1	
3193	96	180	17:19:20.866	117ER105A106A4A	7STRP	-0.0045,0.0,0.0,	Slew = -0.03	4R3	4	0	3,499,677:00:0	
3194	96	180	17:19:20.890	G1NNSPEC_01-	NIMPBK	301ER	NIGHTSIDE SPECTRA AT HIGH RESOLU	4R3	4	0	:	
3195	96	180	17:19:24.866	127ER11A	NIMSTAB	GE	%%%GROUP END TAB	4R3	4	0	3,499,677:06:0	
3196	96	180	17:22:00.200	G1NNSPEC_01-		-----STOP-----		4R3	4	0	:	
3197	96	180	17:22:00.200	117ER11A	CSMOS	GE	***** GROUP END CSMOS	4R3	4	0	3,499,679:57:0	
3198	96	180	17:22:00.223	G1NNSPEC_01-	DESEL	300ER	NIGHTSIDE SPECTRA AT HIGH RESOLU	4R3	4	0	:	
3199	96	180	17:32:39.533		DMS:	:*RUNDOWN	R28, TRACK 4, REV, TIC *1782.41 +/- 9	4R3	4	0	3,499,690:15:0	
3200	96	180	17:32:39.533	465KD6A	6DMSC	P7,1	DMS Control Tape P/B 7.68kbps	4R3	4	0	3,499,690:15:0	
3201	96	180	17:32:40.933		DMS:	:*RUNUP	P7, TRACK *1, *FWD, TIC *1782.19 +/- 9	4R3	4	0	3,499,690:17:1	
3202	96	180	17:32:42.400		DMS:	:*P SLEW	P7, TRACK 1, FWD, TIC *1782.31 +/- 9	4R3	4	0	3,499,690:19:3	
3203	96	180	18:08:03.533	488AV6B	6TMSED	NORM,CL4	Sci, Eng, and D/L Chan	4R3	4	0	3,499,725:16:0	
3204	96	180	18:12:08.866		DMS:	:*RUNDOWN	P7, TRACK 1, FWD, TIC *2336.95 +/- 9	4R3	4	0	3,499,729:20:0	
3205	96	180	18:12:08.866	465KD6B	6DMSC	RDY,1	DMS Control Tape stop	4R3	4	0	3,499,729:20:0	
3206	96	180	18:12:10.266		DMS:	:*READY	RDY, TRACK 1, FWD, TIC *2337.01 +/- 9	4R3	4	0	3,499,729:22:1	
3207	96	180	18:12:54.866	165EW4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,499,729:89:0	
3208	96	180	18:12:55.533	165EW4B	7SCAN	NORM,41.919,13.4	Check S/P Position	4R3	4	0	3,499,729:90:0	
3209	96	180	18:13:00.266	G1JNGRS12301-		-----START-----		4R3	4	0	:	
3210	96	180	18:15:53.533	125EW4A	371ST	1.2,0,OFF,0,1,0	Chopper ON, Sync, Chopper (Ref)Gain State	2R3	4	0	3,499,732:84:0	
3211	96	180	18:15:53.533	125EW	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	3,499,732:84:0	
3212	96	180	18:15:53.533	125EW11A	NIMSINIT	GE	##### GROUP END INIT	2R3	4	0	3,499,732:84:0	
3213	96	180	18:16:48.866	175EW422A6A	6DMSC	R7,4	DMS Control Tape runup 7.68kbp	2R3	4	0	3,499,733:76:0	
3214	96	180	18:16:48.866		DMS:	:*US-RUNUP	R7, TRACK *4, *REV, TIC 2337.01 +/- 9	2R3	4	0	3,499,733:76:0	
3215	96	180	18:16:49.533	117EW	CSMOS	GS	***** GROUP START CSMOS	2R3	4	0	3,499,733:77:0	
3216	96	180	18:16:54.200	127EW4A	371OP	5,1	Short Map, Grating Start Position =01	2R5	4	1	3,499,733:84:0	
3217	96	180	18:16:54.200	127EW	NIMSTAB	GS	%%GROUP START TAB	2R5	4	1	3,499,733:84:0	
3218	96	180	18:16:54.866	127EW4B	37ETB	00,05,FF,F8,05,	Loads wavelength edit table	2R5	4	1	3,499,733:85:0	
3219	96	180	18:16:58.200	175EW176A6A	6TMREC	LPU	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	3,499,733:90:0	
3220	96	180	18:16:58.400		DMS:	:*RECORD	R7, TRACK 4, REV, TIC *2338.29 +/- 9	2R5	4	1	3,499,733:90:0	
3221	96	180	18:16:58.866	117EW105A106A4A	7STRP	0.0104,0.0,0.0,0.0	Slew = -0.11	2R5	4	1	3,499,734:00:0	
3222	96	180	18:16:58.888	G1JNGRS12301-	NIMPBK	301EW	GRS 123 PHASE #1	2R5	4	1	:	
3223	96	180	18:17:02.866	127EW11A	NIMSTAB	GE	%%GROUP END TAB	2R5	4	1	3,499,734:06:0	
3224	96	180	18:18:48.866	117EW105A106A4B	7STRP	-0.0107,0.008,0,	Slew = 12.01	2R5	4	1	3,499,735:74:0	
3225	96	180	18:19:00.866	117EW105A106A4C	7STRP	0.0104,0.0,0.0,0.0	Slew = 0.11	2R5	4	1	3,499,736:01:0	
3226	96	180	18:20:50.866	117EW11A	CSMOS	GE	***** GROUP END CSMOS	2R5	4	1	3,499,737:75:0	
3227	96	180	18:20:50.888	G1JNGRS12301-	DESEL	300EW	GRS 123 PHASE #1	2R5	4	1	:	
3228	96	180	18:21:00.866	175EW6A	DMS:	:*RUNDOWN	R7, TRACK 4, REV, TIC *2281.46 +/- 9	2R5	4	1	3,499,737:90:0	
3229	96	180	18:21:00.866	175EW6A	6TMREC	NRC	NO RECORD Record Mode Change	2R5	4	1	3,499,737:90:0	
3230	96	180	18:21:00.866	175EW422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,499,737:90:0	
3231	96	180	18:21:02.266	G1JNGRS12301-		-----STOP-----		2R5	4	1	:	
3232	96	180	18:21:02.266		DMS:	:*READY	RDY, TRACK 4, REV, TIC *2281.40 +/- 9	2R5	4	1	3,499,738:01:1	
3233	96	180	18:21:21.533	165GW4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,499,738:30:0	
3234	96	180	18:21:22.200	165GW4B	7SCAN	NORM,52.153,16.1	Check S/P Position	2R5	4	1	3,499,738:31:0	
3235	96	180	18:21:48.866	117GW	CSMOS	GS	***** GROUP START CSMOS	2R5	4	1	3,499,738:71:0	
3236	96	180	18:21:58.200	176GW6A	6TMREC	BPT	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R5	4	1	3,499,738:85:0	
3237	96	180	18:21:58.200	117GW105A106A4A	7STRP	0.0058,0.0,0.0,0.0	Slew = 0.04	2R5	4	1	3,499,738:85:0	
3238	96	180	18:24:25.533	117GW105A106A4B	7STRP	-0.0051,0.0011,0	Slew = 12.01	2R5	4	1	3,499,741:33:0	
3239	96	180	18:24:30.866	117GW105A106A4C	7STRP	0.0058,0.0,0.0,0.0	Slew = -0.04	2R5	4	1	3,499,741:41:0	
3240	96	180	18:26:58.200	117GW105A106A4D	7STRP	-0.0051,0.0011,0	Slew = 12.01	2R5	4	1	3,499,743:80:0	
3241	96	180	18:27:03.533	117GW105A106A4E	7STRP	0.0058,0.0,0.0,0.0	Slew = -0.04	2R5	4	1	3,499,743:88:0	
3242	96	180	18:29:30.866	117GW105A106A4F	7STRP	-0.0051,0.0011,0	Slew = 12.01	2R5	4	1	3,499,746:36:0	
3243	96	180	18:29:36.200	117GW105A106A4G	7STRP	0.0058,0.0,0.0,0.0	Slew = -0.04	2R5	4	1	3,499,746:44:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
3244	96	180	18:32:03.533	117GW105A106B4A	7STRP	-0.0044,0.0011,0	Slew =12.01	2R5	4	1	3,499,748:83.0	
3245	96	180	18:32:08.866	117GW105A106B4B	7STRP	0.0048,0.0,0.0,0	Slew = 0.04	2R5	4	1	3,499,749:00.0	
3246	96	180	18:34:16.866	176GW6B	6TMREC	NRC	NO RECORD	2R5	4	1	3,499,751:10.0	Record Mode Change
3247	96	180	18:34:16.866	50ZZ6XX	6DMSC	R7.0	DMS Control	2R5	4	1	3,499,751:10.0	Tape runup 7.68kps
3248	96	180	18:34:16.866	117GW11A	CSMOS	GE	**** GROUP END	2R5	4	1	3,499,751:10.0	CSMOS
3249	96	180	18:34:16.866		DMS:	:*US-RUNUP	R7, TRACK 4, REV, TIC 2281.40 +/- 9	2R5	4	1	3,499,751:10.0	
3250	96	180	18:34:26.400		DMS:	:*RECORD	R7, TRACK 4, REV, TIC *2282.68 +/- 9	2R5	4	1	3,499,751:24.3	
3251	96	180	18:34:44.200		DMS:	:*RUNDOWN	R7, TRACK 4, REV, TIC *2278.51 +/- 9	2R5	4	1	3,499,751:51.0	
3252	96	180	18:34:44.200	50ZZ6RE	6DMSC	RDY.0	DMS Control	2R5	4	1	3,499,751:51.0	Tape stop
3253	96	180	18:34:45.600		DMS:	:*READY	RDY, TRACK 4, REV, TIC *2278.45 +/- 9	2R5	4	1	3,499,751:53.1	
3254	96	180	18:35:09.533	165HB4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,499,751:89.0	
3255	96	180	18:35:10.200	165HB4B	7SCAN	NORM,41.673,13.5	Check S/P Position	2R5	4	1	3,499,751:90.0	
3256	96	180	18:36:02.200	117HB	CSMOS	GS	**** GROUP START	2R5	4	1	3,499,752:77.0	CSMOS
3257	96	180	18:36:11.533	117HB105A106A4A	7STRP	0.002,0.01,0.0,0.0	Slew = 0.16	2R5	4	1	3,499,753:00.0	
3258	96	180	18:36:11.533	176HB6A	6TMREC	BPT	7.68 KBPS PPR BURST TO TAPE	2R5	4	1	3,499,753:00.0	Record Mode C
3259	96	180	18:37:32.200	117HB105A106A4B	7STRP	-0.0045,-0.01,0.0,	Slew =12.01	2R5	4	1	3,499,754:30.0	
3260	96	180	18:37:44.200	117HB105A106A4C	7STRP	0.002,0.01,0.0,0.0	Slew = 0.16	2R5	4	1	3,499,754:48.0	
3261	96	180	18:39:04.866	117HB105A106A4D	7STRP	-0.0045,-0.01,0.0,	Slew =12.01	2R5	4	1	3,499,755:78.0	
3262	96	180	18:39:16.866	117HB105A106A4E	7STRP	0.002,0.01,0.0,0.0	Slew = 0.16	2R5	4	1	3,499,756:05.0	
3263	96	180	18:40:37.533	117HB105A106A4F	7STRP	-0.0045,-0.01,0.0,	Slew =12.01	2R5	4	1	3,499,757:35.0	
3264	96	180	18:40:49.533	117HB105A106A4G	7STRP	0.002,0.01,0.0,0.0	Slew =,0.16	2R5	4	1	3,499,757:53.0	
3265	96	180	18:42:10.200	117HB105A106A4H	7STRP	-0.0045,-0.01,0.0,	Slew =12.01	2R5	4	1	3,499,758:83.0	
3266	96	180	18:42:22.200	117HB105A106A4I	7STRP	0.002,0.01,0.0,0.0	Slew =,0.16	2R5	4	1	3,499,759:10.0	
3267	96	180	18:43:42.866	117HB105A106A4J	7STRP	-0.0045,-0.01,0.0,	Slew =12.01	2R5	4	1	3,499,760:40.0	
3268	96	180	18:43:54.866	117HB105A106A4K	7STRP	0.002,0.01,0.0,0.0	Slew =-0.16	2R5	4	1	3,499,760:58.0	
3269	96	180	18:45:15.533	117HB105A106A4L	7STRP	-0.0045,-0.01,0.0,	Slew =12.01	2R5	4	1	3,499,761:88.0	
3270	96	180	18:45:27.533	117HB105A106A4M	7STRP	0.002,0.01,0.0,0.0	Slew = 0.16	2R5	4	1	3,499,762:15.0	
3271	96	180	18:46:48.200	117HB105A106A4N	7STRP	-0.0045,-0.01,0.0,	Slew =12.01	2R5	4	1	3,499,763:45.0	
3272	96	180	18:47:00.200	117HB105A106A4O	7STRP	0.002,0.01,0.0,0.0	Slew = 0.16	2R5	4	1	3,499,763:63.0	
3273	96	180	18:48:20.866	117HB105A106A4P	7STRP	-0.0045,-0.01,0.0,	Slew =12.01	2R5	4	1	3,499,765:02.0	
3274	96	180	18:48:32.866	117HB105A106A4Q	7STRP	0.002,0.01,0.0,0.0	Slew =,0.16	2R5	4	1	3,499,765:20.0	
3275	96	180	18:49:53.533	117HB11A	CSMOS	GE	**** GROUP END	2R5	4	1	3,499,766:50.0	CSMOS
3276	96	180	18:49:53.533	50ZZ6XX	6DMSC	R7.0	DMS Control	2R5	4	1	3,499,766:50.0	Tape runup 7.68kps
3277	96	180	18:49:53.533	176HB6B	6TMREC	NRC	NO RECORD	2R5	4	1	3,499,766:50.0	Record Mode Change
3278	96	180	18:49:53.533		DMS:	:*US-RUNUP	R7, TRACK 4, REV, TIC 2278.45 +/- 9	2R5	4	1	3,499,766:50.0	
3279	96	180	18:50:03.066		DMS:	:*RECORD	R7, TRACK 4, REV, TIC *2279.72 +/- 9	2R5	4	1	3,499,766:64.3	
3280	96	180	18:50:20.200		DMS:	:*RUNDOWN	R7, TRACK 4, REV, TIC *2275.71 +/- 9	2R5	4	1	3,499,766:90.0	
3281	96	180	18:50:20.200	50ZZ6RD	6DMSC	RDY.0	DMS Control	2R5	4	1	3,499,766:90.0	Tape stop
3282	96	180	18:50:21.600		DMS:	:*READY	RDY, TRACK 4, REV, TIC *2275.65 +/- 9	2R5	4	1	3,499,767:01.1	
3283	96	180	19:04:28.866	165GK4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,499,780:89.0	
3284	96	180	19:04:29.533	165GK4B	7SCAN	NORM,37.477,14.3	Check S/P Position	2R5	4	1	3,499,780:90.0	
3285	96	180	19:08:23.533	117GK	CSMOS	GS	**** GROUP START	2R5	4	1	3,499,784:77.0	CSMOS
3286	96	180	19:08:32.866	117GK105A106A4A	7STRP	0.0,0.0,0.016002,0.0	Slew =,0.16	2R5	4	1	3,499,785:00.0	
3287	96	180	19:08:32.866	176GK6A	6TMREC	BPT	7.68 KBPS PPR BURST TO TAPE	2R5	4	1	3,499,785:00.0	Record Mode C
3288	96	180	19:10:50.200	117GK105A106A4B	7STRP	-0.0025,-0.01600	Slew =17.01	2R5	4	1	3,499,787:24.0	
3289	96	180	19:11:05.533	117GK105A106A4C	7STRP	0.0,0.016002,0.0	Slew =,0.16	2R5	4	1	3,499,787:47.0	
3290	96	180	19:13:22.866	117GK105A106A4D	7STRP	-0.0025,-0.01600	Slew =17.01	2R5	4	1	3,499,789:71.0	
3291	96	180	19:13:38.200	117GK105A106A4E	7STRP	0.0,0.016002,0.0	Slew =,0.16	2R5	4	1	3,499,790:03.0	
3292	96	180	19:15:55.533	117GK105A106A4F	7STRP	-0.0025,-0.01600	Slew =17.01	2R5	4	1	3,499,792:27.0	
3293	96	180	19:16:10.866	117GK105A106A4G	7STRP	0.0,0.016002,0.0	Slew =-0.16	2R5	4	1	3,499,792:50.0	
3294	96	180	19:18:28.200	117GK105A106A4H	7STRP	-0.0025,-0.01600	Slew =17.01	2R5	4	1	3,499,794:74.0	
3295	96	180	19:18:43.533	117GK105A106A4I	7STRP	0.0,0.016002,0.0	Slew =,0.16	2R5	4	1	3,499,795:06.0	
3296	96	180	19:21:00.866	117GK105A106A4J	7STRP	-0.0025,-0.01600	Slew =17.01	2R5	4	1	3,499,797:30.0	
3297	96	180	19:21:16.200	117GK105A106A4K	7STRP	0.0,0.016002,0.0	Slew =,0.16	2R5	4	1	3,499,797:53.0	
3298	96	180	19:22:46.200		DMS:	:*US-RUNUP	R7, TRACK 4, REV, TIC 2275.65 +/- 9	2R5	4	1	3,499,799:06.0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
3299	96	180	19:22:46.200	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,499,799:06:0	
3300	96	180	19:22:55.733		DMS:	: *RECORD	R7, TRACK 4, REV, TIC *2276.92 +/- 9	2R5	4	1	3,499,799:20:3	
3301	96	180	19:23:16.200		DMS:	: *RUNDOWN	R7, TRACK 4, REV, TIC *2272.12 +/- 9	2R5	4	1	3,499,799:51:0	
3302	96	180	19:23:16.200	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,499,799:51:0	
3303	96	180	19:23:17.600		DMS:	: *READY	RDY, TRACK 4, REV, TIC *2272.06 +/- 9	2R5	4	1	3,499,799:53:1	
3304	96	180	19:23:33.533	117GK105A106A4L	7STRP	-0.0025,-0.01600	Slew = 17.01	2R5	4	1	3,499,799:77:0	
3305	96	180	19:23:48.866	117GK105A106A4M	7STRP	0.0,0.016002,0,0	Slew = 0.16	2R5	4	1	3,499,800:09:0	
3306	96	180	19:26:00.866	488AV6C	6TMSED	FILL,CL4	Sci, Eng, and D/L Chan	2R5	4	1	3,499,802:25:0	
3307	96	180	19:26:06.200	117GK105A106A4N	7STRP	-0.0025,-0.01600	Slew = 17.01	2R5	4	1	3,499,802:33:0	
3308	96	180	19:26:21.533	117GK105A106A4O	7STRP	0.0,0.016002,0,0	Slew = 0.16	2R5	4	1	3,499,802:56:0	
3309	96	180	19:26:38.866	117GK105A106A4P	7STRP	-0.0025,-0.01600	Slew = 17.01	2R5	4	1	3,499,804:80:0	
3310	96	180	19:28:54.200	117GK105A106A4Q	7STRP	0.0,0.016002,0,0	Slew = 0.16	2R5	4	1	3,499,805:12:0	
3311	96	180	19:31:11.533	117GK105A106A4R	7STRP	-0.0025,-0.01600	Slew = 17.01	2R5	4	1	3,499,807:36:0	
3312	96	180	19:31:26.866	117GK105A106A4S	7STRP	0.0,0.016002,0,0	Slew = 0.16	2R5	4	1	3,499,807:59:0	
3313	96	180	19:33:23.533	488AV6D	6TMSED	FILL,CL2	Sci, Eng, and D/L Chan	2R5	4	1	3,499,809:52:0	
3314	96	180	19:33:44.200	117GK105A106A4T	7STRP	-0.0025,-0.01600	Slew = 17.01	2R5	4	1	3,499,809:83:0	
3315	96	180	19:33:59.533	117GK105A106A4U	7STRP	0.0,0.016002,0,0	Slew = 0.16	2R5	4	1	3,499,810:15:0	
3316	96	180	19:36:16.866	117GK105A106A4V	7STRP	-0.0025,-0.01600	Slew = 17.01	2R5	4	1	3,499,812:39:0	
3317	96	180	19:36:32.200	117GK105A106A4W	7STRP	0.0,0.016002,0,0	Slew = 0.16	2R5	4	1	3,499,812:62:0	
3318	96	180	19:37:10.866		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 2272.06 +/- 10	2R5	4	1	3,499,813:29:0	
3319	96	180	19:37:10.866	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,499,813:29:0	
3320	96	180	19:37:20.400		DMS:	: *RECORD	R7, TRACK 4, REV, TIC *2273.34 +/- 10	2R5	4	1	3,499,813:43:3	
3321	96	180	19:37:40.866	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,499,813:74:0	
3322	96	180	19:37:40.866		DMS:	: *RUNDOWN	R7, TRACK 4, REV, TIC *2268.54 +/- 10	2R5	4	1	3,499,813:74:0	
3323	96	180	19:37:42.266		DMS:	: *READY	RDY, TRACK 4, REV, TIC *2268.48 +/- 10	2R5	4	1	3,499,813:76:1	
3324	96	180	19:38:49.533	117GK105A106A4X	7STRP	-0.0025,-0.01600	Slew = 17.01	2R5	4	1	3,499,814:86:0	
3325	96	180	19:39:04.866	117GK105A106A4Y	7STRP	0.0,0.016002,0,0	Slew = 0.16	2R5	4	1	3,499,815:18:0	
3326	96	180	19:41:22.200	117GK105A106A4Z	7STRP	-0.0025,-0.01600	Slew = 17.01	2R5	4	1	3,499,817:42:0	
3327	96	180	19:41:37.533	117GK105A106A4A	7STRP	0.0,0.016002,0,0	Slew = 0.16	2R5	4	1	3,499,817:65:0	
3328	96	180	19:43:54.866	117GK105A106A4AB	7STRP	-0.0025,-0.01600	Slew = 17.01	2R5	4	1	3,499,819:89:0	
3329	96	180	19:44:10.200	117GK105A106A4AC	7STRP	0.0,0.016002,0,0	Slew = 0.16	2R5	4	1	3,499,820:21:0	
3330	96	180	19:46:27.533	117GK105A106A4AD	7STRP	-0.0025,-0.01600	Slew = 17.01	2R5	4	1	3,499,822:45:0	
3331	96	180	19:46:42.866	117GK105A106A4AE	7STRP	0.0,0.016002,0,0	Slew = 0.16	2R5	4	1	3,499,822:68:0	
3332	96	180	19:49:00.200	117GK105A106A4AF	7STRP	-0.0025,-0.01600	Slew = 17.01	2R5	4	1	3,499,825:01:0	
3333	96	180	19:49:15.533	117GK105A106A4AG	7STRP	0.0,0.016002,0,0	Slew = 0.16	2R5	4	1	3,499,825:24:0	
3334	96	180	19:51:32.866	117GK105A106A4AH	7STRP	-0.0025,-0.01600	Slew = 17.01	2R5	4	1	3,499,827:48:0	
3335	96	180	19:51:35.533		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 2268.48 +/- 10	2R5	4	1	3,499,827:52:0	
3336	96	180	19:51:35.533	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,499,827:52:0	
3337	96	180	19:51:45.066		DMS:	: *RECORD	R7, TRACK 4, REV, TIC *2269.76 +/- 10	2R5	4	1	3,499,827:66:3	
3338	96	180	19:51:48.200	117GK105A106A4AI	7STRP	0.0,0.016002,0,0	Slew = 0.16	2R5	4	1	3,499,827:71:0	
3339	96	180	19:52:05.533		DMS:	: *RUNDOWN	R7, TRACK 4, REV, TIC *2264.96 +/- 10	2R5	4	1	3,499,828:06:0	
3340	96	180	19:52:05.533	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,499,828:06:0	
3341	96	180	19:52:06.933		DMS:	: *READY	RDY, TRACK 4, REV, TIC *2264.90 +/- 10	2R5	4	1	3,499,828:08:1	
3342	96	180	19:54:05.533	117GK105A106A4AJ	7STRP	-0.0025,-0.01600	Slew = 17.01	2R5	4	1	3,499,830:04:0	
3343	96	180	19:54:20.866	117GK105A106A4AK	7STRP	0.0,0.016002,0,0	Slew = 0.16	2R5	4	1	3,499,830:27:0	
3344	96	180	19:56:38.200	117GK105A106A4AL	7STRP	-0.0025,-0.01600	Slew = 17.01	2R5	4	1	3,499,832:51:0	
3345	96	180	19:56:53.533	117GK105A106A4AM	7STRP	0.0,0.016002,0,0	Slew = 0.16	2R5	4	1	3,499,832:74:0	
3346	96	180	19:59:10.866	117GK105A106A4AN	7STRP	-0.0025,-0.01600	Slew = 17.01	2R5	4	1	3,499,835:07:0	
3347	96	180	19:59:26.200	117GK105A106A4AO	7STRP	0.0,0.016002,0,0	Slew = 0.16	2R5	4	1	3,499,835:30:0	
3348	96	180	20:01:43.533	117GK105A106A4AP	7STRP	-0.0025,-0.01600	Slew = 17.01	2R5	4	1	3,499,837:54:0	
3349	96	180	20:01:58.866	117GK105A106A4AQ	7STRP	0.0,0.016002,0,0	Slew = 0.16	2R5	4	1	3,499,837:77:0	
3350	96	180	20:04:16.200	117GK105A106A4AR	7STRP	-0.0025,-0.01600	Slew = 17.01	2R5	4	1	3,499,840:10:0	
3351	96	180	20:04:31.533	117GK105A106A4AS	7STRP	0.0,0.016002,0,0	Slew = 0.16	2R5	4	1	3,499,840:33:0	
3352	96	180	20:06:00.200	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,499,841:75:0	
3353	96	180	20:06:00.200		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 2264.90 +/- 10	2R5	4	1	3,499,841:75:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
3354	96	180	20:06:09.733		DMS:	:*RECORD	R7, TRACK 4, REV, TIC *2266.18 +/- 10	2R5	4	1	3,499,841.89:3	
3355	96	180	20:06:30.200	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,499,842:29:0	
3356	96	180	20:06:30.200		DMS:	:*RUNDOWN	R7, TRACK 4, REV, TIC *2261.38 +/- 10	2R5	4	1	3,499,842:29:0	
3357	96	180	20:06:31.600		DMS:	:*READY	RDY, TRACK 4, REV, TIC *2261.32 +/- 10	2R5	4	1	3,499,842:31:1	
3358	96	180	20:06:48.866		7STRP	-0.0025,-0.01600	Slew =17.01	2R5	4	1	3,499,842:57:0	
3359	96	180	20:07:04.200	117GK105A106A4AT	7STRP	0.0.0.016002,0.0	Slew =-0.16	2R5	4	1	3,499,842:80:0	
3360	96	180	20:09:21.533	117GK105A106A4AV	7STRP	-0.0025,-0.01600	Slew =17.01	2R5	4	1	3,499,845:13:0	
3361	96	180	20:09:36.866	117GK105A106A4AW	7STRP	0.0.0.016002,0.0	Slew =-0.16	2R5	4	1	3,499,845:36:0	
3362	96	180	20:11:54.200	117GK105A106A4AX	7STRP	-0.0025,-0.01600	Slew =17.01	2R5	4	1	3,499,847:60:0	
3363	96	180	20:12:09.533	117GK105A106A4AY	7STRP	0.0.0.016002,0.0	Slew =-0.16	2R5	4	1	3,499,847:83:0	
3364	96	180	20:14:26.866	117GK105A106A4AZ	7STRP	-0.0025,-0.01600	Slew =17.01	2R5	4	1	3,499,850:16:0	
3365	96	180	20:14:42.200	117GK105A106A4BA	7STRP	0.0.0.016002,0.0	Slew =-0.16	2R5	4	1	3,499,850:39:0	
3366	96	180	20:16:59.533	117GK105A106A4BB	7STRP	-0.0025,-0.01600	Slew =17.01	2R5	4	1	3,499,852:63:0	
3367	96	180	20:17:14.866	117GK105A106A4BC	7STRP	0.0.0.016002,0.0	Slew =-0.16	2R5	4	1	3,499,852:86:0	
3368	96	180	20:19:32.200	117GK105A106A4BD	7STRP	-0.0025,-0.01600	Slew =17.01	2R5	4	1	3,499,855:19:0	
3369	96	180	20:19:47.533	117GK105A106A4BE	7STRP	0.0.0.016002,0.0	Slew =-0.16	2R5	4	1	3,499,855:42:0	
3370	96	180	20:20:24.866		DMS:	:*US-RUNUP	R7, TRACK 4, REV, TIC 2261.32 +/- 10	2R5	4	1	3,499,856:07:0	
3371	96	180	20:20:24.866	50ZZ6XX	6DMSC	RDY,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,499,856:07:0	
3372	96	180	20:20:34.400		DMS:	:*RECORD	R7, TRACK 4, REV, TIC *2262.60 +/- 10	2R5	4	1	3,499,856:21:3	
3373	96	180	20:20:54.866	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,499,856:52:0	
3374	96	180	20:20:54.866		DMS:	:*RUNDOWN	R7, TRACK 4, REV, TIC *2257.80 +/- 10	2R5	4	1	3,499,856:52:0	
3375	96	180	20:20:56.266		DMS:	:*READY	RDY, TRACK 4, REV, TIC *2257.74 +/- 10	2R5	4	1	3,499,856:54:1	
3376	96	180	20:22:04.866	117GK105A106A4BF	7STRP	-0.0025,-0.01600	Slew =17.01	2R5	4	1	3,499,857:66:0	
3377	96	180	20:22:20.200	117GK105A106A4BG	7STRP	0.0.0.016002,0.0	Slew =-0.16	2R5	4	1	3,499,857:89:0	
3378	96	180	20:24:37.533	117GK105A106A4BH	7STRP	-0.0025,-0.01600	Slew =17.01	2R5	4	1	3,499,860:22:0	
3379	96	180	20:24:52.866	117GK105A106A4BI	7STRP	0.0.0.016002,0.0	Slew =-0.16	2R5	4	1	3,499,860:45:0	
3380	96	180	20:27:10.200	117GK105A106A4BJ	7STRP	-0.0025,-0.01600	Slew =17.01	2R5	4	1	3,499,862:69:0	
3381	96	180	20:27:25.533	117GK105A106A4BK	7STRP	0.0.0.016002,0.0	Slew =-0.16	2R5	4	1	3,499,863:01:0	
3382	96	180	20:29:42.866	117GK105A106A4BL	7STRP	-0.0025,-0.01600	Slew =17.01	2R5	4	1	3,499,865:25:0	
3383	96	180	20:29:58.200	117GK105A106A4BM	7STRP	0.0.0.016002,0.0	Slew =-0.16	2R5	4	1	3,499,865:48:0	
3384	96	180	20:32:15.533	117GK105A106A4BN	7STRP	-0.0025,-0.01600	Slew =17.01	2R5	4	1	3,499,867:72:0	
3385	96	180	20:32:30.866	117GK105A106A4BO	7STRP	0.0.0.016002,0.0	Slew =-0.16	2R5	4	1	3,499,868:04:0	
3386	96	180	20:34:48.200	117GK105A106A4BP	7STRP	-0.0025,-0.01600	Slew =17.01	2R5	4	1	3,499,870:28:0	
3387	96	180	20:34:48.866	50ZZ6XX	6DMSC	RDY,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,499,870:29:0	
3388	96	180	20:34:48.866		DMS:	:*US-RUNUP	R7, TRACK 4, REV, TIC *2257.74 +/- 10	2R5	4	1	3,499,870:29:0	
3389	96	180	20:34:58.400		DMS:	:*RECORD	R7, TRACK 4, REV, TIC *2259.02 +/- 10	2R5	4	1	3,499,870:43:3	
3390	96	180	20:35:03.533	117GK105A106A4BQ	7STRP	0.0.0.016002,0.0	Slew =-0.16	2R5	4	1	3,499,870:51:0	
3391	96	180	20:35:18.866		DMS:	:*RUNDOWN	R7, TRACK 4, REV, TIC *2254.22 +/- 10	2R5	4	1	3,499,870:74:0	
3392	96	180	20:35:18.866	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,499,870:74:0	
3393	96	180	20:35:20.266		DMS:	:*READY	RDY, TRACK 4, REV, TIC *2254.16 +/- 10	2R5	4	1	3,499,870:76:1	
3394	96	180	20:37:20.866	117GK105A106A4BR	7STRP	-0.0025,-0.01600	Slew =17.01	2R5	4	1	3,499,872:75:0	
3395	96	180	20:37:36.200	117GK105A106A4BS	7STRP	0.0.0.016002,0.0	Slew =-0.16	2R5	4	1	3,499,873:07:0	
3396	96	180	20:39:53.533	117GK105A106A4BT	7STRP	-0.0025,-0.01600	Slew =17.01	2R5	4	1	3,499,875:31:0	
3397	96	180	20:40:08.866	117GK105A106A4BU	7STRP	0.0.0.016002,0.0	Slew =-0.16	2R5	4	1	3,499,875:54:0	
3398	96	180	20:42:26.200	117GK105A106A4BV	7STRP	-0.0025,-0.01600	Slew =17.01	2R5	4	1	3,499,877:78:0	
3399	96	180	20:42:41.533	117GK105A106A4BW	7STRP	0.0.0.016002,0.0	Slew =-0.16	2R5	4	1	3,499,878:10:0	
3400	96	180	20:44:58.866	117GK105A106A4BX	7STRP	-0.0025,-0.01600	Slew =17.01	2R5	4	1	3,499,880:34:0	
3401	96	180	20:45:14.200	117GK105A106A4BY	7STRP	0.0.0.016002,0.0	Slew =-0.16	2R5	4	1	3,499,880:57:0	
3402	96	180	20:45:45.533	488AW6A	6TMSED	NORM,CL2	Sci, Eng, and D/L Chan	2R5	4	1	3,499,881:13:0	
3403	96	180	20:47:31.533	117GK105A106A4BZ	7STRP	-0.0025,-0.01600	Slew =17.01	2R5	4	1	3,499,882:81:0	
3404	96	180	20:47:46.866	117GK105A106A4CA	7STRP	0.0.0.016002,0.0	Slew =-0.16	2R5	4	1	3,499,883:13:0	
3405	96	180	20:49:13.533	50ZZ6XX	6DMSC	RDY,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,499,884:52:0	
3406	96	180	20:49:13.533		DMS:	:*US-RUNUP	R7, TRACK 4, REV, TIC 2254.16 +/- 11	2R5	4	1	3,499,884:52:0	
3407	96	180	20:49:23.066		DMS:	:*RECORD	R7, TRACK 4, REV, TIC *2255.43 +/- 11	2R5	4	1	3,499,884:66:3	
3408	96	180	20:49:43.533		DMS:	:*RUNDOWN	R7, TRACK 4, REV, TIC *2250.64 +/- 11	2R5	4	1	3,499,885:06:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
3409	96	180	20:49:43.533	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,499,885:06:0	
3410	96	180	20:49:44.933		DMS:	: *READY	RDY, TRACK 4, REV, TIC *2250.58 +/- 11	2R5	4	1	3,499,885:08:1	
3411	96	180	20:50:04.200	117GK105A106A4CB	7STRP	-0.0025,-0.01600	Slew =17.01	2R5	4	1	3,499,885:37:0	
3412	96	180	20:50:19.533	117GK105A106A4CC	7STRP	0.0,0.016002,0.0	Slew =0.16	2R5	4	1	3,499,885:60:0	
3413	96	180	20:52:36.866	117GK105A106A4CD	7STRP	-0.0025,-0.01600	Slew =17.01	2R5	4	1	3,499,887:84:0	
3414	96	180	20:52:52.200	117GK105A106A4CE	7STRP	0.0,0.016002,0.0	Slew =-0.16	2R5	4	1	3,499,888:16:0	
3415	96	180	20:55:09.533	117GK105A106A4CF	7STRP	-0.0025,-0.01600	Slew =17.01	2R5	4	1	3,499,890:40:0	
3416	96	180	20:55:24.866	117GK105A106A4CG	7STRP	0.0,0.016002,0.0	Slew =-0.16	2R5	4	1	3,499,890:63:0	
3417	96	180	20:57:42.200	117GK105A106A4CH	7STRP	-0.0025,-0.01600	Slew =17.01	2R5	4	1	3,499,892:87:0	
3418	96	180	20:57:57.533	117GK105A106A4CI	7STRP	0.0,0.016002,0.0	Slew =-0.16	2R5	4	1	3,499,893:19:0	
3419	96	180	21:00:14.866	117GK105A106A4CJ	7STRP	-0.0025,-0.01600	Slew =17.01	2R5	4	1	3,499,895:43:0	
3420	96	180	21:00:30.200	117GK105A106A4CK	7STRP	0.0,0.016002,0.0	Slew =-0.16	2R5	4	1	3,499,895:66:0	
3421	96	180	21:02:47.533	117GK105A106A4CL	7STRP	-0.0025,-0.01600	Slew =17.01	2R5	4	1	3,499,897:90:0	
3422	96	180	21:02:59.533	488AW6B	6TMSED	NORM,CL3	Sci, Eng, and D/L Chan	2R5	4	1	3,499,898:17:0	
3423	96	180	21:03:02.866	117GK105A106A4CM	7STRP	0.0,0.016002,0.0	Slew =-0.16	2R5	4	1	3,499,898:22:0	
3424	96	180	21:03:38.200	50ZZ6XX	6DMSC	RDY,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,499,898:75:0	
3425	96	180	21:03:38.200		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC *2250.58 +/- 11	2R5	4	1	3,499,898:75:0	
3426	96	180	21:03:47.733		DMS:	: *RECORD	R7, TRACK 4, REV, TIC *2251.85 +/- 11	2R5	4	1	3,499,898:89:3	
3427	96	180	21:04:08.200	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,499,899:29:0	
3428	96	180	21:04:08.200		DMS:	: *RUNDOWN	R7, TRACK 4, REV, TIC *2247.06 +/- 11	2R5	4	1	3,499,899:29:0	
3429	96	180	21:04:09.600		DMS:	: *READY	RDY, TRACK 4, REV, TIC *2247.00 +/- 11	2R5	4	1	3,499,899:31:1	
3430	96	180	21:05:20.200	117GK105A106A4CN	7STRP	-0.0025,-0.01600	Slew =17.01	2R5	4	1	3,499,900:46:0	
3431	96	180	21:05:35.533	117GK105A106A4CO	7STRP	0.0,0.016002,0.0	Slew =-0.16	2R5	4	1	3,499,900:69:0	
3432	96	180	21:07:52.866	117GK105A106A4CP	7STRP	-0.0025,-0.01600	Slew =17.01	2R5	4	1	3,499,903:02:0	
3433	96	180	21:08:08.200	117GK105A106A4CQ	7STRP	0.0,0.016002,0.0	Slew =-0.16	2R5	4	1	3,499,903:25:0	
3434	96	180	21:10:25.533	117GK105A106A4CR	7STRP	-0.0025,-0.01600	Slew =17.01	2R5	4	1	3,499,905:49:0	
3435	96	180	21:10:40.866	117GK105A106A4CS	7STRP	0.0,0.016002,0.0	Slew =-0.16	2R5	4	1	3,499,905:72:0	
3436	96	180	21:12:58.200	117GK105A106A4CT	7STRP	-0.0025,-0.01600	Slew =17.01	2R5	4	1	3,499,908:05:0	
3437	96	180	21:13:13.533	117GK105A106A4CU	7STRP	0.0,0.016002,0.0	Slew =-0.16	2R5	4	1	3,499,908:28:0	
3438	96	180	21:15:30.866	117GK105A106A4CV	7STRP	-0.0025,-0.01600	Slew =17.01	2R5	4	1	3,499,910:52:0	
3439	96	180	21:15:46.200	117GK105A106A4CW	7STRP	0.0,0.016002,0.0	Slew =-0.16	2R5	4	1	3,499,910:75:0	
3440	96	180	21:18:02.866	50ZZ6XX	6DMSC	RDY,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,499,913:07:0	
3441	96	180	21:18:02.866		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC *2247.00 +/- 11	2R5	4	1	3,499,913:07:0	
3442	96	180	21:18:03.533	117GK105A106A4CX	7STRP	-0.0025,-0.01600	Slew =17.01	2R5	4	1	3,499,913:08:0	
3443	96	180	21:18:12.400		DMS:	: *RECORD	R7, TRACK 4, REV, TIC *2248.27 +/- 11	2R5	4	1	3,499,913:21:3	
3444	96	180	21:18:18.866	117GK105A106A4CY	7STRP	0.0,0.016002,0.0	Slew =-0.16	2R5	4	1	3,499,913:31:0	
3445	96	180	21:18:32.866		DMS:	: *RUNDOWN	R7, TRACK 4, REV, TIC *2243.47 +/- 11	2R5	4	1	3,499,913:52:0	
3446	96	180	21:18:32.866	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,499,913:52:0	
3447	96	180	21:18:34.266		DMS:	: *READY	RDY, TRACK 4, REV, TIC *2243.41 +/- 11	2R5	4	1	3,499,913:54:1	
3448	96	180	21:20:36.200	117GK105A106A4CZ	7STRP	-0.0025,-0.01600	Slew =17.01	2R5	4	1	3,499,915:55:0	
3449	96	180	21:20:51.533	117GK105A106A4DA	7STRP	0.0,0.016002,0.0	Slew =-0.16	2R5	4	1	3,499,915:78:0	
3450	96	180	21:23:08.866	117GK105A106A4DB	7STRP	-0.0025,-0.01600	Slew =17.01	2R5	4	1	3,499,918:11:0	
3451	96	180	21:23:24.200	117GK105A106A4DC	7STRP	0.0,0.016002,0.0	Slew =-0.16	2R5	4	1	3,499,918:34:0	
3452	96	180	21:25:41.533	117GK105A106A4DD	7STRP	-0.0025,-0.01600	Slew =17.01	2R5	4	1	3,499,920:58:0	
3453	96	180	21:25:56.866	117GK105A106A4DE	7STRP	0.0,0.016002,0.0	Slew =-0.16	2R5	4	1	3,499,920:81:0	
3454	96	180	21:28:14.200	117GK105A106A4DF	7STRP	-0.0025,-0.01600	Slew =17.01	2R5	4	1	3,499,923:14:0	
3455	96	180	21:28:29.533	117GK105A106A4DG	7STRP	0.0,0.016002,0.0	Slew =-0.16	2R5	4	1	3,499,923:37:0	
3456	96	180	21:30:46.866	117GK105A106A4DH	7STRP	-0.0025,-0.01600	Slew =17.01	2R5	4	1	3,499,925:61:0	
3457	96	180	21:31:02.200	117GK105A106A4DI	7STRP	0.0,0.016002,0.0	Slew =-0.16	2R5	4	1	3,499,925:84:0	
3458	96	180	21:32:27.533		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC *2243.41 +/- 11	2R5	4	1	3,499,927:30:0	
3459	96	180	21:32:27.533	50ZZ6XX	6DMSC	RDY,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,499,927:30:0	
3460	96	180	21:32:37.066		DMS:	: *RECORD	R7, TRACK 4, REV, TIC *2244.69 +/- 11	2R5	4	1	3,499,927:44:3	
3461	96	180	21:32:57.533	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,499,927:75:0	
3462	96	180	21:32:57.533		DMS:	: *RUNDOWN	R7, TRACK 4, REV, TIC *2239.89 +/- 11	2R5	4	1	3,499,927:75:0	
3463	96	180	21:32:58.933		DMS:	: *READY	RDY, TRACK 4, REV, TIC *2239.83 +/- 11	2R5	4	1	3,499,927:77:1	



Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
3464	96	180	21:33:19.533	117GK105A106A4DJ	7STRP	-0.0025,-0.01600	Slew =17.01	2R5	4	1	3,499,928:17.0	
3465	96	180	21:33:34.866	117GK105A106A4DK	7STRP	0.0,0.016002,0.0	Slew =0.16	2R5	4	1	3,499,928:40.0	
3466	96	180	21:35:52.200	117GK105A106A4DL	7STRP	-0.0025,-0.01600	Slew =17.01	2R5	4	1	3,499,930:64.0	
3467	96	180	21:36:07.533	117GK105A106A4DM	7STRP	0.0,0.016002,0.0	Slew =0.16	2R5	4	1	3,499,930:87.0	
3468	96	180	21:38:24.866	117GK105A106A4DN	7STRP	-0.0025,-0.01600	Slew =17.01	2R5	4	1	3,499,933:20.0	
3469	96	180	21:38:40.200	117GK105A106A4DO	7STRP	0.0,0.016002,0.0	Slew =0.16	2R5	4	1	3,499,933:43.0	
3470	96	180	21:40:57.533	117GK105A106A4DP	7STRP	-0.0025,-0.01600	Slew =17.01	2R5	4	1	3,499,935:67.0	
3471	96	180	21:41:12.866	117GK105A106A4DQ	7STRP	0.0,0.016002,0.0	Slew =0.16	2R5	4	1	3,499,935:90.0	
3472	96	180	21:43:30.200	117GK105A106A4DR	7STRP	-0.0025,-0.01600	Slew =17.01	2R5	4	1	3,499,938:23.0	
3473	96	180	21:43:45.533	117GK105A106A4DS	7STRP	0.0,0.016002,0.0	Slew =0.16	2R5	4	1	3,499,938:46.0	
3474	96	180	21:45:00.200	488AW6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2R5	4	1	3,499,939:67.0	
3475	96	180	21:46:02.866	117GK105A106A4DT	7STRP	-0.0025,-0.01600	Slew =17.01	2R5	4	1	3,499,940:70.0	
3476	96	180	21:46:18.200	117GK105A106A4DU	7STRP	0.0,0.016002,0.0	Slew =0.16	2R5	4	1	3,499,941:02.0	
3477	96	180	21:46:51.533		DMS:	:*US-RUNUP	R7, TRACK 4, REV, TIC 2239.83 +/- 11	2R5	4	1	3,499,941:52.0	
3478	96	180	21:46:51.533	50ZZ6XX	6DMSC		DMS Control Tape runup 7.68kps	2R5	4	1	3,499,941:52.0	
3479	96	180	21:47:01.066		DMS:	:*RECORD	R7, TRACK 4, REV, TIC *2241.11 +/- 11	2R5	4	1	3,499,941:66.3	
3480	96	180	21:47:21.533	50ZZ6RE	6DMSC		DMS Control Tape stop	2R5	4	1	3,499,942:06.0	
3481	96	180	21:47:21.533		DMS:	:*RUNDOWN	R7, TRACK 4, REV, TIC *2236.31 +/- 11	2R5	4	1	3,499,942:06.0	
3482	96	180	21:47:22.933		DMS:	:*READY	RDY, TRACK 4, REV, TIC *2236.25 +/- 11	2R5	4	1	3,499,942:08.1	
3483	96	180	21:48:35.533	117GK105A106A4DV	7STRP	-0.0025,-0.01600	Slew =17.01	2R5	4	1	3,499,943:26.0	
3484	96	180	21:48:50.866	117GK105A106A4DW	7STRP	0.0,0.016002,0.0	Slew =0.16	2R5	4	1	3,499,943:49.0	
3485	96	180	21:51:08.200	117GK105A106A4DX	7STRP	-0.0025,-0.01600	Slew =17.01	2R5	4	1	3,499,945:73.0	
3486	96	180	21:51:23.533	117GK105A106A4DY	7STRP	0.0,0.016002,0.0	Slew =0.16	2R5	4	1	3,499,946:05.0	
3487	96	180	21:53:40.866	117GK105A106A4DZ	7STRP	-0.0025,-0.01600	Slew =17.01	2R5	4	1	3,499,948:29.0	
3488	96	180	21:53:56.200	117GK105A106A4EA	7STRP	0.0,0.016002,0.0	Slew =0.16	2R5	4	1	3,499,948:52.0	
3489	96	180	21:56:13.533	117GK105A106A4EB	7STRP	-0.0025,-0.01600	Slew =17.01	2R5	4	1	3,499,950:76.0	
3490	96	180	21:56:22.200	4325B6A	6RTDS2	NIMCG,AACNCG,RT	R/T ENG DESLECT	2R5	4	1	3,499,950:89.0	
3491	96	180	21:56:26.866	488AW6D	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	2R5	4	1	3,499,951:05.0	
3492	96	180	21:56:28.866	117GK105A106A4EC	7STRP	0.0,0.016002,0.0	Slew =0.16	2R5	4	1	3,499,951:08.0	
3493	96	180	21:58:46.200	176GK6B	6TMREC		NO RECORD Record Mode Change	2R5	4	1	3,499,953:32.0	
3494	96	180	21:58:46.200	117GK11A	CSMOS	GE	***** GROUP END CSMOS	2R5	4	1	3,499,953:32.0	
3495	96	180	21:58:46.200		DMS:	:*US-RUNUP	R7, TRACK 4, REV, TIC 2236.25 +/- 12	2R5	4	1	3,499,953:32.0	
3496	96	180	21:58:46.200	50ZZ6XX	6DMSC		DMS Control Tape runup 7.68kps	2R5	4	1	3,499,953:32.0	
3497	96	180	21:58:55.733		DMS:	:*RECORD	R7, TRACK 4, REV, TIC *2237.53 +/- 12	2R5	4	1	3,499,953:46.3	
3498	96	180	21:59:13.533		DMS:	:*RUNDOWN	R7, TRACK 4, REV, TIC *2233.36 +/- 12	2R5	4	1	3,499,953:73.0	
3499	96	180	21:59:13.533	50ZZ6RD	6DMSC		DMS Control Tape stop	2R5	4	1	3,499,953:73.0	
3500	96	180	21:59:14.933		DMS:	:*READY	RDY, TRACK 4, REV, TIC *2233.30 +/- 12	2R5	4	1	3,499,953:75.1	
3501	96	180	22:00:30.199	G1INCHEMIS05-		-----START-----		2R5	4	1	:	
3502	96	180	22:00:35.533	488AW6E	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	2R5	4	1	3,499,955:14.0	
3503	96	180	22:01:15.533	165ES4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,499,955:74.0	
3504	96	180	22:01:16.200	165ES4B	7SCAN	NORM,46.592,15.0	Check S/P Position	2R5	4	1	3,499,955:75.0	
3505	96	180	22:03:18.200		DMS:	:*US-RUNUP	R7, TRACK 4, REV, TIC 2233.30 +/- 12	2R5	4	1	3,499,957:76.0	
3506	96	180	22:03:18.200	175ES42A6A	6DMSC		DMS Control Tape runup 7.68kps	2R5	4	1	3,499,957:76.0	
3507	96	180	22:03:18.866	117ES	CSMOS	GS	***** GROUP START CSMOS	2R5	4	1	3,499,957:77.0	
3508	96	180	22:03:23.533	127ES4A	37IOP	3.0	Long Map, Grating Start Position =00	2R3	4	0	3,499,957:84.0	
3509	96	180	22:03:23.533	127ES	NIMSTAB	GS	%%%GROUP START TAB	2R3	4	0	3,499,957:84.0	
3510	96	180	22:03:24.200	127ES4B	37ETB	07,C7,02,01,80,0	Loads wavelength edit table	2R3	4	0	3,499,957:85.0	
3511	96	180	22:03:27.533	175ES176A6A	6TMREC	LPU	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R3	4	0	3,499,957:90.0	
3512	96	180	22:03:27.733		DMS:	:*RECORD	R7, TRACK 4, REV, TIC *2234.57 +/- 12	2R3	4	0	3,499,957:90.3	
3513	96	180	22:03:28.200	117ES105A106A4A	7STRP	0.0035,0.0,0.0,0.0	Slew =0.03	2R3	4	0	3,499,958:00.0	
3514	96	180	22:03:32.200	127ES11A	NIMSTAB	GE	%%%GROUP END TAB	2R3	4	0	3,499,958:05.0	
3515	96	180	22:05:32.866	117ES11A	CSMOS	GE	***** GROUP END CSMOS	2R3	4	0	3,499,960:06.0	
3516	96	180	22:05:42.866		DMS:	:*RUNDOWN	R7, TRACK 4, REV, TIC *2202.90 +/- 12	2R3	4	0	3,499,960:20.0	
3517	96	180	22:05:42.866	175ES42A6B	6DMSC		DMS Control Tape stop	2R3	4	0	3,499,960:20.0	
3518	96	180	22:05:42.866	175ES6A	6TMREC	NRC	NO RECORD Record Mode Change	2R3	4	0	3,499,960:20.0	



Line	YR	DOY	SCET - GMT	PSID	Command Parameters	Description	GCM	GO	GS	RIM	MF I
3519	96	180	22:05:44.266		DMS: : *READY	RDY, TRACK 4, REV, TIC *2202.84 +/- 12	2R3	4	0	3,499,960:22:1	
<b>3520</b>	<b>96</b>	<b>180</b>	<b>22:05:46.199</b>	<b>G1INCHEMIS05-</b>	-----STOP-----		<b>2R3</b>	<b>4</b>	<b>0</b>	<b>:</b>	
3521	96	180	22:06:28.866	165ET4A	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,499,960:89:0	
3522	96	180	22:06:29.533	165ET4B	NORM,46.149,14.9	Check S/P Position	2R3	4	0	3,499,960:90:0	
<b>3523</b>	<b>96</b>	<b>180</b>	<b>22:06:34.199</b>	<b>G1INTHRMAL04-</b>	-----START-----		<b>2R3</b>	<b>4</b>	<b>0</b>	<b>:</b>	
3524	96	180	22:08:21.533		DMS: : *US-RUNUP	R7, TRACK 4, REV, TIC 2202.84 +/- 12	2R3	4	0	3,499,962:76:0	
3525	96	180	22:08:21.533	175ET422A6A	6DMSC R7.0	DMS Control Tape runup 7.68kps	2R3	4	0	3,499,962:76:0	
3526	96	180	22:08:22.200	117ET	CSMOS GS	***** GROUP START CSMOS	2R3	4	0	3,499,962:77:0	
3527	96	180	22:08:26.866	127ET	NIMSTAB GS	%%/%/% GROUP START TAB	2R3	4	0	3,499,962:84:0	
<b>3528</b>	<b>96</b>	<b>180</b>	<b>22:08:26.866</b>	<b>127ET4B</b>	<b>7,21</b>	<b>Fixed Map, Grating Start Position =21</b>	<b>2R7</b>	<b>4</b>	<b>21</b>	<b>3,499,962:84:0</b>	
<b>3529</b>	<b>96</b>	<b>180</b>	<b>22:08:27.533</b>	<b>127ET4A</b>	<b>07,C7,19,D,5,55,0</b>	<b>Loads wavelength edit table</b>	<b>2R7</b>	<b>4</b>	<b>21</b>	<b>3,499,962:85:0</b>	
3530	96	180	22:08:30.866	175ET176A6A	6TMREC LPU	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R7	4	21	3,499,962:90:0	
3531	96	180	22:08:31.066		DMS: : *RECORD	R7, TRACK 4, REV, TIC *2204.12 +/- 12	2R7	4	21	3,499,962:90:3	
3532	96	180	22:08:31.533	117ET105A106A4A	7STRP -0.0045,0.0,0.0,	Slew = 0.76	2R7	4	21	3,499,963:00:0	
3533	96	180	22:08:35.533	127ET11A	NIMSTAB GE	%%/%/% GROUP END TAB	2R7	4	21	3,499,963:06:0	
3534	96	180	22:08:40.866	117ET11A	CSMOS GE	***** GROUP END CSMOS	2R7	4	21	3,499,963:14:0	
3535	96	180	22:08:50.866	175ET16A	6TMREC NRC	NO RECORD Record Mode Change	2R7	4	21	3,499,963:29:0	
3536	96	180	22:08:50.866		DMS: : *RUNDOWN	R7, TRACK 4, REV, TIC *2199.47 +/- 12	2R7	4	21	3,499,963:29:0	
3537	96	180	22:08:50.866	175ET422A6B	6DMSC RDY.0	DMS Control Tape stop	2R7	4	21	3,499,963:29:0	
3538	96	180	22:08:52.266		DMS: : *READY	RDY, TRACK 4, REV, TIC *2199.41 +/- 12	2R7	4	21	3,499,963:31:1	
<b>3539</b>	<b>96</b>	<b>180</b>	<b>22:11:40.866</b>	<b>G1INTHRMAL04-</b>	-----STOP-----		<b>2R7</b>	<b>4</b>	<b>21</b>	<b>:</b>	
3540	96	180	22:20:00.200	41U99A	PWR MODE change	Change to Maneuver Mode	2R7	4	21	3,499,974:32:0	
<b>3541</b>	<b>96</b>	<b>180</b>	<b>22:20:04.200</b>	<b>41U3K</b>	<b>37F2PR</b>	<b>1 Shield Flash Heater OFF (primary relay)</b>	<b>2R7</b>	<b>4</b>	<b>21</b>	<b>3,499,974:38:0</b>	
<b>3542</b>	<b>96</b>	<b>180</b>	<b>22:20:14.200</b>	<b>41U3L</b>	<b>37F2PR</b>	<b>2 Shield Flash Heater OFF (primary relay)</b>	<b>2R7</b>	<b>4</b>	<b>21</b>	<b>3,499,974:53:0</b>	
<b>3543</b>	<b>96</b>	<b>180</b>	<b>22:22:24.200</b>	<b>41U3G</b>	<b>40T1P</b>	<b>1 PCT Heater 1 ON (primary relay)</b>	<b>2R7</b>	<b>4</b>	<b>21</b>	<b>3,499,976:66:0</b>	
<b>3544</b>	<b>96</b>	<b>180</b>	<b>22:22:34.200</b>	<b>41U3H</b>	<b>40T1P</b>	<b>2 PCT Heater 1 ON (primary relay)</b>	<b>2R7</b>	<b>4</b>	<b>21</b>	<b>3,499,976:81:0</b>	
<b>3545</b>	<b>96</b>	<b>180</b>	<b>22:22:44.200</b>	<b>41U3I</b>	<b>40T2</b>	<b>1 PCT Heater 2 ON</b>	<b>2R7</b>	<b>4</b>	<b>21</b>	<b>3,499,977:05:0</b>	
<b>3546</b>	<b>96</b>	<b>180</b>	<b>22:22:54.200</b>	<b>41U3J</b>	<b>40T2</b>	<b>2 PCT Heater 2 ON</b>	<b>2R7</b>	<b>4</b>	<b>21</b>	<b>3,499,977:20:0</b>	
3547	96	180	22:35:02.866	490UA412A4B	7MODE INT	AACS INERTIAL MODE	2R7	4	21	3,499,989:21:0	
3548	96	180	22:40:00.866	490UA412A4D	7SAFE UNSTOW	SIP TO 153 deg cone	2R7	4	21	3,499,994:13:0	
3549	96	180	22:44:10.866	490UA412A4E	7VECT RTH	Inert vect update UTC	2R7	4	21	3,499,998:24:0	
3550	96	180	22:44:14.866	490UA412A4F	7TURN 2,RTH	ALERT Thruster	2R7	4	21	3,499,998:30:0	
3551	96	180	22:48:02.866	490UA412A406A4A	7VECT	Inert vect update UTC	2R7	4	21	3,500,002:08:0	
3552	96	180	22:48:04.866	490UA412A406A4B	7STAR 1,3000,95.710999	Star catalog update	2R7	4	21	3,500,002:11:0	
3553	96	180	22:48:06.866	490UA412A406A4C	7STAR 2,217.50,186.49	Star catalog update	2R7	4	21	3,500,002:14:0	
3554	96	180	22:48:08.866	490UA412A406A4D	7STAR 3,0,0,0,0,0	Star catalog update	2R7	4	21	3,500,002:17:0	
3555	96	180	22:48:10.866	490UA412A406A4E	7STAR 4,0,0,0,0,0	Star catalog update	2R7	4	21	3,500,002:20:0	
3556	96	180	22:48:12.866	490UA412A406A4F	7STAR 5,0,0,0,0,0	Star catalog update	2R7	4	21	3,500,002:23:0	
3557	96	180	22:48:14.866	490UA412A406A4G	7STAR 6,0,0,0,0,0	Star catalog update	2R7	4	21	3,500,002:26:0	
<b>3558</b>	<b>96</b>	<b>181</b>	<b>00:19:58.200</b>	<b>4325C6A</b>	<b>6RTSL2 NIMNCG,AACNCG,RT</b>	<b>RIT ENG SELECT</b>	<b>2R7</b>	<b>4</b>	<b>21</b>	<b>3,500,093:00:0</b>	
3559	96	181	00:50:00.200	41Y99A	PWR MODE change	Change to Data Taking Mode	2R7	4	21	3,500,122:64:0	
<b>3560</b>	<b>96</b>	<b>181</b>	<b>00:50:04.200</b>	<b>41Y3K</b>	<b>37F2PR</b>	<b>1 Shield Flash Heater OFF (primary relay)</b>	<b>2R7</b>	<b>4</b>	<b>21</b>	<b>3,500,122:70:0</b>	
<b>3561</b>	<b>96</b>	<b>181</b>	<b>00:50:14.200</b>	<b>41Y3L</b>	<b>37F2PR</b>	<b>2 Shield Flash Heater OFF (primary relay)</b>	<b>2R7</b>	<b>4</b>	<b>21</b>	<b>3,500,122:85:0</b>	
<b>3562</b>	<b>96</b>	<b>181</b>	<b>00:50:24.200</b>	<b>41Y3A</b>	<b>40T1PR</b>	<b>1 PCT Heater 1 OFF (primary relay)</b>	<b>2R7</b>	<b>4</b>	<b>21</b>	<b>3,500,123:09:0</b>	
<b>3563</b>	<b>96</b>	<b>181</b>	<b>00:50:34.200</b>	<b>41Y3B</b>	<b>40T1PR</b>	<b>2 PCT Heater 1 OFF (primary relay)</b>	<b>2R7</b>	<b>4</b>	<b>21</b>	<b>3,500,123:24:0</b>	
<b>3564</b>	<b>96</b>	<b>181</b>	<b>00:50:44.200</b>	<b>41Y3C</b>	<b>40T2R</b>	<b>1 PCT Heater 2 OFF</b>	<b>2R7</b>	<b>4</b>	<b>21</b>	<b>3,500,123:39:0</b>	
<b>3565</b>	<b>96</b>	<b>181</b>	<b>00:50:54.200</b>	<b>41Y3D</b>	<b>40T2R</b>	<b>2 PCT Heater 2 OFF</b>	<b>2R7</b>	<b>4</b>	<b>21</b>	<b>3,500,123:54:0</b>	
3566	96	181	00:59:59.533	432OD431A6A	6RCDSL DDSNCG,PLSNCG,EP	Record Deselect (DDS o	2R7	4	21	3,500,132:53:0	
3567	96	181	01:00:00.200	432OD6A	6RTSL1	R/T Select of DDS and	2R7	4	21	3,500,132:54:0	
3568	96	181	01:01:24.200	165IT4A	7TMOT DIS,TMC	Disable IVP - Target Motion	2R7	4	21	3,500,133:89:0	
3569	96	181	01:01:24.866	165IT4B	7SCAN NORM,42.599,14.6	Check S/P Position	2R7	4	21	3,500,133:90:0	
3570	96	181	01:01:25.533		DMS: : *US-RUNUP	R7, TRACK 4, REV, TIC 2199.41 +/- 12	2R7	4	21	3,500,134:00:0	
3571	96	181	01:01:25.533	411JB6A	6DMSC R7,0	DMS Control Tape runup 7.68kps	2R7	4	21	3,500,134:00:0	
3572	96	181	01:01:35.066		DMS: : *RECORD	R7, TRACK 4, REV, TIC *2200.69 +/- 12	2R7	4	21	3,500,134:14:3	
3573	96	181	01:01:35.533	411JB6B	6TMREC BDT	7.68 KBPS BUFFER DUMP TO TAPE Record Mode	2R7	4	21	3,500,134:15:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
3574	96	181	01:03:36.866		DMS:	:*RUNDOWN	R7, TRACK 4, REV, TIC *2172.14 +/- 12	2R7	4	21	3,500	136:15:0
3575	96	181	01:03:36.866	411JB6D	6TMREC	NRC	NO RECORD Record Mode Change	2R7	4	21	3,500	136:15:0
3576	96	181	01:03:36.866	411JB6C	6DMSC	RDY,0	DMS Control Tape stop	2R7	4	21	3,500	136:15:0
3577	96	181	01:03:38.266		DMS:	:*READY	RDY, TRACK 4, REV, TIC *2172.08 +/- 12	2R7	4	21	3,500	136:17:1
3578	96	181	01:05:22.200	118IT	SMOS	GS		2R7	4	21	3,500	137:82:0
3579	96	181	01:05:32.200	118IT110A111A4A	7STRP	-0.002,0.0,0.92,0.	Slew =,1.01	2R7	4	21	3,500	138:06:0
3580	96	181	01:06:19.533		DMS:	:*US-RUNUP	R115, TRACK 4, REV, TIC 2172.08 +/- 12	2R7	4	21	3,500	138:77:0
3581	96	181	01:06:19.533	175IM422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2R7	4	21	3,500	138:77:0
3582	96	181	01:06:31.533	175IM176A6A	6TMREC	HMA	115.2 KBPS IMAGE(1-400)RECORD Record Mode	2R7	4	21	3,500	139:04:0
3583	96	181	01:06:31.600		DMS:	:*RECORD	R115, TRACK 4, REV, TIC *2167.21 +/- 13	2R7	4	21	3,500	139:04:1
3584	96	181	01:06:33.533	118IT11A	SMOS	GE		2R7	4	21	3,500	139:07:0
3585	96	181	01:09:00.200	465TL6A	6DMSC	P7,1	DMS Control Tape P/B 7.68kbps	2R7	4	21	3,500	141:45:0
3586	96	181	01:09:00.200		DMS:	:*RUNDOWN	R115, TRACK 4, REV, TIC *1644.79 +/- 13	2R7	4	21	3,500	141:45:0
3587	96	181	01:09:01.600		DMS:	:*RUNUP	P7, TRACK *1, *FWD, TIC *1643.87 +/- 13	2R7	4	21	3,500	141:47:1
3588	96	181	01:09:03.066		DMS:	:*P SLEW	P7, TRACK 1, FWD, TIC *1643.99 +/- 13	2R7	4	21	3,500	141:49:3
3589	96	181	01:14:32.866	432SD6A	6RTD52	NIMCG,AACNCG,RT	RT ENG DESLECT	2R7	4	21	3,500	146:89:0
3590	96	181	01:39:08.200	465TL6B	6DMSC	RDY,1	DMS Control Tape stop	2R7	4	21	3,500	171:27:0
3591	96	181	01:39:08.200		DMS:	:*RUNDOWN	P7, TRACK 1, FWD, TIC *2067.07 +/- 13	2R7	4	21	3,500	171:27:0
3592	96	181	01:39:09.600		DMS:	:*READY	RDY, TRACK 1, FWD, TIC *2067.13 +/- 13	2R7	4	21	3,500	171:29:1
3593	96	181	02:24:14.199	G1INCHEMIS06-		-----START-----		2R7	4	21	:	:
3594	96	181	02:25:13.533	165EU4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R7	4	21	3,500	216:80:0
3595	96	181	02:25:14.200	165EU4B	7SCAN	NORM,42.042,15.0	Check S/P Position	2R7	4	21	3,500	216:81:0
3596	96	181	02:27:12.200		DMS:	:*US-RUNUP	R7, TRACK *4, *REV, TIC 2067.13 +/- 13	2R7	4	21	3,500	218:76:0
3597	96	181	02:27:12.200	175EU422A6A	6DMSC	R7,4	DMS Control Tape runup 7.68kbp	2R7	4	21	3,500	218:76:0
3598	96	181	02:27:12.866	117EU	CSMOS	GS	**** GROUP START CSMOS	2R7	4	21	3,500	218:77:0
3599	96	181	02:27:17.533	127EU	NIMSTAB	GS	%%/%/% GROUP START TAB	2R7	4	21	3,500	218:84:0
3600	96	181	02:27:17.533	127EU4A	37IOP	3,0	Long Map, Grating Start Position =00	2R3	4	0	3,500	218:84:0
3601	96	181	02:27:18.200	127EU4B	37ETB	07,C7,02,01,80,0	Loads wavelength edit table	2R3	4	0	3,500	218:85:0
3602	96	181	02:27:21.533	175EU176A6A	6TMREC	LPU	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R3	4	0	3,500	218:90:0
3603	96	181	02:27:21.733		DMS:	:*RECORD	R7, TRACK 4, REV, TIC *2068.41 +/- 13	2R3	4	0	3,500	218:90:3
3604	96	181	02:27:22.200	117EU105A106A4A	7STRP	0.002,0.0,0.0,0.	Slew =,0.03	2R3	4	0	3,500	219:00:3
3605	96	181	02:27:26.200	127EU11A	NIMSTAB	GE	%%/%/% GROUP END TAB	2R3	4	0	3,500	219:06:0
3606	96	181	02:28:34.200	117EU11A	CSMOS	GE	**** GROUP END CSMOS	2R3	4	0	3,500	220:17:0
3607	96	181	02:28:44.200	175EU422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,500	220:32:0
3608	96	181	02:28:44.200	175EU6A	6TMREC	NRC	NO RECORD Record Mode Change	2R3	4	0	3,500	220:32:0
3609	96	181	02:28:44.200		DMS:	:*RUNDOWN	R7, TRACK 4, REV, TIC *2049.08 +/- 13	2R3	4	0	3,500	220:32:0
3610	96	181	02:28:45.533	G1INCHEMIS06-		-----STOP-----		2R3	4	0	:	:
3611	96	181	02:28:45.600		DMS:	:*READY	RDY, TRACK 4, REV, TIC *2049.02 +/- 13	2R3	4	0	3,500	220:34:1
3612	96	181	02:29:27.533	G1INTHRMAL05-		-----START-----		2R3	4	0	:	:
3613	96	181	02:30:22.866	165EV4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,500	221:89:0
3614	96	181	02:30:23.533	165EV4B	7SCAN	NORM,41.784,14.9	Check S/P Position	2R3	4	0	3,500	221:90:0
3615	96	181	02:32:15.533		DMS:	:*US-RUNUP	R7, TRACK 4, REV, TIC 2049.02 +/- 13	2R3	4	0	3,500	223:76:0
3616	96	181	02:32:15.533	175EV422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kpbs	2R3	4	0	3,500	223:76:0
3617	96	181	02:32:16.200	117EV	CSMOS	GS	**** GROUP START CSMOS	2R3	4	0	3,500	223:77:0
3618	96	181	02:32:20.866	127EV	NIMSTAB	GS	%%/%/% GROUP START TAB	2R3	4	0	3,500	223:84:0
3619	96	181	02:32:20.866	127EV4A	37IOP	7,21	Fixed Map, Grating Start Position =21	2R7	4	21	3,500	223:84:0
3620	96	181	02:32:21.533	127EV4B	37ETB	07,C7,19,D5,55,0	Loads wavelength edit table	2R7	4	21	3,500	223:85:0
3621	96	181	02:32:24.866	175EV176A6A	6TMREC	LPU	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R7	4	21	3,500	223:90:0
3622	96	181	02:32:25.066		DMS:	:*RECORD	R7, TRACK 4, REV, TIC *2050.30 +/- 13	2R7	4	21	3,500	223:90:3
3623	96	181	02:32:25.533	117EV105A106A4A	7STRP	-0.003,0.0,0.0,0.0	Slew =,0.76	2R7	4	21	3,500	224:00:0
3624	96	181	02:32:29.533	127EV11A	NIMSTAB	GE	%%/%/% GROUP END TAB	2R7	4	21	3,500	224:06:0
3625	96	181	02:32:33.533	175EV6A	6TMREC	NRC	NO RECORD Record Mode Change	2R7	4	21	3,500	224:12:0
3626	96	181	02:32:33.533	175EV422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R7	4	21	3,500	224:12:0
3627	96	181	02:32:33.533	117EV11A	CSMOS	GE	**** GROUP END CSMOS	2R7	4	21	3,500	224:12:0
3628	96	181	02:32:33.533		DMS:	:*RUNDOWN	R7, TRACK 4, REV, TIC *2048.31 +/- 13	2R7	4	21	3,500	224:12:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
3629	96	181	02:32:34.933		DMS:	:*READY	RDY, TRACK 4, REV, TIC *2048.25 +/- 13	2R7	4	21	3,500,224:14:1	
<b>3630</b>	<b>96</b>	<b>181</b>	<b>02:35:18.866</b>	<b>G1INTHRMAL05-</b>		-----STOP-----		<b>2R7</b>	<b>4</b>	<b>21</b>	<b>:</b>	
<b>3631</b>	<b>96</b>	<b>181</b>	<b>02:39:30.200</b>	<b>432SE6A</b>	<b>6RTSL2</b>	<b>NIMCG, AACNCG, RT</b>	<b>R/T ENG SELECT</b>	<b>2R7</b>	<b>4</b>	<b>21</b>	<b>3,500,231:00:0</b>	
3632	96	181	02:46:33.533	165IU4A	7TMOT	DIS, TMC	Disable IVP - Target Motion	2R7	4	21	3,500,237:89:0	
3633	96	181	02:46:34.200	165IU4B	7SCAN	NORM, 41.836, 14.9	Check S/P Position	2R7	4	21	3,500,237:90:0	
3634	96	181	02:50:31.533	118IU	SMOS	GS		2R7	4	21	3,500,241:82:0	
3635	96	181	02:50:41.533	118IU110A111A4A	7STRP	-0.002,0.0,0.92,0.	Slew = 1.01	2R7	4	21	3,500,242:06:0	
3636	96	181	02:51:28.866		DMS:	:*US-RUNUP	R115, TRACK 4, REV, TIC 2048.25 +/- 13	2R7	4	21	3,500,242:77:0	
3637	96	181	02:51:28.866	175IN422A6A	6DMSC	R115.0	DMS Control Tape runup 115.2kb	2R7	4	21	3,500,242:77:0	
3638	96	181	02:51:40.866	175IN176A6A	6TMREC	HMA	115.2 KBPS IMAGE(1-400)RECORD Record Mode	2R7	4	21	3,500,243:04:0	
3639	96	181	02:51:40.933		DMS:	:*RECORD	R115, TRACK 4, REV, TIC *2043.38 +/- 13	2R7	4	21	3,500,243:04:1	
3640	96	181	02:51:42.866	118IU11A	SMOS	GE		2R7	4	21	3,500,243:07:0	
3641	96	181	02:54:09.533	465TM6A	6DMSC	P7,1	DMS Control Tape P/B 7.68kpbs	2R7	4	21	3,500,245:45:0	
3642	96	181	02:54:09.533		DMS:	:*RUNDOWN	R115, TRACK 4, REV, TIC *1520.96 +/- 13	2R7	4	21	3,500,245:45:0	
3643	96	181	02:54:10.933		DMS:	:*RUNUP	P7, TRACK *1, *FWD, TIC *1520.04 +/- 13	2R7	4	21	3,500,245:47:1	
3644	96	181	02:54:12.400		DMS:	:*P SLEW	P7, TRACK *1, FWD, TIC *1520.16 +/- 13	2R7	4	21	3,500,245:49:3	
3645	96	181	03:24:17.533	465TM6B	6DMSC	RDY,1	DMS Control Tape stop	2R7	4	21	3,500,275:27:0	
3646	96	181	03:24:17.533		DMS:	:*RUNDOWN	P7, TRACK 1, FWD, TIC *1943.24 +/- 13	2R7	4	21	3,500,275:27:0	
3647	96	181	03:24:18.933		DMS:	:*READY	RDY, TRACK 1, FWD, TIC *1943.30 +/- 13	2R7	4	21	3,500,275:29:1	
3648	96	181	03:31:02.866	165FU4A	7TMOT	DIS, TMC	Disable IVP - Target Motion	2R7	4	21	3,500,281:89:0	
3649	96	181	03:31:03.533	165FU4B	7SCAN	NORM, 41.959, 15.3	Check S/P Position	2R7	4	21	3,500,281:90:0	
<b>3650</b>	<b>96</b>	<b>181</b>	<b>03:31:08.199</b>	<b>G1INRCECLI01-</b>		-----START-----		<b>2R7</b>	<b>4</b>	<b>21</b>	<b>:</b>	
3651	96	181	03:34:56.866	175FU422A6A	6DMSC	R7,4	DMS Control Tape runup 7.68kbp	2R7	4	21	3,500,285:76:0	
3652	96	181	03:34:56.866		DMS:	:*US-RUNUP	R7, TRACK *4, *REV, TIC 1943.30 +/- 14	2R7	4	21	3,500,285:76:0	
3653	96	181	03:34:57.533	117FU	CSMOS	GS	***** GROUP START CSMOS	2R7	4	21	3,500,285:77:0	
3654	96	181	03:35:02.200	127FU	NIMSTAB	GS	%%%GROUP START TAB	2R7	4	21	3,500,285:84:0	
<b>3655</b>	<b>96</b>	<b>181</b>	<b>03:35:02.866</b>	<b>127FU4A</b>	<b>37ETB</b>	<b>07,C7,19,D5,55,0</b>	<b>Loads wavelength edit table</b>	<b>2R7</b>	<b>4</b>	<b>21</b>	<b>3,500,285:85:0</b>	
3656	96	181	03:35:06.200	175FU176A6A	6TMREC	LPU	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R7	4	21	3,500,285:90:0	
3657	96	181	03:35:06.400		DMS:	:*RECORD	R7, TRACK 4, REV, TIC *1944.58 +/- 14	2R7	4	21	3,500,285:90:3	
3658	96	181	03:35:06.866	117FU105A106A4A	7STRP	0.003,0.0,0.0,0.0.	Slew = -0.76	2R7	4	21	3,500,286:00:0	
3659	96	181	03:35:10.866	127FU11A	NIMSTAB	GE	%%%GROUP END TAB	2R7	4	21	3,500,286:06:0	
3660	96	181	03:35:14.866	117FU11A	CSMOS	GE	***** GROUP END CSMOS	2R7	4	21	3,500,286:12:0	
3661	96	181	03:35:24.866		DMS:	:*RUNDOWN	R7, TRACK 4, REV, TIC *1940.25 +/- 14	2R7	4	21	3,500,286:27:0	
3662	96	181	03:35:24.866	175FU422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R7	4	21	3,500,286:27:0	
3663	96	181	03:35:24.866	175FU6A	6TMREC	NRC	NO RECORD Record Mode Change	2R7	4	21	3,500,286:27:0	
3664	96	181	03:35:26.266		DMS:	:*READY	RDY, TRACK 4, REV, TIC *1940.19 +/- 14	2R7	4	21	3,500,286:29:1	
<b>3665</b>	<b>96</b>	<b>181</b>	<b>03:36:11.533</b>	<b>G1INRCECLI01-</b>		-----STOP-----		<b>2R7</b>	<b>4</b>	<b>21</b>	<b>:</b>	
3666	96	181	03:37:12.200	117HC	CSMOS	GS	***** GROUP START CSMOS	2R7	4	21	3,500,288:06:0	
3667	96	181	03:37:16.866	165HC4A	7TMOT	DIS, TMC	Disable IVP - Target Motion	2R7	4	21	3,500,288:13:0	
3668	96	181	03:37:17.533	165HC4B	7SCAN	NORM, 42.0, 15.455	Check S/P Position	2R7	4	21	3,500,288:14:0	
3669	96	181	03:37:57.533	176HC6A	6TMREC	BPT	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R7	4	21	3,500,288:74:0	
3670	96	181	03:37:57.533	117HC105A106A4A	7STRP	0.0035,0.0,0.0,0.0	Slew = 0.04	2R7	4	21	3,500,288:74:0	
3671	96	181	03:39:31.533	117HC105A106A4B	7STRP	-0.0037,0.0013,0	Slew = 12.01	2R7	4	21	3,500,290:33:0	
3672	96	181	03:39:37.533	117HC105A106A4C	7STRP	0.0035,0.0,0.0,0.0	Slew = 0.04	2R7	4	21	3,500,290:42:0	
3673	96	181	03:41:11.533	117HC105A106A4D	7STRP	-0.0037,0.0013,0	Slew = 12.01	2R7	4	21	3,500,292:01:0	
3674	96	181	03:41:17.533	117HC105A106A4E	7STRP	0.0035,0.0,0.0,0.0	Slew = -0.04	2R7	4	21	3,500,292:10:0	
3675	96	181	03:42:51.533		DMS:	:*US-RUNUP	R7, TRACK 4, REV, TIC 1940.19 +/- 14	2R7	4	21	3,500,293:60:0	
3676	96	181	03:42:51.533	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kpbs	2R7	4	21	3,500,293:60:0	
3677	96	181	03:42:51.533	176HC6B	6TMREC	NRC	NO RECORD Record Mode Change	2R7	4	21	3,500,293:60:0	
3678	96	181	03:42:51.533	117HC11A	CSMOS	GE	***** GROUP END CSMOS	2R7	4	21	3,500,293:60:0	
3679	96	181	03:43:01.066		DMS:	:*RECORD	R7, TRACK 4, REV, TIC *1941.46 +/- 14	2R7	4	21	3,500,293:74:3	
3680	96	181	03:43:12.866		DMS:	:*RUNDOWN	R7, TRACK 4, REV, TIC *1938.70 +/- 14	2R7	4	21	3,500,294:01:0	
3681	96	181	03:43:12.866	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R7	4	21	3,500,294:01:0	
3682	96	181	03:43:14.266		DMS:	:*READY	RDY, TRACK 4, REV, TIC *1938.64 +/- 14	2R7	4	21	3,500,294:03:1	
3683	96	181	03:44:11.533	165IV4A	7TMOT	DIS, TMC	Disable IVP - Target Motion	2R7	4	21	3,500,294:89:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
3684	96	181	03:44:12.200	165IV4B	7SCAN	NORM,41.869,15.2	Check S/P Position	2R7	4	21	3,500,294:90:0	
3685	96	181	03:46:08.200	118IV	SMOS	GS		2R7	4	21	3,500,296:82:0	
3686	96	181	03:46:18.200	118IV110A111A4A	7STRP	-0.0039,0.0,92.0	Slew =,1.01	2R7	4	21	3,500,297:06:0	
3687	96	181	03:46:35.533	175IO422A6A	6DMSC	R115.0	DMS Control Tape runup 115.2kb	2R7	4	21	3,500,297:32:0	
3688	96	181	03:46:35.533		DMS:	: *US-RUNUP	R115, TRACK 4, REV, TIC 1938.64 +/- 14	2R7	4	21	3,500,297:32:0	
3689	96	181	03:46:47.533	175IO176A6A	6TMREC	HMA	115.2 KBPS IMAGE(1-400)RECORD Record Mode	2R7	4	21	3,500,297:50:0	
3690	96	181	03:46:47.600		DMS:	: *RECORD	R115, TRACK 4, REV, TIC *1933.76 +/- 14	2R7	4	21	3,500,297:50:1	
3691	96	181	03:46:48.866	118V11A	SMOS	GE		2R7	4	21	3,500,297:52:0	
3692	96	181	03:49:15.533	465TN6A	6DMSC	P7.1	DMS Control Tape P/B 7.68kbps	2R7	4	21	3,500,299:90:0	
3693	96	181	03:49:15.533		DMS:	: *RUNDOWN	R115, TRACK 4, REV, TIC *1413.69 +/- 14	2R7	4	21	3,500,299:90:0	
3694	96	181	03:49:16.933		DMS:	: *RUNUP	P7, TRACK *1, *FWD, TIC *1412.77 +/- 14	2R7	4	21	3,500,300:01:1	
3695	96	181	03:49:18.400		DMS:	: *P SLEW	P7, TRACK 1, FWD, TIC *1412.89 +/- 14	2R7	4	21	3,500,300:03:3	
3696	96	181	03:52:16.866	432SF6A	6RTDS2	NIMNCG, AACNCG, RT	RT ENG DESLECT	2R7	4	21	3,500,302:89:0	
3697	96	181	04:16:21.533	465TN6B	6DMSC	RDY,1	DMS Control Tape stop	2R7	4	21	3,500,326:72:0	
3698	96	181	04:16:21.533		DMS:	: *RUNDOWN	P7, TRACK 1, FWD, TIC *1793.31 +/- 14	2R7	4	21	3,500,326:72:0	
3699	96	181	04:16:22.933		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *1793.37 +/- 14	2R7	4	21	3,500,326:74:1	
3700	96	181	04:18:34.200	165EX4A	7TMOT	DIS, TMC	Disable IVP - Target Motion	2R7	4	21	3,500,328:89:0	
3701	96	181	04:18:34.866	165EX4B	7SCAN	NORM,61.239,19.9	Check S/P Position	2R7	4	21	3,500,328:90:0	
3702	96	181	04:18:39.599	G1JNGRS14101-		-----START-----		2R7	4	21	:	
3703	96	181	04:19:31.533	125EX4A	37IST	1,2,0,OFF,0,1,0	Chopper ON, Sync, Chopper (Ref)Gain State	2R7	4	21	3,500,329:84:0	
3704	96	181	04:19:31.533	125EX4X	NIMSINIT	GS	##### GROUP START INIT	2R7	4	21	3,500,329:84:0	
3705	96	181	04:19:31.533	125EX11A	NIMSINIT	GE	##### GROUP END INIT	2R7	4	21	3,500,329:84:0	
3706	96	181	04:20:26.866		DMS:	: *US-RUNUP	R7, TRACK *4, *REV, TIC 1793.37 +/- 14	2R7	4	21	3,500,330:76:0	
3707	96	181	04:20:26.866	175EX422A6A	6DMSC	R7.4	DMS Control Tape runup 7.68kb	2R7	4	21	3,500,330:76:0	
3708	96	181	04:20:27.533	117EX	CSMOS	GS	**** GROUP START CSMOS	2R7	4	21	3,500,330:77:0	
3709	96	181	04:20:32.200	127EX	NIMSTAB	GS	%% %% %% GROUP START TAB	2R7	4	21	3,500,330:84:0	
3710	96	181	04:20:32.200	127EX4A	37IOP	5,1	Short Map, Grating Start Position =01	2R5	4	1	3,500,330:84:0	
3711	96	181	04:20:32.866	127EX4B	37ETB	,00,05,FF,F8,05,	Loads wavelength edit table	2R5	4	1	3,500,330:85:0	
3712	96	181	04:20:36.200	175EX176A6A	6TMREC	LPU	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	3,500,330:90:0	
3713	96	181	04:20:36.400		DMS:	: *RECORD	R7, TRACK 4, REV, TIC *1794.65 +/- 14	2R5	4	1	3,500,330:90:3	
3714	96	181	04:20:36.866	117EX105A106A4A	7STRP	0.020003,0.0,0.0	Slew =,0.11	2R5	4	1	3,500,331:00:0	
3715	96	181	04:20:40.866	127EX11A	NIMSTAB	GE	%% %% %% GROUP END TAB	2R5	4	1	3,500,331:06:0	
3716	96	181	04:24:10.866	117EX105A106A4B	7STRP	-0.019002,0.008,	Slew =12.01	2R5	4	1	3,500,334:48:0	
3717	96	181	04:24:24.866	117EX105A106A4C	7STRP	0.020003,0.0,0.0	Slew =,0.11	2R5	4	1	3,500,334:69:0	
3718	96	181	04:27:58.866	117EX11A	CSMOS	GE	**** GROUP END CSMOS	2R5	4	1	3,500,338:26:0	
3719	96	181	04:28:08.866	175EX6A	6TMREC	NRC	NO RECORD Record Mode Change	2R5	4	1	3,500,338:41:0	
3720	96	181	04:28:08.866	175EX422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,500,338:41:0	
3721	96	181	04:28:08.866		DMS:	: *RUNDOWN	R7, TRACK 4, REV, TIC *1688.60 +/- 14	2R5	4	1	3,500,338:41:0	
3722	96	181	04:28:10.266		DMS:	: *READY	RDY, TRACK 4, REV, TIC *1688.54 +/- 14	2R5	4	1	3,500,338:43:1	
3723	96	181	04:28:40.266	G1JNGRS14101-		-----STOP-----		2R5	4	1	:	
3724	96	181	04:42:50.200	165EY4A	7TMOT	DIS, TMC	Disable IVP - Target Motion	2R5	4	1	3,500,352:89:0	
3725	96	181	04:42:50.866	165EY4B	7SCAN	NORM,61.819,20.1	Check S/P Position	2R5	4	1	3,500,352:90:0	
3726	96	181	04:42:55.599	G1JNGRS14102-		-----START-----		2R5	4	1	:	
3727	96	181	04:44:42.866		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 1688.54 +/- 15	2R5	4	1	3,500,354:76:0	
3728	96	181	04:44:42.866	175EY422A6A	6DMSC	RS,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,500,354:76:0	
3729	96	181	04:44:43.533	117EY	CSMOS	GS	**** GROUP START CSMOS	2R5	4	1	3,500,354:77:0	
3730	96	181	04:44:48.200	127EY	NIMSTAB	GS	%% %% %% GROUP START TAB	2R5	4	1	3,500,354:84:0	
3731	96	181	04:44:48.866	127EY4A	37ETB	,00,05,FF,F8,05,	Loads wavelength edit table	2R5	4	1	3,500,354:85:0	
3732	96	181	04:44:52.200	175EY176A6A	6TMREC	LPU	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	3,500,354:90:0	
3733	96	181	04:44:52.400		DMS:	: *RECORD	R7, TRACK 4, REV, TIC *1689.82 +/- 15	2R5	4	1	3,500,354:90:3	
3734	96	181	04:44:52.866	117EY105A106A4A	7STRP	0.026006,0.0,0.0	Slew =,0.12	2R5	4	1	3,500,355:00:0	
3735	96	181	04:44:56.866	127EY11A	NIMSTAB	GE	%% %% %% GROUP END TAB	2R5	4	1	3,500,355:06:0	
3736	96	181	04:48:42.866	117EY105A106A4B	7STRP	-0.026006,0.008,	Slew =12.01	2R5	4	1	3,500,358:72:0	
3737	96	181	04:48:54.866	117EY105A106A4C	7STRP	0.026006,0.0,0.0	Slew =,0.12	2R5	4	1	3,500,358:90:0	
3738	96	181	04:52:44.866	117EY11A	CSMOS	GE	**** GROUP END CSMOS	2R5	4	1	3,500,362:71:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
3739	96	181	04:52:54.866	175EY6A	6TMREC	NRC	NO RECORD Record Mode Change	2R5	4	1	3,500,362:86:0	
3740	96	181	04:52:54.866	175EY422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,500,362:86:0	
3741	96	181	04:52:54.866		DMS:	: *RUNDOWN	R7, TRACK 4, REV, TIC *1576.74 +/- 15	2R5	4	1	3,500,362:86:0	
3742	96	181	04:52:56.266	G1JNGRS14102-		-----STOP-----		2R5	4	1	:	
3743	96	181	04:52:56.266		DMS:	: *READY	RDY, TRACK 4, REV, TIC *1576.68 +/- 15	2R5	4	1	3,500,362:88:1	
3744	96	181	05:00:06.866	G1INCHEMIS08-		-----START-----		2R5	4	1	:	
3745	96	181	05:00:42.200	165FM4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,500,370:59:0	
3746	96	181	05:00:42.866	165FM4B	7SCAN	NORM,42.664,15.9	Check S/P Position	2R5	4	1	3,500,370:60:0	
3747	96	181	05:02:54.866		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 1576.68 +/- 15	2R5	4	1	3,500,372:76:0	
3748	96	181	05:02:54.866	175FM422A6A	6DMSC	RDY,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,500,372:76:0	
3749	96	181	05:02:55.533	117FM	CSMOS	GS	***** GROUP START CSMOS	2R5	4	1	3,500,372:77:0	
3750	96	181	05:03:00.200	127FM4A	37IOP	3,0	Long Map, Grating Start Position =00	2R3	4	0	3,500,372:84:0	
3751	96	181	05:03:00.200	127FM	NIMSTAB	GS	%%-%-%-% GROUP START TAB	2R3	4	0	3,500,372:84:0	
3752	96	181	05:03:00.866	127FM4B	37ETB	07,C7,02,01,80,0	Loads wavelength edit table	2R3	4	0	3,500,372:85:0	
3753	96	181	05:03:04.200	175FM176A6A	6TMREC	LPU	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R3	4	0	3,500,372:90:0	
3754	96	181	05:03:04.400		DMS:	: *RECORD	R7, TRACK 4, REV, TIC *1577.96 +/- 15	2R3	4	0	3,500,372:90:3	
3755	96	181	05:03:04.866	117FM105A106A4A	7STRP	0.0009,0.0,0.0,0	Slew = 0.03	2R3	4	0	3,500,373:00:0	
3756	96	181	05:03:08.866	127FM11A	NIMSTAB	GE	%%-%-%-% GROUP END TAB	2R3	4	0	3,500,373:06:0	
3757	96	181	05:03:37.533	117FM11A	CSMOS	GE	***** GROUP END CSMOS	2R3	4	0	3,500,373:49:0	
3758	96	181	05:03:47.533	175FM6A	6TMREC	NRC	NO RECORD Record Mode Change	2R3	4	0	3,500,373:64:0	
3759	96	181	05:03:47.533	175FM422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,500,373:64:0	
3760	96	181	05:03:47.533		DMS:	: *RUNDOWN	R7, TRACK 4, REV, TIC *1567.85 +/- 15	2R3	4	0	3,500,373:64:0	
3761	96	181	05:03:48.933		DMS:	: *READY	RDY, TRACK 4, REV, TIC *1567.79 +/- 15	2R3	4	0	3,500,373:66:1	
3762	96	181	05:04:11.533	G1INCHEMIS08-		-----STOP-----		2R3	4	0	:	
3763	96	181	05:05:10.199	G1INTHRMAL07-		-----START-----		2R3	4	0	:	
3764	96	181	05:05:45.533	165FM4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,500,375:59:0	
3765	96	181	05:05:46.200	165FM4B	7SCAN	NORM,42.531,15.9	Check S/P Position	2R3	4	0	3,500,375:60:0	
3766	96	181	05:06:02.200	125FN11A	NIMSNIT	GE	##### GROUP END INIT	2R3	4	0	3,500,375:84:0	
3767	96	181	05:06:02.200	125FN4A	37IST	1,2,0,OFF,0,1,1	Chopper ON, Sync, Chopper (Ref)Gain State	4R3	4	0	3,500,375:84:0	
3768	96	181	05:06:02.200	125FN	NIMSNIT	GS	##### GROUP START INIT	4R3	4	0	3,500,375:84:0	
3769	96	181	05:06:57.533		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 1567.79 +/- 15	4R3	4	0	3,500,376:76:0	
3770	96	181	05:06:57.533	175FN422A6A	6DMSC	RDY,0	DMS Control Tape runup 7.68kps	4R3	4	0	3,500,376:76:0	
3771	96	181	05:06:58.200	117FN	CSMOS	GS	***** GROUP START CSMOS	4R3	4	0	3,500,376:77:0	
3772	96	181	05:07:02.866	127FN4A	37IOP	7,21	Fixed Map, Grating Start Position =21	4R7	4	21	3,500,376:84:0	
3773	96	181	05:07:02.866	127FN	NIMSTAB	GS	%%-%-%-% GROUP START TAB	4R7	4	21	3,500,376:84:0	
3774	96	181	05:07:03.533	127FN4B	37ETB	07,C7,19,D,5,55,0	Loads wavelength edit table	4R7	4	21	3,500,376:85:0	
3775	96	181	05:07:06.866	175FN176A6A	6TMREC	LPU	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	4R7	4	21	3,500,376:90:0	
3776	96	181	05:07:07.066		DMS:	: *RECORD	R7, TRACK 4, REV, TIC *1569.06 +/- 15	4R7	4	21	3,500,376:90:3	
3777	96	181	05:07:07.533	117FN105A106A4A	7STRP	-0.0029,0.0,0.0,0	Slew = 0.76	4R7	4	21	3,500,377:00:0	
3778	96	181	05:07:11.533	127FN11A	NIMSTAB	GE	%%-%-%-% GROUP END TAB	4R7	4	21	3,500,377:06:0	
3779	96	181	05:07:14.866	117FN11A	CSMOS	GE	***** GROUP END CSMOS	4R7	4	21	3,500,377:11:0	
3780	96	181	05:07:24.866	175FN6A	6TMREC	NRC	NO RECORD Record Mode Change	4R7	4	21	3,500,377:26:0	
3781	96	181	05:07:24.866	175FN422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R7	4	21	3,500,377:26:0	
3782	96	181	05:07:24.866		DMS:	: *RUNDOWN	R7, TRACK 4, REV, TIC *1564.89 +/- 15	4R7	4	21	3,500,377:26:0	
3783	96	181	05:07:26.266		DMS:	: *READY	RDY, TRACK 4, REV, TIC *1564.83 +/- 15	4R7	4	21	3,500,377:28:1	
3784	96	181	05:07:35.533	G1INTHRMAL07-		-----STOP-----		4R7	4	21	:	
3785	96	181	05:44:32.200	411JC6A	6DMSC	RDY,0	DMS Control Tape runup 7.68kps	4R7	4	21	3,500,414:00:0	
3786	96	181	05:44:32.200		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 1564.83 +/- 15	4R7	4	21	3,500,414:00:0	
3787	96	181	05:44:41.733		DMS:	: *RECORD	R7, TRACK 4, REV, TIC *1566.11 +/- 15	4R7	4	21	3,500,414:14:3	
3788	96	181	05:44:42.200	411JC6B	6TMREC	BDT	7.68 KBPS BUFFER DUMP TO TAPE Record Mode	4R7	4	21	3,500,414:15:0	
3789	96	181	05:46:43.533		DMS:	: *RUNDOWN	R7, TRACK 4, REV, TIC *1537.56 +/- 15	4R7	4	21	3,500,416:15:0	
3790	96	181	05:46:43.533	411JC6D	6TMREC	NRC	NO RECORD Record Mode Change	4R7	4	21	3,500,416:15:0	
3791	96	181	05:46:43.533	411JC6C	6DMSC	RDY,0	DMS Control Tape stop	4R7	4	21	3,500,416:15:0	
3792	96	181	05:46:44.933		DMS:	: *READY	RDY, TRACK 4, REV, TIC *1537.50 +/- 15	4R7	4	21	3,500,416:17:1	
3793	96	181	05:59:46.199	G1INCHEMIS09-		-----START-----		4R7	4	21	:	



Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
3794	96	181	06:00:21.533	165FO4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R7	4	21	3,500,429:59:0	
3795	96	181	06:00:22.200	165FO4B	7SCAN	NORM,43.506,16.4	Check S/P Position	4R7	4	21	3,500,429:60:0	
<b>3796</b>	<b>96</b>	<b>181</b>	<b>06:01:38.866</b>	<b>125FO4A</b>	<b>37IST</b>	<b>1,2,0,OFF,0,1,0</b>	<b>Chopper ON, Sync, Chopper (Ref)Gain State</b>	<b>2R7</b>	<b>4</b>	<b>21</b>	<b>3,500,430:84:0</b>	
3797	96	181	06:01:38.866	125FO	NIMSINIT	GS	##### GROUP START INIT	2R7	4	21	3,500,430:84:0	
3798	96	181	06:01:38.866	125FO11A	NIMSINIT	GE	##### GROUP END INIT	2R7	4	21	3,500,430:84:0	
3799	96	181	06:02:34.200		DMS:	:*US-RUNUP	R7, TRACK 4, REV, TIC 1537.50 +/- 15	2R7	4	21	3,500,431:76:0	
3800	96	181	06:02:34.200	175FO422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R7	4	21	3,500,431:76:0	
3801	96	181	06:02:34.866	117FO	<b>CSMOS</b>	GS	##### GROUP START CSMOS	2R7	4	21	3,500,431:77:0	
3802	96	181	06:02:39.533	127FO	NIMSTAB	GS	##### GROUP START TAB	2R7	4	21	3,500,431:84:0	
<b>3803</b>	<b>96</b>	<b>181</b>	<b>06:02:39.533</b>	<b>127FO4A</b>	<b>37IOP</b>	<b>3,0</b>	<b>Long Map, Grating Start Position =00</b>	<b>2R3</b>	<b>4</b>	<b>0</b>	<b>3,500,431:84:0</b>	
<b>3804</b>	<b>96</b>	<b>181</b>	<b>06:02:40.200</b>	<b>127FO4B</b>	<b>37ETB</b>	<b>07,C7,02,01,80,0</b>	<b>Loads wavelength edit table</b>	<b>2R3</b>	<b>4</b>	<b>0</b>	<b>3,500,431:85:0</b>	
3805	96	181	06:02:43.533	175FO176A6A	6TMREC	LPU	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R3	4	0	3,500,431:90:0	
3806	96	181	06:02:43.733		DMS:	:*RECORD	R7, TRACK 4, REV, TIC *1538.77 +/- 15	2R3	4	0	3,500,431:90:3	
3807	96	181	06:02:44.200	117FO105A106A4A	7STRP	0.0009,0,0,0,0,0	Slew = 0.03	2R3	4	0	3,500,432:00:0	
3808	96	181	06:02:48.200	127FO11A	NIMSTAB	GE	##### GROUP END TAB	2R3	4	0	3,500,432:06:0	
3809	96	181	06:03:16.866	117FO11A	<b>CSMOS</b>	GE	##### GROUP END CSMOS	2R3	4	0	3,500,432:49:0	
3810	96	181	06:03:26.866		DMS:	:*RUNDOWN	R7, TRACK 4, REV, TIC *1528.67 +/- 15	2R3	4	0	3,500,432:64:0	
3811	96	181	06:03:26.866	175FO422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,500,432:64:0	
3812	96	181	06:03:26.866	175FO6A	6TMREC	NRC	NO RECORD Record Mode Change	2R3	4	0	3,500,432:64:0	
3813	96	181	06:03:28.266		DMS:	:*READY	RDY, TRACK 4, REV, TIC *1528.61 +/- 15	2R3	4	0	3,500,432:66:1	
<b>3814</b>	<b>96</b>	<b>181</b>	<b>06:03:50.866</b>	<b>G1INCHEMIS09-</b>			#####STOP-----	<b>2R3</b>	<b>4</b>	<b>0</b>	<b>:</b>	
<b>3815</b>	<b>96</b>	<b>181</b>	<b>06:04:49.533</b>	<b>G1INTHRMAL08-</b>			#####START-----	<b>2R3</b>	<b>4</b>	<b>0</b>	<b>:</b>	
3816	96	181	06:05:24.866	165FP4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,500,434:59:0	
3817	96	181	06:05:25.533	165FP4B	7SCAN	NORM,43.399,16.4	Check S/P Position	2R3	4	0	3,500,434:60:0	
3818	96	181	06:05:41.533	125FP11A	NIMSINIT	GE	##### GROUP END INIT	2R3	4	0	3,500,434:84:0	
3819	96	181	06:05:41.533	125FP	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	3,500,434:84:0	
<b>3820</b>	<b>96</b>	<b>181</b>	<b>06:05:41.533</b>	<b>125FP4A</b>	<b>37IST</b>	<b>1,2,0,OFF,0,1,1</b>	<b>Chopper ON, Sync, Chopper (Ref)Gain State</b>	<b>4R3</b>	<b>4</b>	<b>0</b>	<b>3,500,434:84:0</b>	
3821	96	181	06:06:36.866		DMS:	:*US-RUNUP	R7, TRACK 4, REV, TIC 1528.61 +/- 16	4R3	4	0	3,500,435:76:0	
3822	96	181	06:06:36.866	175FP422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	3,500,435:76:0	
3823	96	181	06:06:37.533	117FP	<b>CSMOS</b>	GS	##### GROUP START CSMOS	4R3	4	0	3,500,435:77:0	
<b>3824</b>	<b>96</b>	<b>181</b>	<b>06:06:42.200</b>	<b>127FP4A</b>	<b>37IOP</b>	<b>7,21</b>	<b>Fixed Map, Grating Start Position =21</b>	<b>4R7</b>	<b>4</b>	<b>21</b>	<b>3,500,435:84:0</b>	
3825	96	181	06:06:42.200	127FP	NIMSTAB	GS	##### GROUP START TAB	4R7	4	21	3,500,435:84:0	
<b>3826</b>	<b>96</b>	<b>181</b>	<b>06:06:42.866</b>	<b>127FP4B</b>	<b>37ETB</b>	<b>07,C7,19,D5,55,0</b>	<b>Loads wavelength edit table</b>	<b>4R7</b>	<b>4</b>	<b>21</b>	<b>3,500,435:85:0</b>	
3827	96	181	06:06:46.200	175FP176A6A	6TMREC	LPU	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	4R7	4	21	3,500,435:90:0	
3828	96	181	06:06:46.400		DMS:	:*RECORD	R7, TRACK 4, REV, TIC *1529.88 +/- 16	4R7	4	21	3,500,435:90:3	
3829	96	181	06:06:46.866	117FP105A106A4A	7STRP	-0.0029,0,0,0,0,0	Slew = -0.76	4R7	4	21	3,500,436:00:0	
3830	96	181	06:06:50.866	127FP11A	NIMSTAB	GE	##### GROUP END TAB	4R7	4	21	3,500,436:06:0	
3831	96	181	06:06:54.200	117FP11A	<b>CSMOS</b>	GE	##### GROUP END CSMOS	4R7	4	21	3,500,436:11:0	
3832	96	181	06:07:04.200		DMS:	:*RUNDOWN	R7, TRACK 4, REV, TIC *1525.71 +/- 16	4R7	4	21	3,500,436:26:0	
3833	96	181	06:07:04.200	175FP422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R7	4	21	3,500,436:26:0	
3834	96	181	06:07:04.200	175FP6A	6TMREC	NRC	NO RECORD Record Mode Change	4R7	4	21	3,500,436:26:0	
3835	96	181	06:07:05.600		DMS:	:*READY	RDY, TRACK 4, REV, TIC *1525.65 +/- 16	4R7	4	21	3,500,436:28:1	
<b>3836</b>	<b>96</b>	<b>181</b>	<b>06:07:14.866</b>	<b>G1INTHRMAL08-</b>			#####STOP-----	<b>4R7</b>	<b>4</b>	<b>21</b>	<b>:</b>	
3837	96	181	06:22:56.200	165EZ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R7	4	21	3,500,451:89:0	
3838	96	181	06:22:56.866	165EZ4B	7SCAN	NORM,43.894,16.6	Check S/P Position	4R7	4	21	3,500,451:90:0	
<b>3839</b>	<b>96</b>	<b>181</b>	<b>06:23:01.533</b>	<b>G1INVOLCAN03-</b>			#####START-----	<b>4R7</b>	<b>4</b>	<b>21</b>	<b>:</b>	
3840	96	181	06:23:53.533	125E11A	NIMSINIT	GE	##### GROUP END INIT	4R7	4	21	3,500,452:84:0	
3841	96	181	06:23:53.533	125E2	NIMSINIT	GS	##### GROUP START INIT	4R7	4	21	3,500,452:84:0	
<b>3842</b>	<b>96</b>	<b>181</b>	<b>06:23:53.533</b>	<b>125E24A</b>	<b>37IST</b>	<b>1,2,0,OFF,0,1,0</b>	<b>Chopper ON, Sync, Chopper (Ref)Gain State</b>	<b>2R7</b>	<b>4</b>	<b>21</b>	<b>3,500,452:84:0</b>	
3843	96	181	06:24:48.866		DMS:	:*US-RUNUP	R7, TRACK 4, REV, TIC 1525.65 +/- 16	2R7	4	21	3,500,453:76:0	
3844	96	181	06:24:48.866	175EZ422A6A	6DMSC	RDY,0	DMS Control Tape runup 7.68kps	2R7	4	21	3,500,453:76:0	
3845	96	181	06:24:49.533	117EZ	<b>CSMOS</b>	GS	##### GROUP START CSMOS	2R7	4	21	3,500,453:77:0	
3846	96	181	06:24:54.200	127EZ	NIMSTAB	GS	##### GROUP START TAB	2R7	4	21	3,500,453:84:0	
<b>3847</b>	<b>96</b>	<b>181</b>	<b>06:24:54.866</b>	<b>127EZ4A</b>	<b>37ETB</b>	<b>07,C7,19,D5,55,0</b>	<b>Loads wavelength edit table</b>	<b>2R7</b>	<b>4</b>	<b>21</b>	<b>3,500,453:85:0</b>	
3848	96	181	06:24:58.200	175EZ176A6A	6TMREC	LPU	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R7	4	21	3,500,453:90:0	

Line	YR	DOY	SCET - GMT	PSID	Command Parameters	Description	GCM	GO	GS	RIM	MF I
3849	96	181	06:24:58.400		DMS: : *RECORD	R7, TRACK 4, REV, TIC *1526.92 +/- 16	2R7	4	21	3,500,453:90:3	
3850	96	181	06:24:58.866	117EZ105A106A4A	7STRP 0.0031,0.0,0.0,0	Slew = 0.76	2R7	4	21	3,500,454:00:0	
3851	96	181	06:25:02.866	127EZ11A	NIMSTAB GE	%%-%-% GROUP END TAB	2R7	4	21	3,500,454:06:0	
3852	96	181	06:25:06.866	117EZ11A	CSMOS GE	**** GROUP END CSMOS	2R7	4	21	3,500,454:12:0	
3853	96	181	06:25:16.866		DMS: : *RUNDOWN	R7, TRACK 4, REV, TIC *1522.60 +/- 16	2R7	4	21	3,500,454:27:0	
3854	96	181	06:25:16.866	175EZ6A	6TMREC NRC	NO RECORD Record Mode Change	2R7	4	21	3,500,454:27:0	
3855	96	181	06:25:16.866	175EZ422A6B	6DMSC RDY,0	DMS Control Tape stop	2R7	4	21	3,500,454:27:0	
3856	96	181	06:25:18.266		DMS: : *READY	RDY, TRACK 4, REV, TIC *1522.54 +/- 16	2R7	4	21	3,500,454:29:1	
3857	96	181	06:26:36.199	G1INVOLCAN03-	-----STOP-----		2R7	4	21	:	
3858	96	181	06:27:00.200	432SG6A	6RTSL2 NIMNCG, AACNCG, RT	RIT ENG SELECT	2R7	4	21	3,500,456:00:0	
3859	96	181	06:28:00.200	41T99A	POWER PWR MODE change	Change to Maneuver Mode	2R7	4	21	3,500,456:90:0	
3860	96	181	06:28:04.200	41T3K	37F2PR	1 Shield Flash Heater OFF (primary relay)	2R7	4	21	3,500,457:05:0	
3861	96	181	06:28:14.200	41T3L	37F2PR	2 Shield Flash Heater OFF (primary relay)	2R7	4	21	3,500,457:20:0	
3862	96	181	06:30:24.200	41T3G	40T1P	1 PCT Heater 1 ON (primary relay)	2R7	4	21	3,500,459:33:0	
3863	96	181	06:30:34.200	41T3H	40T1P	2 PCT Heater 1 ON (primary relay)	2R7	4	21	3,500,459:48:0	
3864	96	181	06:30:44.200	41T3I	40T2	1 PCT Heater 2 ON	2R7	4	21	3,500,459:63:0	
3865	96	181	06:30:54.200	41T3J	40T2	2 PCT Heater 2 ON	2R7	4	21	3,500,459:78:0	
3866	96	181	06:43:02.866	490UB412A4B	7MODE INT	AACS INERTIAL MODE	2R7	4	21	3,500,471:79:0	
3867	96	181	06:48:00.866	490UB412A4D	7SAFE UNSTOW	SIP TO 153 deg cone	2R7	4	21	3,500,476:71:0	
3868	96	181	06:52:10.866	490UB412A4E	7VECT RTH	Inert vect update UTC	2R7	4	21	3,500,480:82:0	
3869	96	181	06:52:14.866	490UB412A4F	7TURN 2,RTH	ALERT Thruster	2R7	4	21	3,500,480:88:0	
3870	96	181	06:56:02.866	490UB412A406A4A	7STAR 1,3000,95.710999	Star catalog update	2R7	4	21	3,500,484:66:0	
3871	96	181	06:56:04.866	490UB412A406A4B	7STAR 2,131,322.01	Star catalog update	2R7	4	21	3,500,484:69:0	
3872	96	181	06:56:06.866	490UB412A406A4C	7STAR 3,396,206.39	Star catalog update	2R7	4	21	3,500,484:72:0	
3873	96	181	06:56:08.866	490UB412A406A4D	7STAR 4,188,183.30	Star catalog update	2R7	4	21	3,500,484:75:0	
3874	96	181	06:56:10.866	490UB412A406A4E	7STAR 5,0,0,0,0,0	Star catalog update	2R7	4	21	3,500,484:78:0	
3875	96	181	06:56:12.866	490UB412A406A4F	7STAR 6,0,0,0,0,0	Star catalog update	2R7	4	21	3,500,484:81:0	
3876	96	181	06:56:46.200	488AX6A	6TMSED NORM,AL1	Sci, Eng, and D/L Chan	2R7	4	21	3,500,485:40:0	
3877	96	181	07:18:30.200	488AX6B	6TMSED FILL,AL1	Sci, Eng, and D/L Chan	2R7	4	21	3,500,506:85:0	
3878	96	181	08:02:11.533	488AX6C	6TMSED FILL,AL3	Sci, Eng, and D/L Chan	2R7	4	21	3,500,550:13:0	
3879	96	181	08:15:00.200	488AX6D	6TMSED FILL,DL3	Sci, Eng, and D/L Chan	2R7	4	21	3,500,562:74:0	
3880	96	181	08:53:00.200	41Z99A	POWER PWR MODE change	Change to Data Taking Mode	2R7	4	21	3,500,600:36:0	
3881	96	181	08:53:04.200	41Z3K	37F2PR	1 Shield Flash Heater OFF (primary relay)	2R7	4	21	3,500,600:42:0	
3882	96	181	08:53:14.200	41Z3L	37F2PR	2 Shield Flash Heater OFF (primary relay)	2R7	4	21	3,500,600:57:0	
3883	96	181	08:53:24.200	41Z3A	40T1PR	1 PCT Heater 1 OFF (primary relay)	2R7	4	21	3,500,600:72:0	
3884	96	181	08:53:34.200	41Z3B	40T1PR	2 PCT Heater 1 OFF (primary relay)	2R7	4	21	3,500,600:87:0	
3885	96	181	08:53:44.200	41Z3C	40T2R	1 PCT Heater 2 OFF	2R7	4	21	3,500,601:11:0	
3886	96	181	08:53:54.200	41Z3D	40T2R	2 PCT Heater 2 OFF	2R7	4	21	3,500,601:26:0	
3887	96	181	09:02:59.533	432OF431A6A	6RCDSL DDSNCG, PLSNCG, EP	Record Deselect (DDS o	2R7	4	21	3,500,610:25:0	
3888	96	181	09:03:00.200	432OF6A	6RTSL1	RIT Select of DDS and	2R7	4	21	3,500,610:26:0	
3889	96	181	09:22:54.866	165FB4A	7TMOT DIS, TMC	Disable IVP - Target Motion	2R7	4	21	3,500,629:89:0	
3890	96	181	09:22:55.533	165FB4B	7SCAN NORM,48.261,18.4	Check S/P Position	2R7	4	21	3,500,629:90:0	
3891	96	181	09:23:00.199	G1INVOLCAN02-	-----START-----		2R7	4	21	:	
3892	96	181	09:23:15.533	488AX6E	6TMSED FILL,DL4	Sci, Eng, and D/L Chan	2R7	4	21	3,500,630:29:0	
3893	96	181	09:24:47.533	175FB422A6A	6DMSC R7,0	DMS Control Tape runup 7.68kps	2R7	4	21	3,500,631:76:0	
3894	96	181	09:24:47.533		DMS: : *US-RUNUP	R7, TRACK 4, REV, TIC 1522.54 +/- 16	2R7	4	21	3,500,631:76:0	
3895	96	181	09:24:48.200	117FB	CSMOS GS	**** GROUP START CSMOS	2R7	4	21	3,500,631:77:0	
3896	96	181	09:24:52.866	127FB	NIMSTAB GS	%%-%-% GROUP START TAB	2R7	4	21	3,500,631:84:0	
3897	96	181	09:24:53.533	127FB4A	37ETB 07,C7,19,D5,55,0	Loads wavelength edit table	2R7	4	21	3,500,631:85:0	
3898	96	181	09:24:56.866	175FB176A6A	6TMREC LPU	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R7	4	21	3,500,631:90:0	
3899	96	181	09:24:57.066		DMS: : *RECORD	R7, TRACK 4, REV, TIC *1523.81 +/- 16	2R7	4	21	3,500,631:90:3	
3900	96	181	09:24:57.533	117FB105A106A4A	7STRP 0.0026,0.0,0.0,0	Slew = 0.76	2R7	4	21	3,500,632:00:0	
3901	96	181	09:25:01.533	127FB11A	NIMSTAB GE	%%-%-% GROUP END TAB	2R7	4	21	3,500,632:06:0	
3902	96	181	09:25:04.200	117FB11A	CSMOS GE	**** GROUP END CSMOS	2R7	4	21	3,500,632:10:0	
3903	96	181	09:25:14.200	175FB422A6B	6DMSC RDY,0	DMS Control Tape stop	2R7	4	21	3,500,632:25:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
3904	96	181	09:25:14.200	175FB6A	6TMREC	NRC	NO RECORD Record Mode Change	2R7	4	21	3,500,632:25:0	
3905	96	181	09:25:14.200		DMS:	: *RUNDOWN	R7, TRACK 4, REV, TIC *1519.80 +/- 16	2R7	4	21	3,500,632:25:0	
3906	96	181	09:25:15.600		DMS:	: *READY	RDY, TRACK 4, REV, TIC *1519.74 +/- 16	2R7	4	21	3,500,632:27:1	
3907	96	181	09:27:34.866	G1INVOLCAN02-	6TMSED	-----STOP-----		2R7	4	21	:	
3908	96	181	09:29:44.866	488AY6A	6TMSED	NORM,DL4	Sci, Eng, and D/L Chan	2R7	4	21	3,500,636:67:0	
3909	96	181	10:25:41.533	G1INCHEMIS07-	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R7	4	21	:	
3910	96	181	10:26:16.866	165FC4A	7SCAN	NORM,50.236,19.1	Check S/P Position	2R7	4	21	3,500,692:60:0	
3911	96	181	10:26:17.533	165FC4B	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R7	4	21	3,500,694:76:0	
3912	96	181	10:28:29.533	175FC422A6A	DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 1519.74 +/- 16	2R7	4	21	3,500,694:76:0	
3913	96	181	10:28:29.533		DMS:	GS	***** GROUP START CSMOS	2R7	4	21	3,500,694:77:0	
3914	96	181	10:28:30.200	117FC	37IOP	3,0	Long Map, Grating Start Position =00	2R3	4	0	3,500,694:84:0	
3915	96	181	10:28:34.866	127FC4A	NIMSTAB	GS	%%-%-%-% GROUP START TAB	2R3	4	0	3,500,694:84:0	
3916	96	181	10:28:34.866	127FC	NIMSTAB	GS	***** GROUP END CSMOS	2R3	4	0	3,500,695:49:0	
3917	96	181	10:28:35.533	127FC4B	6TMREC	LPU	Loads wavelength edit table	2R3	4	0	3,500,694:85:0	
3918	96	181	10:28:38.866	175FC176A6A	DMS:	: *RECORD	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R3	4	0	3,500,694:90:0	
3919	96	181	10:28:39.066		DMS:	7STRP	R7, TRACK 4, REV, TIC *1521.01 +/- 16	2R3	4	0	3,500,694:90:3	
3920	96	181	10:28:39.533	117FC105A106A4A	7STRP	0.0009,0.0,0.0,0	Slew = 0.03	2R3	4	0	3,500,695:00:0	
3921	96	181	10:28:43.533	127FC11A	NIMSTAB	GE	%%-%-%-% GROUP END TAB	2R3	4	0	3,500,695:06:0	
3922	96	181	10:29:12.200	117FC11A	CSMOS	GE	***** GROUP END CSMOS	2R3	4	0	3,500,695:49:0	
3923	96	181	10:29:22.200	175FC6A	6TMREC	RDY,0	NO RECORD Record Mode Change	2R3	4	0	3,500,695:64:0	
3924	96	181	10:29:22.200	175FC422A6B	6DMSC	NRC	DMS Control Tape stop	2R3	4	0	3,500,695:64:0	
3925	96	181	10:29:22.200		DMS:	: *RUNDOWN	R7, TRACK 4, REV, TIC *1510.90 +/- 16	2R3	4	0	3,500,695:64:0	
3926	96	181	10:29:23.600		DMS:	: *READY	RDY, TRACK 4, REV, TIC *1510.84 +/- 16	2R3	4	0	3,500,695:66:1	
3927	96	181	10:29:39.533	G1INCHEMIS07-	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	:	
3928	96	181	10:30:44.866	G1INTHRMAL06-	7SCAN	NORM,50.207,19.1	Check S/P Position	2R3	4	0	:	
3929	96	181	10:31:20.200	165FQ4A	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	3,500,697:84:0	
3930	96	181	10:31:20.866	165FQ4B	37IST	1,2,0,OFF,0,1,1	Chopper ON, Sync, Chopper (Ref)Gain State	4R3	4	0	3,500,697:84:0	
3931	96	181	10:31:36.866	125FQ	NIMSINIT	GE	##### GROUP END INIT	4R3	4	0	3,500,697:84:0	
3932	96	181	10:31:36.866	125FQ4A	DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 1510.84 +/- 16	4R3	4	0	3,500,698:76:0	
3933	96	181	10:31:36.866	125FQ11A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	3,500,698:76:0	
3934	96	181	10:32:32.200	175FQ422A6A	CSMOS	GS	***** GROUP START CSMOS	4R3	4	0	3,500,698:77:0	
3935	96	181	10:32:32.866	117FQ	37IOP	7,21	Fixed Map, Grating Start Position =21	4R7	4	21	3,500,698:84:0	
3936	96	181	10:32:37.533	127FQ4A	NIMSTAB	GS	%%-%-%-% GROUP START TAB	4R7	4	21	3,500,698:84:0	
3937	96	181	10:32:37.533	127FQ	37ETB	07,C7,19,D,5,55,0	Loads wavelength edit table	4R7	4	21	3,500,698:85:0	
3938	96	181	10:32:38.200	127FQ4B	6TMREC	LPU	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	4R7	4	21	3,500,698:90:0	
3939	96	181	10:32:38.200	175FQ176A6A	DMS:	: *RECORD	R7, TRACK 4, REV, TIC *1512.12 +/- 17	4R7	4	21	3,500,698:90:3	
3940	96	181	10:32:41.533		DMS:	7STRP	Slew = 0.76	4R7	4	21	3,500,699:00:0	
3941	96	181	10:32:41.733	117FQ105A106A4A	NIMSTAB	GE	%%-%-%-% GROUP END TAB	4R7	4	21	3,500,699:06:0	
3942	96	181	10:32:42.200	127FQ11A	CSMOS	GE	***** GROUP END CSMOS	4R7	4	21	3,500,699:11:0	
3943	96	181	10:32:46.200	117FQ11A	DMS:	: *RUNDOWN	R7, TRACK 4, REV, TIC *1507.95 +/- 17	4R7	4	21	3,500,699:26:0	
3944	96	181	10:32:49.533	117FQ11A	6TMREC	NRC	NO RECORD Record Mode Change	4R7	4	21	3,500,699:26:0	
3945	96	181	10:32:59.533	175FQ422A6B	DMS:	: *READY	RDY, TRACK 4, REV, TIC *1507.89 +/- 17	4R7	4	21	3,500,699:28:1	
3946	96	181	10:32:59.533		DMS:	-----STOP-----		4R7	4	21	:	
3947	96	181	10:32:59.533	175FQ6A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R7	4	21	3,500,747:89:0	
3948	96	181	10:33:00.933	165FE4A	7SCAN	NORM,52.105,19.7	Check S/P Position	4R7	4	21	3,500,747:90:0	
3949	96	181	11:22:14.200	165FE4B	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R7	4	21	:	
3950	96	181	11:22:13.533	G1INVOLCAN01-	DMS:	: *US-RUNUP	RDY, TRACK 4, REV, TIC 1507.89 +/- 17	4R7	4	21	:	
3951	96	181	11:22:14.200		DMS:	GS	***** GROUP START CSMOS	4R7	4	21	:	
3952	96	181	11:22:18.866	125FE11A	NIMSINIT	GE	##### GROUP END INIT	4R7	4	21	3,500,748:84:0	
3953	96	181	11:23:10.866	125FE	NIMSINIT	GE	##### GROUP START INIT	4R7	4	21	3,500,748:84:0	
3954	96	181	11:23:10.866	125FE4A	37IST	1,2,0,OFF,0,1,0	Chopper ON, Sync, Chopper (Ref)Gain State	2R7	4	21	3,500,748:84:0	
3955	96	181	11:23:10.866	125FE4E	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R7	4	21	3,500,749:76:0	
3956	96	181	11:24:06.200	175FE422A6A	DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 1507.89 +/- 17	2R7	4	21	3,500,749:76:0	
3957	96	181	11:24:06.200		DMS:	CSMOS	***** GROUP START CSMOS	2R7	4	21	3,500,749:77:0	
3958	96	181	11:24:06.866	117FE	CSMOS	GS		2R7	4	21	3,500,749:77:0	



Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
3959	96	181	11:24:11.533	127FE	NIMSTAB	GS	%%%% GROUP START TAB	2R7	4	21	3,500,749:84:0	
3960	96	181	11:24:12.200	127FE4A	37ETB	07,C7,19,D5,55,0	Loads wavelength edit table	2R7	4	21	3,500,749:85:0	
3961	96	181	11:24:15.533	175FE176A6A	6TMREC	LPU	7.68 KBPS NIMS-UVS-PPR RECORD	2R7	4	21	3,500,749:90:0	
3962	96	181	11:24:15.733		DMS:	: *RECORD	R7, TRACK 4, REV, TIC *1509.16 +/- 17	2R7	4	21	3,500,749:90:3	
3963	96	181	11:24:16.200	117FE105A106A4A	7STRP	0.0026:0.0:0.0	Slew = -0.76	2R7	4	21	3,500,750:00:0	
3964	96	181	11:24:20.200	127FE11A	NIMSTAB	GE	%%%% GROUP END TAB	2R7	4	21	3,500,750:06:0	
3965	96	181	11:24:22.866	117FE11A	CSMOS	GE	**** GROUP END CSMOS	2R7	4	21	3,500,750:10:0	
3966	96	181	11:24:32.866	175FE6A	6TMREC	NRC	NO RECORD Record Mode Change	2R7	4	21	3,500,750:25:0	
3967	96	181	11:24:32.866	175FE422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R7	4	21	3,500,750:25:0	
3968	96	181	11:24:32.866		DMS:	: *RUNDOWN	R7, TRACK 4, REV, TIC *1505.15 +/- 17	2R7	4	21	3,500,750:25:0	
3969	96	181	11:24:34.266		DMS:	: *READY	RDY, TRACK 4, REV, TIC *1505.09 +/- 17	2R7	4	21	3,500,750:27:1	
3970	96	181	11:25:20.866	G1INVOLCAN01-		-----STOP-----		2R7	4	21	:	
3971	96	181	11:28:17.533	165DX4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R7	4	21	3,500,753:89:0	
3972	96	181	11:28:18.200	165DX4B	7SCAN	NORM,52.331,19.9	Check S/P Position	2R7	4	21	3,500,753:90:0	
3973	96	181	11:28:22.866	G1INIOMON_07-		-----START-----		2R7	4	21	:	
3974	96	181	11:31:16.200	125DX	NIMSNIT	GS	##### GROUP START INIT	2R7	4	21	3,500,756:84:0	
3975	96	181	11:31:16.200	125DX4A	37MB	1C,07,0,0,0,0	Selects mirror (spatial) edit table	2R7	4	21	3,500,756:84:0	
3976	96	181	11:31:16.200	125DX11A	NIMSNIT	GE	##### GROUP END INIT	2R7	4	21	3,500,756:84:0	
3977	96	181	11:31:40.866	432DX6A	6RTSL2	NIMSEL,AACNCG,RT	NIMS R/T SELECT	2R7	4	21	3,500,757:30:0	
3978	96	181	11:32:12.200	117DX	CSMOS	GS	**** GROUP START CSMOS	2R7	4	21	3,500,757:77:0	
3979	96	181	11:32:16.866	127DX	NIMSTAB	GS	%%%% GROUP START CSMOS	2R7	4	21	3,500,757:84:0	
3980	96	181	11:32:17.533	127DX4A	37ETB	07,C7,19,2A,95,0	Loads wavelength edit table	2R7	4	21	3,500,757:85:0	
3981	96	181	11:32:21.533	117DX105A106A4A	7STRP	0.0025:0.0:0.0	Slew = -0.41	2R7	4	21	3,500,758:00:0	
3982	96	181	11:32:25.533	127DX11A	NIMSTAB	GE	%%%% GROUP END TAB	2R7	4	21	3,500,758:06:0	
3983	96	181	11:32:31.533	117DX11A	CSMOS	GE	**** GROUP END CSMOS	2R7	4	21	3,500,758:15:0	
3984	96	181	11:32:33.533	G1INIOMON_07-		-----STOP-----		2R7	4	21	:	
3985	96	181	11:32:40.200	432DT6A	6RTDS2	NIMDSL,AACNCG,RT	NIMS R/T DESELECT	2R7	4	21	3,500,758:28:0	
3986	96	181	11:34:18.200	125FS11A	NIMSNIT	GE	##### GROUP END INIT	2R7	4	21	3,500,759:84:0	
3987	96	181	11:34:18.200	125FS	NIMSNIT	GS	##### GROUP START INIT	2R7	4	21	3,500,759:84:0	
3988	96	181	11:34:18.200	125FS4A	37MB	0,0,0,0,0,0	Selects mirror (spatial) edit table	2R7	4	21	3,500,759:84:0	
3989	96	181	14:23:12.800	165FF4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R7	4	21	3,500,926:89:0	
3990	96	181	14:23:13.466	165FF4B	7SCAN	NORM,74.273,22.9	Check S/P Position	2R7	4	21	3,500,926:90:0	
3991	96	181	14:23:18.266	G1JNGRS15401-		-----START-----		2R7	4	21	:	
3992	96	181	14:27:06.800		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC, 1505.09 +/- 17	2R7	4	21	3,500,930:76:0	
3993	96	181	14:27:06.800	175FF422A6A	6DMSC	RDY,0	DMS Control Tape runup 7.68kps	2R7	4	21	3,500,930:76:0	
3994	96	181	14:27:07.466	117FF	CSMOS	GS	**** GROUP START CSMOS	2R7	4	21	3,500,930:77:0	
3995	96	181	14:27:12.133	127FF	NIMSTAB	GS	%%%% GROUP START TAB	2R7	4	21	3,500,930:84:0	
3996	96	181	14:27:12.133	127FF4A	37IOP	5,1	Short Map, Grating Start Position =01	2R5	4	1	3,500,930:84:0	
3997	96	181	14:27:12.800	127FF4B	37ETB	,00,05,FF,F8,05,	Loads wavelength edit table	2R5	4	1	3,500,930:85:0	
3998	96	181	14:27:16.133	175FF176A6A	6TMREC	LPU	7.68 KBPS NIMS-UVS-PPR RECORD	2R5	4	1	3,500,930:90:0	
3999	96	181	14:27:16.333		DMS:	: *RECORD	R7, TRACK 4, REV, TIC *1506.36 +/- 17	2R5	4	1	3,500,930:90:3	
4000	96	181	14:27:16.800	117FF105A106A4A	7STRP	0.0095:0.0:0.0	Slew = 0.12	2R5	4	1	3,500,931:00:0	
4001	96	181	14:27:20.800	127FF11A	NIMSTAB	GE	%%%% GROUP END TAB	2R5	4	1	3,500,931:06:0	
4002	96	181	14:29:02.800	117FF105A106A4B	7STRP	-0.008,0.008001,	Slew = 12.01	2R5	4	1	3,500,932:68:0	
4003	96	181	14:29:14.800	117FF105A106A4C	7STRP	0.0095:0.0:0.0	Slew = -0.12	2R5	4	1	3,500,932:86:0	
4004	96	181	14:31:00.800	117FF11A	CSMOS	GE	**** GROUP END CSMOS	2R5	4	1	3,500,934:63:0	
4005	96	181	14:31:10.800		DMS:	: *RUNDOWN	R7, TRACK 4, REV, TIC *1451.41 +/- 17	2R5	4	1	3,500,934:78:0	
4006	96	181	14:31:10.800	175FF422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,500,934:78:0	
4007	96	181	14:31:10.800	175FF6A	6TMREC	NRC	NO RECORD Record Mode Change	2R5	4	1	3,500,934:78:0	
4008	96	181	14:31:12.200		DMS:	: *READY	RDY, TRACK 4, REV, TIC *1451.35 +/- 17	2R5	4	1	3,500,934:80:1	
4009	96	181	14:31:18.932	G1JNGRS15401-		-----STOP-----		2R5	4	1	:	
4010	96	181	14:43:26.133	165FG4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,500,946:89:0	
4011	96	181	14:43:26.800	165FG4B	7SCAN	NORM,74.601,23.1	Check S/P Position	2R5	4	1	3,500,946:90:0	
4012	96	181	14:43:31.599	G1JNGRS15402-		-----START-----		2R5	4	1	:	
4013	96	181	14:44:18.133	175FG422A6A	6DMSC	RDY,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,500,947:76:0	

Line	YR	DOY	SCET - GMT	PSID	Command Parameters	Description	GCM	GO	GS	RIM	MF I
4014	96	181	14:44:18.133		DMS: : *US-RUNUP	R7, TRACK 4, REV, TIC 1451.35 +/- 17	2R5	4	1	3,500,947.76:0	
4015	96	181	14:44:18.800	117FG	CSMOS GS	**** GROUP START CSMOS	2R5	4	1	3,500,947.77:0	
4016	96	181	14:44:23.466	127FG	NIMSTAB GS	%%-%-% GROUP START TAB	2R5	4	1	3,500,947.84:0	
4017	96	181	14:44:24.133	127FG4A	37ETB ,00,05,FF,F8,05,	<b>Loads wavelength edit table</b>	2R5	4	1	3,500,947.85:0	
4018	96	181	14:44:27.466	175FG176A6A	6TMREC LPU	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	3,500,947.90:0	
4019	96	181	14:44:27.666		DMS: : *RECORD	R7, TRACK 4, REV, TIC *1452.62 +/- 17	2R5	4	1	3,500,947.90:3	
4020	96	181	14:44:28.133	117FG105A106A4A	7STRP : 0.009,0.0,0.0,0.0,	Slew = 0.12	2R5	4	1	3,500,948.00:0	
4021	96	181	14:44:32.133	127FG11A	NIMSTAB GE	%%-%-% GROUP END TAB	2R5	4	1	3,500,948.06:0	
4022	96	181	14:45:50.133	117FG105A106A4B	7STRP -0.007,0.008001,	Slew = 12.01	2R5	4	1	3,500,949.32:0	
4023	96	181	14:46:02.133	117FG105A106A4C	7STRP 0.009,0.0,0.0,0.0,	Slew = -0.12	2R5	4	1	3,500,949.50:0	
4024	96	181	14:47:24.133	117FG11A	CSMOS GE	**** GROUP END CSMOS	2R5	4	1	3,500,950.82:0	
4025	96	181	14:47:34.133	175FG6A	6TMREC NRC	NO RECORD Record Mode Change	2R5	4	1	3,500,951.06:0	
4026	96	181	14:47:34.133	175FG422A6B	6DMSC RDY,0	DMS Control Tape stop	2R5	4	1	3,500,951.06:0	
4027	96	181	14:47:34.133		DMS: : *RUNDOWN	R7, TRACK 4, REV, TIC *1408.92 +/- 17	2R5	4	1	3,500,951.06:0	
4028	96	181	14:47:35.533		DMS: : *READY	RDY, TRACK 4, REV, TIC *1408.86 +/- 17	2R5	4	1	3,500,951.08:1	
4029	96	181	14:48:32.266	G1JNGRS15402-	-----STOP-----		2R5	4	1	:	
4030	96	181	15:14:52.266	G1NPNCTCAL01-	-----START-----		2R5	4	1	:	
4031	96	181	15:15:00.133	444UB443A4A	7MODE CRU	AACS CRUISE MODE	2R5	4	1	3,500,978.18:0	
4032	96	181	15:21:00.133	444UC443A4A	7SAFE UNSTOW	S/P TO 153 deg cone	2R5	4	1	3,500,984.12:0	
4033	96	181	15:25:00.133	444UC443A4B	7MODE SPNL	AACS ALL-SPIN LOW	2R5	4	1	3,500,988.08:0	
4034	96	181	15:29:53.466	127DJ	NIMSTAB GS	%%-%-% GROUP START TAB	2R5	4	1	3,500,992.84:0	
4035	96	181	15:29:54.133	127DJ4A	37ETB 0A,CA,19,FF,C0,1	<b>Loads wavelength edit table</b>	2R5	4	1	3,500,992.85:0	
4036	96	181	15:30:02.133	127DJ11A	NIMSTAB GE	%%-%-% GROUP END TAB	2R5	4	1	3,500,993.06:0	
4037	96	181	15:34:00.133	444UC443A4C	7CLK 17.45,0.0	Check S/P Position	2R5	4	1	3,500,996.90:0	
4038	96	181	15:34:59.466	432OQ431A6A	6RCDL DDCSNG,PLSNCG,EP	Record Deselect (DDS o	2R5	4	1	3,500,997.88:0	
4039	96	181	15:35:00.133	432OQ6A	6RTSL1	RT Select of DDS and	2R5	4	1	3,500,997.89:0	
4040	96	181	15:44:02.800	157DJ156B121A4A	37IOP 3.0	Long Map, Grating Start Position =00	2R3	4	0	3,501,006.84:0	
4041	96	181	15:45:03.466	157DJ156B121B4A	37IST 0,2,0,OFF,0,1,1	Gain State 4	4R3	4	0	3,501,007.84:0	
4042	96	181	15:45:08.133	192DJ4A	7CONE 17.0,110.0	Check S/P Position	4R3	4	0	3,501,008.00:0	
4043	96	181	15:45:08.800	192DJ4B	7CLK 17.0,90.0	Check S/P Position	4R3	4	0	3,501,008.01:0	
4044	96	181	15:48:00.133		DMS: : *US-RUNUP	R7, TRACK 4, REV, TIC 1408.86 +/- 17	4R3	4	0	3,501,010.76:0	
4045	96	181	15:48:00.133	175DJ422A6A	6DMSC R7.0	DMS Control Tape runup 7.68kps	4R3	4	0	3,501,010.76:0	
4046	96	181	15:48:09.466	175DJ176A6A	6TMREC LPU	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	4R3	4	0	3,501,010.90:0	
4047	96	181	15:48:09.666		DMS: : *RECORD	R7, TRACK 4, REV, TIC *1410.14 +/- 17	4R3	4	0	3,501,010.90:3	
4048	96	181	15:51:12.133	192DJ4C	7CONE 17.0,54.88	Check S/P Position	4R3	4	0	3,501,014.00:0	
4049	96	181	15:51:12.800	192DJ4D	7CLK 17.0,244.07	Check S/P Position	4R3	4	0	3,501,014.01:0	
4050	96	181	15:51:22.800	175DJ6A	6TMREC NRC	NO RECORD Record Mode Change	4R3	4	0	3,501,014.16:0	
4051	96	181	15:51:22.800	175DJ422A6B	6DMSC RDY,0	DMS Control Tape stop	4R3	4	0	3,501,014.16:0	
4052	96	181	15:51:22.800		DMS: : *RUNDOWN	R7, TRACK 4, REV, TIC *1364.87 +/- 17	4R3	4	0	3,501,014.16:0	
4053	96	181	15:51:24.200		DMS: : *READY	RDY, TRACK 4, REV, TIC *1364.81 +/- 17	4R3	4	0	3,501,014.18:1	
4054	96	181	15:54:04.133		DMS: : *US-RUNUP	R7, TRACK 4, REV, TIC 1364.81 +/- 17	4R3	4	0	3,501,016.76:0	
4055	96	181	15:54:04.133	175FR422A6A	6DMSC R7.0	DMS Control Tape runup 7.68kps	4R3	4	0	3,501,016.76:0	
4056	96	181	15:54:13.466	175FR176A6A	6TMREC LPU	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	4R3	4	0	3,501,016.90:0	
4057	96	181	15:54:13.666		DMS: : *RECORD	R7, TRACK 4, REV, TIC *1366.09 +/- 18	4R3	4	0	3,501,016.90:3	
4058	96	181	15:57:16.133	192DJ4E	7CONE 17.0,110.0	Check S/P Position	4R3	4	0	3,501,020.00:0	
4059	96	181	15:57:16.800	192DJ4F	7CLK 17.0,90.0	Check S/P Position	4R3	4	0	3,501,020.01:0	
4060	96	181	15:57:26.800		DMS: : *RUNDOWN	R7, TRACK 4, REV, TIC *1320.82 +/- 18	4R3	4	0	3,501,020.16:0	
4061	96	181	15:57:26.800	175FR422A6B	6DMSC RDY,0	DMS Control Tape stop	4R3	4	0	3,501,020.16:0	
4062	96	181	15:57:26.800	175FR6A	6TMREC NRC	NO RECORD Record Mode Change	4R3	4	0	3,501,020.16:0	
4063	96	181	15:57:28.200		DMS: : *READY	RDY, TRACK 4, REV, TIC *1320.76 +/- 18	4R3	4	0	3,501,020.18:1	
4064	96	181	16:00:08.133	175FS422A6A	6DMSC R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	3,501,022.76:0	
4065	96	181	16:00:08.133		DMS: : *US-RUNUP	R7, TRACK 4, REV, TIC 1320.76 +/- 18	4R3	4	0	3,501,022.76:0	
4066	96	181	16:00:13.466	157DJ156B121C4A	37IST 0,2,1,OFF,1,1,1	OPCALGain State 4	4R3	4	0	3,501,022.84:0	
4067	96	181	16:00:17.466	175FS176A6A	6TMREC LPU	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	4R3	4	0	3,501,022.90:0	
4068	96	181	16:00:17.666		DMS: : *RECORD	R7, TRACK 4, REV, TIC *1322.04 +/- 18	4R3	4	0	3,501,022.90:3	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
4069	96	181	16:03:20.133	192DJ4G	7CONE	17.0,153.0	Check S/P Position	4R3	4	0	3,501,026:00:0	
4070	96	181	16:03:20.800	192DJ4H	7CLK	17.0,0.0	Check S/P Position	4R3	4	0	3,501,026:01:0	
4071	96	181	16:03:30.800	175FS422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,501,026:16:0	
4072	96	181	16:03:30.800	175FS6A	6TMREC	NRC	NO RECORD Record Mode Change	4R3	4	0	3,501,026:16:0	
4073	96	181	16:03:30.800		DMS:	: *RUNDOWN	R7, TRACK 4, REV, TIC *1276.77 +/- 18	4R3	4	0	3,501,026:16:0	
4074	96	181	16:03:32.200		DMS:	: *READY	RDY, TRACK 4, REV, TIC *1276.71 +/- 18	4R3	4	0	3,501,026:18:1	
4075	96	181	16:26:01.466	444UD443A4A	7SAFE	UNSTOW	SIP TO 153 deg cone	4R3	4	0	3,501,048:40:0	
4076	96	181	16:30:00.133	488AZ6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4R3	4	0	3,501,052:34:0	
4077	96	181	16:30:01.466	444UD443A4B	7MODE	CRU	AACS CRUISE MODE	4R3	4	0	3,501,052:36:0	
4078	96	181	16:33:00.133	488AZ6B	6TMSED	NORM,AH4	Sci, Eng, and D/L Chan	4R3	4	0	3,501,055:31:0	
4079	96	181	16:38:59.466	432OS431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	4R3	4	0	3,501,061:24:0	
4080	96	181	16:39:00.133	432OS56A	6RTSL1		R/T Select of DDS and	4R3	4	0	3,501,061:25:0	
4081	96	181	16:41:20.133	20UN4B	7SAFE	UNSTOW	SIP TO 153 deg cone	4R3	4	0	3,501,063:53:0	
4082	96	181	16:47:00.133	20UN6A	6MROH	7,73C0,0,A10	read from AACSA7,73C0,0,A10	4R3	4	0	3,501,069:17:0	
4083	96	181	16:48:20.133	20UN6B	6MROH	7,73C0,0,A10	read from AACSA7,73C0,0,A10	4R3	4	0	3,501,070:46:0	
4084	96	181	16:54:59.599	G1NPNCTCAL01-		-----STOP-----		4R3	4	0	:	
4085	96	181	17:00:20.133	20UN4D	7MODE	INT	AACS INERTIAL MODE	4R3	4	0	3,501,082:34:0	
4086	96	181	18:18:43.466	488AZ6C	6TMSED	NORM,AH3	Sci, Eng, and D/L Chan	4R3	4	0	3,501,159:82:0	
4087	96	181	19:16:22.800	127FS	NIMSTAB	GS	%%%%%%%%GROUP START TAB	4R3	4	0	3,501,216:84:0	
4088	96	181	19:16:22.800	127FS4A	37IOP	0,0	Safe, Grating Start Position =00	4R0	4	0	3,501,216:84:0	
4089	96	181	19:16:23.466	127FS4B	37ETEB	04,C4,02,00,00	Loads wavelength edit table	4R0	4	0	3,501,216:85:0	
4090	96	181	19:16:31.466	127FS11A	NIMSTAB	GE	%%%%%%%%GROUP END TAB	4R0	4	0	3,501,217:06:0	
4091	96	181	19:17:32.266	G1NNCHOPFOF01-		-----START-----		4R0	4	0	:	
4092	96	181	19:18:24.133	125FZ4A	37IST	1,0,0,OFF,0,0,0	Chopper ON, Sync, 63Hz (Ref)	460	4	0	3,501,218:84:0	
4093	96	181	19:18:24.133	125FZ	NIMSINIT	GS	##### GROUP START INIT	460	4	0	3,501,218:84:0	
4094	96	181	19:19:24.800	125FZ11A	NIMSINIT	GE	##### GROUP END INIT	460	4	0	3,501,219:84:0	
4095	96	181	19:19:24.800	125FZ4B	37IST	1,1,0,OFF,0,0,0	Chopper OFF, N/A, 63Hz (Ref)	400	4	0	3,501,219:84:0	
4096	96	181	19:27:38.932	G1NNCHOPFOF01-		-----STOP-----		400	4	0	:	
4097	96	181	19:29:07.466	488AZ6D	6TMSED	NORM,AH2	Sci, Eng, and D/L Chan	400	4	0	3,501,229:48:0	
4098	96	181	19:36:00.133	20UN6E	6MROH	7,73C0,0,A10	read from AACSA7,73C0,0,A10	400	4	0	3,501,236:30:0	
4099	96	181	19:37:20.133	20UN6E	6MROH	7,73C0,0,A10	read from AACSA7,73C0,0,A10	400	4	0	3,501,237:59:0	
4100	96	181	19:40:00.133	488AZ6E	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	400	4	0	3,501,240:26:0	
4101	96	181	19:48:25.466	488BA6A	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	400	4	0	3,501,248:56:0	
4102	96	181	20:30:00.133	488BA6B	6TMSED	FILL,BL2	Sci, Eng, and D/L Chan	400	4	0	3,501,289:67:0	
4103	96	181	22:24:03.466	488BA6C	6TMSED	FILL,BL3	Sci, Eng, and D/L Chan	400	4	0	3,501,402:49:0	
4104	96	181	22:31:20.800	488BA6D	6TMSED	NORM,BL3	Sci, Eng, and D/L Chan	400	4	0	3,501,409:68:0	
4105	96	182	01:57:31.466	431NB6A	6RCSEL	DDSNCG,PLSSEL,EP	Record Select (DDS onl	400	4	0	3,501,613:60:0	
4106	96	182	02:00:42.133	175PA422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	400	4	0	3,501,616:73:0	
4107	96	182	02:00:42.133		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 1276.71 +/- 18	400	4	0	3,501,616:73:0	
4108	96	182	02:00:51.466	175PA176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	400	4	0	3,501,616:87:0	
4109	96	182	02:00:51.666		DMS:	: *RECORD	R7, TRACK 4, REV, TIC *1277.99 +/- 18	400	4	0	3,501,616:87:3	
4110	96	182	02:00:54.133	431JC6A	6RCSEL	DDSNCG,PLSNCG,EP	Record Select (DDS onl	400	4	0	3,501,617:00:0	
4111	96	182	02:03:47.466	488BB6A	6TMSED	NORM,BL2	Sci, Eng, and D/L Chan	400	4	0	3,501,619:78:0	
4112	96	182	02:46:24.133	432JD431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	400	4	0	3,501,662:00:0	
4113	96	182	02:46:24.800	432JD6A	6RTSL1		R/T Select of DDS and	400	4	0	3,501,662:01:0	
4114	96	182	02:46:26.133	175PA422A6B	6DMSC	RDY,0	DMS Control Tape stop	400	4	0	3,501,662:03:0	
4115	96	182	02:46:26.133		DMS:	: *RUNDOWN	R7, TRACK 4, REV, TIC * 637.10 +/- 18	400	4	0	3,501,662:03:0	
4116	96	182	02:46:27.533		DMS:	: *READY	RDY, TRACK 4, REV, TIC *637.04 +/- 18	400	4	0	3,501,662:05:1	
4117	96	182	02:48:04.133	432NB431A6A	6RCDSL	DDSNCG,PLSDSL,EP	Record Deselect (DDS o	400	4	0	3,501,663:59:0	
4118	96	182	02:48:04.800	432NB6A	6RTSL1		R/T Select of DDS and	400	4	0	3,501,663:60:0	
4119	96	182	03:15:00.133	488BB6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	400	4	0	3,501,690:26:0	
4120	96	182	03:18:27.466	488BB6C	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	400	4	0	3,501,693:64:0	
4121	96	182	04:30:00.133	20A3FA	37F1PR	Final Condition	Radiator Flash Heater OFF (primary relay)	400	4	0	3,501,764:42:0	
4122	96	182	04:30:00.133	20A3FB	37F2PR	Final Condition	Shield Flash Heater OFF (primary relay)	400	4	0	3,501,764:42:0	
4123	96	182	04:30:00.133	20A3FD	40HRPR	Final Condition	RCT Heater OFF (primary relay)	400	4	0	3,501,764:42:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
4124	96	182	04:30:00.133	20A3FE	40T1PR	Final Condition	PCT Heater 1 OFF (primary relay)	400	4	0	3,501,764:42:0	
4125	96	182	04:30:00.133	20A3FF	40T2R	Final Condition	PCT Heater 2 OFF	400	4	0	3,501,764:42:0	
4126	96	182	04:30:00.133	20A3EY	37C1PR	Final Condition	Optics Heater 1 OFF (primary relay)	400	4	0	3,501,764:42:0	
4127	96	182	04:30:00.133	20A3EX	37HR	Final Condition	Replacement Heaters OFF	400	4	0	3,501,764:42:0	
4128	96	182	04:30:00.133	20A3EW	37A	Final Condition	NIMS Power ON	400	4	0	3,501,764:42:0	
4129	96	182	04:30:00.133	20A3EZ	37C2PR	Final Condition	Optics Heater 2 OFF (primary relay)	400	4	0	3,501,764:42:0	
4130	96	182	04:30:00.133		DMS:	: READY	RDY, TRACK 4, REV, TIC 637.04 +/- 18	400	4	0	3,501,764:42:0	

Sequence:		G01B-AR		Created: 9/11/96		Begin: 96-182/04:30:00		Finish: 96-216/16:00:00				
Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1	96	182	04:30:00.133	20A3FF	40T2	Initial Condition	PCT Heater 2 ON	400	4	0	3,501,764:42:0	
2	96	182	04:30:00.133	20AEV	37IST	Initial Condition		400	4	0	3,501,764:42:0	
3	96	182	04:30:00.133	20A3EW	37A	Initial Condition	NIMS Power ON	400	4	0	3,501,764:42:0	
4	96	182	04:30:00.133	20A3EX	37HR	Initial Condition	Replacement Heaters OFF	400	4	0	3,501,764:42:0	
5	96	182	04:30:00.133	20A3EY	37C1PR	Initial Condition	Optics Heater 1 OFF (primary relay)	400	4	0	3,501,764:42:0	
6	96	182	04:30:00.133	20A3EZ	37C2PR	Initial Condition	Optics Heater 2 OFF (primary relay)	400	4	0	3,501,764:42:0	
7	96	182	04:30:00.133	20A3FA	37F1PR	Initial Condition	Radiator Flash Heater OFF (primary relay)	400	4	0	3,501,764:42:0	
8	96	182	04:30:00.133	20A3FB	37F2PR	Initial Condition	Shield Flash Heater OFF (primary relay)	400	4	0	3,501,764:42:0	
9	96	182	04:30:00.133	125FZ4B	37IST	Initial Condition	Chopper OFF, N/A, 63Hz (Ref)Gain State 4	400	4	0	3,501,764:42:0	
10	96	182	04:30:00.133		DMS:	: READY	RDY, TRACK 4, REV, TIC 509.00 +/-	400	4	0	3,501,764:42:0	
11	96	182	04:30:00.133	127FS4A	37IOP	0,0	Safe, Grating Start Position =00	400	4	0	3,501,764:42:0	
12	96	182	04:30:00.133	20A3FE	40T1P	CMD,40T1P,20A3FE	PCT Heater 1 ON (primary relay)	400	4	0	3,501,764:42:0	
13	96	182	04:30:00.133	20A3FD	40HRPR	CMD,40HRPR,20A3F	RCT Heater OFF (primary relay)	400	4	0	3,501,764:42:0	
14	96	182	04:30:59.466	488AA6A	6TMSD	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	3,501,765:40:0	
15	96	182	04:31:00.133	432WA6A	6RTSL2	NIMNCG,AACNCG,RT	R/T ENG SELECT	400	4	0	3,501,765:41:0	
16	96	182	04:31:32.133	432JE6B	6RTDS2	NIMDSL,AACNCG,RT	NIMS R/T DESELECT	400	4	0	3,501,765:39:0	
17	96	182	04:31:32.800	432JE431A6A	6RCDSL	DDSDSL,PLSDSL,EP	Record Deselect (DDS o	400	4	0	3,501,765:90:0	
18	96	182	04:31:33.466	432JE6D	6RTSL2	NIMNCG,AACSEL,RT	AACS SELECT	400	4	0	3,501,766:00:0	
19	96	182	04:31:33.466	432JE6C	6RTSL1		R/T Select of DDS and	400	4	0	3,501,766:00:0	
20	96	182	04:32:00.133	488AA6B	6TMSD	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	3,501,766:40:0	
21	96	182	04:34:33.466	488AA6C	6TMSD	FILL,AL3	Sci, Eng, and D/L Chan	400	4	0	3,501,768:88:0	
22	96	182	04:36:00.133	418PA6B	6BUFHI		7 MUB Buffer high water	400	4	0	3,501,770:36:0	
23	96	182	04:36:00.133	418PA6A	6BUFLO		2 MUB Buffer low water m	400	4	0	3,501,770:36:0	
24	96	182	05:26:21.466	488AA6D	6TMSD	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	3,501,820:18:0	
25	96	182	07:06:43.466	488AA6E	6TMSD	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	3,501,919:42:0	
26	96	182	07:35:00.133	41SB99A	POWER	PWR MODE change	Change to Maneuver Mode	400	4	0	3,501,947:39:0	
27	96	182	07:35:04.133	41SB3K	37F2PR		1 Shield Flash Heater OFF (primary relay)	400	4	0	3,501,947:45:0	
28	96	182	07:35:14.133	41SB3L	37F2PR		2 Shield Flash Heater OFF (primary relay)	400	4	0	3,501,947:60:0	
29	96	182	07:37:24.133	41SB3G	40T1P		1 PCT Heater 1 ON (primary relay)	400	4	0	3,501,949:73:0	
30	96	182	07:37:34.133	41SB3H	40T1P		2 PCT Heater 1 ON (primary relay)	400	4	0	3,501,949:88:0	
31	96	182	07:37:44.133	41SB3I	40T2		1 PCT Heater 2 ON	400	4	0	3,501,950:12:0	
32	96	182	07:37:54.133	41SB3J	40T2		2 PCT Heater 2 ON	400	4	0	3,501,950:27:0	
33	96	182	07:38:00.133	488AB6A	6TMSD	NORM,AH4	Sci, Eng, and D/L Chan	400	4	0	3,501,950:36:0	
34	96	182	07:41:37.466	432JF6B	6RTDS2	NIMNCG,AACDSL,RT	AACS DESELECT	400	4	0	3,501,953:89:0	
35	96	182	07:42:59.466	488AB6B	6TMSD	NORM,AH1	Sci, Eng, and D/L Chan	400	4	0	3,501,955:30:0	
36	96	182	07:59:00.133	474AA416A4B	7MODE	INT	AACS INERTIAL MODE	400	4	0	3,501,971:15:0	
37	96	182	08:01:00.133	474AA416A4D	7SAFE	UNSTOW	S/P TO 153 deg cone	400	4	0	3,501,973:13:0	
38	96	182	08:05:14.133	474AA416A4E	7BURN	Z,217,1887,36.09	ALERT -- Thruster fire	400	4	0	3,501,977:30:0	
39	96	182	09:01:20.133	474AA416A4I	7BURN	Z,217,1887,36.09	ALERT -- Thruster fire	400	4	0	3,502,032:74:0	
40	96	182	10:18:26.133	474AA416A4O	7BURN	Z,217,1887,36.09	ALERT -- Thruster fire	400	4	0	3,502,109:06:0	
41	96	182	22:45:00.066	41SA99A	POWER	PWR MODE change	Change to Data Taking Mode	400	4	0	3,502,847:39:0	
42	96	182	22:45:04.066	41SA3K	37F2PR		1 Shield Flash Heater OFF (primary relay)	400	4	0	3,502,847:45:0	
43	96	182	22:45:14.066	41SA3L	37F2PR		2 Shield Flash Heater OFF (primary relay)	400	4	0	3,502,847:60:0	
44	96	182	22:45:24.066	41SA3A	40T1PR		1 PCT Heater 1 OFF (primary relay)	400	4	0	3,502,847:75:0	
45	96	182	22:45:30.066	488AC6A	6TMSD	NORM,AL1	Sci, Eng, and D/L Chan	400	4	0	3,502,847:84:0	
46	96	182	22:45:34.066	41SA3B	40T1PR		2 PCT Heater 1 OFF (primary relay)	400	4	0	3,502,847:90:0	
47	96	182	22:45:44.066	41SA3C	40T2R		1 PCT Heater 2 OFF	400	4	0	3,502,848:14:0	
48	96	182	22:45:54.066	41SA3D	40T2R		2 PCT Heater 2 OFF	400	4	0	3,502,848:29:0	
49	96	182	22:46:34.733	432JG431A6A	6RCDSL	DDSDSL,PLSDSL,EP	Record Deselect (DDS o	400	4	0	3,502,848:90:0	
50	96	182	22:46:35.400	432JG6A	6RTSL1		R/T Select of DDS and	400	4	0	3,502,849:00:0	
51	96	182	22:46:35.400	432JG6B	6RTSL2	NIMNCG,AACSEL,RT	AACS SELECT	400	4	0	3,502,849:00:0	
52	96	182	22:51:47.400	488AC6B	6TMSD	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	3,502,854:13:0	
53	96	182	23:23:47.400	488AC6C	6TMSD	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	3,502,885:72:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
54	96	182	23:47:19.400	41TA99A	POWER		Change to Calib/Decon Mode	400	4	0	3,502,909:06:0	
55	96	182	23:47:23.400	41TA3G	37F2PR	PWR MODE change	1 Shield Flash Heater OFF (primary relay)	400	4	0	3,502,909:12:0	
56	96	182	23:47:33.400	41TA3H	37F2PR		2 Shield Flash Heater OFF (primary relay)	400	4	0	3,502,909:27:0	
57	96	182	23:47:43.400	41TA3I	40T1PR		1 PCT Heater 1 OFF (primary relay)	400	4	0	3,502,909:42:0	
58	96	182	23:47:53.400	41TA3J	40T1PR		2 PCT Heater 1 OFF (primary relay)	400	4	0	3,502,909:57:0	
59	96	182	23:48:03.400	41TA3K	40T2R		1 PCT Heater 2 OFF	400	4	0	3,502,909:72:0	
60	96	182	23:48:13.400	41TA3L	40T2R		2 PCT Heater 2 OFF	400	4	0	3,502,909:87:0	
61	96	182	23:59:13.400	175ZQ422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	400	4	0	3,502,920:76:0	
62	96	182	23:59:13.400		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 509.00 +/-	400	4	0	3,502,920:76:0	
63	96	182	23:59:22.733	175ZQ176A6A	6TIMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	400	4	0	3,502,920:90:0	
64	96	182	23:59:22.933		DMS:	: *RECORD	R7, TRACK 4, REV, TIC * 510.28 +/-	400	4	0	3,502,920:90:3	
65	96	183	00:04:30.066	175ZQ422A6B	6DMSC	RDY,0	DMS Control Tape stop	400	4	0	3,502,926:05:0	
66	96	183	00:04:30.066		DMS:	: *RUNDOWN	R7, TRACK 4, REV, TIC * 438.29 +/-	400	4	0	3,502,926:05:0	
67	96	183	00:07:32.733	41TB99A	POWER	PWR MODE change	Change to Data Taking Mode	400	4	0	3,502,929:06:0	
68	96	183	00:07:36.733	41TB3K	37F2PR		1 Shield Flash Heater OFF (primary relay)	400	4	0	3,502,929:12:0	
69	96	183	00:07:46.733	41TB3L	37F2PR		2 Shield Flash Heater OFF (primary relay)	400	4	0	3,502,929:27:0	
70	96	183	00:07:56.733	41TB3A	40T1PR		1 PCT Heater 1 OFF (primary relay)	400	4	0	3,502,929:42:0	
71	96	183	00:08:06.733	41TB3B	40T1PR		2 PCT Heater 1 OFF (primary relay)	400	4	0	3,502,929:57:0	
72	96	183	00:08:16.733	41TB3C	40T2R		1 PCT Heater 2 OFF	400	4	0	3,502,929:72:0	
73	96	183	00:08:26.733	41TB3D	40T2R		2 PCT Heater 2 OFF	400	4	0	3,502,929:87:0	
74	96	183	00:35:00.066	41SC99A	POWER	PWR MODE change	Change to Maneuver Mode	400	4	0	3,502,956:20:0	
75	96	183	00:35:04.066	41SC3K	37F2PR		1 Shield Flash Heater OFF (primary relay)	400	4	0	3,502,956:26:0	
76	96	183	00:35:14.066	41SC3L	37F2PR		2 Shield Flash Heater OFF (primary relay)	400	4	0	3,502,956:41:0	
77	96	183	00:37:00.066	488AC6D	6TMSED	NORM,AH4	Sci, Eng, and D/L Chan	400	4	0	3,502,958:18:0	
78	96	183	00:37:24.066	41SC3G	40T1P		1 PCT Heater 1 ON (primary relay)	400	4	0	3,502,958:54:0	
79	96	183	00:37:34.066	41SC3H	40T1P		2 PCT Heater 1 ON (primary relay)	400	4	0	3,502,958:69:0	
80	96	183	00:37:44.066	41SC3I	40T2		1 PCT Heater 2 ON	400	4	0	3,502,958:84:0	
81	96	183	00:37:54.066	41SC3J	40T2		2 PCT Heater 2 ON	400	4	0	3,502,959:08:0	
82	96	183	00:50:02.066	490UA412A4B	7MODE	INT	AACS INERTIAL MODE	400	4	0	3,502,971:08:0	
83	96	183	00:53:23.400	488AC6E	6TMSED	NORM,AH3	Sci, Eng, and D/L Chan	400	4	0	3,502,974:37:0	
84	96	183	00:55:00.066	490UA412A4D	7SAFE	UNSTOW	S/P TO 153 deg cone	400	4	0	3,502,976:00:0	
85	96	183	00:59:10.066	490UA412A4E	7VECT		Inert vect update UTC	400	4	0	3,502,980:11:0	
86	96	183	00:59:14.066	490UA412A4F	7TURN	2,RTH	ALERT Thruster	400	4	0	3,502,980:17:0	
87	96	183	01:03:02.066	490UA412A406A4A	7STAR	1,3000,95.710999	Star catalog update	400	4	0	3,502,983:86:0	
88	96	183	01:03:04.066	490UA412A406A4B	7STAR	2,131,322.01	Star catalog update	400	4	0	3,502,983:89:0	
89	96	183	01:03:06.066	490UA412A406A4C	7STAR	3,396,206.39	Star catalog update	400	4	0	3,502,984:01:0	
90	96	183	01:03:08.066	490UA412A406A4D	7STAR	4,0,0,0,0,0	Star catalog update	400	4	0	3,502,984:04:0	
91	96	183	01:03:10.066	490UA412A406A4E	7STAR	5,0,0,0,0,0	Star catalog update	400	4	0	3,502,984:07:0	
92	96	183	01:03:12.066	490UA412A406A4F	7STAR	6,0,0,0,0,0	Star catalog update	400	4	0	3,502,984:10:0	
93	96	183	02:11:12.733	490UA412A4L	7MODE	GRU	AACS CRUISE MODE	400	4	0	3,503,051:34:0	
94	96	183	02:48:35.400	488AD6A	6TMSED	NORM,AH2	Sci, Eng, and D/L Chan	400	4	0	3,503,088:31:0	
95	96	183	03:05:00.066	41SM99A	POWER	PWR MODE change	Change to Playback Mode	400	4	0	3,503,104:52:0	
96	96	183	03:05:04.066	41SM3I	40T1PR		1 PCT Heater 1 OFF (primary relay)	400	4	0	3,503,104:58:0	
97	96	183	03:05:14.066	41SM3J	40T1PR		2 PCT Heater 1 OFF (primary relay)	400	4	0	3,503,104:73:0	
98	96	183	03:05:24.066	41SM3K	40T2R		1 PCT Heater 2 OFF	400	4	0	3,503,104:88:0	
99	96	183	03:05:34.066	41SM3L	40T2R		2 PCT Heater 2 OFF	400	4	0	3,503,105:12:0	
100	96	183	03:07:44.066	41SM3G	37F2P		1 Shield Flash Heater ON (primary relay)	400	4	0	3,503,107:25:0	
101	96	183	03:07:54.066	41SM3H	37F2P		2 Shield Flash Heater ON (primary relay)	400	4	0	3,503,107:40:0	
102	96	183	03:08:22.733	488AD6B	6TMSED	FILL,AH2	Sci, Eng, and D/L Chan	400	4	0	3,503,107:83:0	
103	96	183	03:14:00.066	488AD6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	400	4	0	3,503,113:43:0	
104	96	183	03:14:59.400	432OH431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	400	4	0	3,503,114:41:0	
105	96	183	03:15:00.066	432OH6A	6RTSL1		R/T Select of DDS and	400	4	0	3,503,114:42:0	
106	96	183	03:19:35.400	465SA6A	6DMSC	RDY,2	DMS Control Tape stop	400	4	0	3,503,119:00:0	
107	96	183	03:20:29.400	465SB6A	6DTRN	CMD,6DTRN,465SB6	DMS TRACK TURNAROUND	400	4	0	3,503,119:81:0	
108	96	183	04:05:40.733	488AD6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	400	4	0	3,503,164:53:0	



Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
109	96	183	04:22:04.066	20UJ4A	7SLEW	DIS,POS,0.0	Stator movement	400	4	0	3,503,180,72:0	
110	96	183	04:23:17.400	176SA6A	6TMREC	IPB	INITIATE PLAYBACK (PB CONTROL) Record Mod	400	4	0	3,503,182:00:0	
111	96	183	04:41:39.400	488AD6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	3,503,200:15:0	
112	96	183	04:44:35.400	488AE6A	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	400	4	0	3,503,203:06:0	
113	96	183	05:21:23.400	488AE6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	3,503,239:42:0	
114	96	183	08:27:47.400	488AE6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	3,503,423:74:0	
115	96	183	12:21:40.066	488AF6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	400	4	0	3,503,655:11:0	
116	96	183	12:48:58.733	488AF6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	3,503,682:12:0	
117	96	183	19:22:43.400	488AG6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	400	4	0	3,504,071:50:0	
118	96	183	19:40:18.733	488AG6B	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	400	4	0	3,504,088:86:0	
119	96	183	19:54:43.400	488AG6C	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	400	4	0	3,504,103:18:0	
120	96	183	20:26:42.066	488AG6D	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	400	4	0	3,504,134:75:0	
121	96	183	21:11:31.400	488AG6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	3,504,179:14:0	
122	96	183	23:10:59.400	488AH6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	3,504,297:28:0	
123	96	184	00:53:23.333	488AH6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	3,504,398:53:0	
124	96	184	02:29:35.333	488AH6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	400	4	0	3,504,493:66:0	
125	96	184	03:56:39.333	488AH6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	3,504,579:76:0	
126	96	184	04:41:39.333	488AH6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	3,504,624:31:0	
127	96	184	11:19:41.333	176LB6A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	400	4	0	3,505,018:00:0	
128	96	184	11:21:46.600	G1NNSHDOFF01-	-----START -----			400	4	0	..	
129	96	184	11:22:50.000	20EA4A	7SAFE	UNSTOW	S/P TO 153 deg cone	400	4	0	3,505,021:10:0	
130	96	184	11:26:54.000	20UG4A	7SLEW	DIS,POS,0.0	Stator movement	400	4	0	3,505,025:12:0	
131	96	184	11:28:47.333	176LC6A	6TMREC	RPB	RESUME PLAYBACK (PB CONTROL) Record Mode	400	4	0	3,505,027:00:0	
132	96	184	11:30:52.666	20DA3A	37F2PR		1 Shield Flash Heater OFF (primary relay)	400	4	0	3,505,029:06:0	
133	96	184	11:30:56.666	20DA3B	37F2PR		2 Shield Flash Heater OFF (primary relay)	400	4	0	3,505,029:12:0	
134	96	184	11:31:02.666	20DA3C	40T1P		1 PCT Heater 1 ON (primary relay)	400	4	0	3,505,029:21:0	
135	96	184	11:31:06.666	20DA3D	40T1P		2 PCT Heater 1 ON (primary relay)	400	4	0	3,505,029:27:0	
136	96	184	11:31:12.666	20DA3E	40T2		1 PCT Heater 2 ON	400	4	0	3,505,029:36:0	
137	96	184	11:31:16.666	20DA3F	40T2		2 PCT Heater 2 ON	400	4	0	3,505,029:42:0	
138	96	184	11:41:55.333	488AI6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	3,505,039:90:0	
139	96	184	16:08:35.333	488AI6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	3,505,303:66:0	
140	96	184	16:47:17.333	176TH6A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	400	4	0	3,505,342:00:0	
141	96	184	16:49:00.000	41SD99A	POWER	PWR MODE change	Change to Maneuver Mode	400	4	0	3,505,343:63:0	
142	96	184	16:49:04.000	41SD3K	37F2PR		1 Shield Flash Heater OFF (primary relay)	400	4	0	3,505,343:69:0	
143	96	184	16:49:14.000	41SD3L	37F2PR		2 Shield Flash Heater OFF (primary relay)	400	4	0	3,505,343:84:0	
144	96	184	16:51:24.000	41SD3G	40T1P		1 PCT Heater 1 ON (primary relay)	400	4	0	3,505,346:06:0	
145	96	184	16:51:34.000	41SD3H	40T1P		2 PCT Heater 1 ON (primary relay)	400	4	0	3,505,346:21:0	
146	96	184	16:51:44.000	41SD3I	40T2		1 PCT Heater 2 ON	400	4	0	3,505,346:36:0	
147	96	184	16:51:54.000	41SD3J	40T2		2 PCT Heater 2 ON	400	4	0	3,505,346:51:0	
148	96	184	16:52:00.000	488AI6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	3,505,346:60:0	
149	96	184	17:01:00.000	20UB4B	7SLEW	DIS,POS,0.0	Stator movement	400	4	0	3,505,355:51:0	
150	96	184	17:02:00.000	20UB4D	7MODE	SPNL	AACS ALL-SPIN LOW	400	4	0	3,505,356:50:0	
151	96	184	17:04:00.000	20UB4E	7SAFE	UNSTOW	S/P TO 153 deg cone	400	4	0	3,505,358:48:0	
152	96	184	17:09:30.000	20UB4G	7VENT	0.611,1.333,8	ALERT -- Thruster fire	400	4	0	3,505,363:88:0	
153	96	184	17:09:30.666	20UB4H	7VENT	0.611,10.989,8	ALERT -- Thruster fire	400	4	0	3,505,363:89:0	
154	96	184	17:09:50.666	20UB4I	7VENT	0.611,1.333,6	ALERT -- Thruster fire	400	4	0	3,505,364:28:0	
155	96	184	17:09:51.333	20UB4J	7VENT	0.611,10.989,6	ALERT -- Thruster fire	400	4	0	3,505,364:29:0	
156	96	184	17:10:11.333	20UB4K	7VENT	0.611,1.333,4	ALERT -- Thruster fire	400	4	0	3,505,364:59:0	
157	96	184	17:10:12.000	20UB4L	7VENT	0.611,0.666,5	ALERT -- Thruster fire	400	4	0	3,505,364:60:0	
158	96	184	17:10:22.000	20UB4M	7VENT	0.611,1.333,4	ALERT -- Thruster fire	400	4	0	3,505,364:75:0	
159	96	184	17:10:22.666	20UB4N	7VENT	0.611,0.666,5	ALERT -- Thruster fire	400	4	0	3,505,364:76:0	
160	96	184	17:10:32.666	20UB4O	7VENT	1.211,1.333,10	ALERT -- Thruster fire	400	4	0	3,505,365:00:0	
161	96	184	17:10:33.333	20UB4P	7VENT	1.211,0.666,12	ALERT -- Thruster fire	400	4	0	3,505,365:01:0	
162	96	184	17:12:20.000	20UB4S	7VENT	0.611,1.333,7	ALERT -- Thruster fire	400	4	0	3,505,366:70:0	
163	96	184	17:12:20.666	20UB4T	7VENT	0.611,10.989,7	ALERT -- Thruster fire	400	4	0	3,505,366:71:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
164	96	184	17:12:40.666	20UB4U	7VENT	0.611,1.333,1	ALERT -- Thruster fire	400	4	0	3,505,367:10:0	
165	96	184	17:12:41.333	20UB4V	7VENT	0.611,10.989,1	ALERT -- Thruster fire	400	4	0	3,505,367:11:0	
166	96	184	17:13:01.333	20UB4AC	7VENT	0.611,1.333,2	ALERT -- Thruster fire	400	4	0	3,505,367:4:0	
167	96	184	17:13:02.000	20UB4AD	7VENT	0.611,0.666,3	ALERT -- Thruster fire	400	4	0	3,505,367:42:0	
168	96	184	17:13:12.000	20UB4AE	7VENT	0.611,1.333,2	ALERT -- Thruster fire	400	4	0	3,505,367:57:0	
169	96	184	17:13:12.666	20UB4AF	7VENT	0.611,0.666,3	ALERT -- Thruster fire	400	4	0	3,505,367:58:0	
170	96	184	17:13:22.666	20UB4AW	7VENT	1.211,1.333,9	ALERT -- Thruster fire	400	4	0	3,505,367:73:0	
171	96	184	17:13:23.333	20UB4X	7VENT	1.211,0.666,11	ALERT -- Thruster fire	400	4	0	3,505,367:74:0	
172	96	184	17:14:20.000	20UB4Z	7MODE	CRU	AACS CRUISE MODE	400	4	0	3,505,368:68:0	
173	96	184	17:40:00.000	41SN99A	POWER	PWR MODE change	Change to Playback Mode	400	4	0	3,505,394:12:0	
174	96	184	17:40:04.000	41SN3I	40T1PR		1 PCT Heater 1 OFF (primary relay)	400	4	0	3,505,394:18:0	
175	96	184	17:40:14.000	41SN3J	40T1PR		2 PCT Heater 1 OFF (primary relay)	400	4	0	3,505,394:33:0	
176	96	184	17:40:24.000	41SN3K	40T2R		1 PCT Heater 2 OFF	400	4	0	3,505,394:48:0	
177	96	184	17:40:34.000	41SN3L	40T2R		2 PCT Heater 2 OFF	400	4	0	3,505,394:63:0	
178	96	184	17:40:59.333	432OU431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	400	4	0	3,505,395:10:0	
179	96	184	17:41:00.000	432OU6A	6RTSL1		R/T Select of DDS and	400	4	0	3,505,395:11:0	
180	96	184	17:42:44.000	41SN3G	37F2P		1 Shield Flash Heater ON (primary relay)	400	4	0	3,505,396:76:0	
181	96	184	17:42:54.000	41SN3H	37F2P		2 Shield Flash Heater ON (primary relay)	400	4	0	3,505,397:00:0	
182	96	184	17:52:00.000	20DC3A	37F2PR		1 Shield Flash Heater OFF (primary relay)	400	4	0	3,505,406:00:0	
183	96	184	17:52:04.000	20DC3B	37F2PR		2 Shield Flash Heater OFF (primary relay)	400	4	0	3,505,406:06:0	
184	96	184	17:52:10.000	20DC3C	40T1P		1 PCT Heater 1 ON (primary relay)	400	4	0	3,505,406:15:0	
185	96	184	17:52:14.000	20DC3D	40T1P		2 PCT Heater 1 ON (primary relay)	400	4	0	3,505,406:21:0	
186	96	184	17:52:20.000	20DC3E	40T2		1 PCT Heater 2 ON	400	4	0	3,505,406:30:0	
187	96	184	17:52:24.000	20DC3F	40T2		2 PCT Heater 2 ON	400	4	0	3,505,406:36:0	
188	96	184	17:54:04.000	20UR4A	7SLEW	DIS,POS,0:0	Stator movement	400	4	0	3,505,408:04:0	
189	96	184	17:56:02.666	176T16A	6TMREC	RPB	RESUME PLAYBACK (PB CONTROL) Record Mode	400	4	0	3,505,410:00:0	
190	96	184	19:00:00.000	488AJ6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	3,505,473:23:0	
191	96	184	19:00:40.000	488AJ6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	400	4	0	3,505,473:83:0	
192	96	184	19:07:47.333	488AJ6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	400	4	0	3,505,480:87:0	
193	96	184	20:35:38.666	488AJ6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	400	4	0	3,505,567:77:0	
194	96	184	20:56:35.333	488AJ6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	3,505,588:51:0	
195	96	184	22:26:11.333	488AK6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	3,505,677:16:0	
196	96	184	23:45:00.000	418PB6A	6BUFHI		10 MUB Buffer high water	400	4	0	3,505,755:11:0	
197	96	184	23:59:00.666	432JH6B	6RTDS2	NIMNCG,AACDSL,RT	AACS DESELECT	400	4	0	3,505,768:89:0	
198	96	185	01:23:15.333	488AK6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	3,505,852:27:0	
199	96	185	02:48:54.000	176VM6A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	400	4	0	3,505,937:00:0	
200	96	185	02:50:00.000	41SE99A	POWER	PWR MODE change	Change to Maneuver Mode	400	4	0	3,505,938:08:0	
201	96	185	02:50:04.000	41SE3K	37F2PR		1 Shield Flash Heater OFF (primary relay)	400	4	0	3,505,938:14:0	
202	96	185	02:50:14.000	41SE3L	37F2PR		2 Shield Flash Heater OFF (primary relay)	400	4	0	3,505,938:29:0	
203	96	185	02:52:24.000	41SE3G	40T1P		1 PCT Heater 1 ON (primary relay)	400	4	0	3,505,940:42:0	
204	96	185	02:52:34.000	41SE3H	40T1P		2 PCT Heater 1 ON (primary relay)	400	4	0	3,505,940:57:0	
205	96	185	02:52:44.000	41SE3I	40T2		1 PCT Heater 2 ON	400	4	0	3,505,940:72:0	
206	96	185	02:52:51.333	488AK6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	400	4	0	3,505,940:83:0	
207	96	185	02:52:54.000	41SE3J	40T2		2 PCT Heater 2 ON	400	4	0	3,505,940:87:0	
208	96	185	02:53:00.000	488AK6D	6TMSED	NORM,AH2	Sci, Eng, and D/L Chan	400	4	0	3,505,941:05:0	
209	96	185	03:01:20.000	20UF4B	7SAFE	UNSTOW	S/P TO 153 deg cone	400	4	0	3,505,949:27:0	
210	96	185	03:07:00.000	20UF6A	6MROH	7,73C0,0,A10	read from AACSA7,73C0,0,A10	400	4	0	3,505,954:82:0	
211	96	185	03:08:20.000	20UF6B	6MROH	7,73C0,0,A10	read from AACSA7,73C0,0,A10	400	4	0	3,505,956:20:0	
212	96	185	03:08:20.666	488AK6E	6TMSED	FILL,AH2	Sci, Eng, and D/L Chan	400	4	0	3,505,956:21:0	
213	96	185	03:20:20.000	20UF4D	7MODE	INT	AACS INERTIAL MODE	400	4	0	3,505,968:08:0	
214	96	185	03:50:38.666	488AL6A	6TMSED	NORM,AH2	Sci, Eng, and D/L Chan	400	4	0	3,505,998:06:0	
215	96	185	04:26:43.333	488AL6B	6TMSED	NORM,AH3	Sci, Eng, and D/L Chan	400	4	0	3,506,033:68:0	
216	96	185	04:34:37.333	488AL6C	6TMSED	FILL,AH3	Sci, Eng, and D/L Chan	400	4	0	3,506,041:51:0	
217	96	185	05:11:25.266	488AL6D	6TMSED	NORM,AH3	Sci, Eng, and D/L Chan	400	4	0	3,506,077:87:0	
218	96	185	05:12:10.600	31H6A,	6CKSUM	NIMS	NIMS,1000,14B3	400	4	0	3,506,078:64:0	



Line	YR	DOY	SCET - GMT	PSID	Command Parameters	Description	GCM	GO	GS	RIM	MF I
219	96	185	05:13:20.600	31H6B,	6MROH	12 read from LLM1A12,2282,1,A1	400	4	0	3,506,079:78:0	
220	96	185	05:55:59.933	20UF6C	7,73C0,0,A10	read from AACSA7,73C0,0,A10	400	4	0	3,506,122:04:0	
221	96	185	05:57:19.933	20UF6D	7,73C0,0,A10	read from AACSA7,73C0,0,A10	400	4	0	3,506,123:33:0	
222	96	185	05:59:59.933	488AL6E	6TMSED NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	3,506,126:00:0	
223	96	185	06:26:11.266	488AM6A	6TMSED NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	3,506,151:82:0	
224	96	185	07:13:07.266	488AM6B	6TMSED NORM,AL2	Sci, Eng, and D/L Chan	400	4	0	3,506,198:29:0	
225	96	185	07:49:23.266	488AM6C	6TMSED NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	3,506,234:17:0	
226	96	185	08:17:02.600	488AM6D	6TMSED FILL,AL3	Sci, Eng, and D/L Chan	400	4	0	3,506,261:49:0	
227	96	185	08:21:23.266	488AM6E	6TMSED FILL,AL1	Sci, Eng, and D/L Chan	400	4	0	3,506,265:76:0	
228	96	185	08:52:59.933	488AM6A	6TMSED FILL,AL1	Sci, Eng, and D/L Chan	400	4	0	3,506,297:09:0	
229	96	185	10:08:37.933	31BA6B	6MROH	12 read from LLM1A12,2282,0,A1	400	4	0	3,506,371:82:0	
230	96	185	10:14:37.933	31BA6D	6MROH	12 read from LLM1A12,2282,0,A1	400	4	0	3,506,377:76:0	
231	96	185	10:20:37.933	31BA6F	6MROH	12 read from LLM1A12,2282,0,A1	400	4	0	3,506,383:70:0	
232	96	185	10:27:57.933	31BA6H	6MROH	12 read from LLM1A12,2282,0,A1	400	4	0	3,506,391:02:0	
233	96	185	10:35:39.933	31CA6B	6MROH	12 read from LLM1A12,2282,0,A1	400	4	0	3,506,398:58:0	
234	96	185	10:41:39.933	31CA6D	6MROH	12 read from LLM1A12,2282,0,A1	400	4	0	3,506,404:52:0	
235	96	185	10:47:39.933	31CA6F	6MROH	12 read from LLM1A12,2282,0,A1	400	4	0	3,506,410:46:0	
236	96	185	10:54:39.933	31CA6H	6MROH	12 read from LLM1A12,2282,0,A1	400	4	0	3,506,417:39:0	
237	96	185	23:59:59.933	444UA443A4A	7MODE CRU	AACS CRUISE MODE	400	4	0	3,507,194:12:0	
238	96	186	00:00:29.933	488AO6A	6TMSED FILL,AL1	Sci, Eng, and D/L Chan	400	4	0	3,507,194:57:0	
239	96	186	00:06:27.266	488AO6B	6TMSED NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	3,507,200:47:0	
240	96	186	00:16:06.600	41TC99A	POWER	Change to Calib/Decon Mode	400	4	0	3,507,210:06:0	
241	96	186	00:16:06.600	G1NNSHDOFF01-	-----STOP-----		400	4	0	:::	
242	96	186	00:16:06.600	G1NNRCTRLT01-	-----START-----		400	4	0	:::	
243	96	186	00:16:10.600	41TC3G	37F2PR	1 Shield Flash Heater OFF (primary relay)	400	4	0	3,507,210:12:0	
244	96	186	00:16:20.600	41TC3H	37F2PR	2 Shield Flash Heater OFF (primary relay)	400	4	0	3,507,210:27:0	
245	96	186	00:16:30.600	41TC3I	40T1PR	1 PCT Heater 1 OFF (primary relay)	400	4	0	3,507,210:42:0	
246	96	186	00:16:40.600	41TC3J	40T1PR	2 PCT Heater 1 OFF (primary relay)	400	4	0	3,507,210:57:0	
247	96	186	00:16:50.600	41TC3K	40T2R	1 PCT Heater 2 OFF	400	4	0	3,507,210:72:0	
248	96	186	00:17:00.600	41TC3L	40T2R	2 PCT Heater 2 OFF	400	4	0	3,507,210:87:0	
249	96	186	00:26:09.266	185XE10A3A	40HRP	1 PCT Heater ON (primary relay)	400	4	0	3,507,220:00:0	
250	96	186	00:27:03.933	20VE4A	7SLEW DIS,POS,0,0	Stator movement	400	4	0	3,507,220:82:0	
251	96	186	00:29:11.266	176VN6A	6TMREC RPB	RESUME PLAYBACK (PB CONTROL) Record Mode	400	4	0	3,507,223:00:0	
252	96	186	01:53:07.266	488AO6C	6TMSED NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	3,507,306:01:0	
253	96	186	02:44:33.266	488AO6D	6TMSED FILL,AL3	Sci, Eng, and D/L Chan	400	4	0	3,507,356:80:0	
254	96	186	04:01:37.266	488AO6E	6TMSED NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	3,507,433:09:0	
255	96	186	04:29:38.600	488AP6A	6TMSED FILL,AL3	Sci, Eng, and D/L Chan	400	4	0	3,507,460:74:0	
256	96	186	05:06:26.600	488AP6B	6TMSED NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	3,507,497:19:0	
257	96	186	05:11:31.266	488AP6C	6TMSED NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	3,507,502:21:0	
258	96	186	09:25:23.266	488AP6D	6TMSED NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	3,507,753:28:0	
259	96	186	11:35:25.866	125XE	NIMSINIT GS	##### GROUP START INIT	400	4	0	3,507,881:84:0	
260	96	186	11:35:25.866	125XE4A	37IST 1,0,0,OFF,0,0,0	Chopper ON, Sync, 63Hz (Ref)	460	4	0	3,507,881:84:0	
261	96	186	11:36:26.533	125XE4B	37IST 1,2,0,OFF,0,0,0	Chopper ON, Sync, Chopper (Ref)	4R0	4	0	3,507,882:84:0	
262	96	186	11:37:27.200	125XE4C	37IST 0,2,0,OFF,0,1,3	Gain State 1	1R0	4	0	3,507,883:84:0	
263	96	186	11:38:27.866	125XE4D	37MB 1B,1B,0,0,0,0	Selects mirror (spatial) edit table	1R0	4	0	3,507,884:84:0	
264	96	186	11:38:27.866	125XE11A	NIMSINIT GE	##### GROUP END INIT	1R0	4	0	3,507,884:84:0	
265	96	186	11:43:31.200	127XE4A	37IOP 3,0	Long Map, Grating Start Position =00	1R3	4	0	3,507,889:84:0	
266	96	186	11:43:31.200	127XE	NIMSTAB GS	%%%%% GROUP START TAB	1R3	4	0	3,507,889:84:0	
267	96	186	11:43:31.866	127XE4B	37ETB 0A,CA,18,03,FF,1	Loads wavelength edit table	1R3	4	0	3,507,889:85:0	
268	96	186	11:43:39.866	127XE11A	NIMSTAB GE	%%%%% GROUP END TAB	1R3	4	0	3,507,890:06:0	
269	96	186	12:09:29.200	488AQ6A	6TMSED FILL,AL5	Sci, Eng, and D/L Chan	1R3	4	0	3,507,915:55:0	
270	96	186	12:27:04.533	176XE6A	6TMREC PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	1R3	4	0	3,507,933:00:0	
271	96	186	12:27:41.866	488AQ6B	6TMSED NORM,AL5	Sci, Eng, and D/L Chan	1R3	4	0	3,507,933:56:0	
272	96	186	12:32:07.866	192XE4A	7CONE 17,0,119,7	Check S/P Position	1R3	4	0	3,507,938:00:0	
273	96	186	12:34:29.200	432XE6A	6RTSL2 NIMSEL,AACNCG,RT	NIMS R/T SELECT	1R3	4	0	3,507,940:30:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
274	96	186	12:35:28.533	432XF6A	6RTDS2	NIMDSL,AACNCG,RT	NIMS R/T DESELECT	1R3	4	0	3,507,941:28:0	
275	96	186	12:38:11.866	192XE4B	7CONE	17.0,0,0	Check S/P Position	1R3	4	0	3,507,944:00:0	
276	96	186	12:40:33.200	432XU6A	6RTSL2	NIMSEL,AACNCG,RT	NIMS R/T SELECT	1R3	4	0	3,507,946:30:0	
277	96	186	12:42:33.200	432XV6A	6RTDS2	NIMDSL,AACNCG,RT	NIMS R/T DESELECT	1R3	4	0	3,507,948:28:0	
278	96	186	12:44:15.866	192XE4C	7CONE	17.0,119.7	Check S/P Position	1R3	4	0	3,507,950:00:0	
279	96	186	12:46:37.200	432XW6A	6RTSL2	NIMSEL,AACNCG,RT	NIMS R/T SELECT	1R3	4	0	3,507,952:30:0	
280	96	186	12:47:36.533	432XY6A	6RTDS2	NIMDSL,AACNCG,RT	NIMS R/T DESELECT	1R3	4	0	3,507,953:28:0	
281	96	186	12:49:14.533	127XF4A	37IOP	0,0	Safe, Grating Start Position =00	1R0	4	0	3,507,954:84:0	
282	96	186	12:49:14.533	127XF	NIMSTAB	GS	%%-%-% GROUP START TAB	1R0	4	0	3,507,954:84:0	
283	96	186	12:49:15.200	127XF4B	37ETB	04:C4.02,00,00	Loads wavelength edit table	1R0	4	0	3,507,954:85:0	
284	96	186	12:49:19.200	185XE10B3A	40HRPR		1 RCT Heater OFF (primary relay)	1R0	4	0	3,507,955:00:0	
285	96	186	12:49:23.200	127XF11A	NIMSTAB	GE	%%-%-% GROUP END TAB	1R0	4	0	3,507,955:06:0	
286	96	186	12:50:19.866	192XE4D	7CONE	17.0,153.0	Check S/P Position	1R0	4	0	3,507,956:00:0	
287	96	186	12:51:15.866	125XF4A	37MB	0,0,0,0,0,0	Selects mirror (spatial) edit table	1R0	4	0	3,507,956:84:0	
288	96	186	12:51:15.866	125XF	NIMSINIT	GS	##### GROUP START INIT	1R0	4	0	3,507,956:84:0	
289	96	186	12:52:16.533	125XF4B	37IST	1,0,0,OFF,0,0,0	Chopper ON, Sync, 63Hz (Ref)	160	4	0	3,507,957:84:0	
290	96	186	12:53:17.200	125XF11A	NIMSINIT	GE	##### GROUP END INIT	160	4	0	3,507,958:84:0	
291	96	186	12:53:17.200	125XF4C	37IST	1,1,0,OFF,0,0,0	Chopper OFF, N/A, 63Hz (Ref)	100	4	0	3,507,958:84:0	
292	96	186	12:54:26.533	41TD99A	POWER	PWR MODE change	Change to Playback Mode	100	4	0	3,507,960:06:0	
293	96	186	12:54:30.533	41TD31	40T1PR		1 PCT Heater 1 OFF (primary relay)	100	4	0	3,507,960:12:0	
294	96	186	12:54:40.533	41TD3J	40T1PR		2 PCT Heater 1 OFF (primary relay)	100	4	0	3,507,960:27:0	
295	96	186	12:54:50.533	41TD3K	40T2R		1 PCT Heater 2 OFF	100	4	0	3,507,960:42:0	
296	96	186	12:55:00.533	41TD3L	40T2R		2 PCT Heater 2 OFF	100	4	0	3,507,960:57:0	
297	96	186	12:57:10.533	41TD3G	37F2P		1 Shield Flash Heater ON (primary relay)	100	4	0	3,507,962:70:0	
298	96	186	12:57:20.533	41TD3H	37F2P		2 Shield Flash Heater ON (primary relay)	100	4	0	3,507,962:85:0	
299	96	186	13:12:01.866	20UI4A	7SLEW	DIS,POS,0,0	Stator movement	100	4	0	3,507,977:42:0	
300	96	186	13:13:35.200	176XF6A	6TMREC	RPB	RESUME PLAYBACK (PB CONTROL) Record Mode	100	4	0	3,507,979:00:0	
301	96	186	13:14:39.932	G1NNRCTRLT01-		-----STOP-----		100	4	0	:	
302	96	186	18:08:03.200	488AQ6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,508,270:21:0	
303	96	186	19:31:56.533	488AR6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	100	4	0	3,508,353:18:0	
304	96	186	19:37:39.200	488AR6B	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	100	4	0	3,508,358:77:0	
305	96	186	20:16:39.200	488AR6C	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	100	4	0	3,508,397:38:0	
306	96	186	21:26:27.200	488AR6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,508,466:41:0	
307	96	187	00:30:01.200	488AR6E	6TMSED	NORM,AH4	Sci, Eng, and D/L Chan	100	4	0	3,508,648:00:0	
308	96	187	01:22:21.200	488AS6A	6TMSED	NORM,AH4	Sci, Eng, and D/L Chan	100	4	0	3,508,699:69:0	
309	96	187	02:08:03.200	488AS6B	6TMSED	NORM,AH3	Sci, Eng, and D/L Chan	100	4	0	3,508,744:87:0	
310	96	187	02:42:41.200	488AS6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,508,779:19:0	
311	96	187	02:52:51.200	488AS6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3,508,789:24:0	
312	96	187	03:58:59.200	488AS6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,508,854:61:0	
313	96	187	08:55:31.200	488AT6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	100	4	0	3,509,147:86:0	
314	96	187	16:57:52.466	176VG6A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	100	4	0	3,509,625:00:0	
315	96	187	16:59:59.800	481UA4A	7VECT		Inert vect update UTC	100	4	0	3,509,627:09:0	
316	96	187	17:02:03.800	20VC4A	7SLEW	DIS,POS,0,0	Stator movement	100	4	0	3,509,629:13:0	
317	96	187	17:03:56.466	176VH6A	6TMREC	RPB	RESUME PLAYBACK (PB CONTROL) Record Mode	100	4	0	3,509,631:00:0	
318	96	187	18:22:59.133	488AU6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3,509,709:16:0	
319	96	187	18:33:18.466	488AU6B	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	100	4	0	3,509,719:35:0	
320	96	187	20:20:37.133	488AU6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3,509,825:47:0	
321	96	187	20:56:35.133	488AU6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,509,861:08:0	
322	96	187	21:14:39.800	488AU6E	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	100	4	0	3,509,878:88:0	
323	96	187	21:51:27.800	488AV6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,509,915:33:0	
324	96	187	22:26:11.133	488AV6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,509,949:64:0	
325	96	188	00:53:23.133	488AV6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,510,095:26:0	
326	96	188	02:22:59.133	488AV6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3,510,183:82:0	
327	96	188	03:26:59.133	488AV6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,510,247:18:0	
328	96	188	03:58:59.133	488AW6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,510,278:77:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
329	96	188	04:06:45.133	488AW6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	100	4	0	3,510,286:48:0	
330	96	188	04:34:03.800	488AW6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,510,313:49:0	
331	96	188	06:53:55.133	488AW6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3,510,451:78:0	
332	96	188	07:28:03.133	488AW6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,510,485:56:0	
333	96	188	08:25:39.133	488AX6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	100	4	0	3,510,542:53:0	
334	96	188	10:54:59.133	488AX6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	100	4	0	3,510,690:25:0	
335	96	188	16:08:35.133	488AY6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	100	4	0	3,511,000:39:0	
336	96	188	18:22:59.133	488AY6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,511,133:32:0	
337	96	188	19:20:35.800	488AY6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	100	4	0	3,511,190:30:0	
338	96	188	19:22:43.133	488AY6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	100	4	0	3,511,192:39:0	
339	96	188	20:05:35.733	488AY6E	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3,511,234:76:0	
340	96	188	20:26:43.066	488AZ6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,511,255:66:0	
341	96	188	20:58:43.066	488AZ6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,511,287:34:0	
342	96	189	02:22:59.066	488AZ6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3,511,608:07:0	
343	96	189	03:09:55.066	488BA6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,511,654:45:0	
344	96	189	03:41:55.066	488BA6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,511,686:13:0	
345	96	189	06:26:11.066	488BA6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	100	4	0	3,511,848:55:0	
346	96	189	07:08:51.066	488BA6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,511,890:73:0	
347	96	189	08:10:43.066	488BA6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	100	4	0	3,511,951:90:0	
348	96	189	10:10:11.066	488BB6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	100	4	0	3,512,070:13:0	
349	96	189	16:38:27.066	488BC6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	100	4	0	3,512,454:13:0	
350	96	189	18:37:55.066	488BC6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,512,572:27:0	
351	96	189	19:16:59.066	488BC6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	100	4	0	3,512,610:85:0	
352	96	189	19:22:43.066	488BC6D	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	100	4	0	3,512,616:55:0	
353	96	189	20:01:36.400	488BC6E	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	100	4	0	3,512,655:06:0	
354	96	189	20:43:47.066	488BD6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,512,696:71:0	
355	96	189	21:04:41.733	488BD6B	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	100	4	0	3,512,717:42:0	
356	96	189	21:41:23.066	488BD6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	100	4	0	3,512,753:68:0	
357	96	189	21:41:29.733	488BD6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,512,753:78:0	
358	96	190	01:23:15.000	488BD6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,512,973:16:0	
359	96	190	02:22:59.000	488BE6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3,513,032:23:0	
360	96	190	02:59:15.000	488BE6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,513,068:11:0	
361	96	190	03:31:15.000	488BE6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,513,099:70:0	
362	96	190	03:56:47.000	488BE6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	100	4	0	3,513,125:02:0	
363	96	190	04:24:05.666	488BE6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,513,152:03:0	
364	96	190	05:56:19.000	488BF6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	100	4	0	3,513,243:22:0	
365	96	190	06:53:55.000	488BF6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3,513,300:19:0	
366	96	190	07:28:03.000	488BF6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,513,333:88:0	
367	96	190	07:44:15.666	176VK6A	6TMREC	TPB	TERMINATE PLAYBACK (PB CONTROL) Record Mo	100	4	0	3,513,350:00:0	
368	96	190	07:59:25.666	465SC6A	6DMSC	RDY,2	DMS Control Tape stop	100	4	0	3,513,365:56:0	
369	96	190	08:00:03.000	488BF6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,513,365:56:0	
370	96	190	08:00:19.666	465SD6A	6DTRN	GMD,6DTRN,465SD6	DMS TRACK TURNAROUND	100	4	0	3,513,365:81:0	
371	96	190	08:06:47.000	488BF6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	100	4	0	3,513,372:25:0	
372	96	190	08:36:45.666	488BG6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,513,401:84:0	
373	96	190	18:37:55.000	488BH6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3,513,996:43:0	
374	96	190	19:08:15.666	488BH6B	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	100	4	0	3,514,026:44:0	
375	96	190	20:05:33.666	488BH6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3,514,083:14:0	
376	96	190	20:23:23.666	488BH6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	100	4	0	3,514,100:72:0	
377	96	190	20:26:43.000	488BH6E	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	100	4	0	3,514,104:07:0	
378	96	190	20:59:42.333	488BI6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,514,135:77:0	
379	96	190	20:59:42.333	488BI6B	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	100	4	0	3,514,136:64:0	
380	96	190	21:28:35.000	488BI6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	100	4	0	3,514,165:24:0	
381	96	190	21:34:57.666	488BI6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,514,171:52:0	
382	96	191	00:58:04.333	20VG4A	7SLEW	DIS,POS,0.0	Stator movement	100	4	0	3,514,372:41:0	
383	96	191	00:59:38.333	176VL6A	6TMREC	IPB	INITIATE PLAYBACK (PB CONTROL) Record Mod	100	4	0	3,514,374:00:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
384	96	191	01:23:15.000	488BJ6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,514,397:32:0	
385	96	191	02:22:59.000	488BJ6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3,514,456:39:0	
386	96	191	02:38:13.666	488BJ6B	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	100	4	0	3,514,471:46:0	
387	96	191	03:05:33.000	488BJ6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3,514,498:48:0	
388	96	191	03:26:59.000	488BJ6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,514,519:66:0	
389	96	191	03:51:48.333	488BJ6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	100	4	0	3,514,544:25:0	
390	96	191	04:00:01.000	488BK6A	6TMSED	FILL,AH4	Sci, Eng, and D/L Chan	100	4	0	3,514,552:36:0	
391	96	191	04:19:06.333	488BK6B	6TMSED	NORM,AH4	Sci, Eng, and D/L Chan	100	4	0	3,514,571:25:0	
392	96	191	04:52:21.000	488BK6C	6TMSED	NORM,AH4	Sci, Eng, and D/L Chan	100	4	0	3,514,604:14:0	
393	96	191	05:41:22.933	488BK6D	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	100	4	0	3,514,652:59:0	
394	96	191	06:12:40.933	488BK6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	100	4	0	3,514,683:55:0	
395	96	191	08:08:34.933	488BL6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,514,798:21:0	
396	96	191	10:03:46.933	488BL6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	100	4	0	3,514,912:15:0	
397	96	191	16:53:22.933	488BM6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	100	4	0	3,515,317:24:0	
398	96	191	18:22:58.933	488BM6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,515,405:80:0	
399	96	191	19:10:56.266	488BM6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	100	4	0	3,515,453:28:0	
400	96	191	19:18:26.933	488BM6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	100	4	0	3,515,460:67:0	
401	96	191	20:05:32.933	488BM6E	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3,515,507:29:0	
402	96	191	20:26:42.933	488BN6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,515,528:23:0	
403	96	191	20:59:43.600	488BN6B	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	100	4	0	3,515,560:82:0	
404	96	191	21:28:34.933	488BN6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	100	4	0	3,515,589:40:0	
405	96	191	21:34:58.266	488BN6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,515,595:69:0	
406	96	192	01:23:14.933	488BN6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,515,821:48:0	
407	96	192	02:14:27.600	488BO6A	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	100	4	0	3,515,872:16:0	
408	96	192	03:16:31.600	488BO6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,515,933:51:0	
409	96	192	03:41:54.933	488BO6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,515,958:61:0	
410	96	192	03:46:48.933	488BO6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	100	4	0	3,515,963:47:0	
411	96	192	04:36:47.600	488BO6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,516,012:86:0	
412	96	192	07:16:32.933	488BP6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	100	4	0	3,516,170:86:0	
413	96	192	08:02:12.266	488BP6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,516,216:09:0	
414	96	192	08:08:34.933	488BP6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	100	4	0	3,516,222:37:0	
415	96	192	09:25:22.933	488BP6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	100	4	0	3,516,298:33:0	
416	96	192	10:35:58.933	488BP6E	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	100	4	0	3,516,368:17:0	
417	96	192	10:49:37.533	488BQ6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	100	4	0	3,516,381:62:0	
418	96	192	16:53:22.866	488BR6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	100	4	0	3,516,741:40:0	
419	96	192	18:22:58.866	488BR6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,516,830:05:0	
420	96	192	19:00:35.533	488BR6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	100	4	0	3,516,867:23:0	
421	96	192	19:07:46.866	488BR6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	100	4	0	3,516,874:33:0	
422	96	192	19:45:30.866	488BR6E	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3,516,911:62:0	
423	96	192	20:28:50.866	488BS6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,516,954:49:0	
424	96	193	02:08:02.866	488BS6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3,517,290:01:0	
425	96	193	02:54:58.866	488BT6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,517,336:39:0	
426	96	193	03:26:58.866	488BT6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,517,368:07:0	
427	96	193	05:26:26.866	488BT6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	100	4	0	3,517,486:21:0	
428	96	193	06:38:58.866	488BT6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,517,557:88:0	
429	96	193	07:13:06.866	488BT6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,517,591:66:0	
430	96	193	07:45:06.866	488BU6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	100	4	0	3,517,623:34:0	
431	96	193	09:25:22.866	488BU6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	100	4	0	3,517,722:49:0	
432	96	193	16:38:26.800	488BV6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	100	4	0	3,518,150:77:0	
433	96	193	18:22:58.800	488BV6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,518,254:21:0	
434	96	193	19:00:34.800	488BV6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	100	4	0	3,518,291:38:0	
435	96	193	19:07:46.800	488BV6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	100	4	0	3,518,298:49:0	
436	96	193	19:35:30.133	488BV6E	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3,518,325:87:0	
437	96	193	19:56:50.800	488BW6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,518,347:06:0	
438	96	193	20:28:50.800	488BW6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,518,378:65:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
439	96	194	02:08:02.800	488BX6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,518,714:17:0	
440	96	194	02:29:25.466	488BX6B	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	100	4	0	3,518,735:30:0	
441	96	194	03:16:29.466	488BX6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,518,781:80:0	
442	96	194	03:41:54.800	488BX6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,518,807:02:0	
443	96	194	03:56:51.466	488BX6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	100	4	0	3,518,821:73:0	
444	96	194	04:26:49.466	488BY6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,518,851:40:0	
445	96	194	06:32:34.800	488BY6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,518,975:74:0	
446	96	194	07:15:14.800	488BY6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,519,018:01:0	
447	96	194	07:47:14.800	488BY6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	100	4	0	3,519,049:60:0	
448	96	194	07:59:37.466	488BY6E	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	100	4	0	3,519,061:82:0	
449	96	194	08:17:49.466	488BZ6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	100	4	0	3,519,079:82:0	
450	96	194	09:25:22.800	488BZ6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	100	4	0	3,519,146:65:0	
451	96	194	16:38:26.800	488CA6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	100	4	0	3,519,575:02:0	
452	96	194	18:08:02.800	488CA6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3,519,663:58:0	
453	96	194	18:13:10.133	488CA6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	100	4	0	3,519,668:64:0	
454	96	194	19:30:28.800	488CA6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3,519,745:15:0	
455	96	194	20:13:54.800	488CA6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,519,788:11:0	
456	96	195	02:08:02.733	488CB6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3,520,138:33:0	
457	96	195	03:12:02.733	488CB6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,520,201:60:0	
458	96	195	05:26:26.733	488CB6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	100	4	0	3,520,334:53:0	
459	96	195	06:24:02.733	488CB6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3,520,391:50:0	
460	96	195	06:58:10.733	488CB6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,520,425:28:0	
461	96	195	07:40:50.733	488CC6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	100	4	0	3,520,467:46:0	
462	96	195	08:00:00.733	488CC6B	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	100	4	0	3,520,486:42:0	
463	96	195	08:52:20.733	488CC6C	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	100	4	0	3,520,538:20:0	
464	96	195	09:10:26.733	488CC6D	6TMSED	NORM,AH6	Sci, Eng, and D/L Chan	100	4	0	3,520,556:11:0	
465	96	195	10:12:40.733	488CC6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	100	4	0	3,520,617:61:0	
466	96	195	16:38:26.733	488CD6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	100	4	0	3,520,999:18:0	
467	96	195	18:08:02.733	488CD6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,521,087:74:0	
468	96	195	18:53:11.400	488CD6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	100	4	0	3,521,132:42:0	
469	96	195	18:59:14.733	488CD6D	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	100	4	0	3,521,138:41:0	
470	96	195	19:36:29.400	488CD6E	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	100	4	0	3,521,175:26:0	
471	96	195	20:39:30.733	488CE6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,521,237:56:0	
472	96	196	01:53:06.666	488CE6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3,521,547:70:0	
473	96	196	02:40:02.666	488CF6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,521,594:17:0	
474	96	196	03:12:02.666	488CF6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,521,625:76:0	
475	96	196	05:11:30.666	488CF6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	100	4	0	3,521,743:90:0	
476	96	196	06:17:38.666	488CF6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3,521,809:36:0	
477	96	196	06:53:54.666	488CF6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,521,845:24:0	
478	96	196	07:40:50.666	488CG6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	100	4	0	3,521,891:62:0	
479	96	196	09:10:26.666	488CG6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	100	4	0	3,521,980:27:0	
480	96	196	16:23:30.666	488CH6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	100	4	0	3,522,408:55:0	
481	96	196	18:08:02.666	488CH6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,522,511:90:0	
482	96	196	18:47:03.333	488CH6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	100	4	0	3,522,550:52:0	
483	96	196	18:52:50.666	488CH6D	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	100	4	0	3,522,556:27:0	
484	96	196	19:31:27.333	488CH6E	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	100	4	0	3,522,594:44:0	
485	96	196	20:33:06.666	488CI6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,522,655:42:0	
486	96	197	01:53:06.666	488CI6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3,522,971:86:0	
487	96	197	02:40:02.666	488CJ6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,523,018:33:0	
488	96	197	03:12:02.666	488CJ6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,523,050:01:0	
489	96	197	05:11:30.666	488CJ6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	100	4	0	3,523,168:15:0	
490	96	197	09:10:26.600	488CK6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	100	4	0	3,523,404:43:0	
491	96	197	16:23:30.600	488CL6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	100	4	0	3,523,832:71:0	
492	96	197	17:53:06.600	488CL6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,523,921:36:0	
493	96	197	18:46:03.266	488CL6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	100	4	0	3,523,973:69:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
494	96	197	18:52:50.600	488CL6D	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	100	4	0	3,523,980:43:0	
495	96	197	19:26:25.933	488CL6E	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	100	4	0	3,524,013:63:0	
496	96	197	20:09:38.600	488CM6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,524,056:39:0	
497	96	197	20:34:52.600	488CM6B	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	100	4	0	3,524,081:35:0	
498	96	197	21:11:30.600	488CM6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	100	4	0	3,524,117:56:0	
499	96	197	21:11:40.600	488CM6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,524,117:71:0	
<b>500</b>	<b>96</b>	<b>197</b>	<b>21:31:35.933</b>	<b>31M6B</b>	<b>6MROH</b>		<b>12 read from LLM1A12,2282,0,A2</b>	<b>100</b>	<b>4</b>	<b>0</b>	<b>3,524,137:44:0</b>	
501	96	198	00:53:22.600	488CM6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,524,337:04:0	
502	96	198	01:44:19.266	488CN6A	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	100	4	0	3,524,387:39:0	
503	96	198	01:55:14.600	488CN6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	100	4	0	3,524,398:21:0	
504	96	198	02:50:03.266	488CN6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,524,452:40:0	
505	96	198	03:21:57.266	488CN6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	100	4	0	3,524,483:90:0	
506	96	198	03:49:15.933	488CN6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,524,511:00:0	
507	96	198	05:11:30.600	488CO6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	100	4	0	3,524,592:31:0	
508	96	198	06:09:06.600	488CO6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3,524,649:28:0	
509	96	198	06:43:14.600	488CO6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,524,683:06:0	
510	96	198	07:25:54.600	488CO6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	100	4	0	3,524,725:24:0	
511	96	198	09:10:26.600	488CO6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	100	4	0	3,524,828:59:0	
512	96	198	16:23:30.533	488CP6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	100	4	0	3,525,256:87:0	
513	96	198	17:53:06.533	488CP6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3,525,345:52:0	
514	96	198	17:53:13.200	488CP6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	100	4	0	3,525,345:62:0	
515	96	198	19:20:22.533	488CP6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3,525,431:80:0	
516	96	198	19:56:50.533	488CP6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,525,467:86:0	
517	96	199	01:35:37.866	488CQ6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	100	4	0	3,525,803:01:0	
518	96	199	01:38:10.533	488CQ6B	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	100	4	0	3,525,805:48:0	
519	96	199	02:25:06.533	488CQ6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	100	4	0	3,525,851:86:0	
520	96	199	02:57:06.533	488CQ6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	100	4	0	3,525,883:54:0	
521	96	199	03:00:31.200	488CQ6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,525,886:88:0	
522	96	199	05:11:30.533	488CR6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	100	4	0	3,526,016:47:0	
523	96	199	08:55:30.533	488CR6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	100	4	0	3,526,238:05:0	
524	96	199	16:00:01.200	488CS6A	6TMSED	NORM,AH6	Sci, Eng, and D/L Chan	100	4	0	3,526,657:82:0	
525	96	199	16:08:34.533	488CS6B	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	100	4	0	3,526,666:33:0	
526	96	199	16:52:21.133	488CS6C	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	100	4	0	3,526,709:60:0	
527	96	199	17:53:06.466	488CS6D	6TMSED	NORM,AH4	Sci, Eng, and D/L Chan	100	4	0	3,526,769:68:0	
528	96	199	18:12:41.133	488CS6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,526,789:10:0	
529	96	199	18:32:05.800	488CT6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	100	4	0	3,526,808:28:0	
530	96	199	18:37:54.466	488CT6B	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	100	4	0	3,526,814:05:0	
531	96	199	19:16:22.466	488CT6C	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	100	4	0	3,526,852:09:0	
532	96	199	20:22:26.466	488CT6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,526,917:40:0	
533	96	199	20:24:55.800	488CT6E	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	100	4	0	3,526,919:82:0	
<b>534</b>	<b>96</b>	<b>199</b>	<b>20:47:50.466</b>	<b>31AA5A</b>	<b>37PL</b>		<b>Program Load (halts microprocessor &amp; unwri</b>	<b>100</b>	<b>4</b>	<b>0</b>	<b>3,526,942:51:0</b>	
<b>535</b>	<b>96</b>	<b>199</b>	<b>20:48:51.133</b>	<b>31AA5B</b>	<b>37MRL</b>		<b>Memory Realocate (software operates from R</b>	<b>100</b>	<b>4</b>	<b>0</b>	<b>3,526,943:51:0</b>	
<b>536</b>	<b>96</b>	<b>199</b>	<b>20:49:51.800</b>	<b>31AA6A</b>	<b>6MCOPI</b>	<b>NIMS</b>	<b>NIMS,1000,LLM1A,7300,77F7</b>	<b>100</b>	<b>4</b>	<b>0</b>	<b>3,526,944:51:0</b>	
<b>537</b>	<b>96</b>	<b>199</b>	<b>20:50:52.466</b>	<b>31AA6B</b>	<b>6MCOPI</b>	<b>NIMS</b>	<b>NIMS,1598,LLM1A,77F8,781D</b>	<b>100</b>	<b>4</b>	<b>0</b>	<b>3,526,945:51:0</b>	
<b>538</b>	<b>96</b>	<b>199</b>	<b>20:52:33.133</b>	<b>31AA6C</b>	<b>6CKSUM</b>	<b>NIMS</b>	<b>NIMS,1000,14B3</b>	<b>100</b>	<b>4</b>	<b>0</b>	<b>3,526,946:81:0</b>	
<b>539</b>	<b>96</b>	<b>199</b>	<b>20:52:33.133</b>	<b>31AA6D</b>	<b>6MROH</b>		<b>12 read from LLM1A12,2282,0,A2</b>	<b>100</b>	<b>4</b>	<b>0</b>	<b>3,526,947:20:0</b>	
540	96	199	20:56:34.466	488CU6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	100	4	0	3,526,951:18:0	
541	96	199	21:00:43.800	488CU6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,526,955:28:0	
<b>542</b>	<b>96</b>	<b>199</b>	<b>21:14:07.800</b>	<b>31AA5C</b>	<b>37IRT</b>		<b>Instrument Reset (goes into POR state)</b>	<b>260</b>	<b>4</b>	<b>0</b>	<b>3,526,968:51:0</b>	
543	96	200	00:38:26.466	488CU6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	260	4	0	3,527,170:57:0	
544	96	200	01:38:10.466	488CU6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	260	4	0	3,527,229:64:0	
545	96	200	02:25:06.466	488CU6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	260	4	0	3,527,276:11:0	
546	96	200	02:57:06.466	488CV6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	260	4	0	3,527,307:70:0	
547	96	200	03:12:00.466	488CV6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	260	4	0	3,527,322:46:0	
548	96	200	03:39:18.466	488CV6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	260	4	0	3,527,349:46:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
549	96	200	05:11:30.466	488CV6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	260	4	0	3,527,440:63:0	
550	96	200	06:24:02.466	488CV6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	260	4	0	3,527,512:39:0	
551	96	200	07:25:54.466	488CW6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	260	4	0	3,527,573:56:0	
552	96	200	08:55:30.466	488CW6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	260	4	0	3,527,662:21:0	
553	96	200	16:08:34.466	488CX6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	260	4	0	3,528,090:49:0	
554	96	200	17:38:10.466	488CX6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	260	4	0	3,528,179:14:0	
555	96	200	18:30:54.466	488CX6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	260	4	0	3,528,231:28:0	
556	96	200	18:33:38.466	488CX6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	260	4	0	3,528,234:01:0	
557	96	200	18:55:19.133	488CX6E	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	260	4	0	3,528,255:41:0	
558	96	200	19:37:38.466	488CY6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	260	4	0	3,528,297:28:0	
559	96	200	20:09:38.466	488CY6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	260	4	0	3,528,328:87:0	
560	96	201	01:38:10.400	488CZ6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	260	4	0	3,528,653:80:0	
561	96	201	01:57:59.066	488CZ6B	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	260	4	0	3,528,673:43:0	
562	96	201	02:00:32.400	176SC6A	6TMREC	PPB	<b>PAUSE PLAYBACK (PB CONTROL) Record Mode C</b>	260	4	0	3,528,676:00:0	
563	96	201	02:01:59.733	41SG99A	<b>POWER</b>	<b>PWR MODE change</b>	<b>Change to Maneuver Mode</b>	260	4	0	3,528,677:40:0	
564	96	201	02:02:03.733	41SG3K	37F2PR		1 Shield Flash Heater OFF (primary relay)	260	4	0	3,528,677:46:0	
565	96	201	02:02:13.733	41SG3L	37F2PR		2 Shield Flash Heater OFF (primary relay)	260	4	0	3,528,677:61:0	
566	96	201	02:04:23.733	41SG3G	40T1P		1 PCT Heater 1 ON (primary relay)	260	4	0	3,528,679:74:0	
567	96	201	02:04:33.733	41SG3H	40T1P		2 PCT Heater 1 ON (primary relay)	260	4	0	3,528,679:89:0	
568	96	201	02:04:43.733	41SG3J	40T2		1 PCT Heater 2 ON	260	4	0	3,528,680:13:0	
569	96	201	02:04:53.733	41SG3I	40T2		2 PCT Heater 2 ON	260	4	0	3,528,680:28:0	
570	96	201	02:17:59.733	488CZ6C	6TMSED	FILL,AH2	Sci, Eng, and D/L Chan	260	4	0	3,528,693:24:0	
571	96	201	02:25:19.066	488CZ6D	6TMSED	NORM,AH2	Sci, Eng, and D/L Chan	260	4	0	3,528,700:46:0	
572	96	201	02:27:59.733	20UC4B	7SLEW	DIS,POS,0.0	Stator movement	260	4	0	3,528,703:14:0	
573	96	201	02:28:59.733	20UC4D	<b>7MODE</b>	<b>SPNL</b>	<b>AACS ALL-SPIN LOW</b>	260	4	0	3,528,704:13:0	
574	96	201	02:30:59.733	20UC4E	<b>7SAFE</b>	<b>UNSTOW</b>	<b>S/P TO 153 deg cone</b>	260	4	0	3,528,706:11:0	
575	96	201	02:36:29.733	20UC4G	7VENT	0.611,1.333,8	ALERT -- Thruster fire	260	4	0	3,528,711:51:0	
576	96	201	02:36:30.400	20UC4H	7VENT	0.611,10.989,8	ALERT -- Thruster fire	260	4	0	3,528,711:52:0	
577	96	201	02:36:50.400	20UC4I	7VENT	0.611,1.333,6	ALERT -- Thruster fire	260	4	0	3,528,711:82:0	
578	96	201	02:36:51.066	20UC4J	7VENT	0.611,10.989,6	ALERT -- Thruster fire	260	4	0	3,528,711:83:0	
579	96	201	02:37:11.066	20UC4K	7VENT	0.611,1.333,4	ALERT -- Thruster fire	260	4	0	3,528,712:22:0	
580	96	201	02:37:11.733	20UC4L	7VENT	0.611,0.666,5	ALERT -- Thruster fire	260	4	0	3,528,712:23:0	
581	96	201	02:37:21.733	20UC4M	7VENT	0.611,1.333,4	ALERT -- Thruster fire	260	4	0	3,528,712:38:0	
582	96	201	02:37:22.400	20UC4N	7VENT	0.611,0.666,5	ALERT -- Thruster fire	260	4	0	3,528,712:39:0	
583	96	201	02:37:32.400	20UC4O	7VENT	1.211,1.333,10	ALERT -- Thruster fire	260	4	0	3,528,712:54:0	
584	96	201	02:37:33.066	20UC4P	7VENT	1.211,0.666,12	ALERT -- Thruster fire	260	4	0	3,528,712:55:0	
585	96	201	02:39:19.733	20UC4S	7VENT	0.611,1.333,7	ALERT -- Thruster fire	260	4	0	3,528,714:33:0	
586	96	201	02:39:20.400	20UC4T	7VENT	0.611,10.989,7	ALERT -- Thruster fire	260	4	0	3,528,714:34:0	
587	96	201	02:39:40.400	20UC4U	7VENT	0.611,1.333,1	ALERT -- Thruster fire	260	4	0	3,528,714:64:0	
588	96	201	02:39:41.066	20UC4V	7VENT	0.611,10.989,1	ALERT -- Thruster fire	260	4	0	3,528,714:65:0	
589	96	201	02:40:01.066	20UC4AC	7VENT	0.611,1.333,2	ALERT -- Thruster fire	260	4	0	3,528,715:04:0	
590	96	201	02:40:01.733	20UC4AD	7VENT	0.611,0.666,3	ALERT -- Thruster fire	260	4	0	3,528,715:05:0	
591	96	201	02:40:11.733	20UC4AE	7VENT	0.611,1.333,2	ALERT -- Thruster fire	260	4	0	3,528,715:20:0	
592	96	201	02:40:12.400	20UC4AF	7VENT	0.611,0.666,3	ALERT -- Thruster fire	260	4	0	3,528,715:21:0	
593	96	201	02:40:22.400	20UC4W	7VENT	1.211,1.333,9	ALERT -- Thruster fire	260	4	0	3,528,715:36:0	
594	96	201	02:40:23.066	20UC4X	7VENT	1.211,0.666,11	ALERT -- Thruster fire	260	4	0	3,528,715:37:0	
595	96	201	02:41:19.733	20UC4Z	<b>7MODE</b>	<b>CRU</b>	<b>AACS CRUISE MODE</b>	260	4	0	3,528,716:31:0	
596	96	201	02:42:10.400	488CZ6E	6TMSED	NORM,AH3	Sci, Eng, and D/L Chan	260	4	0	3,528,717:16:0	
597	96	201	03:05:59.733	41SP99A	<b>POWER</b>	<b>PWR MODE change</b>	<b>Change to Playback Mode</b>	260	4	0	3,528,740:67:0	
598	96	201	03:06:03.733	41SP3I	40T1PR		1 PCT Heater 1 OFF (primary relay)	260	4	0	3,528,740:73:0	
599	96	201	03:06:13.733	41SP3J	40T1PR		2 PCT Heater 1 OFF (primary relay)	260	4	0	3,528,740:88:0	
600	96	201	03:06:23.733	41SP3K	40T2R		1 PCT Heater 2 OFF	260	4	0	3,528,741:12:0	
601	96	201	03:06:33.733	41SP3L	40T2R		2 PCT Heater 2 OFF	260	4	0	3,528,741:27:0	
602	96	201	03:08:43.733	41SP3G	37F2P		1 Shield Flash Heater ON (primary relay)	260	4	0	3,528,743:40:0	
603	96	201	03:08:53.733	41SP3H	37F2P		2 Shield Flash Heater ON (primary relay)	260	4	0	3,528,743:55:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
604	96	201	03:14:10.400	488DA6A	6TMSED	NORM,AH4	Sci, Eng, and D/L Chan	260	4	0	3,528,748:75:0	
605	96	201	03:16:03.733	20UL4A	7SLEW	DIS,POS,0.0	Stator movement	260	4	0	3,528,750:63:0	
606	96	201	03:18:23.733	176SD6A	6TMREC	RPB	<b>RESUME PLAYBACK (PB CONTROL) Record Mode</b>	260	4	0	3,528,753:00:0	
607	96	201	03:27:02.400	488DA6B	6TMSED	FILL,AH4	Sci, Eng, and D/L Chan	260	4	0	3,528,761:50:0	
608	96	201	03:57:00.400	488DA6C	6TMSED	NORM,AH4	Sci, Eng, and D/L Chan	260	4	0	3,528,791:17:0	
609	96	201	04:25:59.733	488DA6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	260	4	0	3,528,819:78:0	
610	96	201	05:12:00.000	G1NNOPCAL_01-		-----START-----		260	4	0	:	
611	96	201	05:12:33.733	31P5A	37MN		Memory Normal (software operates from ROM)	260	4	0	3,528,865:83:0	
612	96	201	05:13:34.400	31P4A	37IST	1,2,0,OFF,0,0,0	Chopper ON, Sync, Chopper (Ref)	2R0	4	0	3,528,866:83:0	
613	96	201	05:14:35.066	31P4B	37IST	0,0,0,OFF,0,1,1	Gain State 4	4R0	4	0	3,528,867:83:0	
614	96	201	05:15:35.733	31P4C	37MB	1B,1B,0,0,0,0	Selects mirror (spatial) edit table	4R0	4	0	3,528,868:83:0	
615	96	201	05:16:36.400	31P4D	37IOP	3.0	Long Map. Grating Start Position =00	4R3	4	0	3,528,869:83:0	
616	96	201	05:16:37.066	31P4E	37ETB	07,C7,31,80,00,0	Loads wavelength edit table	4R3	4	0	3,528,869:84:0	
617	96	201	05:17:37.066	31P4F	37IST	0,2,1,OFF,1,0,1	OPCAL	4R3	4	0	3,528,870:83:0	
618	96	201	05:19:38.400	31P4G	37IST	0,2,1,OFF,1,0,1	OPCAL	4R3	4	0	3,528,872:83:0	
619	96	201	05:22:00.000	G1NNOPCAL_01-		-----STOP-----		4R3	4	0	:	
620	96	201	05:58:26.400	488DA6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4R3	4	0	3,528,911:26:0	
621	96	201	06:32:34.400	488DB6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4R3	4	0	3,528,945:04:0	
622	96	201	07:10:58.400	488DB6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4R3	4	0	3,528,983:02:0	
623	96	201	07:24:49.733	488DB6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4R3	4	0	3,528,996:66:0	
624	96	201	07:43:01.733	488DB6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4R3	4	0	3,529,014:66:0	
625	96	201	08:55:30.400	488DB6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4R3	4	0	3,529,086:37:0	
626	96	201	15:53:38.400	488DC6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4R3	4	0	3,529,499:86:0	
627	96	201	17:38:10.400	488DC6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4R3	4	0	3,529,603:30:0	
628	96	201	17:42:58.400	488DC6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4R3	4	0	3,529,608:07:0	
629	96	201	19:05:17.066	488DC6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4R3	4	0	3,529,689:44:0	
630	96	201	19:41:54.400	488DC6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4R3	4	0	3,529,725:64:0	
631	96	202	01:23:14.400	488DD6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4R3	4	0	3,530,063:26:0	
632	96	202	02:10:10.400	488DD6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4R3	4	0	3,530,109:64:0	
633	96	202	02:42:10.333	488DD6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4R3	4	0	3,530,141:32:0	
634	96	202	05:11:30.333	488DD6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4R3	4	0	3,530,289:04:0	
635	96	202	05:54:10.333	488DD6E	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4R3	4	0	3,530,331:22:0	
636	96	202	06:28:18.333	488DE6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4R3	4	0	3,530,365:00:0	
637	96	202	07:10:58.333	488DE6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4R3	4	0	3,530,407:18:0	
638	96	202	08:55:30.333	488DE6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4R3	4	0	3,530,510:53:0	
639	96	202	15:53:38.333	488DF6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4R3	4	0	3,530,924:11:0	
640	96	202	17:38:10.333	488DF6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4R3	4	0	3,531,027:46:0	
641	96	202	18:20:32.333	488DF6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4R3	4	0	3,531,069:37:0	
642	96	202	18:27:14.333	488DF6D	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4R3	4	0	3,531,076:03:0	
643	96	202	19:01:16.333	488DF6E	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4R3	4	0	3,531,109:63:0	
644	96	202	20:07:30.333	488DG6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4R3	4	0	3,531,175:18:0	
645	96	203	01:23:14.333	488DG6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4R3	4	0	3,531,487:42:0	
646	96	203	02:27:14.333	488DH6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4R3	4	0	3,531,550:69:0	
647	96	203	05:11:30.333	488DH6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4R3	4	0	3,531,713:20:0	
648	96	203	05:54:10.333	488DH6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4R3	4	0	3,531,755:38:0	
649	96	203	06:28:18.333	488DH6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4R3	4	0	3,531,789:16:0	
650	96	203	07:10:58.333	488DH6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4R3	4	0	3,531,831:34:0	
651	96	203	08:55:30.266	488DI6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4R3	4	0	3,531,934:69:0	
652	96	203	15:53:38.266	488DJ6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4R3	4	0	3,532,348:27:0	
653	96	203	17:38:10.266	488DJ6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4R3	4	0	3,532,451:62:0	
654	96	203	18:17:06.933	488DJ6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4R3	4	0	3,532,490:18:0	
655	96	203	18:22:58.266	488DJ6D	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4R3	4	0	3,532,495:90:0	
656	96	203	19:01:14.266	488DJ6E	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4R3	4	0	3,532,533:76:0	
657	96	203	20:03:14.266	488DK6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4R3	4	0	3,532,595:14:0	
658	96	203	22:30:00.933	488DK6B	6TMSED	NORM,AH4	Sci, Eng, and D/L Chan	4R3	4	0	3,532,740:29:0	



Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GC	GO	GS	RIM	MF I
659	96	203	23:22:20.933	488DK6C	6TMSED	NORM,AH4	Sci, Eng, and D/L Chan	4R3	4	0	3,532,792:07:0	
660	96	204	00:42:40.933	488DK6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4R3	4	0	3,532,871:48:0	
661	96	204	01:23:14.266	488DK6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4R3	4	0	3,532,911:58:0	
662	96	204	01:44:07.600	488DL6A	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4R3	4	0	3,532,932:27:0	
663	96	204	02:31:11.600	488DL6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4R3	4	0	3,532,978:77:0	
664	96	204	02:54:58.266	488DL6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4R3	4	0	3,533,002:33:0	
665	96	204	03:17:08.933	488DL6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4R3	4	0	3,533,024:27:0	
666	96	204	03:47:07.600	488DL6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4R3	4	0	3,533,053:86:0	
667	96	204	05:52:02.266	488DM6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4R3	4	0	3,533,177:44:0	
668	96	204	06:32:34.266	488DM6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4R3	4	0	3,533,217:52:0	
669	96	204	07:04:34.266	488DM6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4R3	4	0	3,533,249:20:0	
670	96	204	07:19:55.600	488DM6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4R3	4	0	3,533,264:37:0	
671	96	204	07:38:07.600	488DM6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4R3	4	0	3,533,282:37:0	
672	96	204	08:55:30.266	488DN6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4R3	4	0	3,533,358:85:0	
673	96	204	15:38:42.200	488DO6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4R3	4	0	3,533,757:64:0	
674	96	204	17:23:14.200	488DO6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4R3	4	0	3,533,861:08:0	
675	96	204	18:15:52.200	488DO6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4R3	4	0	3,533,913:13:0	
676	96	204	18:18:42.200	488DO6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4R3	4	0	3,533,915:86:0	
677	96	204	18:40:10.866	488DO6E	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4R3	4	0	3,533,937:17:0	
678	96	204	19:22:42.200	488DP6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4R3	4	0	3,533,979:22:0	
679	96	204	19:54:42.200	488DP6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4R3	4	0	3,534,010:81:0	
680	96	205	01:08:18.200	488DP6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4R3	4	0	3,534,321:04:0	
681	96	205	02:10:10.200	488DQ6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4R3	4	0	3,534,382:21:0	
682	96	205	02:42:10.200	488DQ6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4R3	4	0	3,534,413:80:0	
683	96	205	05:11:30.200	488DQ6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4R3	4	0	3,534,561:52:0	
684	96	205	05:43:30.200	488DQ6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4R3	4	0	3,534,593:20:0	
685	96	205	06:17:38.200	488DQ6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4R3	4	0	3,534,626:89:0	
686	96	205	06:56:02.200	488DR6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4R3	4	0	3,534,664:87:0	
687	96	205	08:40:34.200	488DR6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4R3	4	0	3,534,768:31:0	
688	96	205	15:38:42.200	488DS6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4R3	4	0	3,535,181:80:0	
689	96	205	17:23:14.200	488DS6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4R3	4	0	3,535,285:24:0	
690	96	205	17:27:49.533	488DS6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4R3	4	0	3,535,289:73:0	
691	96	205	18:50:08.133	488DS6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4R3	4	0	3,535,371:19:0	
692	96	205	19:26:58.133	488DS6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4R3	4	0	3,535,407:58:0	
693	96	206	01:08:18.133	488DT6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4R3	4	0	3,535,745:20:0	
694	96	206	01:55:14.133	488DT6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4R3	4	0	3,535,791:58:0	
695	96	206	02:27:14.133	488DT6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4R3	4	0	3,535,823:26:0	
696	96	206	05:11:30.133	488DT6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4R3	4	0	3,535,985:68:0	
697	96	206	06:38:58.133	488DT6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4R3	4	0	3,536,072:23:0	
698	96	206	07:10:58.133	488DU6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4R3	4	0	3,536,103:82:0	
699	96	206	08:40:34.133	488DU6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4R3	4	0	3,536,192:47:0	
700	96	206	15:23:46.133	488DV6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4R3	4	0	3,536,591:26:0	
701	96	206	17:23:14.133	488DV6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4R3	4	0	3,536,709:40:0	
702	96	206	18:00:26.133	488DV6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4R3	4	0	3,536,746:21:0	
703	96	206	18:05:54.133	488DV6D	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4R3	4	0	3,536,751:58:0	
704	96	206	18:46:07.466	488DV6E	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4R3	4	0	3,536,791:38:0	
705	96	206	19:50:26.133	488DW6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4R3	4	0	3,536,855:02:0	
706	96	206	19:55:10.800	488DW6B	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4R3	4	0	3,536,859:65:0	
707	96	206	20:31:58.800	488DW6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4R3	4	0	3,536,896:10:0	
708	96	206	20:39:30.133	488DW6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4R3	4	0	3,536,903:50:0	
709	96	206	23:53:38.066	488DW6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4R3	4	0	3,537,095:50:0	
710	96	207	00:59:00.733	488DX6A	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4R3	4	0	3,537,160:19:0	
711	96	207	02:01:04.733	488DX6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4R3	4	0	3,537,221:54:0	
712	96	207	02:12:18.066	488DX6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4R3	4	0	3,537,232:63:0	
713	96	207	02:42:16.066	488DX6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4R3	4	0	3,537,262:30:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
714	96	207	03:09:34.733	488DX6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4R3	4	0	3,537,289:31:0	
715	96	207	05:11:30.066	488DY6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4R3	4	0	3,537,409:84:0	
716	96	207	06:15:30.066	488DY6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4R3	4	0	3,537,473:20:0	
717	96	207	06:56:02.066	488DY6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4R3	4	0	3,537,513:28:0	
718	96	207	08:40:34.066	488DY6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4R3	4	0	3,537,616:63:0	
719	96	207	12:48:36.066	176VO6A	6TMREC	PPB	<b>PAUSE PLAYBACK (PB CONTROL) Record Mode C</b>	4R3	4	0	3,537,862:00:0	
720	96	207	12:50:37.400		DMS:	: *SLEW-TIC	P7, TRACK 1, FWD, TIC 190.06 +/-	4R3	4	0	3,537,864:00:0	
721	96	207	12:50:37.400	465WA6A	6DMST		5000 DMS Slew to TIC	4R3	4	0	3,537,864:00:0	
722	96	207	15:23:46.066	488DZ6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4R3	4	0	3,538,015:42:0	
723	96	207	17:08:18.066	488DZ6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4R3	4	0	3,538,118:77:0	
724	96	207	17:57:43.400	488DZ6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4R3	4	0	3,538,167:66:0	
725	96	207	18:03:46.066	488DZ6D	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4R3	4	0	3,538,173:64:0	
726	96	207	18:41:04.066	488DZ6E	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4R3	4	0	3,538,210:54:0	
727	96	207	18:44:18.733	465WB6A	6DMSC	P100.2	DMS Control Tape P/B 100.8kbps	4R3	4	0	3,538,213:73:0	
728	96	207	19:10:10.733	465WB6B	6DMSC	RDY,2	DMS Control Tape stop	4R3	4	0	3,538,299:35:0	
729	96	207	19:24:50.066	488EA6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4R3	4	0	3,538,253:80:0	
730	96	207	19:50:13.400	488EA6B	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4R3	4	0	3,538,278:90:0	
731	96	207	20:00:00.066	488EA6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4R3	4	0	3,538,288:60:0	
732	96	207	20:27:01.400	488EA6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4R3	4	0	3,538,315:35:0	
733	96	207	20:39:30.066	488EA6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4R3	4	0	3,538,327:66:0	
734	96	207	21:04:56.733	465WC6A	6DTRN	CMD,6DTRN,465WC6	DMS TRACK TURNAROUND	4R3	4	0	3,538,352:81:0	
735	96	207	21:15:58.733	465WD6A	6DMSC	P100.1	DMS Control Tape P/B 100.8kbps	4R3	4	0	3,538,363:73:0	
736	96	207	21:47:54.733	465WD6B	6DMSC	RDY,1	DMS Control Tape stop	4R3	4	0	3,538,395:35:0	
737	96	207	22:03:30.066	465WE6A	6DMSC	P100.2	DMS Control Tape P/B 100.8kbps	4R3	4	0	3,538,410:73:0	
738	96	207	22:35:40.733	465WF6A	6DMSC	P100.3	DMS Control Tape P/B 100.8kbps	4R3	4	0	3,538,442:57:0	
739	96	207	23:07:44.066	465WF6B	6DMSC	RDY,3	DMS Control Tape stop	4R3	4	0	3,538,474:30:0	
740	96	207	23:22:22.066	465WG6A	6DMSC	P100.4	DMS Control Tape P/B 100.8kbps	4R3	4	0	3,538,488:73:0	
741	96	207	23:38:42.066	488EB6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4R3	4	0	3,538,504:87:0	
742	96	207	23:54:32.066	465WH6A	6DMSC	P100.3	DMS Control Tape P/B 100.8kbps	4R3	4	0	3,538,520:56:0	
743	96	207	23:55:39.400	465WH6B	6DMSC	RDY,3	DMS Control Tape stop	4R3	4	0	3,538,521:66:0	
744	96	208	00:10:05.400	465WI6A	6DMSC	RDY,2	DMS Control Tape stop	4R3	4	0	3,538,536:00:0	
745	96	208	00:10:59.400	465WJ6A	6DTRN	CMD,6DTRN,465WJ6	DMS TRACK TURNAROUND	4R3	4	0	3,538,536:81:0	
746	96	208	00:32:00.066	20WA6B	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	4R3	4	0	3,538,557:61:0	
747	96	208	00:32:04.066	20WA6C	6DMSC	R7,4	DMS Control Tape runup 7.68kbp	4R3	4	0	3,538,557:67:0	
748	96	208	00:32:24.066	20WA6D	6TMREC	MBT	MARKER RECORD - EOT/ Record Mode Change	4R3	4	0	3,538,558:06:0	
749	96	208	00:39:30.733	20WA6E	6DMSC	R7,1	DMS Control Tape runup 7.68kbp	4R3	4	0	3,538,565:09:0	
750	96	208	00:39:32.066	20WA6F	6TMREC	MBT	MARKER RECORD - BOT/ Record Mode Change	4R3	4	0	3,538,565:11:0	
751	96	208	00:46:41.400	20WA6G	6TMREC	NRC	NO RECORD Record Mode Change	4R3	4	0	3,538,572:18:0	
752	96	208	00:46:44.733	20WA6H	6DMSC	RDY,1	DMS Control Tape stop	4R3	4	0	3,538,572:23:0	
753	96	208	00:47:43.400	20WA6I	6DMSC	P7,1	DMS Control Tape P/B 7.68kbps	4R3	4	0	3,538,573:20:0	
754	96	208	00:49:43.400	20WA6J	6DMSC	RDY,4	DMS Control Tape stop	4R3	4	0	3,538,575:18:0	
755	96	208	00:58:43.400	20WA6K	6DTRN	CMD,6DTRN,20WA6K	DMS TRACK TURNAROUND	4R3	4	0	3,538,584:09:0	
756	96	208	00:58:57.400	488EB6B	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4R3	4	0	3,538,584:30:0	
757	96	208	01:00:00.066	488EB6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4R3	4	0	3,538,585:33:0	
758	96	208	02:11:01.400	488EB6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4R3	4	0	3,538,655:55:0	
759	96	208	02:35:14.733	488EB6E	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4R3	4	0	3,538,679:51:0	
760	96	208	03:03:30.066	488EC6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4R3	4	0	3,538,707:46:0	
761	96	208	03:32:17.333	488EC6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4R3	4	0	3,538,735:89:0	
762	96	208	03:47:00.000	G1NNOPCAL_02-		-----START-----		4R3	4	0	:	
763	96	208	03:47:23.733	31Q4B	37IST	0,0,0,OFF,0,1,1	Gain State 4	4R3	4	0	3,538,750:83:0	
764	96	208	03:48:24.400	31Q4C	37MB	1B,1B,0,0,0,0	Selects mirror (spatial) edit table	4R3	4	0	3,538,751:83:0	
765	96	208	03:49:25.066	31Q4D	37IOP	3,0	Long Map, Grating Start Position =00	4R3	4	0	3,538,752:83:0	
766	96	208	03:49:25.733	31Q4E	37ETB	07,C,7,31,80,00,0	Loads wavelength edit table	4R3	4	0	3,538,752:84:0	
767	96	208	03:50:25.733	31Q4F	37IST	0,2,1,OFF,1,0,1	OPCAL	4R3	4	0	3,538,753:83:0	
768	96	208	03:52:27.066	31Q4G	37IST	0,2,1,OFF,1,0,1	OPCAL	4R3	4	0	3,538,755:83:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
769	96	208	03:54:00.000	G1NNOPCAL_02-		-----STOP-----		4R3	4	0	:	
770	96	208	03:59:04.000	20VD4A	7SLEW	DIS,POS,0,0	Stator movement	4R3	4	0	:	3,538,762:42:0
771	96	208	04:00:37.333	176VJ6A	6TMREC	RPB	RESUME PLAYBACK (PB CONTROL)	4R3	4	0	:	3,538,764:00:0
772	96	208	04:37:00.000	G1N1NCHOPOF02-		-----START-----		4R3	4	0	:	
773	96	208	04:37:56.666	31W4A	37MB	0,0,0,0,0,0	Selects mirror (spatial) edit table	4R3	4	0	:	3,538,800:83:0
774	96	208	04:38:57.333	31W4B	37IOP	0,0	Safe, Grating Start Position =00	4R3	4	0	:	3,538,801:83:0
775	96	208	04:38:58.000	31W4C	37ETB	04,C4,31,FF,FF	Loads wavelength edit table	4R0	4	0	:	3,538,801:84:0
776	96	208	04:39:58.000	31W4D	37IST	0,2,0,OFF,0,1,0	Gain State 2	2R0	4	0	:	3,538,802:83:0
777	96	208	04:40:58.666	31W4E	37IST	1,0,0,OFF,0,0,0	Chopper ON, Sync, 63Hz (Ref)	260	4	0	:	3,538,803:83:0
778	96	208	04:42:03.333	31W6B,	6CKSUM	NIMS	NIMS,1000,14B3	260	4	0	:	3,538,804:89:0
779	96	208	04:42:24.000	31W6C,	6MROH		12 read from LLM1A12,2282,0,A2	260	4	0	:	3,538,805:29:0
780	96	208	05:09:17.333	31W4F	37IST	1,1,0,OFF,0,0,0	Chopper OFF, N/A, 63Hz (Ref)	200	4	0	:	3,538,831:83:0
781	96	208	05:10:00.000	G1N1NCHOPOF02-		-----STOP-----		200	4	0	:	
782	96	208	05:32:50.000	488EC6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	200	4	0	:	3,538,855:18:0
783	96	208	06:06:58.000	488EC6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	200	4	0	:	3,538,888:87:0
784	96	208	06:56:02.000	488EC6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	200	4	0	:	3,538,937:44:0
785	96	208	07:00:05.333	488ED6A	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	200	4	0	:	3,538,941:45:0
786	96	208	07:18:18.000	488ED6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	200	4	0	:	3,538,959:46:0
787	96	208	08:40:34.000	488ED6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	200	4	0	:	3,539,040:79:0
788	96	208	15:08:50.000	488EE6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	200	4	0	:	3,539,424:79:0
789	96	208	17:08:18.000	488EE6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	200	4	0	:	3,539,543:02:0
790	96	208	17:12:42.666	488EE6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	200	4	0	:	3,539,547:35:0
791	96	208	18:35:00.000	488EE6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	200	4	0	:	3,539,628:70:0
792	96	208	18:54:58.000	488EE6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	200	4	0	:	3,539,648:47:0
793	96	208	19:26:58.000	488EF6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	200	4	0	:	3,539,680:15:0
794	96	209	00:53:22.000	488EF6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	200	4	0	:	3,540,002:89:0
795	96	209	01:57:22.000	488EG6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	200	4	0	:	3,540,066:25:0
796	96	209	02:29:22.000	488EG6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	200	4	0	:	3,540,097:84:0
797	96	209	05:24:18.000	488EG6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	200	4	0	:	3,540,270:85:0
798	96	209	05:56:18.000	488EG6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	200	4	0	:	3,540,302:53:0
799	96	209	06:41:06.000	488EG6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	200	4	0	:	3,540,346:81:0
800	96	209	08:40:33.933	488EH6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	200	4	0	:	3,540,465:04:0
801	96	209	15:08:49.933	488EI6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	200	4	0	:	3,540,849:04:0
802	96	209	16:53:21.933	488EI6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	200	4	0	:	3,540,952:39:0
803	96	209	17:45:27.933	488EI6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	200	4	0	:	3,541,003:87:0
804	96	209	17:50:57.933	488EI6D	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	200	4	0	:	3,541,009:36:0
805	96	209	18:30:59.266	488EI6E	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	200	4	0	:	3,541,048:89:0
806	96	209	19:35:29.933	488EJ6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	200	4	0	:	3,541,112:71:0
807	96	209	19:40:18.600	488EJ6B	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	200	4	0	:	3,541,117:49:0
808	96	209	20:17:06.600	488EJ6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	200	4	0	:	3,541,153:85:0
809	96	209	20:39:29.933	488EJ6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	200	4	0	:	3,541,176:07:0
810	96	209	23:23:45.933	488EJ6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	200	4	0	:	3,541,338:49:0
811	96	210	00:43:52.600	488EK6A	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	200	4	0	:	3,541,417:70:0
812	96	210	01:45:56.600	488EK6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	200	4	0	:	3,541,479:14:0
813	96	210	02:10:09.933	488EK6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	200	4	0	:	3,541,503:10:0
814	96	210	02:27:23.933	488EK6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	200	4	0	:	3,541,520:14:0
815	96	210	02:54:42.600	488EK6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	200	4	0	:	3,541,547:15:0
816	96	210	05:22:09.933	488EL6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	200	4	0	:	3,541,693:00:0
817	96	210	06:02:41.933	488EL6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	200	4	0	:	3,541,733:08:0
818	96	210	06:41:05.933	488EL6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	200	4	0	:	3,541,771:06:0
819	96	210	08:40:33.933	488EL6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	200	4	0	:	3,541,889:20:0
820	96	210	14:51:45.866	488EM6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	200	4	0	:	3,542,256:31:0
821	96	210	16:53:21.866	488EM6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	200	4	0	:	3,542,376:55:0
822	96	210	17:41:02.533	488EM6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	200	4	0	:	3,542,423:69:0
823	96	210	17:46:41.866	488EM6D	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	200	4	0	:	3,542,429:32:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
824	96	210	18:25:55.866	488EM6E	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	200	4	0	3,542,468:14:0	
825	96	210	19:26:57.866	488EN6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	200	4	0	3,542,528:47:0	
826	96	211	00:38:25.866	488EN6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	200	4	0	3,542,836:51:0	
827	96	211	01:12:33.866	488EN6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	200	4	0	3,542,870:29:0	
828	96	211	01:44:33.866	488EO6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	200	4	0	3,542,901:88:0	
829	96	211	02:16:33.866	488EO6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	200	4	0	3,542,933:56:0	
830	96	211	05:22:09.866	488EO6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	200	4	0	3,543,117:16:0	
831	96	211	06:02:41.866	488EO6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	200	4	0	3,543,157:24:0	
832	96	211	06:41:05.866	488EO6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	200	4	0	3,543,195:22:0	
833	96	211	08:40:33.866	488EP6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	200	4	0	3,543,313:36:0	
834	96	211	14:51:45.866	488EQ6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	200	4	0	3,543,680:47:0	
835	96	211	16:53:21.866	488EQ6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	200	4	0	3,543,800:71:0	
836	96	211	17:41:01.866	488EQ6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	200	4	0	3,543,847:84:0	
837	96	211	17:46:41.866	488EQ6D	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	200	4	0	3,543,853:48:0	
838	96	211	18:25:53.200	488EQ6E	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	200	4	0	3,543,892:26:0	
839	96	211	19:26:57.800	488ER6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	200	4	0	3,543,952:63:0	
840	96	212	00:38:25.800	488ER6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	200	4	0	3,544,260:67:0	
841	96	212	01:42:25.800	488ES6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	200	4	0	3,544,324:03:0	
842	96	212	02:14:25.800	488ES6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	200	4	0	3,544,355:62:0	
843	96	212	05:17:53.800	488ES6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	200	4	0	3,544,537:12:0	
844	96	212	06:00:33.800	488ES6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	200	4	0	3,544,579:30:0	
845	96	212	06:41:05.800	488ES6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	200	4	0	3,544,619:38:0	
846	96	212	08:40:33.800	488ET6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	200	4	0	3,544,737:52:0	
847	96	212	13:00:01.133	488ET6B	6TMSED	NORM,AH6	Sci, Eng, and D/L Chan	200	4	0	3,544,994:16:0	
848	96	212	13:52:21.133	488ET6C	6TMSED	NORM,AH6	Sci, Eng, and D/L Chan	200	4	0	3,545,045:85:0	
849	96	212	14:36:49.800	488ET6D	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	200	4	0	3,545,089:84:0	
850	96	212	15:12:41.133	488EU6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	200	4	0	3,545,125:35:0	
851	96	212	16:38:25.800	488EU6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	200	4	0	3,545,210:17:0	
852	96	212	17:38:09.800	488EU6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	200	4	0	3,545,269:24:0	
853	96	212	17:52:29.133	488EU6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	200	4	0	3,545,283:39:0	
854	96	212	18:19:49.133	488EU6E	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	200	4	0	3,545,310:42:0	
855	96	212	18:42:09.800	488EV6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	200	4	0	3,545,332:51:0	
856	96	212	19:14:09.800	488EV6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	200	4	0	3,545,364:19:0	
857	96	213	00:38:25.733	488EV6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	200	4	0	3,545,684:83:0	
858	96	213	01:55:13.733	488EW6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	200	4	0	3,545,760:79:0	
859	96	213	02:36:53.066	488EW6B	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	200	4	0	3,545,802:06:0	
860	96	213	02:40:01.733	488EW6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	200	4	0	3,545,805:16:0	
861	96	213	03:07:31.733	488EW6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	200	4	0	3,545,832:34:0	
862	96	213	06:38:57.733	488EW6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	200	4	0	3,546,041:44:0	
863	96	213	08:40:33.733	488EX6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	200	4	0	3,546,161:68:0	
864	96	213	09:11:43.733	488EX6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	200	4	0	3,546,192:52:0	
865	96	213	09:25:23.066	488EX6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	200	4	0	3,546,206:07:0	
866	96	213	14:36:49.733	488EX6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	200	4	0	3,546,514:09:0	
867	96	213	16:38:25.733	488EY6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	200	4	0	3,546,634:33:0	
868	96	213	17:30:23.733	488EY6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	200	4	0	3,546,685:69:0	
869	96	213	17:38:09.733	488EY6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	200	4	0	3,546,693:40:0	
870	96	213	18:19:45.066	488EY6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	200	4	0	3,546,734:52:0	
871	96	213	18:37:53.733	488EY6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	200	4	0	3,546,752:47:0	
872	96	213	19:09:53.733	488EZ6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	200	4	0	3,546,784:15:0	
873	96	213	19:15:45.733	488EZ6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	200	4	0	3,546,789:88:0	
874	96	213	20:01:25.066	488EZ6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	200	4	0	3,546,835:11:0	
875	96	214	00:23:29.733	488EZ6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	200	4	0	3,547,094:29:0	
876	96	214	00:58:39.733	488EZ6E	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	200	4	0	3,547,129:09:0	
877	96	214	01:45:43.733	488FA6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	200	4	0	3,547,175:59:0	
878	96	214	02:25:05.733	488FA6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	200	4	0	3,547,214:53:0	

Line	YR	DOY	SCET - GMT	PSID	Command Parameters	Description	GCM	GO	GS	RIM	MF I
879	96	214	02:32:37.066	488FA6C	6TMSED FILL,AL4	Sci, Eng, and D/L Chan	200	4	0	3,547,222:02:0	
880	96	214	03:02:35.733	488FA6D	6TMSED NORM,AL4	Sci, Eng, and D/L Chan	200	4	0	3,547,251:61:0	
881	96	214	06:38:57.666	488FA6E	6TMSED NORM,AL5	Sci, Eng, and D/L Chan	200	4	0	3,547,465:60:0	
882	96	214	08:40:33.666	488FB6A	6TMSED NORM,AL6	Sci, Eng, and D/L Chan	200	4	0	3,547,585:84:0	
883	96	214	10:06:47.666	488FB6B	6TMSED FILL,AL6	Sci, Eng, and D/L Chan	200	4	0	3,547,671:19:0	
884	96	214	10:20:27.000	488FB6C	6TMSED NORM,AL6	Sci, Eng, and D/L Chan	200	4	0	3,547,684:65:0	
885	96	214	14:21:53.666	488FB6D	6TMSED NORM,AL5	Sci, Eng, and D/L Chan	200	4	0	3,547,923:46:0	
886	96	214	16:38:25.666	488FC6A	6TMSED NORM,AL4	Sci, Eng, and D/L Chan	200	4	0	3,548,058:49:0	
887	96	214	17:29:27.666	488FC6B	6TMSED FILL,AL4	Sci, Eng, and D/L Chan	200	4	0	3,548,109:01:0	
888	96	214	17:36:01.666	488FC6C	6TMSED FILL,AL1	Sci, Eng, and D/L Chan	200	4	0	3,548,115:46:0	
889	96	214	18:10:43.000	488FC6D	6TMSED NORM,AL1	Sci, Eng, and D/L Chan	200	4	0	3,548,149:74:0	
890	96	214	19:20:03.000	488FC6E	6TMSED FILL,AL1	Sci, Eng, and D/L Chan	200	4	0	3,548,218:35:0	
891	96	214	19:20:33.666	488FD6A	6TMSED FILL,AL3	Sci, Eng, and D/L Chan	200	4	0	3,548,218:81:0	
892	96	214	19:57:22.333	488FD6B	6TMSED NORM,AL3	Sci, Eng, and D/L Chan	200	4	0	3,548,255:27:0	
893	96	214	20:01:19.666	31AF6A	6CKSUM NIMS	NIMS;1000,14B3	200	4	0	3,548,259:19:0	
<b>894</b>	<b>96</b>	<b>214</b>	<b>20:01:40.333</b>	<b>31AF6B</b>	<b>6MROH</b>	<b>12 read from LLM1A12,2282,0,A2</b>	<b>200</b>	<b>4</b>	<b>0</b>	<b>3,548,259:50:0</b>	
895	96	214	20:39:29.666	488FD6C	6TMSED NORM,AL4	Sci, Eng, and D/L Chan	200	4	0	3,548,296:87:0	
896	96	214	22:36:49.666	488FD6D	6TMSED NORM,AL3	Sci, Eng, and D/L Chan	200	4	0	3,548,413:00:0	
897	96	215	00:13:36.333	488FD6E	6TMSED FILL,AL3	Sci, Eng, and D/L Chan	200	4	0	3,548,508:65:0	
898	96	215	01:30:40.333	488FE6A	6TMSED NORM,AL3	Sci, Eng, and D/L Chan	200	4	0	3,548,584:85:0	
899	96	215	01:42:25.666	488FE6B	6TMSED NORM,AL4	Sci, Eng, and D/L Chan	200	4	0	3,548,596:51:0	
900	96	215	02:07:40.333	488FE6C	6TMSED FILL,AL4	Sci, Eng, and D/L Chan	200	4	0	3,548,621:48:0	
901	96	215	02:34:58.333	488FE6D	6TMSED NORM,AL4	Sci, Eng, and D/L Chan	200	4	0	3,548,648:48:0	
902	96	215	06:38:57.666	488FE6E	6TMSED NORM,AL5	Sci, Eng, and D/L Chan	200	4	0	3,548,889:76:0	
903	96	215	08:40:33.666	488FF6A	6TMSED NORM,AL6	Sci, Eng, and D/L Chan	200	4	0	3,549,010:09:0	
904	96	215	14:21:53.600	488FF6B	6TMSED NORM,AL5	Sci, Eng, and D/L Chan	200	4	0	3,549,347:62:0	
905	96	215	16:23:29.600	488FG6A	6TMSED NORM,AL4	Sci, Eng, and D/L Chan	200	4	0	3,549,467:86:0	
906	96	215	17:36:01.600	488FG6B	6TMSED NORM,AL2	Sci, Eng, and D/L Chan	200	4	0	3,549,539:62:0	
907	96	215	17:37:19.600	488FG6C	6TMSED FILL,AL2	Sci, Eng, and D/L Chan	200	4	0	3,549,540:88:0	
908	96	215	18:04:38.933	488FG6D	6TMSED NORM,AL2	Sci, Eng, and D/L Chan	200	4	0	3,549,567:90:0	
909	96	215	18:25:05.600	488FG6E	6TMSED NORM,AL3	Sci, Eng, and D/L Chan	200	4	0	3,549,588:19:0	
910	96	215	18:57:05.600	488FH6A	6TMSED NORM,AL4	Sci, Eng, and D/L Chan	200	4	0	3,549,619:78:0	
911	96	216	00:08:33.600	488FH6B	6TMSED NORM,AL3	Sci, Eng, and D/L Chan	200	4	0	3,549,927:82:0	
912	96	216	00:46:57.600	488FH6C	6TMSED NORM,AL2	Sci, Eng, and D/L Chan	200	4	0	3,549,965:80:0	
913	96	216	01:25:21.600	488FI6A	6TMSED NORM,AL3	Sci, Eng, and D/L Chan	200	4	0	3,550,003:78:0	
914	96	216	01:57:21.600	488FI6B	6TMSED NORM,AL4	Sci, Eng, and D/L Chan	200	4	0	3,550,035:46:0	
915	96	216	06:38:57.600	488FI6C	6TMSED NORM,AL5	Sci, Eng, and D/L Chan	200	4	0	3,550,314:01:0	
916	96	216	08:40:33.600	488FJ6A	6TMSED NORM,AL6	Sci, Eng, and D/L Chan	200	4	0	3,550,434:25:0	
917	96	216	14:06:57.600	488FJ6B	6TMSED NORM,AL5	Sci, Eng, and D/L Chan	200	4	0	3,550,757:08:0	
918	96	216	15:54:02.866	176TJ6A	6TMREC PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	200	4	0	3,550,863:00:0	
<b>919</b>	<b>96</b>	<b>216</b>	<b>16:00:00.200</b>	<b>20A3FE</b>	<b>40T1PR Final Condition</b>	<b>PCT Heater 1 OFF (primary relay)</b>	<b>200</b>	<b>4</b>	<b>0</b>	<b>3,550,868:81:0</b>	
920	96	216	16:00:00.200	DMS:	: RUNNING	P7, TRACK 2, REV, TIC 161.86 +/- 1	200	4	0	3,550,868:81:0	
<b>921</b>	<b>96</b>	<b>216</b>	<b>16:00:00.200</b>	<b>20A3EW</b>	<b>Final Condition</b>	<b>NIMS Power ON</b>	<b>200</b>	<b>4</b>	<b>0</b>	<b>3,550,868:81:0</b>	
<b>922</b>	<b>96</b>	<b>216</b>	<b>16:00:00.200</b>	<b>20A3EX</b>	<b>Final Condition</b>	<b>Replacement Heaters OFF</b>	<b>200</b>	<b>4</b>	<b>0</b>	<b>3,550,868:81:0</b>	
<b>923</b>	<b>96</b>	<b>216</b>	<b>16:00:00.200</b>	<b>20A3EY</b>	<b>Final Condition</b>	<b>Optics Heater 1 OFF (primary relay)</b>	<b>200</b>	<b>4</b>	<b>0</b>	<b>3,550,868:81:0</b>	
<b>924</b>	<b>96</b>	<b>216</b>	<b>16:00:00.200</b>	<b>20A3EZ</b>	<b>Final Condition</b>	<b>Optics Heater 2 OFF (primary relay)</b>	<b>200</b>	<b>4</b>	<b>0</b>	<b>3,550,868:81:0</b>	
<b>925</b>	<b>96</b>	<b>216</b>	<b>16:00:00.200</b>	<b>20A3FA</b>	<b>Final Condition</b>	<b>Radiator Flash Heater OFF (primary relay)</b>	<b>200</b>	<b>4</b>	<b>0</b>	<b>3,550,868:81:0</b>	
<b>926</b>	<b>96</b>	<b>216</b>	<b>16:00:00.200</b>	<b>20A3FB</b>	<b>Final Condition</b>	<b>Shield Flash Heater OFF (primary relay)</b>	<b>200</b>	<b>4</b>	<b>0</b>	<b>3,550,868:81:0</b>	
<b>927</b>	<b>96</b>	<b>216</b>	<b>16:00:00.200</b>	<b>20A3FD</b>	<b>Final Condition</b>	<b>RCT Heater OFF (primary relay)</b>	<b>200</b>	<b>4</b>	<b>0</b>	<b>3,550,868:81:0</b>	
<b>928</b>	<b>96</b>	<b>216</b>	<b>16:00:00.200</b>	<b>20A3FF</b>	<b>Final Condition</b>	<b>PCT Heater 2 OFF</b>	<b>200</b>	<b>4</b>	<b>0</b>	<b>3,550,868:81:0</b>	

Sequence:		G01C-AR		Created: 11/2/96		Begin: 96-216/16:00:00		Finish: 96-244/09:59:55				
Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1	96	216	16:00:00.200	20A3EY	37C1PR	Initial Condition	Optics Heater 1 OFF (primary relay)	200	4	0	3,550,868:81:0	
2	96	216	16:00:00.200	20A3EZ	37C2PR	Initial Condition	Optics Heater 2 OFF (primary relay)	200	4	0	3,550,868:81:0	
3	96	216	16:00:00.200	20A3FA	37F1PR	Initial Condition	Radiator Flash Heater OFF (primary relay)	200	4	0	3,550,868:81:0	
4	96	216	16:00:00.200	20A3FB	37F2PR	Initial Condition	Shield Flash Heater OFF (primary relay)	200	4	0	3,550,868:81:0	
5	96	216	16:00:00.200	20A3FD	40HRPR	Initial Condition	RCT Heater OFF (primary relay)	200	4	0	3,550,868:81:0	
6	96	216	16:00:00.200	20A3FE	40T1P	Initial Condition	PCT Heater 1 ON (primary relay)	200	4	0	3,550,868:81:0	
7	96	216	16:00:00.200	20A3FF	40T2	Initial Condition	PCT Heater 2 ON	200	4	0	3,550,868:81:0	
8	96	216	16:00:00.200	20A3EX	37HR	Initial Condition	Replacement Heaters OFF	200	4	0	3,550,868:81:0	
9	96	216	16:00:00.200		DMS:	: READY	RDY, TRACK 3, FWD, TIC 290.00 +/-	200	4	0	3,550,868:81:0	
10	96	216	16:00:00.200	31W4F	37IST	Initial Condition	Chopper OFF, N/A, 63Hz (Ref)Gain State 2	200	4	0	3,550,868:81:0	
11	96	216	16:00:00.200	31W4B	37IOP	Initial Condition	Safe, Grating Start Position =00	200	4	0	3,550,868:81:0	
12	96	216	16:00:00.200	20A3EW	37A	Initial Condition	NIMS Power ON	200	4	0	3,550,868:81:0	
13	96	216	16:00:00.200	20AEEV	37IST	Initial Condition		200	4	0	3,550,868:81:0	
14	96	216	16:01:00.200	432WE6A	6RTSL2	NIMNCG,AACNCG,RT	R/T ENG SELECT	200	4	0	3,550,869:80:0	
15	96	216	16:02:09.533	488AA6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	200	4	0	3,550,871:02:0	
16	96	216	16:03:04.200	20US4A	7SLEW	DIS,POS,0.0	Stator movement	200	4	0	3,550,871:84:0	
17	96	216	16:04:09.533	176TK6A	6TMREC	RPB	RESUME PLAYBACK (PB CONTROL) Record Mode	200	4	0	3,550,873:00:0	
18	96	216	17:08:17.533	488AA6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	200	4	0	3,550,936:39:0	
19	96	216	17:28:30.200	488AA6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	200	4	0	3,550,956:38:0	
20	96	216	18:00:34.866	488AA6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	200	4	0	3,550,988:13:0	
21	96	216	18:12:17.533	488AA6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	200	4	0	3,550,999:66:0	
22	96	216	20:24:33.533	488AB6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	200	4	0	3,551,130:49:0	
23	96	216	22:51:45.533	488AB6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	200	4	0	3,551,276:11:0	
24	96	216	23:00:00.866	488AB6C	6TMSED	NORM,AH3	Sci, Eng, and D/L Chan	200	4	0	3,551,284:26:0	
25	96	216	23:52:20.866	488AB6D	6TMSED	NORM,AH3	Sci, Eng, and D/L Chan	200	4	0	3,551,336:04:0	
26	96	217	01:12:40.866	488AB6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	200	4	0	3,551,415:45:0	
27	96	217	01:25:21.533	488AC6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	200	4	0	3,551,428:03:0	
28	96	217	02:22:47.533	488AC6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	200	4	0	3,551,484:76:0	
29	96	217	02:52:45.533	488AC6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	200	4	0	3,551,514:43:0	
30	96	217	04:53:36.866	176LZ6A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	200	4	0	3,551,634:00:0	
31	96	217	04:55:42.134	G1NNSHDOFF02-		-----START-----		200	4	0	:	:
32	96	217	04:56:45.533	20EB4A	7SAFE	UNSTOW	S/P TO 153 deg cone	200	4	0	3,551,637:10:0	
33	96	217	05:00:49.533	20UB4A	7SLEW	DIS,POS,0.0	Stator movement	200	4	0	3,551,641:12:0	
34	96	217	05:02:42.866	176LD6A	6TMREC	RPB	RESUME PLAYBACK (PB CONTROL) Record Mode	200	4	0	3,551,643:00:0	
35	96	217	05:04:48.200	20DB3A	37F2PR		1 Shield Flash Heater OFF (primary relay)	200	4	0	3,551,645:06:0	
36	96	217	05:04:52.200	20DB3B	37F2PR		2 Shield Flash Heater OFF (primary relay)	200	4	0	3,551,645:12:0	
37	96	217	05:04:58.200	20DB3C	40T1P		1 PCT Heater 1 ON (primary relay)	200	4	0	3,551,645:21:0	
38	96	217	05:05:02.200	20DB3D	40T1P		2 PCT Heater 1 ON (primary relay)	200	4	0	3,551,645:27:0	
39	96	217	05:05:08.200	20DB3E	40T2		1 PCT Heater 2 ON	200	4	0	3,551,645:36:0	
40	96	217	05:05:12.200	20DB3F	40T2		2 PCT Heater 2 ON	200	4	0	3,551,645:42:0	
41	96	217	06:24:01.533	488AC6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	200	4	0	3,551,723:38:0	
42	96	217	09:51:57.533	488AD6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	200	4	0	3,551,929:06:0	
43	96	217	10:05:36.866	488AD6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	200	4	0	3,551,942:52:0	
44	96	217	16:06:25.533	488AE6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	200	4	0	3,552,299:38:0	
45	96	217	17:08:17.533	488AE6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	200	4	0	3,552,360:55:0	
46	96	217	17:17:11.533	488AE6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	200	4	0	3,552,369:37:0	
47	96	217	17:44:30.866	488AE6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	200	4	0	3,552,396:39:0	
48	96	217	18:12:17.533	488AE6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	200	4	0	3,552,423:82:0	
49	96	217	18:44:17.533	488AF6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	200	4	0	3,552,455:50:0	
50	96	217	19:12:50.200	488AF6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	200	4	0	3,552,483:71:0	
51	96	217	19:42:48.800	488AF6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	200	4	0	3,552,513:39:0	
52	96	218	00:21:21.466	488AF6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	200	4	0	3,552,788:83:0	
53	96	218	01:25:21.466	488AG6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	200	4	0	3,552,852:19:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
54	96	218	01:52:51.466	488AG6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	200	4	0	3,552,879:37:0	
55	96	218	02:16:33.466	488AG6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	200	4	0	3,552,902:77:0	
56	96	218	02:19:01.466	488AG6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	200	4	0	3,552,905:26:0	
57	96	218	04:48:22.800	176SF6A	6TMREC	PPB	<b>PAUSE PLAYBACK (PB CONTROL) Record Mode C</b>	200	4	0	3,553,053:00:0	
58	96	218	04:50:00.133	41SH99A	<b>POWER</b>	<b>PWR MODE change</b>	<b>Change to Maneuver Mode</b>	200	4	0	3,553,054:55:0	
59	96	218	04:50:04.133	41SH3K	37F2PR		1 Shield Flash Heater OFF (primary relay)	200	4	0	3,553,054:61:0	
60	96	218	04:50:14.133	41SH3L	37F2PR		2 Shield Flash Heater OFF (primary relay)	200	4	0	3,553,054:76:0	
61	96	218	04:52:24.133	41SH3G	40T1P		1 PCT Heater 1 ON (primary relay)	200	4	0	3,553,056:89:0	
62	96	218	04:52:34.133	41SH3H	40T1P		2 PCT Heater 1 ON (primary relay)	200	4	0	3,553,057:13:0	
63	96	218	04:52:44.133	41SH3J	40T2		1 PCT Heater 2 ON	200	4	0	3,553,057:28:0	
64	96	218	04:52:54.133	41SH3I	40T2		2 PCT Heater 2 ON	200	4	0	3,553,057:43:0	
65	96	218	04:53:00.133	488AG6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	200	4	0	3,553,057:52:0	
66	96	218	05:01:20.133	20UG4B	7SAFE	UNSTOW	<b>S/P TO 153 deg cone</b>	200	4	0	3,553,065:74:0	
67	96	218	05:07:00.133	20UG6A	6MROH	7,73C0,0,A10	read from AACSA7,73C0,0,A10	200	4	0	3,553,071:38:0	
68	96	218	05:08:20.133	20UG6B	6MROH	7,73C0,0,A10	read from AACSA7,73C0,0,A10	200	4	0	3,553,072:67:0	
69	96	218	05:20:20.133	20UG4D	7MODE	INT	<b>AACS INERTIAL MODE</b>	200	4	0	3,553,084:55:0	
70	96	218	06:34:41.466	488AH6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	200	4	0	3,553,158:13:0	
71	96	218	07:38:41.466	488AH6B	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	200	4	0	3,553,221:40:0	
72	96	218	07:56:00.133	20UG6C	6MROH	7,73C0,0,A10	read from AACSA7,73C0,0,A10	200	4	0	3,553,238:51:0	
73	96	218	07:57:20.133	20UG6D	6MROH	7,73C0,0,A10	read from AACSA7,73C0,0,A10	200	4	0	3,553,239:80:0	
74	96	218	08:02:00.133	20A4B	7STAT	17,45,110,451,15	Stator inertial point	200	4	0	3,553,244:45:0	
75	96	218	08:11:02.133	468A412A4B	7MODE	INT	<b>AACS INERTIAL MODE</b>	200	4	0	3,553,253:39:0	
76	96	218	08:16:00.133	468A412A4D	7SAFE	UNSTOW	<b>S/P TO 153 deg cone</b>	200	4	0	3,553,258:31:0	
77	96	218	08:20:10.133	468A412A4E	7VECT		Inert vect update UTC	200	4	0	3,553,262:42:0	
78	96	218	08:20:14.133	468A412A4F	7TURN	1,MVR	ALERT Thruster	200	4	0	3,553,262:48:0	
79	96	218	08:31:08.800	468A416A4B	7SAFE	UNSTOW	<b>S/P TO 153 deg cone</b>	200	4	0	3,553,273:29:0	
80	96	218	08:35:22.800	468A416A4C	7BURN	98,231798,-7,844	ALERT -- Thruster fire	200	4	0	3,553,277:46:0	
81	96	218	10:29:16.133	468A416A4I	7BURN	98,231798,-7,844	ALERT -- Thruster fire	200	4	0	3,553,390:13:0	
82	96	218	12:06:38.133	468A412B4B	7MODE	INT	<b>AACS INERTIAL MODE</b>	200	4	0	3,553,486:40:0	
83	96	218	12:11:36.133	468A412B4D	7SAFE	UNSTOW	<b>S/P TO 153 deg cone</b>	200	4	0	3,553,491:32:0	
84	96	218	12:15:50.133	468A412B4E	7TURN	1,RTH	ALERT Thruster	200	4	0	3,553,495:49:0	
85	96	218	13:20:58.133	468A412B4L	7MODE	CRU	<b>AACS CRUISE MODE</b>	200	4	0	3,553,559:87:0	
86	96	218	16:00:00.133	488A16A	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	200	4	0	3,553,717:22:0	
87	96	218	16:00:00.133	444UA443A4A	7MODE	CRU	<b>AACS CRUISE MODE</b>	200	4	0	3,553,717:22:0	
88	96	218	16:06:25.466	488A16B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	200	4	0	3,553,723:54:0	
89	96	218	16:15:00.133	41SQ99A	<b>POWER</b>	<b>PWR MODE change</b>	<b>Change to Playback Mode</b>	200	4	0	3,553,732:07:0	
90	96	218	16:15:04.133	41SQ3I	40T1PR		1 PCT Heater 1 OFF (primary relay)	200	4	0	3,553,732:13:0	
91	96	218	16:15:14.133	41SQ3J	40T1PR		2 PCT Heater 1 OFF (primary relay)	200	4	0	3,553,732:28:0	
92	96	218	16:15:24.133	41SQ3K	40T2R		1 PCT Heater 2 OFF	200	4	0	3,553,732:43:0	
93	96	218	16:15:34.133	41SQ3L	40T2R		2 PCT Heater 2 OFF	200	4	0	3,553,732:58:0	
94	96	218	16:17:44.133	41SQ3G	37F2P		1 Shield Flash Heater ON (primary relay)	200	4	0	3,553,734:71:0	
95	96	218	16:17:54.133	41SQ3H	37F2P		2 Shield Flash Heater ON (primary relay)	200	4	0	3,553,734:86:0	
96	96	218	16:25:34.133	20UM4A	7SLEW	DIS,POS,0.0	Stator movement	200	4	0	3,553,742:48:0	
97	96	218	16:26:02.800	176SG6A	6TMREC	RPB	<b>RESUME PLAYBACK (PB CONTROL) Record Mode</b>	200	4	0	3,553,743:00:0	
98	96	218	16:28:00.133	20DD3A	37F2PR		1 Shield Flash Heater OFF (primary relay)	200	4	0	3,553,744:85:0	
99	96	218	16:28:04.133	20DD3B	37F2PR		2 Shield Flash Heater OFF (primary relay)	200	4	0	3,553,745:00:0	
100	96	218	16:28:10.133	20DD3C	40T1P		1 PCT Heater 1 ON (primary relay)	200	4	0	3,553,745:09:0	
101	96	218	16:28:14.133	20DD3D	40T1P		2 PCT Heater 1 ON (primary relay)	200	4	0	3,553,745:15:0	
102	96	218	16:28:20.133	20DD3E	40T2		1 PCT Heater 2 ON	200	4	0	3,553,745:24:0	
103	96	218	16:28:24.133	20DD3F	40T2		2 PCT Heater 2 ON	200	4	0	3,553,745:30:0	
104	96	218	16:38:25.466	488A16C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	200	4	0	3,553,755:22:0	
105	96	218	17:10:25.466	488A16D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	200	4	0	3,553,786:81:0	
106	96	218	17:12:08.133	488A16E	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	200	4	0	3,553,788:53:0	
107	96	218	17:39:28.133	488A16A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	200	4	0	3,553,815:56:0	
108	96	218	17:50:02.133	41TE99A	<b>POWER</b>	<b>PWR MODE change</b>	<b>Change to Calib/Decon Mode</b>	200	4	0	3,553,826:06:0	



Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
109	96	218	17:50:02.134	G1NNRCTRLT02-		-----START-----		200	4	0	:	:
110	96	218	17:50:02.134	G1NNSHDOFF02-		-----STOP-----		200	4	0	:	:
111	96	218	17:50:06.133	41TE3G	37F2PR		1 Shield Flash Heater OFF (primary relay)	200	4	0	3,553,826:12:0	
112	96	218	17:50:16.133	41TE3H	37F2PR		2 Shield Flash Heater OFF (primary relay)	200	4	0	3,553,826:27:0	
113	96	218	17:50:26.133	41TE3I	40T1PR		1 PCT Heater 1 OFF (primary relay)	200	4	0	3,553,826:42:0	
114	96	218	17:50:36.133	41TE3J	40T1PR		2 PCT Heater 1 OFF (primary relay)	200	4	0	3,553,826:57:0	
115	96	218	17:50:46.133	41TE3K	40T2R		1 PCT Heater 2 OFF	200	4	0	3,553,826:72:0	
116	96	218	17:50:56.133	41TE3L	40T2R		2 PCT Heater 2 OFF	200	4	0	3,553,826:87:0	
117	96	218	18:00:04.800	185XG10A3A	40HRP		1 RCT Heater ON (primary relay)	200	4	0	3,553,836:00:0	
118	96	218	18:14:25.466	488AJ6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	200	4	0	3,553,850:17:0	
119	96	218	18:46:25.466	488AJ6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	200	4	0	3,553,881:76:0	
120	96	218	19:07:53.466	488AJ6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	200	4	0	3,553,903:06:0	
121	96	218	19:37:51.466	488AJ6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	200	4	0	3,553,932:64:0	
122	96	219	00:21:21.466	488AK6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	200	4	0	3,554,213:08:0	
123	96	219	00:55:29.400	488AK6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	200	4	0	3,554,246:77:0	
124	96	219	01:47:54.066	488AK6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	200	4	0	3,554,298:62:0	
125	96	219	02:10:09.400	488AK6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	200	4	0	3,554,320:63:0	
126	96	219	02:13:35.400	488AK6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	200	4	0	3,554,324:08:0	
127	96	219	03:52:24.066	488AL6A	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	200	4	0	3,554,421:74:0	
128	96	219	03:56:49.400	488AL6B	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	200	4	0	3,554,426:17:0	
129	96	219	04:40:25.400	488AL6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	200	4	0	3,554,469:28:0	
130	96	219	04:54:25.400	488AL6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	200	4	0	3,554,483:14:0	
131	96	219	05:09:21.400	125XG	NIMSINIT	GS	##### GROUP START INIT	200	4	0	3,554,497:84:0	
132	96	219	05:09:21.400	125XG4A	37IST	1,0,0,OFF,0,0,0	Chopper ON, Sync, 63Hz (Ref)	260	4	0	3,554,497:84:0	
133	96	219	05:10:22.066	125XG4B	37IST	1,2,0,OFF,0,0,0	Chopper ON, Sync, Chopper (Ref)	2R0	4	0	3,554,498:84:0	
134	96	219	05:11:22.733	125XG4C	37IST	0,2,0,OFF,0,1,3	Gain State 1	1R0	4	0	3,554,499:84:0	
135	96	219	05:12:23.400	125XG11A	NIMSINIT	GE	##### GROUP END INIT	1R0	4	0	3,554,500:84:0	
136	96	219	05:12:23.400	125XG4D	37MB	1B,1B,0,0,0,0	Selects mirror (spatial) edit table	1R0	4	0	3,554,500:84:0	
137	96	219	05:17:26.733	127XG	NIMSTAB	GS	%%%%% GROUP START TAB	1R0	4	0	3,554,505:84:0	
138	96	219	05:17:26.733	127XG4A	37IOP	3,0	Long Map, Grating Start Position =00	1R3	4	0	3,554,505:84:0	
139	96	219	05:17:27.400	127XG4B	37ETB	0A,CA,18,03,FF,1	Loads wavelength edit table	1R3	4	0	3,554,505:85:0	
140	96	219	05:17:35.400	127XG11A	NIMSTAB	GE	%%%%% GROUP END TAB	1R3	4	0	3,554,506:06:0	
141	96	219	05:26:25.400	488AL6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1R3	4	0	3,554,514:73:0	
142	96	219	06:01:00.066	176XG6A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	1R3	4	0	3,554,549:00:0	
143	96	219	06:06:03.400	192XG4A	7CONE	17,0,119,7	Check S/P Position	1R3	4	0	3,554,554:00:0	
144	96	219	06:08:24.733	432XG6A	6RTSL2	NIMSEL,AACNCG,RT	NIMS R/T SELECT	1R3	4	0	3,554,556:30:0	
145	96	219	06:09:24.066	432XH6A	6RTDS2	NIMDSL,AACNCG,RT	NIMS R/T DESELECT	1R3	4	0	3,554,557:28:0	
146	96	219	06:12:07.400	192XG4B	7CONE	17,0,0,0	Check S/P Position	1R3	4	0	3,554,560:00:0	
147	96	219	06:14:28.733	432X16A	6RTSL2	NIMSEL,AACNCG,RT	NIMS R/T SELECT	1R3	4	0	3,554,562:30:0	
148	96	219	06:16:28.733	432YE6A	6RTDS2	NIMDSL,AACNCG,RT	NIMS R/T DESELECT	1R3	4	0	3,554,564:28:0	
149	96	219	06:18:11.400	192XG4C	7CONE	17,0,119,7	Check S/P Position	1R3	4	0	3,554,566:00:0	
150	96	219	06:20:32.733	432YF6A	6RTSL2	NIMSEL,AACNCG,RT	NIMS R/T SELECT	1R3	4	0	3,554,568:30:0	
151	96	219	06:21:32.066	432ZE6A	6RTDS2	NIMDSL,AACNCG,RT	NIMS R/T DESELECT	1R3	4	0	3,554,569:28:0	
152	96	219	06:23:10.066	127XH4A	37IOP	0,0	Safe, Grating Start Position =00	1R0	4	0	3,554,570:84:0	
153	96	219	06:23:10.066	127XH4B	NIMSTAB	GS	%%%%% GROUP START TAB	1R0	4	0	3,554,570:84:0	
154	96	219	06:23:10.733	127XH4B	37ETB	04,C4,02,00,00	Loads wavelength edit table	1R0	4	0	3,554,570:85:0	
155	96	219	06:23:14.733	185XG10B3A	40HRP		1 RCT Heater OFF (primary relay)	1R0	4	0	3,554,571:00:0	
156	96	219	06:23:18.733	127XH11A	NIMSTAB	GE	%%%%% GROUP END TAB	1R0	4	0	3,554,571:06:0	
157	96	219	06:24:01.400	488AM6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1R0	4	0	3,554,571:70:0	
158	96	219	06:24:15.400	192XG4D	7CONE	17,0,153,0	Check S/P Position	1R0	4	0	3,554,572:00:0	
159	96	219	06:25:11.400	125XH4A	37MB	0,0,0,0,0,0	Selects mirror (spatial) edit table	1R0	4	0	3,554,572:84:0	
160	96	219	06:25:11.400	125XH	NIMSINIT	GS	##### GROUP START INIT	1R0	4	0	3,554,572:84:0	
161	96	219	06:26:12.066	125XH4B	37IST	1,0,0,OFF,0,0,0	Chopper ON, Sync, 63Hz (Ref)	160	4	0	3,554,573:84:0	
162	96	219	06:27:12.733	125XH4C	37IST	1,1,0,OFF,0,0,0	Chopper OFF, N/A, 63Hz (Ref)	100	4	0	3,554,574:84:0	
163	96	219	06:27:12.733	125XH11A	NIMSINIT	GE	##### GROUP END INIT	100	4	0	3,554,574:84:0	



Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
164	96	219	06:28:22.066	41TF99A	POWER		Change to Playback Mode	100	4	0	3,554,576:06:0	
165	96	219	06:28:26.066	41TF31	40T1PR	PWR MODE change	1 PCT Heater 1 OFF (primary relay)	100	4	0	3,554,576:12:0	
166	96	219	06:28:36.066	41TF3J	40T1PR		2 PCT Heater 1 OFF (primary relay)	100	4	0	3,554,576:27:0	
167	96	219	06:28:46.066	41TF3K	40T2R		1 PCT Heater 2 OFF	100	4	0	3,554,576:42:0	
168	96	219	06:28:56.066	41TF3L	40T2R		2 PCT Heater 2 OFF	100	4	0	3,554,576:57:0	
169	96	219	06:31:06.066	41TF3G	37F2P		1 Shield Flash Heater ON (primary relay)	100	4	0	3,554,578:70:0	
170	96	219	06:31:16.066	41TF3H	37F2P		2 Shield Flash Heater ON (primary relay)	100	4	0	3,554,578:85:0	
171	96	219	06:45:37.400	20UC4A	7SLEW	DIS,POS,0.0	Stator movement	100	4	0	3,554,593:12:0	
172	96	219	06:47:30.733	176XH6A	6TMREC	RPB	RESUME PLAYBACK (PB CONTROL) Record Mode	100	4	0	3,554,595:00:0	
173	96	219	06:48:35.466	G1NNRCTRLT02-		-----STOP-----		100	4	0	:	
174	96	219	16:51:29.400	488AN6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	100	4	0	3,555,133:00:0	
175	96	219	16:51:13.400	488AN6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,555,192:07:0	
176	96	219	17:03:19.400	488AN6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	100	4	0	3,555,204:04:0	
177	96	219	17:40:23.400	488AN6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,555,240:64:0	
178	96	219	17:55:13.400	488AN6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,555,255:34:0	
179	96	219	20:24:33.400	488AO6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	100	4	0	3,555,403:06:0	
180	96	219	22:21:53.400	488AO6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,555,519:10:0	
181	96	220	00:36:17.400	488AO6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3,555,652:03:0	
182	96	220	01:08:17.400	488AO6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,555,683:62:0	
183	96	220	01:40:17.400	488AO6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,555,715:30:0	
184	96	220	02:07:58.066	488AP6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	100	4	0	3,555,742:64:0	
185	96	220	02:37:56.733	488AP6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,555,772:32:0	
186	96	220	05:39:13.333	488AP6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	100	4	0	3,555,951:58:0	
187	96	220	06:24:01.333	488AP6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	100	4	0	3,555,995:86:0	
188	96	220	09:42:09.333	488AQ6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	100	4	0	3,556,191:82:0	
189	96	220	09:55:48.666	488AQ6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	100	4	0	3,556,205:37:0	
190	96	220	09:57:25.333	176SH6A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	100	4	0	3,556,207:00:0	
191	96	220	09:59:00.000	488AQ6C	6TMSED	NORM,BA6	Sci, Eng, and D/L Chan	100	4	0	3,556,208:51:0	
192	96	220	10:03:00.000	20UA4F	7SAFE	UNSTOW	S/P TO 153 deg cone	100	4	0	3,556,212:47:0	
193	96	220	10:07:00.000	20UA4G	7STAT	17.45:0.0:90.0	Stator inertial point	100	4	0	3,556,216:43:0	
194	96	220	13:59:04.000	20UN4A	7SLEW	DIS,POS,0.0	Stator movement	100	4	0	3,556,445:90:0	
195	96	220	14:00:05.333	176S16A	6TMREC	RPB	RESUME PLAYBACK (PB CONTROL) Record Mode	100	4	0	3,556,447:00:0	
196	96	220	14:01:00.000	488AQ6D	6TMSED	NORM,BL6	Sci, Eng, and D/L Chan	100	4	0	3,556,447:82:0	
197	96	220	14:02:00.000	488AQ6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	100	4	0	3,556,448:81:0	
198	96	220	15:51:29.333	488AR6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	100	4	0	3,556,557:16:0	
199	96	220	16:51:13.333	488AR6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3,556,616:23:0	
200	96	220	16:57:00.666	488AR6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	100	4	0	3,556,621:89:0	
201	96	220	17:24:20.000	488AR6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3,556,649:00:0	
202	96	220	17:55:13.333	488AR6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,556,679:50:0	
203	96	220	20:24:33.333	488AS6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	100	4	0	3,556,827:22:0	
204	96	220	22:06:57.333	488AS6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,556,928:47:0	
205	96	221	00:55:29.333	488AS6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,557,095:18:0	
206	96	221	02:10:09.333	488AS6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	100	4	0	3,557,169:04:0	
207	96	221	04:30:01.333	488AT6A	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	100	4	0	3,557,307:34:0	
208	96	221	05:22:21.333	488AT6B	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	100	4	0	3,557,359:12:0	
209	96	221	06:34:41.333	488AT6C	6TMSED	NORM,AH6	Sci, Eng, and D/L Chan	100	4	0	3,557,430:61:0	
210	96	221	06:42:41.333	488AT6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	100	4	0	3,557,438:53:0	
211	96	221	15:36:33.266	488AU6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	100	4	0	3,557,966:53:0	
212	96	221	16:36:17.266	488AU6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,558,025:60:0	
213	96	221	17:04:50.600	488AU6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	100	4	0	3,558,053:82:0	
214	96	221	17:12:33.266	488AU6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	100	4	0	3,558,061:48:0	
215	96	221	17:24:15.933	488AU6E	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3,558,073:10:0	
216	96	221	17:44:33.266	488AV6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,558,093:16:0	
217	96	221	18:16:33.266	488AV6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,558,124:75:0	
218	96	221	20:24:33.266	488AV6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	100	4	0	3,558,251:38:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
219	96	221	21:52:01.266	488AW6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,558,337:84:0	
220	96	222	00:25:37.266	488AW6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,558,489:76:0	
221	96	222	01:04:01.266	488AW6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,558,527:74:0	
222	96	222	02:00:49.933	176SJ6A	6TMREC	PPB	<b>PAUSE PLAYBACK (PB CONTROL) Record Mode C</b>	100	4	0	3,558,584:00:0	
223	96	222	02:01:59.933	41SI99A	<b>POWER</b>	<b>PWR MODE change</b>	<b>Change to Maneuver Mode</b>	100	4	0	3,558,585:20:0	
224	96	222	02:02:03.933	41SI3K	37F2PR		1 Shield Flash Heater OFF (primary relay)	100	4	0	3,558,585:20:0	
225	96	222	02:02:13.933	41SI3L	37F2PR		2 Shield Flash Heater OFF (primary relay)	100	4	0	3,558,585:35:0	
226	96	222	02:03:05.933	488AW6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	100	4	0	3,558,586:22:0	
227	96	222	02:04:23.933	41SI3G	40T1P		1 PCT Heater 1 ON (primary relay)	100	4	0	3,558,587:48:0	
228	96	222	02:04:33.933	41SI3H	40T1P		2 PCT Heater 1 ON (primary relay)	100	4	0	3,558,587:63:0	
229	96	222	02:04:43.933	41SI3I	40T2		1 PCT Heater 2 ON	100	4	0	3,558,587:78:0	
230	96	222	02:04:53.933	41SI3J	40T2		2 PCT Heater 2 ON	100	4	0	3,558,588:02:0	
231	96	222	02:04:59.933	488AW6D	6TMSED	FILL, AH4	Sci, Eng, and D/L Chan	100	4	0	3,558,588:11:0	
232	96	222	02:13:59.933	20UD4B	7SLEW	DIS,POS,0.0	Stator movement	100	4	0	3,558,597:02:0	
233	96	222	02:14:59.933	20UD4D	7MODE	SPNL	<b>AACS ALL-SPIN LOW</b>	100	4	0	3,558,598:01:0	
234	96	222	02:16:59.933	20UD4E	7SAFE	UNSTOW	<b>S/P TO 153 deg cone</b>	100	4	0	3,558,599:90:0	
235	96	222	02:22:29.933	20UD4G	7VENT	0.611,1.333,8	ALERT -- Thruster fire	100	4	0	3,558,605:39:0	
236	96	222	02:22:30.600	20UD4H	7VENT	0.611,10.989,8	ALERT -- Thruster fire	100	4	0	3,558,605:40:0	
237	96	222	02:22:50.600	20UD4I	7VENT	0.611,1.333,6	ALERT -- Thruster fire	100	4	0	3,558,605:70:0	
238	96	222	02:22:51.266	20UD4J	7VENT	0.611,10.989,6	ALERT -- Thruster fire	100	4	0	3,558,605:71:0	
239	96	222	02:23:11.266	20UD4K	7VENT	0.611,1.333,4	ALERT -- Thruster fire	100	4	0	3,558,606:10:0	
240	96	222	02:23:11.933	20UD4L	7VENT	0.611,0.666,5	ALERT -- Thruster fire	100	4	0	3,558,606:11:0	
241	96	222	02:23:21.933	20UD4M	7VENT	0.611,1.333,4	ALERT -- Thruster fire	100	4	0	3,558,606:26:0	
242	96	222	02:23:22.600	20UD4N	7VENT	0.611,0.666,5	ALERT -- Thruster fire	100	4	0	3,558,606:27:0	
243	96	222	02:23:32.600	20UD4O	7VENT	1.211,1.333,10	ALERT -- Thruster fire	100	4	0	3,558,606:42:0	
244	96	222	02:23:33.266	20UD4P	7VENT	1.211,0.666,12	ALERT -- Thruster fire	100	4	0	3,558,606:43:0	
245	96	222	02:25:19.933	20UD4S	7VENT	0.611,1.333,7	ALERT -- Thruster fire	100	4	0	3,558,608:21:0	
246	96	222	02:25:20.600	20UD4T	7VENT	0.611,10.989,7	ALERT -- Thruster fire	100	4	0	3,558,608:22:0	
247	96	222	02:25:40.600	20UD4U	7VENT	0.611,1.333,1	ALERT -- Thruster fire	100	4	0	3,558,608:52:0	
248	96	222	02:25:41.266	20UD4V	7VENT	0.611,10.989,1	ALERT -- Thruster fire	100	4	0	3,558,608:53:0	
249	96	222	02:26:01.266	20UD4AC	7VENT	0.611,1.333,2	ALERT -- Thruster fire	100	4	0	3,558,608:83:0	
250	96	222	02:26:01.933	20UD4AD	7VENT	0.611,0.666,3	ALERT -- Thruster fire	100	4	0	3,558,608:84:0	
251	96	222	02:26:11.933	20UD4AE	7VENT	0.611,1.333,2	ALERT -- Thruster fire	100	4	0	3,558,609:08:0	
252	96	222	02:26:12.600	20UD4AF	7VENT	0.611,0.666,3	ALERT -- Thruster fire	100	4	0	3,558,609:09:0	
253	96	222	02:26:22.600	20UD4W	7VENT	1.211,1.333,9	ALERT -- Thruster fire	100	4	0	3,558,609:24:0	
254	96	222	02:26:23.266	20UD4X	7VENT	1.211,0.666,11	ALERT -- Thruster fire	100	4	0	3,558,609:25:0	
255	96	222	02:27:19.933	20UD4Z	7MODE	CRU	<b>AACS CRUISE MODE</b>	100	4	0	3,558,610:19:0	
256	96	222	02:33:04.600	488AW6E	6TMSED	NORM, AH4	Sci, Eng, and D/L Chan	100	4	0	3,558,615:81:0	
257	96	222	02:51:59.933	41SR99A	<b>POWER</b>	<b>PWR MODE change</b>	<b>Change to Playback Mode</b>	100	4	0	3,558,634:55:0	
258	96	222	02:52:03.933	41SR3I	40T1PR		1 PCT Heater 1 OFF (primary relay)	100	4	0	3,558,634:61:0	
259	96	222	02:52:13.933	41SR3J	40T1PR		2 PCT Heater 1 OFF (primary relay)	100	4	0	3,558,634:76:0	
260	96	222	02:52:23.933	41SR3K	40T2R		1 PCT Heater 2 OFF	100	4	0	3,558,635:00:0	
261	96	222	02:52:33.933	41SR3L	40T2R		2 PCT Heater 2 OFF	100	4	0	3,558,635:15:0	
262	96	222	02:54:43.933	41SR3G	37F2P		1 Shield Flash Heater ON (primary relay)	100	4	0	3,558,637:28:0	
263	96	222	02:54:53.933	41SR3H	37F2P		2 Shield Flash Heater ON (primary relay)	100	4	0	3,558,637:43:0	
264	96	222	03:02:03.933	20UO4A	7SLEW	DIS,POS,0.0	Stator movement	100	4	0	3,558,644:51:0	
265	96	222	03:03:31.266	176SK6A	6TMREC	RPB	<b>RESUME PLAYBACK (PB CONTROL) Record Mode</b>	100	4	0	3,558,646:00:0	
266	96	222	04:12:59.933	488AX6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,558,714:65:0	
267	96	222	05:24:17.266	488AX6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	100	4	0	3,558,785:20:0	
268	96	222	06:09:05.266	488AX6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	100	4	0	3,558,829:48:0	
269	96	222	07:59:00.000	G1NNPCTRLT01-		-----START-----		100	4	0	:	
270	96	222	08:00:06.600	20EM3A	37F2PR		1 Shield Flash Heater OFF (primary relay)	100	4	0	3,558,939:30:0	
271	96	222	08:00:10.600	20EM3B	37F2PR		2 Shield Flash Heater OFF (primary relay)	100	4	0	3,558,939:36:0	
272	96	222	08:00:16.600	20EM3C	40T1P		1 PCT Heater 1 ON (primary relay)	100	4	0	3,558,939:45:0	
273	96	222	08:00:20.600	20EM3D	40T1P		2 PCT Heater 1 ON (primary relay)	100	4	0	3,558,939:51:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
274	96	222	08:00:26.600	20EM3E	40T2		1 PCT Heater 2 ON	100	4	0	3,558,939	60:0
275	96	222	08:00:30.600	20EM3F	40T2		2 PCT Heater 2 ON	100	4	0	3,558,939	66:0
276	96	222	09:32:17.933	488AX6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	100	4	0	3,559,030	46:0
277	96	222	09:45:56.600	488AX6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	100	4	0	3,559,044	00:0
278	96	222	15:36:33.200	488AY6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	100	4	0	3,559,390	69:0
279	96	222	16:36:17.200	488AY6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3,559,449	76:0
280	96	222	16:51:52.533	488AY6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	100	4	0	3,559,465	23:0
281	96	222	17:19:11.866	488AY6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3,559,492	25:0
282	96	222	17:40:17.200	488AY6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,559,513	12:0
283	96	222	18:12:17.200	488AZ6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,559,544	71:0
284	96	222	20:24:33.200	488AZ6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	100	4	0	3,559,675	54:0
285	96	222	21:52:01.200	488AZ6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,559,762	09:0
286	96	222	23:59:17.866	432JI6B	6RTDS2	NIMDSL,AACNCG,RT	NIMS R/T DESELECT	100	4	0	3,559,887	89:0
287	96	222	23:59:18.533	432JI431A6A	6RCDL	DDSDSL,PLSDSL,EP	Record Deselect (DDS o	100	4	0	3,559,887	90:0
288	96	222	23:59:19.200	432JI6D	6RTSL2	NIMNCG,AACSEL,RT	AACS SELECT	100	4	0	3,559,888	00:0
289	96	222	23:59:19.200	432JI6C	6RTSL1		R/T Select of DDS and	100	4	0	3,559,888	00:0
290	96	223	00:21:21.200	488BA6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3,559,909	72:0
291	96	223	00:53:21.200	488BA6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,559,941	40:0
292	96	223	01:47:30.533	176UA6A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	100	4	0	3,559,995	00:0
293	96	223	01:50:32.533	176KA6A	6TMREC	ORT	OPNAV - REAL TIME Record Mode Change	100	4	0	3,559,998	00:0
294	96	223	01:54:33.866	165QA4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	100	4	0	3,560,001	89:0
295	96	223	01:54:34.533	165QA4B	7SCAN	NORM,162.002998,	Check S/P Position	100	4	0	3,560,001	90:0
296	96	223	01:55:13.200	488BA6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	100	4	0	3,560,002	57:0
297	96	223	02:29:57.200	165QB4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	100	4	0	3,560,036	89:0
298	96	223	02:29:57.866	165QB4B	7SCAN	NORM,162.066999,	Check S/P Position	100	4	0	3,560,036	90:0
299	96	223	03:09:03.866	20UT4A	7SLEW	DIS,POS,0.0	Stator movement	100	4	0	3,560,075	60:0
300	96	223	03:10:25.200	176UB6A	6TMREC	RPB	RESUME PLAYBACK (PB CONTROL) Record Mode	100	4	0	3,560,077	00:0
301	96	223	06:17:37.200	488BA6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	100	4	0	3,560,262	13:0
302	96	223	15:36:33.200	488BB6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	100	4	0	3,560,814	85:0
303	96	223	16:36:17.200	488BB6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3,560,874	01:0
304	96	223	16:46:47.200	488BB6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	100	4	0	3,560,884	36:0
305	96	223	17:14:07.200	488BB6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3,560,911	39:0
306	96	223	17:40:17.200	488BB6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,560,937	28:0
307	96	223	20:39:29.133	488BC6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	100	4	0	3,561,114	49:0
308	96	223	21:37:05.133	488BC6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,561,171	46:0
309	96	224	00:17:05.133	488BC6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,561,329	68:0
310	96	224	00:49:05.133	488BC6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,561,361	36:0
311	96	224	01:55:13.133	488BC6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	100	4	0	3,561,426	73:0
312	96	224	06:17:37.133	488BD6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	100	4	0	3,561,686	29:0
313	96	224	08:33:00.466	41W99A	POWER	PWR MODE change	Change to Data Taking Mode	100	4	0	3,561,820	20:0
314	96	224	08:33:04.466	41W3K	37F2PR		1 Shield Flash Heater OFF (primary relay)	100	4	0	3,561,820	26:0
315	96	224	08:33:14.466	41W3L	37F2PR		2 Shield Flash Heater OFF (primary relay)	100	4	0	3,561,820	41:0
316	96	224	08:33:24.466	41W3A	40T1PR		1 PCT Heater 1 OFF (primary relay)	100	4	0	3,561,820	56:0
317	96	224	08:33:34.466	41W3B	40T1PR		2 PCT Heater 1 OFF (primary relay)	100	4	0	3,561,820	71:0
318	96	224	08:33:44.466	41W3C	40T2R		1 PCT Heater 2 OFF	100	4	0	3,561,820	86:0
319	96	224	08:33:54.466	41W3D	40T2R		2 PCT Heater 2 OFF	100	4	0	3,561,821	10:0
320	96	224	14:34:45.800	176FA6A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	100	4	0	3,562,178	00:0
321	96	224	14:38:00.466	444UC443A4A	7SAFE	UNSTOW	S/P TO 153 deg cone	100	4	0	3,562,181	19:0
322	96	224	14:42:00.466	444UC443A4B	7MODE	SPNL	AACS ALL-SPIN LOW	100	4	0	3,562,185	15:0
323	96	224	14:51:00.466	444UC443A4C	7CLK	17.45:0.0	Check S/P Position	100	4	0	3,562,194	06:0
324	96	224	14:55:55.133	125FD4A	37IST	1,0,0,OFF,0,0,0	Chopper ON, Sync, 63Hz (Ref)	160	4	0	3,562,198	84:0
325	96	224	14:55:55.133	125FD	NIMSINIT	GS	##### GROUP START INIT	160	4	0	3,562,198	84:0
326	96	224	14:56:55.800	125FD4B	37IST	1,2,0,OFF,0,1,1	Chopper ON, Sync, Chopper (Ref)Gain State	4R0	4	0	3,562,199	84:0
327	96	224	14:57:56.466	125FD4C	37MB	1B,1B,0,0,0,0	Selects mirror (spatial) edit table	4R0	4	0	3,562,200	84:0
328	96	224	14:57:56.466	125FD11A	NIMSINIT	GE	##### GROUP END INIT	4R0	4	0	3,562,200	84:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
329	96	224	15:00:58.466	127FD4A	37IOP	3,0	Long Map, Grating Start Position =00	4R3	4	0	3,562,203:84:0	
330	96	224	15:00:58.466	127FD	NIMSTAB	GS	%%%%GROUP START TAB	4R3	4	0	3,562,203:84:0	
331	96	224	15:00:59.133	127FD4B	37ETB	0A,CA,19,FF,C0,1	Loads wavelength edit table	4R3	4	0	3,562,203:85:0	
332	96	224	15:01:16.466	127FD11A	NIMSTAB	GE	%%%%GROUP END TAB	4R3	4	0	3,562,204:20:0	
333	96	224	15:02:23.800	432EA6A	6RTSL2	NIMSEL,AACNCG,RT	NIMS R/T SELECT	4R3	4	0	3,562,205:30:0	
334	96	224	15:03:23.133	432EB6A	6RTDS2	NIMDSL,AACNCG,RT	NIMS R/T DESELECT	4R3	4	0	3,562,206:28:0	
335	96	224	15:04:05.133	192EQ4A	7CONE	17.0,54.88	Check S/P Position	4R3	4	0	3,562,207:00:0	
336	96	224	15:04:05.800	192EQ4B	7CLK	17.0,244.07	Check S/P Position	4R3	4	0	3,562,207:01:0	
337	96	224	15:07:27.133	432EC6A	6RTSL2	NIMSEL,AACNCG,RT	NIMS R/T SELECT	4R3	4	0	3,562,210:30:0	
338	96	224	15:17:32.466	432ED6A	6RTDS2	NIMDSL,AACNCG,RT	NIMS R/T DESELECT	4R3	4	0	3,562,220:28:0	
339	96	224	15:18:09.800	127EE	NIMSTAB	GS	%%%%GROUP START TAB	4R3	4	0	3,562,220:84:0	
340	96	224	15:18:09.800	127EE4A	37IOP	0,0	Safe, Grating Start Position =00	4R0	4	0	3,562,220:84:0	
341	96	224	15:18:10.466	127EE4B	37ETB	04,C4,02,00,00	Loads wavelength edit table	4R0	4	0	3,562,220:85:0	
342	96	224	15:18:27.800	20FH4A	7SAFE	UNSTOW	S/P TO 153 deg cone	4R0	4	0	3,562,221:20:0	
343	96	224	15:18:27.800	127EE11A	NIMSTAB	GE	%%%%GROUP END TAB	4R0	4	0	3,562,221:20:0	
344	96	224	15:20:11.133	125FL4A	37IST	1,0,0,OFF,0,0,0	Chopper ON, Sync, 63Hz (Ref)	460	4	0	3,562,222:84:0	
345	96	224	15:20:11.133	125FL	NIMSINIT	GS	##### GROUP START INIT	460	4	0	3,562,222:84:0	
346	96	224	15:21:11.800	125FL4B	37IST	1,1,0,OFF,0,0,0	Chopper OFF, N/A, 63Hz (Ref)	400	4	0	3,562,223:84:0	
347	96	224	15:21:37.133	488BE6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	3,562,224:31:0	
348	96	224	15:22:12.466	125FL4C	37MB	0,0,0,0,0,0	Selects mirror (spatial) edit table	400	4	0	3,562,224:84:0	
349	96	224	15:22:12.466	125FL11A	NIMSINIT	GE	##### GROUP END INIT	400	4	0	3,562,224:84:0	
350	96	224	15:23:30.466	444UD443A4A	7SAFE	UNSTOW	S/P TO 153 deg cone	400	4	0	3,562,226:19:0	
351	96	224	15:27:30.466	444UD443A4B	7MODE	CRU	AACS CRUISE MODE	400	4	0	3,562,230:15:0	
352	96	224	15:37:40.466	41U99A	POWER	PWR MODE change	Change to Playback Mode	400	4	0	3,562,240:20:0	
353	96	224	15:37:44.466	41U3I	40T1PR		1 PCT Heater 1 OFF (primary relay)	400	4	0	3,562,240:26:0	
354	96	224	15:37:54.466	41U3J	40T1PR		2 PCT Heater 1 OFF (primary relay)	400	4	0	3,562,240:41:0	
355	96	224	15:38:04.466	41U3K	40T2R		1 PCT Heater 2 OFF	400	4	0	3,562,240:56:0	
356	96	224	15:38:14.466	41U3L	40T2R		2 PCT Heater 2 OFF	400	4	0	3,562,240:71:0	
357	96	224	15:40:24.466	41U3G	37F2P		1 Shield Flash Heater ON (primary relay)	400	4	0	3,562,242:84:0	
358	96	224	15:40:34.466	41U3H	37F2P		2 Shield Flash Heater ON (primary relay)	400	4	0	3,562,243:08:0	
359	96	224	15:47:51.133	20UP4A	7SAFE	STOP	S/P NO MOVEMENT	400	4	0	3,562,250:26:0	
360	96	224	15:48:41.133	20UP4B	7SLEW	DIS,POS,0,0	Stator movement	400	4	0	3,562,251:10:0	
361	96	224	15:51:36.466	176FK6A	6TMREC	RPB	RESUME PLAYBACK (PB CONTROL) Record Mode	400	4	0	3,562,254:00:0	
362	96	224	15:52:00.000	G1NNPCTRLLT01-		-----STOP-----		400	4	0	:	
363	96	224	16:21:21.133	488BE6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	3,562,283:38:0	
364	96	224	16:49:45.800	488BE6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	400	4	0	3,562,311:47:0	
365	96	224	16:57:37.133	488BE6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	400	4	0	3,562,319:26:0	
366	96	224	17:09:03.133	488BE6E	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	400	4	0	3,562,330:54:0	
367	96	224	17:29:37.133	488BF6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	3,562,350:85:0	
368	96	224	18:01:37.133	488BF6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	3,562,382:53:0	
369	96	225	00:17:05.133	488BG6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	3,562,753:84:0	
370	96	225	00:49:05.133	488BG6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	3,562,785:52:0	
371	96	225	01:55:13.066	488BG6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	3,562,850:89:0	
372	96	225	06:17:37.066	488BH6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	400	4	0	3,563,110:45:0	
373	96	225	11:59:59.733	418PJ6A	6BUFIH		9 MUB Buffer high water	400	4	0	3,563,449:10:0	
374	96	225	12:30:01.066	488BI6A	6TMSED	NORM,AH6	Sci, Eng, and D/L Chan	400	4	0	3,563,478:73:0	
375	96	225	13:22:21.066	488BI6B	6TMSED	NORM,AH6	Sci, Eng, and D/L Chan	400	4	0	3,563,530:51:0	
376	96	225	14:42:41.066	488BI6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	400	4	0	3,563,610:01:0	
377	96	225	15:21:37.066	488BI6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	3,563,648:47:0	
378	96	225	16:21:21.066	488BI6E	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	400	4	0	3,563,707:54:0	
379	96	225	16:36:40.400	488BJ6A	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	400	4	0	3,563,722:68:0	
380	96	225	17:18:59.066	488BJ6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	400	4	0	3,563,764:54:0	
381	96	225	17:40:17.066	488BJ6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	3,563,785:60:0	
382	96	225	18:12:17.066	488BJ6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	3,563,817:28:0	
383	96	225	18:38:22.400	488BJ6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	400	4	0	3,563,843:10:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
384	96	225	19:08:20.400	488BK6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	3,563,872:68:0	
385	96	225	23:36:33.066	488BK6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	3,564,138:01:0	
386	96	226	00:19:13.066	488BK6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	400	4	0	3,564,180:19:0	
387	96	226	00:51:13.066	488BK6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	3,564,211:78:0	
388	96	226	01:18:23.066	488BL6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	400	4	0	3,564,238:66:0	
389	96	226	01:45:41.733	488BL6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	3,564,265:67:0	
390	96	226	01:55:13.066	488BL6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	3,564,275:14:0	
391	96	226	06:17:37.066	488BL6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	400	4	0	3,564,534:61:0	
392	96	226	15:06:41.000	488BM6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	3,565,057:84:0	
393	96	226	16:21:21.000	488BM6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	400	4	0	3,565,131:70:0	
394	96	226	16:26:35.666	488BM6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	400	4	0	3,565,136:87:0	
395	96	226	17:13:53.666	488BM6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	400	4	0	3,565,183:67:0	
396	96	226	17:57:21.000	488BM6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	3,565,226:65:0	
397	96	227	00:00:01.000	488BN6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	400	4	0	3,565,585:36:0	
398	96	227	01:04:01.000	488BN6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	3,565,648:63:0	
399	96	227	01:38:28.333	488BN6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	400	4	0	3,565,682:70:0	
400	96	227	02:08:26.333	488BN6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	3,565,712:37:0	
401	96	227	05:07:13.000	488BN6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	3,565,889:20:0	
402	96	227	06:09:05.000	488BO6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	400	4	0	3,565,950:37:0	
403	96	227	09:12:39.666	488BO6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	400	4	0	3,566,131:88:0	
404	96	227	09:26:19.000	488BO6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	400	4	0	3,566,145:43:0	
405	96	227	15:06:40.933	488BP6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	3,566,482:09:0	
406	96	227	16:06:24.933	488BP6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	400	4	0	3,566,541:16:0	
407	96	227	16:21:31.600	488BP6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	400	4	0	3,566,556:11:0	
408	96	227	17:03:49.600	488BP6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	400	4	0	3,566,597:87:0	
409	96	227	17:42:24.933	488BP6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	3,566,636:11:0	
410	96	227	23:39:48.933	488BQ6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	400	4	0	3,566,989:54:0	
411	96	227	23:51:28.933	488BQ6B	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	400	4	0	3,567,001:12:0	
412	96	228	00:23:28.933	488BQ6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	400	4	0	3,567,032:71:0	
413	96	228	00:58:28.266	488BQ6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	3,567,067:35:0	
414	96	228	01:38:08.933	488BQ6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	3,567,106:57:0	
415	96	228	02:00:00.266	418PK6A	6BUFHI		10 MUB Buffer high water	400	4	0	3,567,128:22:0	
416	96	228	06:02:40.933	488BR6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	400	4	0	3,567,368:23:0	
417	96	228	15:06:40.933	488BS6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	3,567,906:25:0	
418	96	228	16:06:24.933	488BS6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	3,567,965:32:0	
419	96	228	16:34:38.866	488BS6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	400	4	0	3,567,993:25:0	
420	96	228	16:42:40.866	488BS6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	400	4	0	3,568,001:20:0	
421	96	228	16:53:44.866	488BS6E	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	400	4	0	3,568,012:15:0	
422	96	228	17:14:40.866	488BT6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	3,568,032:79:0	
423	96	228	17:46:40.866	488BT6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	3,568,064:47:0	
424	96	228	23:51:28.866	488BU6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	400	4	0	3,568,425:28:0	
425	96	229	00:23:28.866	488BU6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	3,568,456:87:0	
426	96	229	00:55:28.866	488BU6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	3,568,488:55:0	
427	96	229	01:33:37.533	488BU6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	400	4	0	3,568,526:30:0	
428	96	229	02:03:35.533	488BU6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	3,568,555:88:0	
429	96	229	05:07:12.866	488BV6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	3,568,737:52:0	
430	96	229	05:54:08.866	488BV6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	400	4	0	3,568,783:90:0	
431	96	229	09:02:48.866	488BV6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	400	4	0	3,568,970:53:0	
432	96	229	09:16:27.533	488BV6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	400	4	0	3,568,984:07:0	
433	96	229	14:51:44.866	488BW6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	3,569,315:62:0	
434	96	229	16:06:24.866	488BW6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	400	4	0	3,569,389:48:0	
435	96	229	16:21:20.200	488BW6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	400	4	0	3,569,404:26:0	
436	96	229	16:48:40.200	488BW6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	400	4	0	3,569,431:29:0	
437	96	229	17:10:24.866	488BW6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	3,569,452:75:0	
438	96	229	17:42:24.866	488BX6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	3,569,484:43:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
439	96	229	23:45:04.800	488BY6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	3,569,843:14:0	
440	96	230	00:23:28.800	488BY6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	3,569,881:12:0	
441	96	230	01:38:08.800	488BY6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	3,569,954:89:0	
442	96	230	06:02:40.800	488BZ6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	400	4	0	3,570,216:55:0	
443	96	230	14:51:44.800	488CA6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	3,570,739:78:0	
444	96	230	15:51:28.800	488CA6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	3,570,798:85:0	
445	96	230	16:24:13.466	488CA6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	400	4	0	3,570,831:29:0	
446	96	230	16:32:00.800	488CA6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	400	4	0	3,570,839:02:0	
447	96	230	16:43:34.800	488CA6E	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	400	4	0	3,570,850:42:0	
448	96	230	17:04:00.800	488CB6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	3,570,870:61:0	
449	96	230	17:36:00.800	488CB6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	3,570,902:29:0	
450	96	230	23:51:28.800	488CC6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	400	4	0	3,571,273:60:0	
451	96	231	00:23:28.800	488CC6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	3,571,305:28:0	
452	96	231	01:38:08.800	488CC6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	3,571,379:14:0	
453	96	231	06:02:40.733	488CC6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	400	4	0	3,571,640:71:0	
454	96	231	14:36:48.733	488CE6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	3,572,149:24:0	
455	96	231	15:51:28.733	488CE6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	3,572,223:10:0	
456	96	231	16:18:30.066	488CE6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	400	4	0	3,572,249:76:0	
457	96	231	16:25:36.733	488CE6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	400	4	0	3,572,256:79:0	
458	96	231	16:53:30.733	488CE6E	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	400	4	0	3,572,284:42:0	
459	96	231	17:29:36.733	488CF6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	3,572,320:15:0	
460	96	231	23:34:24.733	488CG6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	400	4	0	3,572,680:87:0	
461	96	232	00:38:24.733	488CG6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	3,572,744:23:0	
462	96	232	01:18:52.066	488CG6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	400	4	0	3,572,784:24:0	
463	96	232	01:28:42.733	176SL6A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	400	4	0	3,572,794:00:0	
464	96	232	01:30:00.066	41SJ99A	POWER	PWR MODE change	Change to Maneuver Mode	400	4	0	3,572,795:25:0	
465	96	232	01:30:04.066	41SJ3K	37F2PR		1 Shield Flash Heater OFF (primary relay)	400	4	0	3,572,795:31:0	
466	96	232	01:30:14.066	41SJ3L	37F2PR		2 Shield Flash Heater OFF (primary relay)	400	4	0	3,572,795:46:0	
467	96	232	01:32:24.066	41SJ3G	40T1P		1 PCT Heater 1 ON (primary relay)	400	4	0	3,572,797:59:0	
468	96	232	01:32:34.066	41SJ3H	40T1P		2 PCT Heater 1 ON (primary relay)	400	4	0	3,572,797:74:0	
469	96	232	01:32:44.066	41SJ3I	40T2		1 PCT Heater 2 ON	400	4	0	3,572,797:89:0	
470	96	232	01:32:54.066	41SJ3J	40T2		2 PCT Heater 2 ON	400	4	0	3,572,798:13:0	
471	96	232	01:33:00.066	488CG6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	400	4	0	3,572,798:22:0	
472	96	232	01:48:50.733	488CG6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	3,572,813:83:0	
473	96	232	02:05:02.066	490UB412A4B	7MODE	INT	AACS INERTIAL MODE	400	4	0	3,572,829:84:0	
474	96	232	02:10:00.066	490UB412A4D	7SAFE	UNSTOW	S/P TO 153 deg cone	400	4	0	3,572,834:76:0	
475	96	232	02:14:10.066	490UB412A4E	7VECT		Inert vect update UTC	400	4	0	3,572,838:87:0	
476	96	232	02:14:14.066	490UB412A4F	7TURN	2,RTH	ALERT Thruster	400	4	0	3,572,839:02:0	
477	96	232	02:18:02.066	490UB412A406A4A	7VECT		Inert vect update UTC	400	4	0	3,572,842:71:0	
478	96	232	02:18:04.066	490UB412A406A4B	7STAR	1,3000,95,710999	Star catalog update	400	4	0	3,572,842:74:0	
479	96	232	02:18:06.066	490UB412A406A4C	7STAR	2,293,1,451,28,8	Star catalog update	400	4	0	3,572,842:77:0	
480	96	232	02:18:08.066	490UB412A406A4D	7STAR	3,131,322,01	Star catalog update	400	4	0	3,572,842:80:0	
481	96	232	02:18:10.066	490UB412A406A4E	7STAR	4,142,193,42	Star catalog update	400	4	0	3,572,842:83:0	
482	96	232	02:18:12.066	490UB412A406A4F	7STAR	5,0,0,0,0,0	Star catalog update	400	4	0	3,572,842:86:0	
483	96	232	02:18:14.066	490UB412A406A4G	7STAR	6,0,0,0,0,0	Star catalog update	400	4	0	3,572,842:89:0	
484	96	232	03:24:12.733	490UB412A44L	7MODE	CRU	AACS CRUISE MODE	400	4	0	3,572,908:21:0	
485	96	232	03:49:59.400	432OJ431A6A	6RCDL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	400	4	0	3,572,933:66:0	
486	96	232	03:50:00.066	432OJ6A	6RTSL1		R/T Select of DDS and	400	4	0	3,572,933:67:0	
487	96	232	03:51:00.066	41SS99A	POWER	PWR MODE change	Change to Playback Mode	400	4	0	3,572,934:66:0	
488	96	232	03:51:04.066	41SS3I	40T1PR		1 PCT Heater 1 OFF (primary relay)	400	4	0	3,572,934:72:0	
489	96	232	03:51:14.066	41SS3J	40T1PR		2 PCT Heater 1 OFF (primary relay)	400	4	0	3,572,934:87:0	
490	96	232	03:51:24.066	41SS3K	40T2R		1 PCT Heater 2 OFF	400	4	0	3,572,935:11:0	
491	96	232	03:51:34.066	41SS3L	40T2R		2 PCT Heater 2 OFF	400	4	0	3,572,935:26:0	
492	96	232	03:53:44.066	41SS3G	37F2P		1 Shield Flash Heater ON (primary relay)	400	4	0	3,572,937:39:0	
493	96	232	03:53:54.066	41SS3H	37F2P		2 Shield Flash Heater ON (primary relay)	400	4	0	3,572,937:54:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
494	96	232	04:01:27.400	20VH4A	7SLEW	DIS,POS:0.0	Stator movement	400	4	0	0	3,572,945:00:0
495	96	232	04:02:24.066	176SP6A	6TMREC	RPB	RESUME PLAYBACK (PB CONTROL)	400	4	0	0	3,572,946:00:0
496	96	232	04:03:00.066	480UA6A	6MROH	7,6960,13,A10	read from AACSA7,6960,13,A1	400	4	0	0	3,572,946:54:0
497	96	232	04:21:40.066	480UA6B	6MROH	7,6960,13,A10	read from AACSA7,6960,13,A1	400	4	0	0	3,572,965:05:0
498	96	232	04:40:20.066	480UA6C	6MROH	7,6960,13,A10	read from AACSA7,6960,13,A1	400	4	0	0	3,572,983:47:0
499	96	232	04:52:16.733	488CH6A	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	400	4	0	0	3,572,995:30:0
500	96	232	05:02:14.733	488CH6B	6TMSED	FILL,AH5	Sci, Eng, and D/L Chan	400	4	0	0	3,573,005:17:0
501	96	232	05:03:00.066	488CH6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	400	4	0	0	3,573,005:85:0
502	96	232	05:43:20.733	488CH6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	0	3,573,045:76:0
503	96	232	05:54:08.733	488CH6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	400	4	0	0	3,573,056:47:0
504	96	232	08:53:02.666	488C16A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	400	4	0	0	3,573,233:41:0
505	96	232	09:06:42.000	488C16B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	400	4	0	0	3,573,246:87:0
506	96	232	14:36:48.666	488C16C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	0	3,573,573:40:0
507	96	232	15:51:28.666	488C16A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	400	4	0	0	3,573,647:26:0
508	96	232	16:06:07.333	488C16B	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	400	4	0	0	3,573,661:70:0
509	96	232	16:48:26.000	488C16C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	400	4	0	0	3,573,703:56:0
510	96	232	17:06:08.666	488C16D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	0	3,573,721:12:0
511	96	233	00:08:32.666	488CK6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	0	3,574,138:81:0
512	96	233	01:23:12.666	488CK6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	0	3,574,212:67:0
513	96	233	05:47:44.666	488CK6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	400	4	0	0	3,574,474:33:0
514	96	233	14:36:48.600	488CL6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	0	3,574,997:56:0
515	96	233	15:51:28.600	488CL6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	400	4	0	0	3,575,071:42:0
516	96	233	16:01:01.266	488CL6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	400	4	0	0	3,575,080:82:0
517	96	233	16:43:19.933	488CL6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	400	4	0	0	3,575,122:68:0
518	96	233	17:27:28.600	488CL6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	0	3,575,166:37:0
519	96	233	19:08:10.600	176TA6A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL)	400	4	0	0	3,575,266:00:0
520	96	233	19:09:59.933	41TSW99A	POWER	PWR MODE change	Change to Calib/Decon Mode	400	4	0	0	3,575,267:73:0
521	96	233	19:10:03.933	41SW3G	37F2PR		1 Shield Flash Heater OFF (primary relay)	400	4	0	0	3,575,267:79:0
522	96	233	19:10:13.933	41SW3H	37F2PR		2 Shield Flash Heater OFF (primary relay)	400	4	0	0	3,575,268:03:0
523	96	233	19:10:23.933	41SW3I	40T1PR		1 PCT Heater 1 OFF (primary relay)	400	4	0	0	3,575,268:18:0
524	96	233	19:10:33.933	41SW3J	40T1PR		2 PCT Heater 1 OFF (primary relay)	400	4	0	0	3,575,268:33:0
525	96	233	19:10:43.933	41SW3K	40T2R		1 PCT Heater 2 OFF	400	4	0	0	3,575,268:48:0
526	96	233	19:10:53.933	41SW3L	40T2R		2 PCT Heater 2 OFF	400	4	0	0	3,575,268:63:0
527	96	233	23:30:08.600	488CM6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	400	4	0	0	3,575,525:08:0
528	96	234	00:34:08.600	488CM6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	0	3,575,588:35:0
529	96	234	01:14:01.933	488CM6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	400	4	0	0	3,575,627:76:0
530	96	234	01:44:00.600	488CM6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	0	3,575,657:44:0
531	96	234	03:04:59.933	41ST99A	POWER	PWR MODE change	Change to Playback Mode	400	4	0	0	3,575,737:53:0
532	96	234	03:05:03.933	41ST3I	40T1PR		1 PCT Heater 1 OFF (primary relay)	400	4	0	0	3,575,737:59:0
533	96	234	03:05:13.933	41ST3J	40T1PR		2 PCT Heater 1 OFF (primary relay)	400	4	0	0	3,575,737:74:0
534	96	234	03:05:23.933	41ST3K	40T2R		1 PCT Heater 2 OFF	400	4	0	0	3,575,737:89:0
535	96	234	03:05:33.933	41ST3L	40T2R		2 PCT Heater 2 OFF	400	4	0	0	3,575,738:13:0
536	96	234	03:07:43.933	41ST3G	37F2P		1 Shield Flash Heater ON (primary relay)	400	4	0	0	3,575,740:26:0
537	96	234	03:07:53.933	41ST3H	37F2P		2 Shield Flash Heater ON (primary relay)	400	4	0	0	3,575,740:41:0
538	96	234	03:15:03.933	20UQ4A	7SLEW	DIS,POS:0.0	Stator movement	400	4	0	0	3,575,747:49:0
539	96	234	03:16:32.600	176TB6A	6TMREC	RPB	RESUME PLAYBACK (PB CONTROL)	400	4	0	0	3,575,749:00:0
540	96	234	04:37:20.600	488CM6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	0	3,575,828:83:0
541	96	234	05:39:12.600	488CN6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	400	4	0	0	3,575,890:09:0
542	96	234	08:43:13.933	488CN6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	400	4	0	0	3,576,072:09:0
543	96	234	08:56:52.600	488CN6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	400	4	0	0	3,576,085:54:0
544	96	234	12:11:25.266	176UC6A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL)	400	4	0	0	3,576,278:00:0
545	96	234	12:14:27.266	176KB6A	6TMREC	ORT	OPNAV - REAL TIME Record Mode Change	400	4	0	0	3,576,281:00:0
546	96	234	12:18:28.600	165QC4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	400	4	0	0	3,576,284:89:0
547	96	234	12:18:29.266	165QC4B	7SCAN	NORM,175.771999,	Check S/P Position	400	4	0	0	3,576,284:90:0
548	96	234	12:53:51.933	165QD4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	400	4	0	0	3,576,319:89:0



Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
549	96	234	12:53:52.600	165QD4B	7SCAN	NORM,175.693998,	Check S/P Position	400	4	0	3,576,319:90:0	
550	96	234	13:33:03.933	20U4A	7SLEW	DIS,POS,0.0	Stator movement	400	4	0	3,576,358:68:0	
551	96	234	13:34:19.933	176UD6A	6TMREC	RPB	<b>RESUME PLAYBACK (PB CONTROL) Record Mode</b>	400	4	0	3,576,360:00:0	
552	96	234	14:36:48.600	488CO6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	3,576,421:72:0	
553	96	234	15:36:32.600	488CO6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	3,576,480:79:0	
554	96	234	16:13:43.933	488CO6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	400	4	0	3,576,517:59:0	
555	96	234	16:21:20.600	488CO6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	400	4	0	3,576,525:16:0	
556	96	234	16:33:14.600	488CO6E	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	400	4	0	3,576,536:86:0	
557	96	234	16:53:20.600	488CP6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	3,576,556:75:0	
558	96	234	23:25:52.533	488CQ6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	3,576,945:04:0	
559	96	234	23:57:52.533	488CQ6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	3,576,976:63:0	
560	96	235	01:23:12.533	488CQ6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	3,577,061:08:0	
561	96	235	05:32:48.533	488CR6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	400	4	0	3,577,307:86:0	
562	96	235	08:01:29.866	176UE6A	6TMREC	PPB	<b>PAUSE PLAYBACK (PB CONTROL) Record Mode C</b>	400	4	0	3,577,455:00:0	
563	96	235	08:04:31.866	176KC6A	6TMREC	ORT	OPNAV - REAL TIME Record Mode Change	400	4	0	3,577,458:00:0	
564	96	235	08:08:33.200	165QE4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	400	4	0	3,577,461:99:0	
565	96	235	08:08:33.866	165QE4B	7SCAN	NORM,170.867998,	Check S/P Position	400	4	0	3,577,461:90:0	
566	96	235	08:36:51.866	165QF4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	400	4	0	3,577,489:89:0	
567	96	235	08:36:52.533	165QF4B	7SCAN	NORM,170.844999,	Check S/P Position	400	4	0	3,577,489:90:0	
568	96	235	09:22:03.866	20UV4A	7SLEW	DIS,POS,0.0	Stator movement	400	4	0	3,577,534:92:0	
569	96	235	09:22:03.866	176UF6A	6TMREC	RPB	<b>RESUME PLAYBACK (PB CONTROL) Record Mode</b>	400	4	0	3,577,536:00:0	
570	96	235	14:36:48.533	488CS6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	3,577,845:88:0	
571	96	235	15:36:32.533	488CS6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	3,577,905:04:0	
572	96	235	16:03:21.200	488CS6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	400	4	0	3,577,931:51:0	
573	96	235	16:10:40.533	488CS6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	400	4	0	3,577,938:73:0	
574	96	235	16:23:09.866	488CS6E	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	400	4	0	3,577,951:14:0	
575	96	235	16:42:40.533	488CT6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	3,577,970:41:0	
576	96	235	17:14:40.533	488CT6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	3,578,002:09:0	
577	96	235	23:21:36.466	488CU6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	3,578,365:00:0	
578	96	235	23:42:03.800	488CU6B	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	400	4	0	3,578,385:21:0	
579	96	235	23:59:08.466	488CU6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	3,578,402:11:0	
580	96	236	00:10:40.466	488CU6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	3,578,413:48:0	
581	96	236	01:08:16.466	488CU6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	3,578,470:45:0	
582	96	236	05:32:48.466	488CV6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	400	4	0	3,578,732:11:0	
583	96	236	12:59:59.800	418PD6A	6BUFHI		8 MUB Buffer high water	400	4	0	3,579,174:36:0	
584	96	236	14:21:52.466	488CW6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	3,579,255:34:0	
585	96	236	15:35:16.466	488CW6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	400	4	0	3,579,327:88:0	
586	96	236	15:36:32.466	488CW6C	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	400	4	0	3,579,329:20:0	
587	96	236	16:34:06.466	488CW6D	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	400	4	0	3,579,386:14:0	
588	96	236	17:21:04.466	488CW6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	3,579,432:55:0	
589	96	236	17:53:04.466	488CX6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	3,579,464:23:0	
590	96	236	17:54:16.466	488CX6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	400	4	0	3,579,465:40:0	
591	96	236	18:24:14.466	488CX6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	3,579,495:07:0	
592	96	236	19:59:59.800	418PE6A	6BUFHI		9 MUB Buffer high water	400	4	0	3,579,589:71:0	
593	96	236	20:00:13.133	176SB6A	6TMREC	PPB	<b>PAUSE PLAYBACK (PB CONTROL) Record Mode C</b>	400	4	0	3,579,590:00:0	
594	96	236	22:02:03.800	20UK4A	7SLEW	DIS,POS,0.0	Stator movement	400	4	0	3,579,710:46:0	
595	96	236	22:03:34.466	176SE6A	6TMREC	RPB	<b>RESUME PLAYBACK (PB CONTROL) Record Mode</b>	400	4	0	3,579,712:00:0	
596	96	236	22:51:44.466	488CX6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	3,579,759:58:0	
597	96	236	23:23:44.466	488CX6E	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	400	4	0	3,579,791:26:0	
598	96	236	23:55:44.466	488CY6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	3,579,822:85:0	
599	96	237	00:34:18.466	488CY6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	400	4	0	3,579,861:07:0	
600	96	237	01:01:36.466	488CY6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	3,579,888:07:0	
601	96	237	01:08:16.466	488CY6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	3,579,894:61:0	
602	96	237	05:32:48.400	488CY6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	400	4	0	3,580,156:27:0	
603	96	237	09:22:01.733	176UG6A	6TMREC	PPB	<b>PAUSE PLAYBACK (PB CONTROL) Record Mode C</b>	400	4	0	3,580,383:00:0	



Line	YR	DOY	SCET - GMT	PSID	Command Parameters	Description	GCM	GO	GS	RIM	MF I
604	96	237	09:25:03.733	176KD6A	6TMREC ORT	OPNAV - REAL TIME Record Mode Change	400	4	0	3,580,386:00:0	
605	96	237	09:30:05.733	165QG4A	7TMOT DIS,TMC	Disable IVP - Target Motion	400	4	0	3,580,390:89:0	
606	96	237	09:30:06.400	165QG4B	7SCAN NORM,173.556999,	Check S/P Position	400	4	0	3,580,390:90:0	
607	96	237	10:04:28.400	165QH4A	7TMOT DIS,TMC	Disable IVP - Target Motion	400	4	0	3,580,424:89:0	
608	96	237	10:04:29.066	165QH4B	7SCAN NORM,173.634998,	Check S/P Position	400	4	0	3,580,424:90:0	
609	96	237	10:44:03.733	20UJW4A	7SLEW DIS,POS,0.0	Stator movement	400	4	0	3,580,464:12:0	
610	96	237	10:45:57.066	176UH6A	6TMREC RPB	RESUME PLAYBACK (PB CONTROL) Record Mode	400	4	0	3,580,466:00:0	
611	96	240	18:00:00.266	474AA416A4B	7MODE INT	AACS INERTIAL MODE	400	4	0	3,585,167:74:0	
612	96	240	18:02:00.266	474AA416A4D	7SAFE UNSTOW	S/P TO 153 deg cone	400	4	0	3,585,169:72:0	
613	96	240	18:06:14.266	474AA416A4E	7BURN ,201.478298,25.5	ALERT -- Thruster fire	400	4	0	3,585,173:89:0	
614	96	240	18:27:31.533	474AA416A4G	7BURN ,201.478298,25.5	ALERT -- Thruster fire	400	4	0	3,585,195:03:0	
615	96	240	19:33:30.200	474AA416A4N	7MODE CRU	AACS CRUISE MODE	400	4	0	3,585,260:26:0	
616	96	240	19:50:04.200	20CA4A	7SCAN NORM,188.699999,	Check S/P Position	400	4	0	3,585,276:61:0	
617	96	244	09:59:55.333		DMS: : READY	RDY, TRACK 3, FWD, TIC 290.00 +/-	400	4	0	3,590,389:65:0	
618	96	244	10:00:00.000		DMS: : READY	RDY, TRACK 1, FWD, TIC 5048.00 +/-	400	4	0	3,590,389:72:0	
619	96	244	10:13:12.000	488AA6A	6TMSED NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	3,590,402:77:0	
620	96	244	10:30:00.666	41U99A	POWER PWR MODE change	Change to Playback Mode	400	4	0	3,590,419:43:0	
621	96	244	10:30:04.666	41U3I	40T1PR	1 PCT Heater 1 OFF (primary relay)	400	4	0	3,590,419:49:0	
622	96	244	10:30:14.666	41U3J	40T1PR	2 PCT Heater 1 OFF (primary relay)	400	4	0	3,590,419:64:0	
623	96	244	10:30:24.666	41U3K	40T2R	1 PCT Heater 2 OFF	400	4	0	3,590,419:79:0	
624	96	244	10:30:34.666	41U3L	40T2R	2 PCT Heater 2 OFF	400	4	0	3,590,420:03:0	
625	96	244	10:32:44.666	41U3G	37F2P	1 Shield Flash Heater ON (primary relay)	400	4	0	3,590,422:16:0	
626	96	244	10:32:54.666	41U3H	37F2P	2 Shield Flash Heater ON (primary relay)	400	4	0	3,590,422:31:0	
627	96	244	10:41:00.666	481UB4A	7VECT	Inert vect update UTC	400	4	0	3,590,430:32:0	
628	96	244	10:44:00.000	432WE431A6A	6RCDL DDSDL,PLDSDL,EP	Record Deselect (DDS o	400	4	0	3,590,433:28:0	
629	96	244	10:44:00.666	432WE6B	6RTSL2 NIMCG,AACSEL,RT	AACS SELECTRIT ENG SELECT	400	4	0	3,590,433:29:0	
630	96	244	10:44:00.666	432WE6A	6RTSL1	R/T Select of DDS and	400	4	0	3,590,433:29:0	
631	96	244	10:44:40.666	431ZL6A	6RCDL DDSNCG,PLSNCG,EP	Record Deselect (DDS o	400	4	0	3,590,433:89:0	
632	96	244	10:49:03.333	20ZM6A	6EUVON		400	4	0	3,590,438:28:0	
633	96	244	10:49:45.333	431ZM6A	6RCSL DDSCNG,PLSNCG,EP	Record Select (DDS onl	400	4	0	3,590,439:00:0	
634	96	244	11:12:02.000	20ZS6A	6CKSUM MAG,4040,46F0		400	4	0	3,590,461:03:0	
635	96	244	11:12:42.000	20ZS6B	6MROH 12,2282,0,A2	read from LLM1A12,2282,0,A2	400	4	0	3,590,461:63:0	
636	96	244	11:12:42.000	20ZS6B	6MROH	12 read from LLM1A12,2282,0,A2	400	4	0	3,590,461:63:0	
637	96	244	12:00:10.666	31B6B,	6MROH	12 read from LLM1A12,2282,0,A2	400	4	0	3,590,508:59:0	
638	96	244	12:07:52.666	31B6D,	6MROH	12 read from LLM1A12,2282,0,A2	400	4	0	3,590,516:24:0	
639	96	244	13:16:00.666	20ZU3Q	37HR	1 Replacement Heaters OFF	400	4	0	3,590,583:59:0	
640	96	244	13:16:02.666	20ZU3S	37HR	2 Replacement Heaters OFF	400	4	0	3,590,583:62:0	
641	96	244	13:16:28.666	20ZU3R	37A	1 NIMS Power ON	260	4	0	3,590,584:10:0	
642	96	244	13:16:30.666	20ZU3T	37A	2 NIMS Power ON	260	4	0	3,590,584:13:0	
643	96	244	13:18:30.000	20ZU4A	37IST 1,2,0,OFF,0,0,0	Chopper ON, Sync, Chopper (Ref)	2R0	4	0	3,590,586:10:0	
644	96	244	13:21:04.666	20EB5A	37PL	Program Load (halts microprocessor & unwri	2R0	4	0	3,590,588:60:0	
645	96	244	13:22:05.333	20EB5B	37MRL	Memory Realocate (software operates from R	2R0	4	0	3,590,589:60:0	
646	96	244	13:23:06.000	20EB6A	6MCOPI NIMS	NIMS,1000,LLM1A,7300,77F7	2R0	4	0	3,590,590:60:0	
647	96	244	13:24:06.666	20EB6B	6MCOPI NIMS	NIMS,1598,LLM1A,77F8,781D	2R0	4	0	3,590,591:60:0	
648	96	244	13:25:07.333	20EB6C	6CKSUM NIMS	NIMS,1000,14B3	2R0	4	0	3,590,592:60:0	
649	96	244	13:26:08.000	20EB6D	6MROH	12 read from LLM1A12,2282,0,A2	2R0	4	0	3,590,593:60:0	
650	96	244	13:26:08.000	20EB6D	6MROH	read from LLM1A12,2282,0,A2	2R0	4	0	3,590,593:60:0	
651	96	244	13:32:48.000	20EB6E	6MROH	read from NIMS37,14BC,1,A2	2R0	4	0	3,590,600:23:0	
652	96	244	13:46:08.000	20EB6F	6MROH	read from NIMS37,1598,1,A2	2R0	4	0	3,590,613:40:0	
653	96	244	13:56:28.000	20EB6C	37IRT	Instrument Reset (goes into POR state)	260	4	0	3,590,623:60:0	
654	96	244	13:57:28.666	20EB6D	37MTN	Memory Normal (software operates from ROM)	260	4	0	3,590,624:60:0	
655	96	244	13:58:29.333	20EB4A	37IST 1,2,0,OFF,0,0,0	Chopper ON, Sync, Chopper (Ref)	2R0	4	0	3,590,625:60:0	
656	96	244	14:00:30.666	20EC3A	37F2PR	1 Shield Flash Heater OFF (primary relay)	2R0	4	0	3,590,627:60:0	
657	96	244	14:00:37.333	20EC3B	37F2PR	2 Shield Flash Heater OFF (primary relay)	2R0	4	0	3,590,627:70:0	
658	96	244	14:00:44.000	20EC3C	40T1P	1 PCT Heater 1 ON (primary relay)	2R0	4	0	3,590,627:80:0	

Line	YR	DOY	SCET - GMT	PSID	Command Parameters	Description	GCM	GO	GS	RIM	MF I
659	96	244	14:00:50.666	20EC3D	40T1P	2 PCT Heater 1 ON (primary relay)	2R0	4	0	3,590,627:90:0	
660	96	244	14:00:57.333	20EC3E	40T2	1 PCT Heater 2 ON	2R0	4	0	3,590,628:09:0	
661	96	244	14:01:04.000	20EC3F	40T2	2 PCT Heater 2 ON	2R0	4	0	3,590,628:19:0	
662	96	244	18:02:31.333	488AB6A	6TMSED	NORM,AH3	2R0	4	0	3,590,867:01:0	
663	96	245	00:04:29.333	DMS:	: *SLEW-TIC	P7, TRACK *2, *REV, TIC 5048.00 +/-	2R0	4	0	3,591,225:00:0	
664	96	245	00:04:29.333	465WA6A	6DMST	5000 DMS Slew to TIC	2R0	4	0	3,591,225:00:0	
665	96	245	05:58:10.666	465WB6A	6DMSC	P100.2 DMS Control Tape P/B 100.8kbps	2R0	4	0	3,591,574:73:0	
666	96	245	06:24:02.666	465WB6B	6DMSC	RDY,2 DMS Control Tape stop	2R0	4	0	3,591,600:35:0	
667	96	245	08:19:49.333	465WC6A	6DTRN	CMD,6DTRN,465WC6 DMS TRACK TURNAROUND	2R0	4	0	3,591,714:81:0	
668	96	245	08:29:50.666	465WD6A	6DMSC	P100.1 DMS Control Tape P/B 100.8kbps	2R0	4	0	3,591,724:73:0	
669	96	245	09:01:46.666	465WD6B	6DMSC	RDY,1 DMS Control Tape stop	2R0	4	0	3,591,756:35:0	
670	96	245	09:17:22.000	465WE6A	6DMSC	P100.2 DMS Control Tape P/B 100.8kbps	2R0	4	0	3,591,771:73:0	
671	96	245	09:49:32.666	465WF6A	6DMSC	P100.3 DMS Control Tape P/B 100.8kbps	2R0	4	0	3,591,803:57:0	
672	96	245	10:21:36.000	465WF6B	6DMSC	RDY,3 DMS Control Tape stop	2R0	4	0	3,591,835:30:0	
673	96	245	10:36:14.000	465WG6A	6DMSC	P100.4 DMS Control Tape P/B 100.8kbps	2R0	4	0	3,591,849:73:0	
674	96	245	11:08:24.000	465WH6A	6DMSC	P100.3 DMS Control Tape P/B 100.8kbps	2R0	4	0	3,591,881:56:0	
675	96	245	11:09:31.333	465WH6B	6DMSC	RDY,3 DMS Control Tape stop	2R0	4	0	3,591,882:66:0	
676	96	245	11:23:57.333	465WI6A	6DMSC	RDY,2 DMS Control Tape stop	2R0	4	0	3,591,897:00:0	
677	96	245	11:24:51.333	465WJ6A	6DTRN	CMD,6DTRN,465WJ6 DMS TRACK TURNAROUND	2R0	4	0	3,591,897:81:0	
678	96	245	12:06:15.333	488AC6A	6TMSED	NORM,AL3	2R0	4	0	3,591,938:76:0	
679	96	245	14:05:43.333	488AC6B	6TMSED	NORM,AL2	2R0	4	0	3,592,056:90:0	
680	96	245	15:59:59.933	20A3EW	37A	Final Condition NIMS Power ON	2R0	4	0	3,592,170:01:0	
681	96	245	15:59:59.933	20A3EX	37HR	Final Condition Replacement Heaters OFF	2R0	4	0	3,592,170:01:0	
682	96	245	15:59:59.933	20A3EY	37C1PR	Final Condition Optics Heater 1 OFF (primary relay)	2R0	4	0	3,592,170:01:0	
683	96	245	15:59:59.933	20A3FA	37F1PR	Final Condition Radiator Flash Heater OFF (primary relay)	2R0	4	0	3,592,170:01:0	
684	96	245	15:59:59.933	20A3FB	37F2PR	Final Condition Shield Flash Heater OFF (primary relay)	2R0	4	0	3,592,170:01:0	
685	96	245	15:59:59.933	20A3FD	40HRPR	Final Condition RCT Heater OFF (primary relay)	2R0	4	0	3,592,170:01:0	
686	96	245	15:59:59.933	20A3FE	40T1PR	Final Condition PCT Heater 1 OFF (primary relay)	2R0	4	0	3,592,170:01:0	
687	96	245	15:59:59.933	20A3FF	40T2R	Final Condition PCT Heater 2 OFF	2R0	4	0	3,592,170:01:0	
688	96	245	15:59:59.933	20A3EZ	37C2PR	Final Condition Optics Heater 2 OFF (primary relay)	2R0	4	0	3,592,170:01:0	
689	96	245	15:59:59.933	DMS:	: RUNNING	P7, TRACK 2, REV, TIC 162.17 +/- 1	2R0	4	0	3,592,170:01:0	

# G1JNRTJBAR01

```

OAPEL:  G1JNRTJBAR01      ALIAS:  G1JNRTJBAR01
EXT:    R                  PSID:    DL
SCLK1:  03496234:00:0     SCLK2:  03496234:12:0
SCET1:  1996-178/07:18:05.666  SCET2:  1996-178/07:18:13.666
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, 000, 000
    
```

```

WETGID:  0301408000      03  01  408  000
WTGRP_SIZ: 1
    
```

## EDIT TABLE

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

# G1CNGLOBAL01

```

OAPEL:  G1CNGLOBAL01          ALIAS:  G1CNGLOBAL01
EXT:    A                     PSID:    FA
SCLK1:  03496552:00:0        SCLK2:  03496553:28:0
SCET1:  96-178/12:39:37.666 SCET2:  96-178/12:40:57.666
TARGET: CALLISTO             PARTITION: 1
    
```

```

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

```

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

```

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

```

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

## EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	00060	0,0000,0000,0110,0000
1	1FFFF	1,1111,1111,1111,1111
2	00060	0,0000,0000,0110,0000
3	1FFFF	1,1111,1111,1111,1111
4	00060	0,0000,0000,0110,0000
5	1FFFF	1,1111,1111,1111,1111
6	00060	0,0000,0000,0110,0000
7	1FFFF	1,1111,1111,1111,1111
8	00060	0,0000,0000,0110,0000
9	1FFFF	1,1111,1111,1111,1111
10	00060	0,0000,0000,0110,0000
11	1FFFF	1,1111,1111,1111,1111
12	00060	0,0000,0000,0110,0000
13	1FFFF	1,1111,1111,1111,1111
14	00060	0,0000,0000,0110,0000
15	1FFFF	1,1111,1111,1111,1111
16	00060	0,0000,0000,0110,0000
17	1FFFF	1,1111,1111,1111,1111
18	00060	0,0000,0000,0110,0000
19	1FFFF	1,1111,1111,1111,1111
20	00060	0,0000,0000,0110,0000
21	1FFFF	1,1111,1111,1111,1111
22	00060	0,0000,0000,0110,0000
23	1FFFF	1,1111,1111,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

# G1JNGRS04102

```

OAPEL:  G1JNGRS04102      ALIAS:  G1JNGRS04102
EXT:    A                  PSID:    DE
SCLK1:  03496645:00:0     SCLK2:  03496655:61:0
SCET1:  96-178/14:13:39.666  SCET2:  96-178/14:24:27.666
TARGET: JUPITER          PARTITION: 1
    
```

```

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

```

MB_DOWN: 00000            MB_UP:   00000
COMP_FLAG: 1              EST_COMPV: 0.3
EST_COMP:  2.0           RATE_CON2: 65525
RATE_CON1: 00000        TLMFMT:  LPU
NWAVETOT:  23
    
```

```

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

```

WETGID:  0507023001      05  07  023  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	18900	1,1000,1001,0000,0000
3	00902	0,0000,1001,0000,0010
4	0B810	0,1011,1000,0001,0000
5	00C01	0,0000,1100,0000,0001
6	00000	0,0000,0000,0000,0000

# G1JNGRS04103

OAPEL: G1JNGRS04103                    ALIAS: G1JNGRS04103  
EXT: A                                    PSID: DG  
SCLK1: 03496706:00:0                   SCLK2: 03496711:72:0  
SCET1: 96-178/15:15:20.333            SCET2: 96-178/15:21:12.333  
TARGET: JUPITER                        PARTITION: 1

MODE: 5                                   GAIN: 2  
CHOP: 1                                  GRAT\_OFF: 4  
PTAB\_A: 1 1 0 1 4 6                    PTAB\_B: 1 1 0 1 4 6  
ECAL: 0                                  OPCAL: 0  
R/T: 0                                   RECORD: 1

MB\_DOWN: 00000                        MB\_UP: 00000  
COMP\_FLAG: 1  
EST\_COMP: 2.0                           EST\_COMPV: 0.3  
RATE\_CON1: 00000                       RATE\_CON2: 65525  
NWAVETOT: 23                           TLMFMT: LPU

THRESHOLD\_SEL: 0  
THRESHOLD\_VALUES: 000, 000, 000, 000, 000, 000, 000, 000, 000, 000  
   000, 000, 000, 000, 000, 000, 000, 000, 000

WETGID: 0507023001                    05 07 023 001  
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	18900	1,1000,1001,0000,0000
3	00902	0,0000,1001,0000,0010
4	0B810	0,1011,1000,0001,0000
5	00C01	0,0000,1100,0000,0001
6	00000	0,0000,0000,0000,0000

# G1GNGLOBAL01

```

OAPEL:  G1GNGLOBAL01          ALIAS:  G1GNGLOBAL01
EXT:    A                      PSID:    DI
SCLK1:  03497075:00:0         SCLK2:  03497100:02:0
SCET1:  96-178/21:28:26.333  SCET2:  96-178/21:53:44.333
TARGET: GANYMEDE              PARTITION: 1
    
```

```

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

```

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

```

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

```

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

## EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	01800	0,0001,1000,0000,0000
1	1FFFF	1,1111,1111,1111,1111
2	01800	0,0001,1000,0000,0000
3	1FFFF	1,1111,1111,1111,1111
4	01800	0,0001,1000,0000,0000
5	1FFFF	1,1111,1111,1111,1111
6	01800	0,0001,1000,0000,0000
7	1FFFF	1,1111,1111,1111,1111
8	01800	0,0001,1000,0000,0000
9	1FFFF	1,1111,1111,1111,1111
10	01800	0,0001,1000,0000,0000
11	1FFFF	1,1111,1111,1111,1111
12	01800	0,0001,1000,0000,0000
13	1FFFF	1,1111,1111,1111,1111
14	01800	0,0001,1000,0000,0000
15	1FFFF	1,1111,1111,1111,1111
16	01800	0,0001,1000,0000,0000
17	1FFFF	1,1111,1111,1111,1111
18	01800	0,0001,1000,0000,0000
19	1FFFF	1,1111,1111,1111,1111
20	01800	0,0001,1000,0000,0000
21	1FFFF	1,1111,1111,1111,1111
22	01800	0,0001,1000,0000,0000
23	1FFFF	1,1111,1111,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

# G1GNGLOBAL02

```

OAPEL:  G1GNGLOBAL02      ALIAS:  G1GNGLOBAL02
EXT:    A                  PSID:    KA
SCLK1:  03497122:49:0     SCLK2:  03497134:56:0
SCET1:  96-178/22:16:30.333  SCET2:  96-178/22:28:43.000
TARGET: GANYMEDE          PARTITION: 1
    
```

```

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

```

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

```

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

```

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

## EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	01800	0,0001,1000,0000,0000
1	1FFFF	1,1111,1111,1111,1111
2	01800	0,0001,1000,0000,0000
3	1FFFF	1,1111,1111,1111,1111
4	01800	0,0001,1000,0000,0000
5	1FFFF	1,1111,1111,1111,1111
6	01800	0,0001,1000,0000,0000
7	1FFFF	1,1111,1111,1111,1111
8	01800	0,0001,1000,0000,0000
9	1FFFF	1,1111,1111,1111,1111
10	01800	0,0001,1000,0000,0000
11	1FFFF	1,1111,1111,1111,1111
12	01800	0,0001,1000,0000,0000
13	1FFFF	1,1111,1111,1111,1111
14	01800	0,0001,1000,0000,0000
15	1FFFF	1,1111,1111,1111,1111
16	01800	0,0001,1000,0000,0000
17	1FFFF	1,1111,1111,1111,1111
18	01800	0,0001,1000,0000,0000
19	1FFFF	1,1111,1111,1111,1111
20	01800	0,0001,1000,0000,0000
21	1FFFF	1,1111,1111,1111,1111
22	01800	0,0001,1000,0000,0000
23	1FFFF	1,1111,1111,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000



# G1JNGRS02501

```

OAPEL:  G1JNGRS02501      ALIAS:  G1JNGRS02501
EXT:    A                  PSID:    FV
SCLK1:  03497263:00:0     SCLK2:  03497273:80:0
SCET1:   96-179/00:38:31.666  SCET2:   96-179/00:49:31.666
TARGET:  JUPITER          PARTITION: 1
    
```

```

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

```

MB_DOWN: 00000           MB_UP:   00000
COMP_FLAG: 1             EST_COMPV: 0.3
EST_COMP:  2.0           RATE_CON2: 65525
RATE_CON1: 00000        TLMFMT:  LPU
NWAVETOT: 19
    
```

```

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

```

WETGID:  0507019001      05  07  019  001
WTGRP_SIZ: 7
    
```

## EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	00000	0,0000,0000,0000,0000
1	11D80	1,0001,1101,1000,0000
2	1A800	1,1010,1000,0000,0000
3	00900	0,0000,1001,0000,0000
4	0B810	0,1011,1000,0001,0000
5	00C00	0,0000,1100,0000,0000
6	00000	0,0000,0000,0000,0000

# G1GNMEMPIS01

```

OAPEL:  G1GNMEMPIS01      ALIAS:  G1GNMEMPIS01
EXT:    A                  PSID:    DK
SCLK1:  03497417:00:0     SCLK2:  03497425:00:0
SCET1:  96-179/03:14:14.333  SCET2:  96-179/03:22:19.666
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: 228             TLMFMT:   LPU
    
```

```

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

```

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

## EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	00018	0,0000,0000,0001,1000
1	1FFFF	1,1111,1111,1111,1111
2	00018	0,0000,0000,0001,1000
3	1FFFF	1,1111,1111,1111,1111
4	00018	0,0000,0000,0001,1000
5	1FFFF	1,1111,1111,1111,1111
6	00018	0,0000,0000,0001,1000
7	1FFFF	1,1111,1111,1111,1111
8	00018	0,0000,0000,0001,1000
9	1FFFF	1,1111,1111,1111,1111
10	00018	0,0000,0000,0001,1000
11	1FFFF	1,1111,1111,1111,1111
12	00018	0,0000,0000,0001,1000
13	1FFFF	1,1111,1111,1111,1111
14	00018	0,0000,0000,0001,1000
15	1FFFF	1,1111,1111,1111,1111
16	00018	0,0000,0000,0001,1000
17	1FFFF	1,1111,1111,1111,1111
18	00018	0,0000,0000,0001,1000
19	1FFFF	1,1111,1111,1111,1111
20	00018	0,0000,0000,0001,1000
21	1FFFF	1,1111,1111,1111,1111
22	00018	0,0000,0000,0001,1000
23	1FFFF	1,1111,1111,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

# G1GNAMON\_\_01

```

OAPEL:  G1GNAMON__01          ALIAS:  G1GNAMON__01
EXT:    A                    PSID:    DN
SCLK1:  03497524:00:0        SCLK2:  03497528:76:0
SCET1:  96-179/05:02:25.600 SCET2:  96-179/05:07:19.600
TARGET:  GANYMEDE           PARTITION: 1
  
```

```

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

```

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

```

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

```

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

## EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	06000	0,0110,0000,0000,0000
1	1FFFF	1,1111,1111,1111,1111
2	06000	0,0110,0000,0000,0000
3	1FFFF	1,1111,1111,1111,1111
4	06000	0,0110,0000,0000,0000
5	1FFFF	1,1111,1111,1111,1111
6	06000	0,0110,0000,0000,0000
7	1FFFF	1,1111,1111,1111,1111
8	06000	0,0110,0000,0000,0000
9	1FFFF	1,1111,1111,1111,1111
10	06000	0,0110,0000,0000,0000
11	1FFFF	1,1111,1111,1111,1111
12	06000	0,0110,0000,0000,0000
13	1FFFF	1,1111,1111,1111,1111
14	06000	0,0110,0000,0000,0000
15	1FFFF	1,1111,1111,1111,1111
16	06000	0,0110,0000,0000,0000
17	1FFFF	1,1111,1111,1111,1111
18	06000	0,0110,0000,0000,0000
19	1FFFF	1,1111,1111,1111,1111
20	06000	0,0110,0000,0000,0000
21	1FFFF	1,1111,1111,1111,1111
22	06000	0,0110,0000,0000,0000
23	1FFFF	1,1111,1111,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

# G1GNPTAH\_\_01

```

OAPEL:  G1GNPTAH__01          ALIAS:  G1GNPTAH__01
EXT:    A                      PSID:   DO
SCLK1:  03497533:00:0        SCLK2:  03497536:76:0
SCET1:   96-179/05:11:31.600  SCET2:   96-179/05:15:24.933
TARGET:  GANYMEDE            PARTITION: 1
    
```

```

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

```

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

```

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

```

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

## EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	00C00	0,0000,1100,0000,0000
1	1FFFF	1,1111,1111,1111,1111
2	00C00	0,0000,1100,0000,0000
3	1FFFF	1,1111,1111,1111,1111
4	00C00	0,0000,1100,0000,0000
5	1FFFF	1,1111,1111,1111,1111
6	00C00	0,0000,1100,0000,0000
7	1FFFF	1,1111,1111,1111,1111
8	00C00	0,0000,1100,0000,0000
9	1FFFF	1,1111,1111,1111,1111
10	00C00	0,0000,1100,0000,0000
11	1FFFF	1,1111,1111,1111,1111
12	00C00	0,0000,1100,0000,0000
13	1FFFF	1,1111,1111,1111,1111
14	00C00	0,0000,1100,0000,0000
15	1FFFF	1,1111,1111,1111,1111
16	00C00	0,0000,1100,0000,0000
17	1FFFF	1,1111,1111,1111,1111
18	00C00	0,0000,1100,0000,0000
19	1FFFF	1,1111,1111,1111,1111
20	00C00	0,0000,1100,0000,0000
21	1FFFF	1,1111,1111,1111,1111
22	00C00	0,0000,1100,0000,0000
23	1FFFF	1,1111,1111,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

# G1GNNIPPUR01

```

OAPEL:  G1GNNIPPUR01      ALIAS:  G1GNNIPPUR01
EXT:    A                  PSID:    DP
SCLK1:  03497542:00:0     SCLK2:  03497552:87:0
SCET1:  96-179/05:20:37.600  SCET2:  96-179/05:31:42.933
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_COMPV: 0.3
EST_COMP:  2.0            RATE_CON2: 65525
RATE_CON1: 00000         TLMFMT:   LPU
NWAVETOT: 228
    
```

```

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

```

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

## EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	00600	0,0000,0110,0000,0000
1	1FFFF	1,1111,1111,1111,1111
2	00600	0,0000,0110,0000,0000
3	1FFFF	1,1111,1111,1111,1111
4	00600	0,0000,0110,0000,0000
5	1FFFF	1,1111,1111,1111,1111
6	00600	0,0000,0110,0000,0000
7	1FFFF	1,1111,1111,1111,1111
8	00600	0,0000,0110,0000,0000
9	1FFFF	1,1111,1111,1111,1111
10	00600	0,0000,0110,0000,0000
11	1FFFF	1,1111,1111,1111,1111
12	00600	0,0000,0110,0000,0000
13	1FFFF	1,1111,1111,1111,1111
14	00600	0,0000,0110,0000,0000
15	1FFFF	1,1111,1111,1111,1111
16	00600	0,0000,0110,0000,0000
17	1FFFF	1,1111,1111,1111,1111
18	00600	0,0000,0110,0000,0000
19	1FFFF	1,1111,1111,1111,1111
20	00600	0,0000,0110,0000,0000
21	1FFFF	1,1111,1111,1111,1111
22	00600	0,0000,0110,0000,0000
23	1FFFF	1,1111,1111,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

# G1GNMIRRAY01

```

OAPEL:  G1GNMIRRAY01      ALIAS:  G1GNMIRRAY01
EXT:    A                  PSID:    DS
SCLK1:  03497576:00:0     SCLK2:  03497584:71:0
SCET1:  96-179/05:55:00.266  SCET2:  96-179/06:03:53.600
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_COMPV: 0.3
EST_COMP: 2.0           RATE_CON2: 65525
RATE_CON1: 00000       TLMFMT:  LPU
NWAVETOT: 228
  
```

```

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

```

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

## EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	00060	0,0000,0000,0110,0000
1	1FFFF	1,1111,1111,1111,1111
2	00060	0,0000,0000,0110,0000
3	1FFFF	1,1111,1111,1111,1111
4	00060	0,0000,0000,0110,0000
5	1FFFF	1,1111,1111,1111,1111
6	00060	0,0000,0000,0110,0000
7	1FFFF	1,1111,1111,1111,1111
8	00060	0,0000,0000,0110,0000
9	1FFFF	1,1111,1111,1111,1111
10	00060	0,0000,0000,0110,0000
11	1FFFF	1,1111,1111,1111,1111
12	00060	0,0000,0000,0110,0000
13	1FFFF	1,1111,1111,1111,1111
14	00060	0,0000,0000,0110,0000
15	1FFFF	1,1111,1111,1111,1111
16	00060	0,0000,0000,0110,0000
17	1FFFF	1,1111,1111,1111,1111
18	00060	0,0000,0000,0110,0000
19	1FFFF	1,1111,1111,1111,1111
20	00060	0,0000,0000,0110,0000
21	1FFFF	1,1111,1111,1111,1111
22	00060	0,0000,0000,0110,0000
23	1FFFF	1,1111,1111,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

# G1GNURUSUL01

```

OAPEL:  G1GNURUSUL01          ALIAS:  G1GNURUSUL01
EXT:    A                      PSID:   IM
SCLK1:  03497589:41:0         SCLK2:  03497589:85:0
SCET1:   96-179/06:08:36.933  SCET2:   96-179/06:09:05.600
TARGET:  GANYMEDE             PARTITION: 1
    
```

```

MODE:    5                      GAIN:    3
CHOP:    1                      GRAT_OFF: 4
PTAB_A:  1 1 0 0 4 6          PTAB_B:  1 1 0 0 4 6
ECAL:    0                      OPCAL:   0
R/T:     0                      RECORD:  1
    
```

```

MB_DOWN: 00000                MB_UP:   00000
COMP_FLAG: 1                  EST_COMPV: 0.3
EST_COMP:  2.0                RATE_CON2: 65525
RATE_CON1: 00000              TLMFMT:  IM4
NWAVETOT: 102
    
```

```

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

```

WETGID:  0507102001          05  07  102  001
WTGRP_SIZ:  7
    
```

## EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1FFFF	1,1111,1111,1111,1111
1	1FFFF	1,1111,1111,1111,1111
2	1FFFF	1,1111,1111,1111,1111
3	1FFFF	1,1111,1111,1111,1111
4	1FFFF	1,1111,1111,1111,1111
5	1FFFF	1,1111,1111,1111,1111
6	00000	0,0000,0000,0000,0000

# G1GNREGIO01

```

OAPEL:  G1GNREGIO01          ALIAS:  G1GNREGIO01
EXT:    A                    PSID:    IN
SCLK1:  03497590:11:0       SCLK2:  03497590:60:0
SCET1:   96-179/06:09:16.933 SCET2:   96-179/06:09:50.266
TARGET:  GANYMEDE          PARTITION: 1
    
```

```

MODE:    5                    GAIN:    3
CHOP:    1                    GRAT_OFF: 4
PTAB_A:  1 1 0 0 4 6        PTAB_B:  1 1 0 0 4 6
ECAL:    0                    OPCAL:   0
R/T:     0                    RECORD:  1
    
```

```

MB_DOWN: 00000              MB_UP:   00000
COMP_FLAG: 1                EST_COMPV: 0.3
EST_COMP: 2.0              RATE_CON2: 65525
RATE_CON1: 00000          TLMFMT:  IM4
NWAVETOT: 102
    
```

```

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

```

WETGID:  0507102001        05  07  102  001
WTGRP_SIZ: 7
    
```

### EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1FFFF	1,1111,1111,1111,1111
1	1FFFF	1,1111,1111,1111,1111
2	1FFFF	1,1111,1111,1111,1111
3	1FFFF	1,1111,1111,1111,1111
4	1FFFF	1,1111,1111,1111,1111
5	1FFFF	1,1111,1111,1111,1111
6	00000	0,0000,0000,0000,0000



# G1GNMEMPHI01

```

OAPEL:  G1GNMEMPHI01      ALIAS:  G1GNMEMPHI01
EXT:    A                  PSID:    IX
SCLK1:  03497601:06:0     SCLK2:  03497601:72:0
SCET1:   96-179/06:20:20.933  SCET2:   96-179/06:21:05.600
TARGET:  GANYMEDE        PARTITION:  1
    
```

```

MODE:    5                  GAIN:    3
CHOP:    1                  GRAT_OFF:  4
PTAB_A:  1 1 0 0 4 6      PTAB_B:  1 1 0 0 4 6
ECAL:    0                  OPCAL:    0
R/T:     0                  RECORD:   1
    
```

```

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

```

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

```

WETGID:  0507102001      05  07  102  001
WTGRP_SIZ:  7
    
```

### EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1FFFF	1,1111,1111,1111,1111
1	1FFFF	1,1111,1111,1111,1111
2	1FFFF	1,1111,1111,1111,1111
3	1FFFF	1,1111,1111,1111,1111
4	1FFFF	1,1111,1111,1111,1111
5	1FFFF	1,1111,1111,1111,1111
6	00000	0,0000,0000,0000,0000

# G1GNLIMBSC02

```

OAPEL:  G1GNLIMBSC02      ALIAS:  G1GNLIMBSC02
EXT:    A                  PSID:    CY
SCLK1:  03497605:00:0     SCLK2:  03497608:00:0
SCET1:  96-179/06:24:19.600  SCET2:  96-179/06:27:21.600
TARGET:  GANYMEDE        PARTITION:  1
    
```

```

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

```

MB_DOWN: 00000            MB_UP:    00000
COMP_FLAG: 1              EST_COMPV: 0.3
EST_COMP:  2.0           RATE_CON2: 65525
RATE_CON1: 00000        TLMFMT:   MPW
NWAVETOT: 17
    
```

```

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

```

WETGID:  0713017001      07 13 017 001
WTGRP_SIZ: 13
    
```

## EDIT TABLE

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

# G1JNGRS00501

```

OAPEL:  G1JNGRS00501      ALIAS:  G1JNGRS00501
EXT:    A                  PSID:    DW
SCLK1:  03497898:00:0     SCLK2:  03497909:45:0
SCET1:  96-179/11:20:34.933  SCET2:  96-179/11:32:12.933
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_COMPV: 0.3
EST_COMP: 2.0            RATE_CON2: 65525
RATE_CON1: 00000        TLMFMT:  LPU
NWAVETOT: 19
  
```

```

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

```

WETGID:  0507019001      05  07  019  001
WTGRP_SIZ: 7
  
```

## EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	00000	0,0000,0000,0000,0000
1	11D80	1,0001,1101,1000,0000
2	1A800	1,1010,1000,0000,0000
3	00900	0,0000,1001,0000,0000
4	0B810	0,1011,1000,0001,0000
5	00C00	0,0000,1100,0000,0000
6	00000	0,0000,0000,0000,0000

# G1JNHOTMAP01

```

OAPEL:  G1JNHOTMAP01      ALIAS:  G1JNHOTMAP01
EXT:    A                  PSID:    DB
SCLK1:  03498572:00:0     SCLK2:  03498615:18:0
SCET1:  96-179/22:42:04.266  SCET2:  96-179/23:25:44.933
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_COMPV: 0.3
EST_COMP: 2.0           RATE_CON2: 65525
RATE_CON1: 00000       TLMFMT:  LPU
NWAVETOT: 238
  
```

```

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

```

WETGID:  0326238001      03  26  238  001
WTGRP_SIZ: 26
  
```

## EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	19E27	1,1001,1110,0010,0111
1	19E27	1,1001,1110,0010,0111
2	19E27	1,1001,1110,0010,0111
3	19E27	1,1001,1110,0010,0111
4	19C27	1,1001,1100,0010,0111
5	19C27	1,1001,1100,0010,0111
6	19C27	1,1001,1100,0010,0111
7	19C27	1,1001,1100,0010,0111
8	1BC27	1,1011,1100,0010,0111
9	1BC27	1,1011,1100,0010,0111
10	1BC27	1,1011,1100,0010,0111
11	1BC27	1,1011,1100,0010,0111
12	1BC27	1,1011,1100,0010,0111
13	1BC27	1,1011,1100,0010,0111
14	1BC27	1,1011,1100,0010,0111
15	1BC27	1,1011,1100,0010,0111
16	1BC27	1,1011,1100,0010,0111
17	1BC27	1,1011,1100,0010,0111
18	1BC67	1,1011,1100,0110,0111
19	1BC67	1,1011,1100,0110,0111
20	13C67	1,0011,1100,0110,0111
21	13C67	1,0011,1100,0110,0111
22	13C67	1,0011,1100,0110,0111
23	13C67	1,0011,1100,0110,0111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

# G1ENNHILAT01

```

OAPEL:  G1ENNHILAT01      ALIAS:  G1ENNHILAT01
EXT:    A                  PSID:    EC
SCLK1:  03498650:00:0     SCLK2:  03498659:90:0
SCET1:  96-180/00:00:56.266  SCET2:  96-180/00:11:02.266
TARGET: EUROPA            PARTITION: 1
    
```

```

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

```

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

```

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

```

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

### EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	00C00	0,0000,1100,0000,0000
1	1FFFF	1,1111,1111,1111,1111
2	00C00	0,0000,1100,0000,0000
3	1FFFF	1,1111,1111,1111,1111
4	00C00	0,0000,1100,0000,0000
5	1FFFF	1,1111,1111,1111,1111
6	00C00	0,0000,1100,0000,0000
7	1FFFF	1,1111,1111,1111,1111
8	00C00	0,0000,1100,0000,0000
9	1FFFF	1,1111,1111,1111,1111
10	00C00	0,0000,1100,0000,0000
11	1FFFF	1,1111,1111,1111,1111
12	00C00	0,0000,1100,0000,0000
13	1FFFF	1,1111,1111,1111,1111
14	00C00	0,0000,1100,0000,0000
15	1FFFF	1,1111,1111,1111,1111
16	00C00	0,0000,1100,0000,0000
17	1FFFF	1,1111,1111,1111,1111
18	00C00	0,0000,1100,0000,0000
19	1FFFF	1,1111,1111,1111,1111
20	00C00	0,0000,1100,0000,0000
21	1FFFF	1,1111,1111,1111,1111
22	00C00	0,0000,1100,0000,0000
23	1FFFF	1,1111,1111,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

# G1ENNHILAT01

```

OAPEL:  G1ENNHILAT01      ALIAS:  G1ENNHILAT01
EXT:    B                  PSID:    EC
SCLK1:  03498660:00:0     SCLK2:  03498670:90:0
SCET1:  96-180/00:11:02.933  SCET2:  96-180/00:22:09.600
TARGET: EUROPA            PARTITION: 1
  
```

```

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

```

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

```

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

```

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

## EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	00C00	0,0000,1100,0000,0000
1	1FFFF	1,1111,1111,1111,1111
2	00C00	0,0000,1100,0000,0000
3	1FFFF	1,1111,1111,1111,1111
4	00C00	0,0000,1100,0000,0000
5	1FFFF	1,1111,1111,1111,1111
6	00C00	0,0000,1100,0000,0000
7	1FFFF	1,1111,1111,1111,1111
8	00C00	0,0000,1100,0000,0000
9	1FFFF	1,1111,1111,1111,1111
10	00C00	0,0000,1100,0000,0000
11	1FFFF	1,1111,1111,1111,1111
12	00C00	0,0000,1100,0000,0000
13	1FFFF	1,1111,1111,1111,1111
14	00C00	0,0000,1100,0000,0000
15	1FFFF	1,1111,1111,1111,1111
16	00C00	0,0000,1100,0000,0000
17	1FFFF	1,1111,1111,1111,1111
18	00C00	0,0000,1100,0000,0000
19	1FFFF	1,1111,1111,1111,1111
20	00C00	0,0000,1100,0000,0000
21	1FFFF	1,1111,1111,1111,1111
22	00C00	0,0000,1100,0000,0000
23	1FFFF	1,1111,1111,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

# G1ENGLOBAL01

```

OAPEL:  G1ENGLOBAL01          ALIAS:  G1ENGLOBAL01
EXT:    A                    PSID:    FD
SCLK1:  03498751:03:0        SCLK2:  03498751:42:0
SCET1:   96-180/01:43:05.600 SCET2:   96-180/01:43:31.600
TARGET:  EUROPA              PARTITION: 1
    
```

```

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

```

MB_DOWN: 00000              MB_UP:    00000
COMP_FLAG: 1                EST_COMPV: 0.3
EST_COMP: 2.0              RATE_CON2: 65525
RATE_CON1: 00000          TLMFMT:  IM4
NWAVETOT: 17
    
```

```

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

```

WETGID:  0713017001        07  13  017  001
WTGRP_SIZ: 13
    
```

## EDIT TABLE

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

# G1INCHEMIS01

```

OAPEL:  G1INCHEMIS01      ALIAS:  G1INCHEMIS01
EXT:    A                  PSID:    EA
SCLK1:  03498838:00:0     SCLK2:  03498838:89:0
SCET1:  96-180/03:11:01.600  SCET2:  96-180/03:12:01.600
TARGET: IO                PARTITION: 1
    
```

```

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

```

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

```

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

```

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

### EDIT TABLE

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



# G1INTHRMAL01

```

OAPEL:  G1INTHRMAL01          ALIAS:  G1INTHRMAL01
EXT:    A                      PSID:   EB
SCLK1:  03498842:00:0         SCLK2: 03498842:10:0
SCET1:  96-180/03:15:04.266  SCET2:  96-180/03:15:10.933
TARGET: IO                     PARTITION: 1
    
```

```

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

```

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

```

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

```

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

### EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1D555	1,1101,0101,0101,0101
1	1D555	1,1101,0101,0101,0101
2	1D555	1,1101,0101,0101,0101
3	1D555	1,1101,0101,0101,0101
4	1D555	1,1101,0101,0101,0101
5	1D555	1,1101,0101,0101,0101
6	1D555	1,1101,0101,0101,0101
7	1D555	1,1101,0101,0101,0101
8	1D555	1,1101,0101,0101,0101
9	1D555	1,1101,0101,0101,0101
10	1D555	1,1101,0101,0101,0101
11	1D555	1,1101,0101,0101,0101
12	00000	0,0000,0000,0000,0000

# G1ENEUTERM01

```

OAPEL:  G1ENEUTERM01      ALIAS:  G1ESEUTERM01
EXT:    A                  PSID:    IW
SCLK1:  03498873:04:0    SCLK2:  03498873:15:0
SCET1:  96-180/03:46:28.266  SCET2:  96-180/03:46:35.600
TARGET: EUROPA           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_COMPV: 0.3
EST_COMP: 2.0           RATE_CON2: 65525
RATE_CON1: 00000       TLMFMT:  IM4
NWAVETOT: 10
  
```

```

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

```

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

## EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1D555	1,1101,0101,0101,0101
1	1D555	1,1101,0101,0101,0101
2	1D555	1,1101,0101,0101,0101
3	1D555	1,1101,0101,0101,0101
4	1D555	1,1101,0101,0101,0101
5	1D555	1,1101,0101,0101,0101
6	1D555	1,1101,0101,0101,0101
7	1D555	1,1101,0101,0101,0101
8	1D555	1,1101,0101,0101,0101
9	1D555	1,1101,0101,0101,0101
10	1D555	1,1101,0101,0101,0101
11	1D555	1,1101,0101,0101,0101
12	00000	0,0000,0000,0000,0000

# G1JNGRS09101

```

OAPEL:  G1JNGRS09101      ALIAS:  G1JNGRS09101
EXT:    A                  PSID:    ED
SCLK1:  03499068:00:0     SCLK2:  03499073:21:0
SCET1:   96-180/07:03:34.933  SCET2:   96-180/07:08:52.933
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_COMPV: 0.3
EST_COMP: 2.0              RATE_CON2: 65525
RATE_CON1: 00000          TLMFMT:  LPU
NWAVETOT: 19
  
```

```

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

```

WETGID:  0507019001      05  07  019  001
WTGRP_SIZ: 7
  
```

## EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	00000	0,0000,0000,0000,0000
1	11D80	1,0001,1101,1000,0000
2	1A800	1,1010,1000,0000,0000
3	00900	0,0000,1001,0000,0000
4	0B810	0,1011,1000,0001,0000
5	00C00	0,0000,1100,0000,0000
6	00000	0,0000,0000,0000,0000

# G1JNGRS09102

```

OAPEL:  G1JNGRS09102      ALIAS:  G1JNGRS09102
EXT:    A                  PSID:    EE
SCLK1:  03499171:00:0     SCLK2:  03499173:44:0
SCET1:   96-180/08:47:43.533  SCET2:   96-180/08:50:14.200
TARGET:  JUPITER          PARTITION: 1
  
```

```

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

```

MB_DOWN: 00000            MB_UP:   00000
COMP_FLAG: 1              EST_COMPV: 0.3
EST_COMP:  2.0           RATE_CON2: 65525
RATE_CON1: 00000        TLMFMT:  LPU
NWAVETOT:  19
  
```

```

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

```

WETGID:  0507019001      05  07  019  001
WTGRP_SIZ:  7
  
```

## EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	00000	0,0000,0000,0000,0000
1	11D80	1,0001,1101,1000,0000
2	1A800	1,1010,1000,0000,0000
3	00900	0,0000,1001,0000,0000
4	0B810	0,1011,1000,0001,0000
5	00C00	0,0000,1100,0000,0000
6	00000	0,0000,0000,0000,0000

# G1INIOMON\_05

```

OAPEL:  G1INIOMON_05          ALIAS:  G1INIOMON_05
EXT:    R                      PSID:   DH
SCLK1:  03499674:00:0        SCLK2:  03499674:12:0
SCET1:  1996-180/17:16:18.866 SCET2:  1996-180/17:16:26.866
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: 11000                MB_UP:   00011
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

# G1INNSPEC\_01

```

OAPEL:  G1INNSPEC_01      ALIAS:  G1INNSPEC_01
EXT:    A                  PSID:    ER
SCLK1:  03499677:00:0     SCLK2:  03499679:57:0
SCET1:  96-180/17:19:20.866  SCET2:  96-180/17:22:00.200
TARGET: IO                PARTITION: 1
  
```

```

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

```

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

```

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

```

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

## EDIT TABLE

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

# G1INIOMON\_07

```

OAPEL:  G1INIOMON_07          ALIAS:  G1INIOMON_07
EXT:    R                      PSID:   DX
SCLK1:  03500758:00:0        SCLK2:  03500758:12:0
SCET1:  1996-181/11:32:21.533 SCET2:  1996-181/11:32:29.533
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

# G1NNRCTRLT01

```

OAPEL:  G1NNRCTRLT01          ALIAS:  LSNNRCTRTA01
EXT:    R                      PSID:    XE
SCLK1:  03507941:00:0         SCLK2:  03507941:12:0
SCET1:  1996-186/12:35:09.867 SCET2:  1996-186/12:35:17.867
TARGET: CAL                    PARTITION: 1
    
```

```

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

```

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

```

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

```

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

## EDIT TABLE

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



# G1NNRCTRLT01

```

OAPEL:  G1NNRCTRLT01      ALIAS:  LSNNRCTRTA01
EXT:    S                  PSID:    XE
SCLK1:  03507947:00:0     SCLK2:  03507948:12:0
SCET1:  1996-186/12:41:13.867  SCET2:  1996-186/12:42:22.533
TARGET: CAL                PARTITION: 1
  
```

```

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

```

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

```

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

```

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

## EDIT TABLE

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

# G1NNRCTRLT01

```

OAPEL:  G1NNRCTRLT01      ALIAS:  LSNNRCTRTA01
EXT:    T                  PSID:    XE
SCLK1:  03507953:00:0     SCLK2:  03507953:12:0
SCET1:  1996-186/12:47:17.867  SCET2:  1996-186/12:47:25.867
TARGET: CAL                PARTITION: 1
  
```

```

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

```

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

```

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

```

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

### EDIT TABLE

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

# G1NNNOPCAL01

```

OAPEL:  G1NNNOPCAL01      ALIAS:  G1NNNOPCAL01
EXT:    R                  PSID:    XX
SCLK1:  03528871:00:0     SCLK2:  03528874:80:0
SCET1:  1996-201/05:17:42.400  SCET2:  1996-201/05:21:37.733
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: 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, 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

# G1NNNOPCAL02

```

OAPEL:  G1NNNOPCAL02          ALIAS:  G1NNNOPCAL02
EXT:    R                      PSID:    XX
SCLK1:  03538754:00:0        SCLK2:  03538756:80:0
SCET1:  1996-208/03:16:32.000 SCET2:  1996-208/03:19:26.666
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: 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, 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

# G1NNRCTRLT02

```

OAPEL:  G1NNRCTRLT02          ALIAS:  LSNNRCTRIB01
EXT:    R                      PSID:    XG
SCLK1:  03554557:00:0        SCLK2:  03554557:12:0
SCET1:  1996-219/06:09:05.400 SCET2:  1996-219/06:09:13.400
TARGET: CAL                    PARTITION: 1
    
```

```

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

```

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

```

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

```

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

## EDIT TABLE

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

# G1NNRCTRLT02

```

OAPEL:  G1NNRCTRLT02          ALIAS:  LSNNRCTRIB01
EXT:    S                      PSID:    XG
SCLK1:  03554563:00:0        SCLK2:  03554564:12:0
SCET1:  1996-219/06:15:09.400 SCET2:  1996-219/06:16:18.066
TARGET: CAL                    PARTITION: 1
    
```

```

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

```

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

```

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

```

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

### EDIT TABLE

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

# G1NNRCTRLT02

```

OAPEL:  G1NNRCTRLT02          ALIAS:  LSNNRCTRIB01
EXT:    T                     PSID:    XG
SCLK1:  03554569:00:0        SCLK2:  03554569:12:0
SCET1:  1996-219/06:21:13.400 SCET2:  1996-219/06:21:21.400
TARGET: CAL                   PARTITION: 1
  
```

```

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

```

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

```

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

```

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

## EDIT TABLE

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

# G1NNPCTRLT01

```

OAPEL:  G1NNPCTRLT01      ALIAS:  G1NNPCTRLT01
EXT:    R                  PSID:    FA
SCLK1:  03562206:00:0     SCLK2:  03562206:12:0
SCET1:  1996-224/15:03:04.466  SCET2:  1996-224/15:03:12.466
TARGET: CAL                PARTITION: 1
    
```

```

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

```

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

```

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

```

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

## EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	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



# G1NNPCTRLT01

```

OAPEL:  G1NNPCTRLT01      ALIAS:  G1NNPCTRLT01
EXT:    S                  PSID:    FA
SCLK1:  03562211:00:0     SCLK2:  03562220:12:0
SCET1:  1996-224/15:08:07.800  SCET2:  1996-224/15:17:21.800
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, 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

NIMS G1 OBSTAB

This is a time-ordered ASCII TABLE (listing) of GALILEO NIMS observation parameters for use by downlink data processing of the NIMS G1 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=freeerun
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      |repeat count,mirror op,autobias...SEF: functions of MODE (from 37IOP) as modified by
PTAB_B(6) 12 89 - 100  |...grating start, grating delta... 37MPT, unless special sequence (modes 12-15)
.         |...number of grating positions) in which case values come from 37SS
                                         parameters <tbd>
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 SEF: 37MB data byte 1, bits 4-8 <tbd>
                                         position blocking, down scan)
# RTISELUP 5 112 - 116     .RTI select, 5 binary bits (for mirror SEF: 37MB data byte 2, bits 4-8 <tbd>
                                         position blocking, up scan)
<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     .
NWAVERTOT 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
-----

```

```

-----
# WETGID      10 319 - 328      .Wavelength selection group ID (unique)      PBK: WET_GID      (realtime <tbd>)
Rule of formation: mmeelll1nnn where
mm = instrument mode (0-15)
ee = # entries in group
lll = number of wavelengths selected
nnn = sequence number

* WETGRPSIZ      2 329 - 330      .# Wavelength Edit entries (1-26)      PBK: ED_GRP_LEN      (realtime SEF: 37ETB <tbd>)
* WETGRP      182 331 - 512      .Wavelength Edit Table group: WETGRPSIZ      PBK: ED_GRP      (realtime SEF: 37ETB data bytes 2..)
entries, each one has 7 characters. The
first 2 characters are the repeat count
(01-26). The other 5 characters contain
5 hex digits, representing the detector
mask in the form BHHH where B is 0 or 1
and H has range 0-15. (These entries are
from the 37ETB instrument edit group for
realtime data and from the logical AND of
corresponding entries in the instrument
and playback edit groups for playback data.)

```

-----  
.The TARGET names used are:

```

CAL      - N - non-science targets, usually calibration targets
EARTH    - W - Earth
MOON     - L - Moon
SKY      - H - Stellar Space (space and stars)
VENUS    - V - Venus
GASPRA   - P - Gaspra
IDA      - U - Ida
JUPITER  - J - Jupiter
IO       - I - Io
EUROPA   - E - Europa
GANYMEDE - G - Ganymede
CALLISTO - C - Callisto
J_RING   - R - Jupiter rings
(the single letter abbreviation appears as the third character in the OAPEL name ).

```













## Chapter 5 - Detailed Observation Designs

### Contents

	Sub-Section	Page
5.0	Contents .....	1
5.1	Introduction to Chapter 5 .....	2
5.2	NIMS G1 Observations .....	3-129

## Introduction to Chapter 5

### Detailed Observation Designs

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

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

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

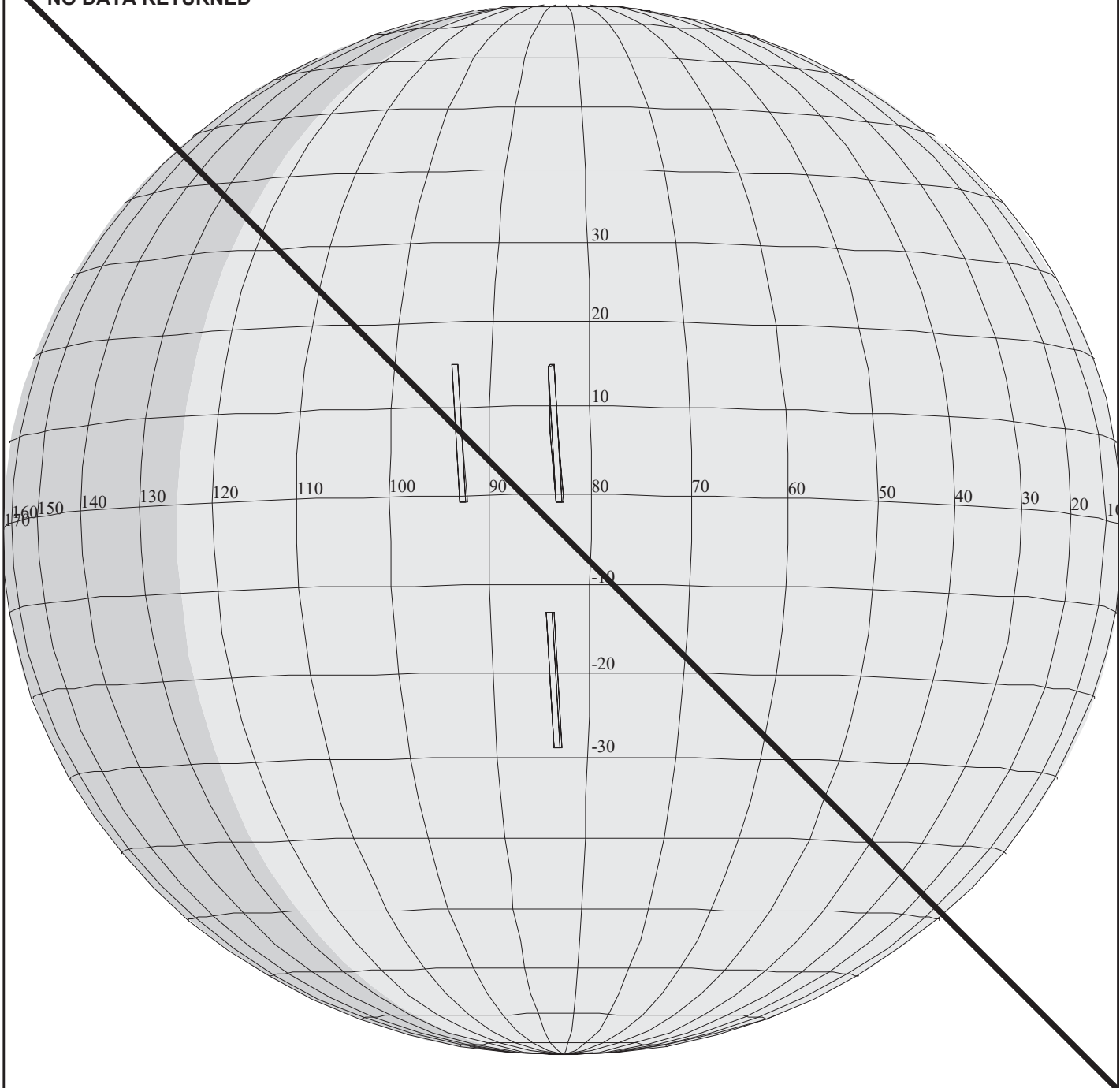
The text of the OAPEL forms have been modified to reflect the actual NIMS instrument parameters for playback. An extra line containing one or some of the following statements has been added to the Observation Objective section of the OAPEL form to report the data return status:

"Data Returned"	== Data from this observation returned
"No Data Returned"	== NO Data from this observation returned
"Processor Halted"	== The NIMS Processor had halted at this time.
"Garbled Data"	== Data from this observation "GARBLED"
"UnGarbled Data"	== Data from this observation "UNGARBLED"
	(This is a special case for the G1 orbit)

More information regarding NIMS data return, and especially the G1 data 'garbling' problem, can be found in Chapter 7 of this guide.

NIMS chopper turn on		ACTIVITY ID: G1NNCHOPON01-	
		START TIME: 96-176/03:10:00.000	
Activity ID: Orbit G1 Target N Inst N OAPEL CHOPON SeqNo 01 -			
Title	NIMS chopper turn on	Instrument	
Requestor	NIMS-SWG/J. HUI 31224	Team	NIMS Working Group
			NIMS SWG
Time System	UTC	Load ID	G1A
		Calendar Date	06/24/96
		Week	26
Start	GEE-CDS 00004469:71:0	96-176/03:10:00.000	GEE-003/03:19:26.933
End	GEE-CDS 00004459:81:0	96-176/03:20:00.000	GEE-003/03:09:26.933
Duration	9:81:0	000/00:10:00.000	000/00:10:00.000
Top Label	G1NNCHOPON01-		
Bottom Label	NIMS initialization		
Plot Key	NIMS	Type	SCI
CDS Bytes	52	Report Options	BOTH
CDS Source	OAP	Spin State	DUAL
		Scan Platform	No
		DMS	No
Observation Objective			
To turn the NIMS instrument chopper on and change its mode to REFERENCE.			
Design Detail			
Use two NIMS 37IST commands (one rim apart) the first turn chopper on and the second to reference:			
37IST,1,0,0,OFF,0,0,0			
37IST,1,2,0,OFF,0,0,0			
Also, issue a 37MB command to enable all mirror positions:			
37MB,0,0,0,0,0,0 (00000,00000)			
Galileo Activity Plan Form		05/09/96	18:13:51 rev 6/95

NO DATA RETURNED



## G1JNJJBARS01

TARGET G1.0 brad : 4/30/1996 16: 4:13

FILE:P.G1JNJJBARS01

CENTRAL BODY:JUPITER

MINI:m.target.enc

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS:

START:JEE 96-180/00:31:20.266 -CDS 2460:00:0

OBSERVATION:G1JNJJBARS01

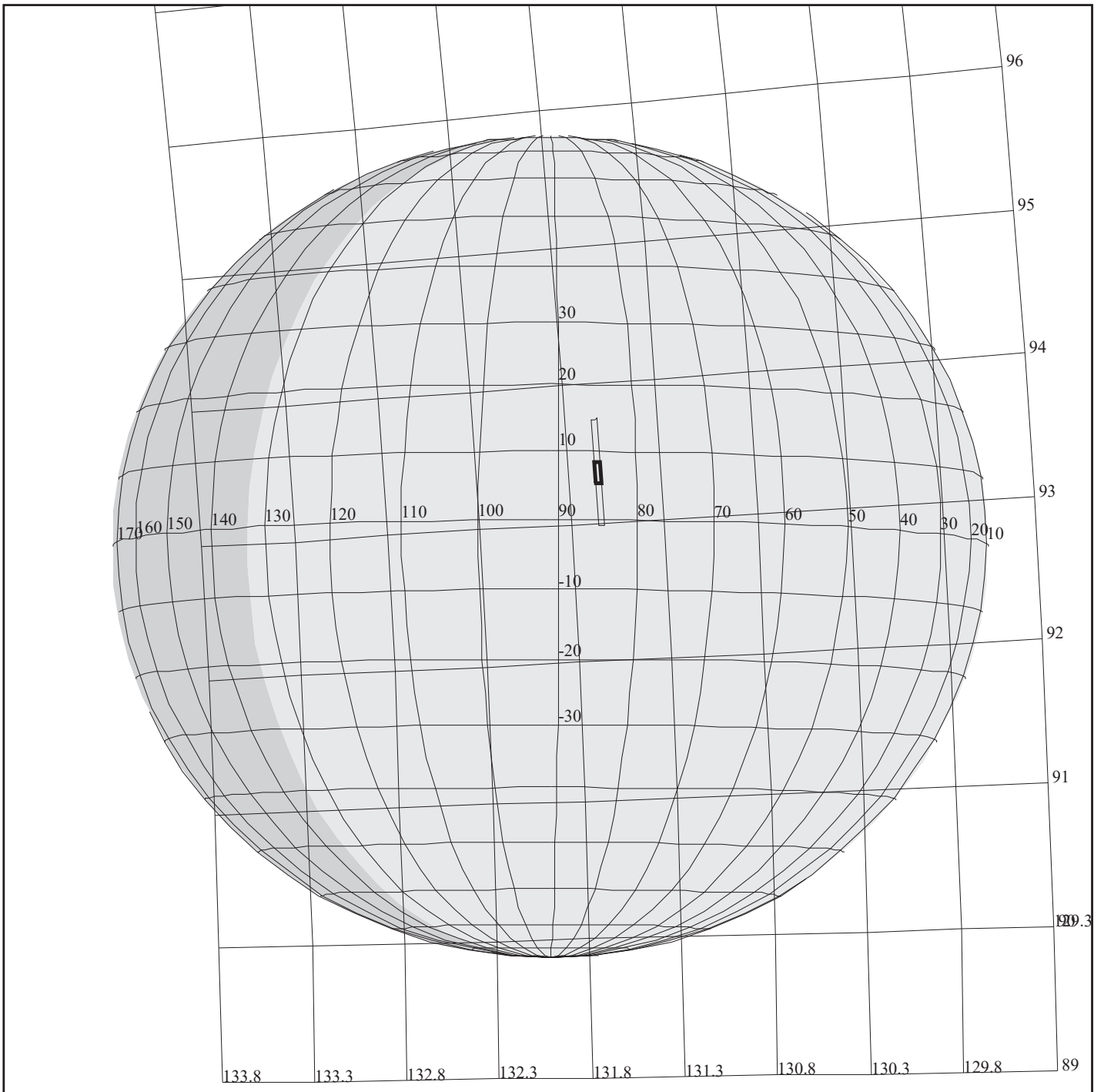
165DA:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/1109 TC= 1(7 93 )  
A= 728 pD= 0 SR=17.450 RA50=231.87 DEC50=-17.13 cone=132.10 clock= 93.43  
118DA:#SB= 3 Cs= 0.00 XCs= 0.00 TPP= 108 SR= 0.010 RR=10.000 BM=F RC= 1 BS= 0/1109  
1:#s= 1 #p= 1 Cr= -6.90 XCr= 0.00  
2:#s= 1 #p= 1 Cr= -7.10 XCr= -0.50  
3:#s= 1 #p= 1 Cr= 1.25 XCr= -18.00

THINNING:NIM 1

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

DESCRIP:Longmap jailbar sampling JJBARS

JJBARS	ACTIVITY ID: G1JNJJBARS01-		START TIME: 96-178/06:59:57.600	
Activity ID: Orbit G1 Target J Inst N OAPEL JJBARS SeqNo 01 -				
Title	JJBARS	Instrument		NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS Working Group	AWG
Time System	CDS	Load ID	G1A	Calendar Date 06/26/96 Week 26
Start	JEE-CDS 2464:00:0	96-178/06:59:57.600	JEE-001/17:31:22.666	
End	JEE-CDS 2458:00:0	96-178/07:06:01.600	JEE-001/17:25:18.666	
Duration	6:00:0	000/00:06:04.000	000/00:06:04.000	
Top Label	G1JNJJBARS01-			
Bottom Label				
Plot Key	NIMS	Type	SCI	
CDS Bytes	201	Report Options	BOTH	
CDS Source	OAP	Spin State	DUAL	Scan Platform Yes
			DMS	Yes
Observation Objective				
<p>Jail-bar full spectral sampling of 3 locations on Jupiter.  Observation uses wavelength table JFE408A (i.e., all 408 wavelengths;  table also used in C9JNGRSFUL01).</p>				
No Data Returned				
Design Detail				
<p>Longmap jailbar sampling of 3 regions on Jupiter. Two regions sampled along the central meridian, at 6 degrees north latitude (PES latitude) and 23 degrees south latitude (i.e., GRS). One extra region placed 10 degrees West of central meridian centered at 6 degrees north latitude. At each jailbar, 3 spectra are recorded (26 secs for all 3 spectra). Each reposition slew to next jailbar position takes 8 seconds. Total record time for all 3 positions: 94 seconds. At 28.8 Kbps, 0.012 tracks used, accumulating 0.45 MBTG in 408 colors. Spacecraft range about 1.8 million Km. NIMS IFOV 900 KM. Phase angle about 45 degrees. 4 rims reserved for targetting. G1 tape model requires an 8 minute tape slew after CSMOS ends.</p> <p>Jailbar 1: 93 lon, 0 to 14 lat  Jailbar 2: 83 lon, 0 to 14 lat  Jailbar 3: 84 lon, -28 to -14 lat  Cone: 132 degrees.  Long Map (LM), Gain 2, Grating Start 0, MPW, G1JFE408A, G1JFE408A</p>				
Galileo Activity Plan Form		05/09/96	18:13:51	rev 6/95



**G1JNRTJBAR01**

165DL:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/3657 TC= 1(7 85 )  
 A= 728 pD= 0 SR=17.450 RA50=231.40 DEC50=-17.03 cone=131.64 clock= 93.37  
 118DL:#SB= 1 Cs= 0.00 XCs= 0.00 TPP= 546 SR= 0.010 RR=12.000 BM=F RC= 1 BS= 0/3657  
 1:#s= 1 #p= 1 Cr= 0.00 XCr= 0.00

TARGET G1.0 brad : 4/30/1996 16: 4:13

FILE:P.G1JNRTJBAR01

CENTRAL BODY:JUPITER

MINI:m.target.enc

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS:

THINNING:NIM 2

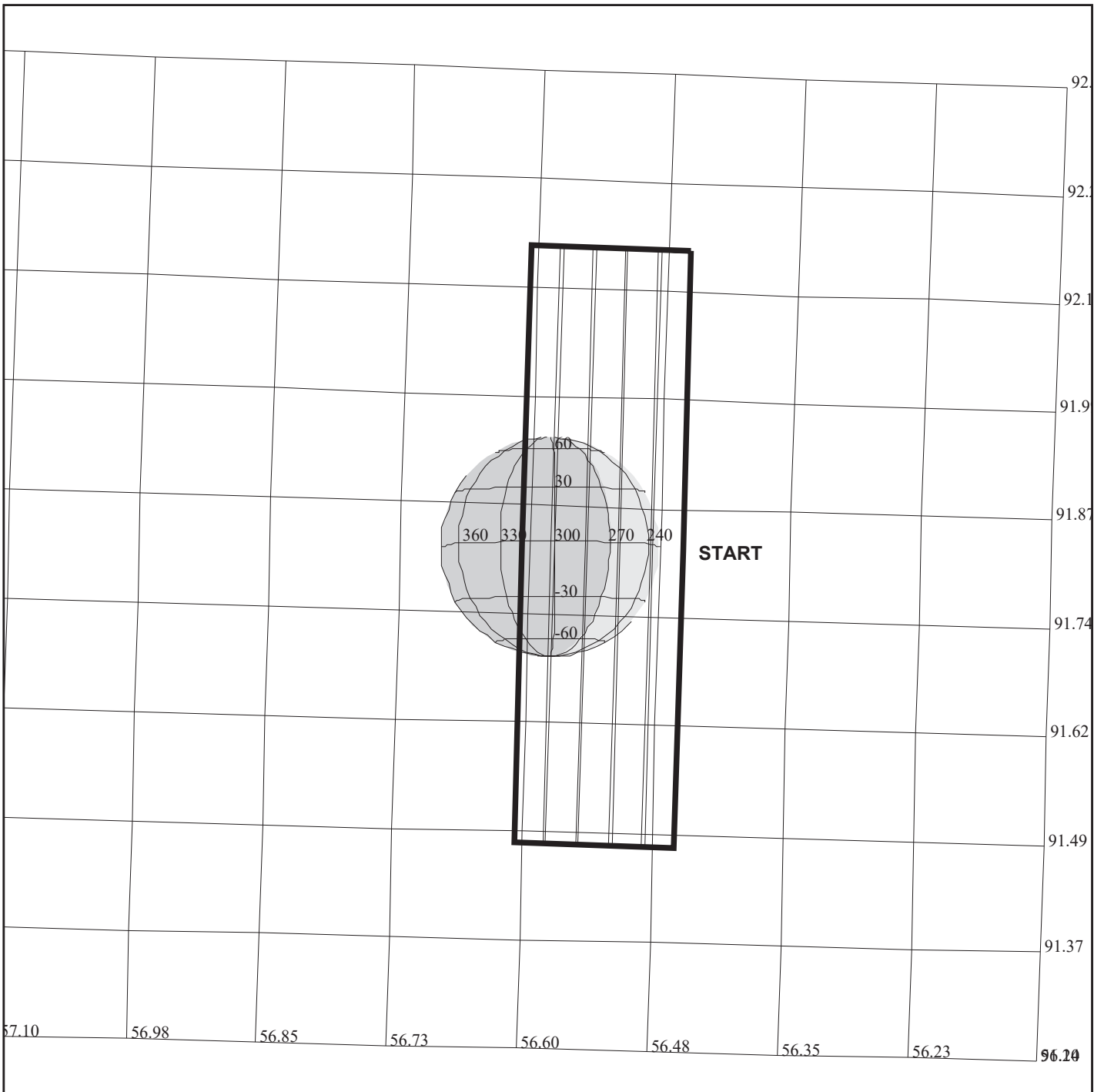
START:JEE 96-180/00:31:20.266 -CDS 2446:00:0

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

OBSERVATION:G1JNRTJBAR01

DESCRIP:Real Time Jupiter Jailbars #1

Real Time Jupiter Jailbars #1		ACTIVITY ID:	G1JNRTJBAR01-		
		START TIME:	96-178/07:14:06.933		
Activity ID: Orbit G1 Target J Inst N OAPEL RTJBAR SeqNo 01 -					
Title	Real Time Jupiter Jailbars #1		Instrument		NIMS
Requestor	NIMS-AWG/K. BAINES		Team	NIMS Working Group	AWG
Time System	CDS	Load ID	G1A	Calendar Date	06/26/96 Week 26
Start	JEE-CDS	2450:00:0	96-178/07:14:06.933	JEE-001/17:17:13.333	
End	JEE-CDS	2443:00:0	96-178/07:21:11.600	JEE-001/17:10:08.666	
Duration		7:00:0	000/00:07:04.667	000/00:07:04.667	
Top Label	G1JNRTJBAR01-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH		
CDS Source	OAP	Spin State	DUAL	Scan Platform	Yes
				DMS	No
Observation Objective					
<p>Hotspot latitude real time jailbar sampling.  Four longmap, full 408-wavelengths spectra acquired at lat 7, lon 85.  Mirror blocking is used to return 4 mirror positions only.</p>					
Data Returned					
Design Detail					
<p>One 4-nimsel longmap observation at the 6 degree north hotspot latitude (centered on the central meridian). Four spectra are acquired at this location. Each spectrum takes just 8.666 seconds to acquire, with data put in buffer. Spacecraft distance approximately 1.7 million KM, yielding 850 Km/nimsel. 4 Rims reserved for targetting. 4 mirror positions.  Jailbar 1: 85 lon, 7 lat</p> <p>Cone: 132 degrees.</p>					
Long Map (LM), Gain 2, Grating Start 0, R/T, G1JFE408A					
Galileo Activity Plan Form			05/09/96	18:13:52	rev 6/95



**G1CNGLOBAL01**

165FA:TT= 0 TMC= 1 C= -2.10 XC= 0.00 BS= 0/1533 TC= 3  
 A= 364 pD= 0 SR=17.450 RA50=160.99 DEC50= 11.52 cone= 56.46 clock= 91.82  
 117FA:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/1533  
 1:#s= 1 Cs= 2.40 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 246 rD= 2

TARGET G1.0 brad : 4/30/1996 16: 4:13

FILE:P.G1CNGLOBAL01

TARGET BODY : CALLISTO

MINI:m.target.enc

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS:

THINNING:NIM 2

START:CEE 96-179/13:12:52.933 -CDS 1457:00:0

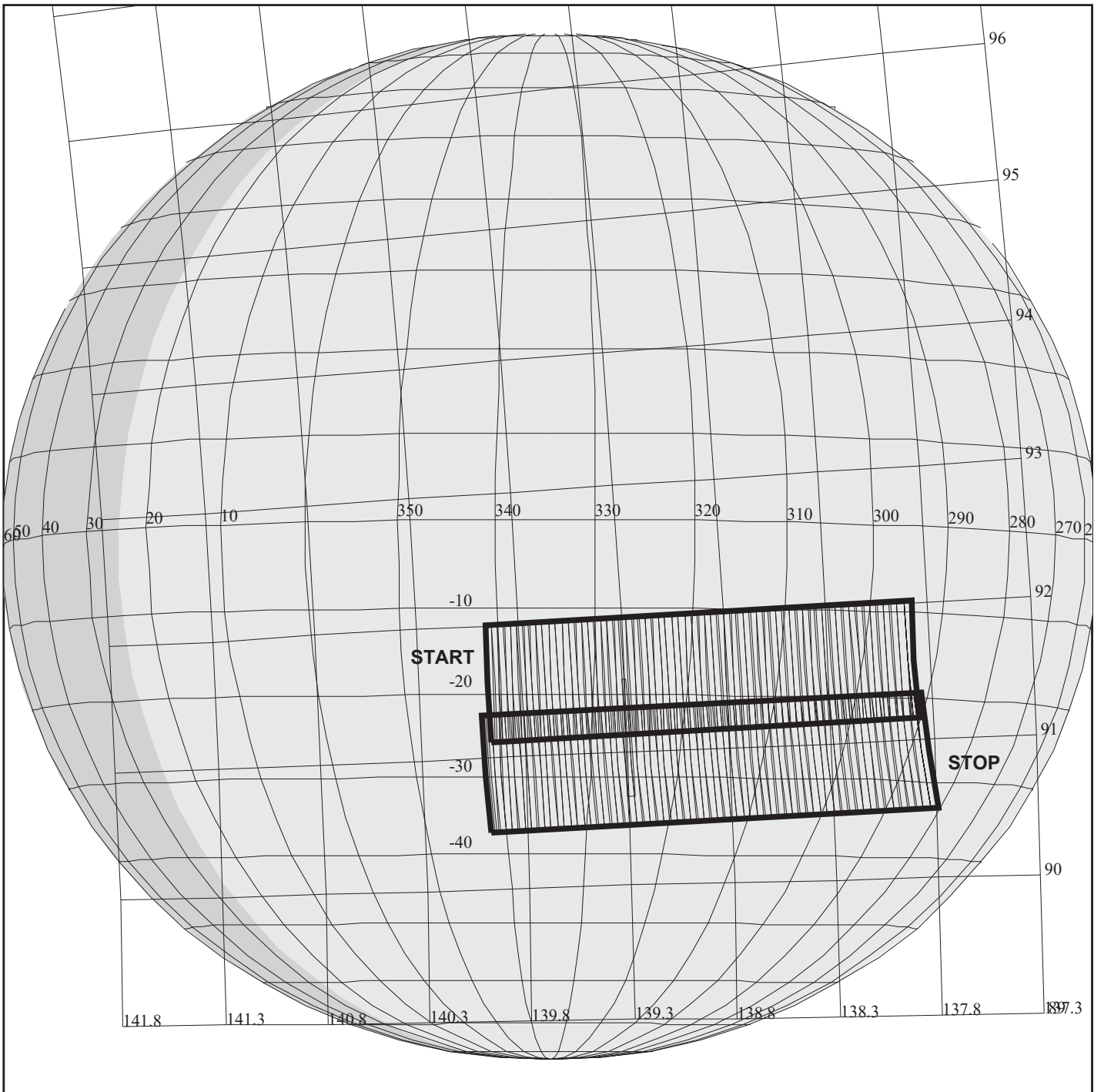
BODY PLOT TIME:TARGET-TIME D= 0 S= 0.200

OBSERVATION:G1CNGLOBAL01

DESCRIP:Callisto Global Observation



Callisto Global Composition Map		ACTIVITY ID:	G1CNGLOBAL01-		
		START TIME:	96-178/12:37:40.267		
Activity ID: Orbit G1 Target C Inst N OAPEL GLOBAL SeqNo 01 -					
Title	Callisto Global Composition Map		Instrument		NIMS
Requestor	NIMS-SWG/M. SEGURA		Team	NIMS Working Group	SWG
Time System	CDS	Load ID	G1A	Calendar Date	06/26/96 Week 26
Start	CEE-CDS	1459:00:0	96-178/12:37:40.267	CEE-001/00:35:12.666	
End	CEE-CDS	1453:00:0	96-178/12:43:44.267	CEE-001/00:29:08.666	
Duration		6:00:0	000/00:06:04.000	000/00:06:04.000	
Top Label	G1CNGLOBAL01-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	178	Report Options	BOTH		
CDS Source	OAP	Spin State	DUAL	Scan Platform	Yes
				DMS	Yes
Observation Objective					
<p>To obtain a global composition map of Callisto at the highest spectral resolution possible. To investigate surface mineralogy and composition. This will be NIMS first look at Callisto and the data will be used to aid in the selection of wavelength playback in subsequent orbits.</p>					
Data Returned					
Design Detail					
<p>Continuous slew mosaic at Nyquist frequency over all visible longitude and latitudes to be executed at Callisto closest approach. Observation contains one swath.  Instrument mode: LM (Long Map)  Instrument gain: 4  Phase angle: 75.94  Spatial resolution: 955 km/NIMSel  Spectral resolution: 204 wavelengths  Coverage in NIMSels: Global  Record: LPU</p> <p>Cone: 56 degrees.</p> <p>Long Map (LM), Gain 4, Grating Start 0, LPU, G1CLM245, G1CLM228</p>					
Galileo Activity Plan Form			05/09/96	18:13:52	rev 6/95



**G1JNGRS04102**

165DE:TT= 0 TMC= 1 C= 18.00 XC= 4.00 BS= 0/8459 TC= 1(-23 318 )  
 A= 364 pD= 0 SR=17.430 RA50=239.41 DEC50=-20.62 cone=139.93 clock=91.57  
 117DE:#SB= 1 OR= 0.110 RR=12.000 BM=F RC= 1 BS= 0/8459  
 1:#s= 2 Cs= -36.00 XCs= 0.00 Cr= 36.00 XCr= -8.00 sD= 960 rD= 30

TARGET G1.0 brad : 4/30/1996 16: 4:13

FILE:P.G1JNGRS04102

CENTRAL BODY:JUPITER

MINI:m.target.enc

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS:

THINNING:NIM

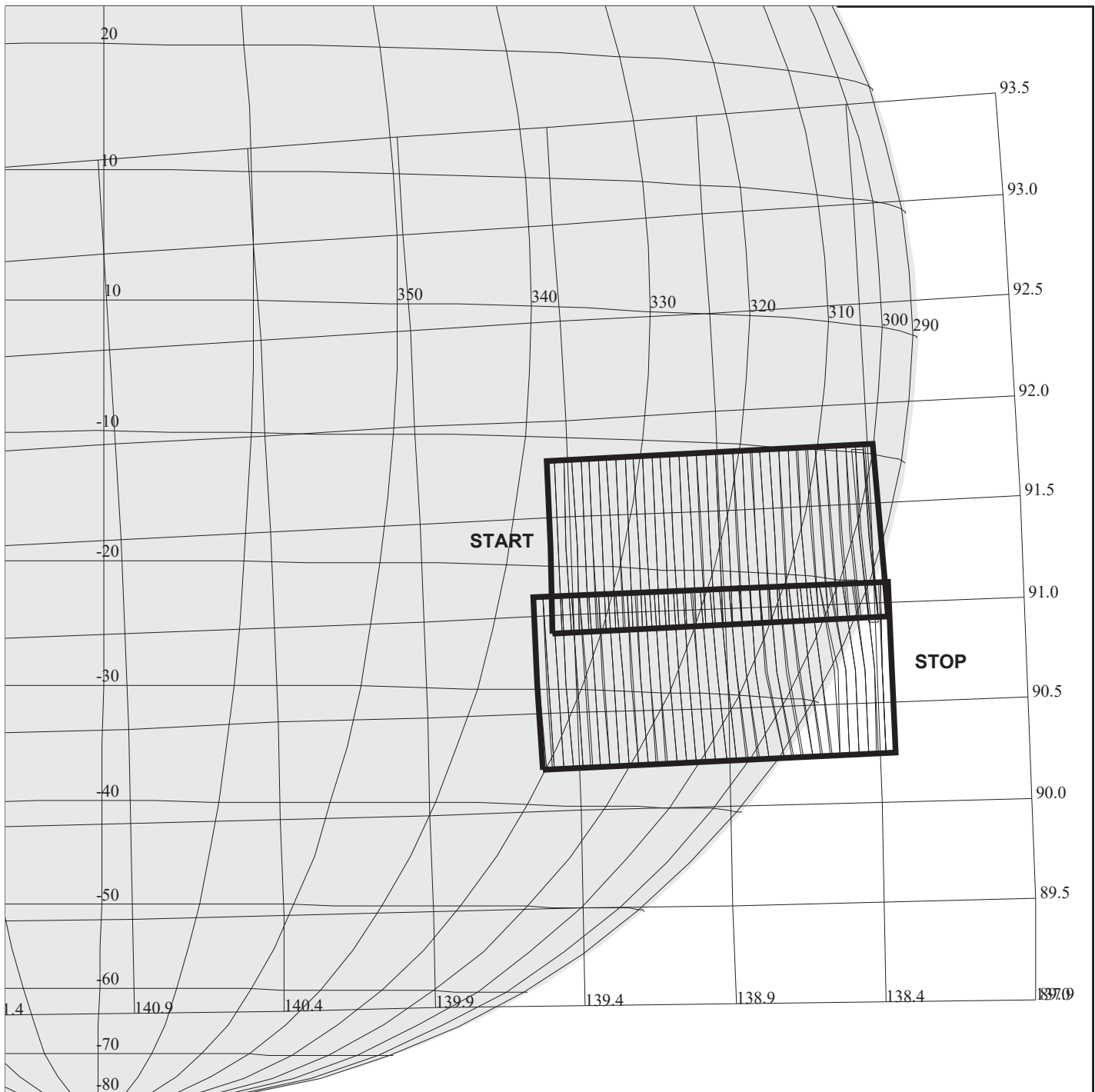
START:JTE 96-180/00:31:20.266 -CDS 2035:00:0

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

OBSERVATION:G1JNGRS04102

DESCRIP:GRS PHASE 41 #2

GRS 41 Phase #2		ACTIVITY ID: G1JNGRS04102-	
		START TIME: 96-178/14:11:42.266	
Activity ID: Orbit G1 Target J Inst N OAPEL GRS041 SeqNo 02 -			
Title	GRS 41 Phase #2	Instrument	
Requestor	NIMS-AWG/K. BAINES	Team	NIMS Working Group
			NIMS AWG
Time System	CDS	Load ID	G1A
		Calendar Date	06/26/96
		Week	26
Start	JTE-CDS 2037:00:0	96-178/14:11:42.266	JTE-001/10:19:38.000
End	JTE-CDS 2024:00:0	96-178/14:24:50.933	JTE-001/10:06:29.333
Duration	13:00:0	000/00:13:08.667	000/00:13:08.667
Top Label	G1JNGRS04102-		
Bottom Label			
Plot Key	NIMS	Type	SCI
CDS Bytes	193	Report Options	BOTH
CDS Source	OAP	Spin State	DUAL
		Scan Platform	Yes
		DMS	Yes
Observation Objective			
41 degree phase observation of Great Red Spot (GRS) near minimum airmass. First of 2 observations acquired on this rotation, GRS assumed located at 321 degrees west longitude (System III), 23 degrees south latitude, 68 colors recorded using wavelength table JFT68C.			
Data Returned			
Design Detail			
2*3 (~18 mrad N/S by ~30 mrad E/W) shortmap of Great Red Spot. Nyquist sampling E/W. 2 mrad overlap between the two tiers. GRS assumed located at 321 degrees longitude (System III), 23 degrees S. latitude. 4 minutes reserved for targetting. Record duration: 717 seconds, accumulating 0.6441 MBTG in 68 colors and using 0.0241 tracks.			
Short Map (SM), Gain 2, Grating Start 1, LPU, G1JFT68C, G1JFT23A			
Galileo Activity Plan Form		05/09/96 18:13:52	rev 6/95



**G1JNGRS04103**

165DG:TT= 0 TMC=1 C= 9.50 XC= 4.00 BS= 0/9561 TC= 1(-23 318 )  
 A= 364 pD= 0 SR=17.430 RA50=238.85 DEC50=-20.65 cone=139.43 clock=91.31  
 117DG:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/9561  
 1:#s= 2 Cs= -18.00 XCs= 0.00 Cr= 19.00 XCr= -8.00 sD= 516 rD= 30

TARGET G1.0 brad : 4/30/1996 16: 4:13

FILE:P.G1JNGRS04103

CENTRAL BODY:JUPITER

MINI:m.target.enc

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS:

THINNING:NIM 2

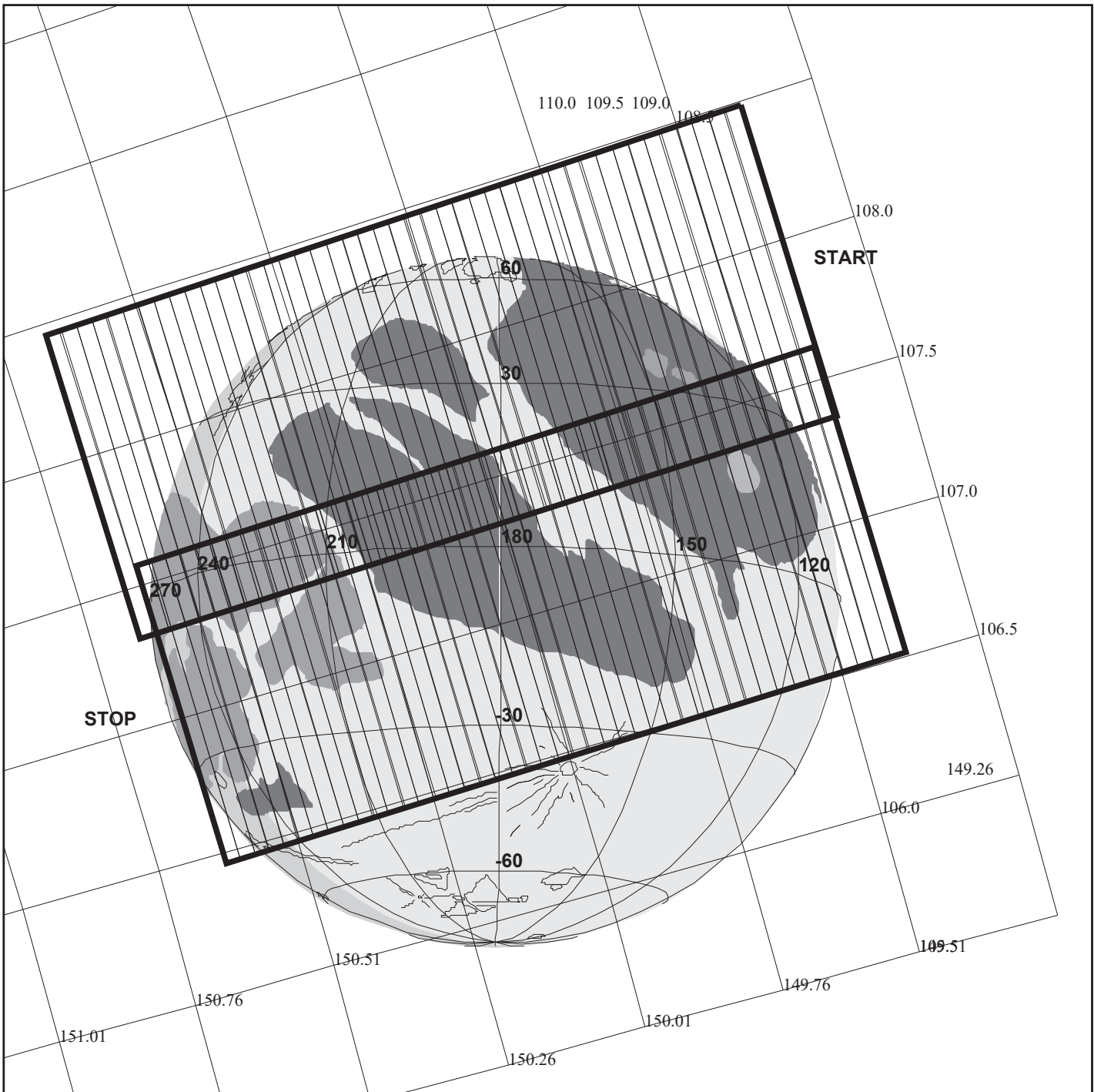
START:JTE 96-180/00:31:20.266 -CDS 1974:00:0

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

OBSERVATION:G1JNGRS04103

DESCRIP:GRS PHASE 41 #3

GRS 41 Phase #3		ACTIVITY ID: G1JNGRS04103-	
		START TIME: 96-178/15:13:22.933	
Activity ID: Orbit G1 Target J Inst N OAPEL GRS041 SeqNo 03 -			
Title	GRS 41 Phase #3	Instrument	
Requestor	NIMS-AWG/K. BAINES	Team	NIMS Working Group
			NIMS AWG
Time System	CDS	Load ID	G1A
		Calendar Date	06/26/96
		Week	26
Start	JTE-CDS 1976:00:0	96-178/15:13:22.933	JTE-001/09:17:57.333
End	JTE-CDS 1968:05:0	96-178/15:21:24.933	JTE-001/09:09:55.333
Duration	7:86:0	000/00:08:02.000	000/00:08:02.000
Top Label	G1JNGRS04103-		
Bottom Label			
Plot Key	NIMS	Type	SCI
CDS Bytes	162	Report Options	BOTH
CDS Source	OAP	Spin State	DUAL
		Scan Platform	Yes
		DMS	Yes
Observation Objective			
<p>41 degree phase observation of Great Red Spot (GRS) near evening terminator. Second of 2 observations acquired on this rotation, GRS assumed located at 321 degrees west longitude (System III), 23 degrees south latitude, 68 colors recorded using wavelength table JFT68C.</p>			
Data Returned			
Design Detail			
<p>2*2 (~18 mrad N/S by ~20 mrad E/W) shortmap of Great Red Spot. Nyquist sampling E/W. 2 mrad overlap between the two tiers. GRS assumed located at 321 degrees longitude (System III), 23 degrees S. latitude. 2 minutes reserved for targetting. Record duration: 426 seconds, accumulating 0.3827 MBTG in 68 colors and using 0.0143 tracks.</p>			
Short Map (SM), Gain 2, Grating Start 1, LPU, G1JFT68C, G1JFT23A			
Galileo Activity Plan Form		05/09/96 18:13:52	rev 6/95



**G1GNGLOBAL01**

165DI:TT= 0 TMC= 1 C= -11.50 XC= 7.35 BS= 0/6719 TC= 3  
 A= 546 pD= 0 SR=17.450 RA50=252.00 DEC50=-14.83 cone=149.40 clock=107.89  
 117DI:#SB= 1 OR= 0.030 RR= 7.000 BM=F RC= 1 BS= 0/6719  
 1:#s= 2 Cs= 22.60 XCs= 0.00 Cr= -22.70 XCr= -7.50 sD= 2266 rD= 22

DESIGN G1.0 clec : 5/22/1996 11:22: 8

FILE:P.G1GNGLOBAL01

TARGET BODY : GANYMEDE

MINI:m.G1GNGLOBAL01

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS:

THINNING:NIM 2

START:GEE 96-179/06:29:26.933 -CDS 535:00:0

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.700

OBSERVATION:G1GNGLOBAL01

DESCRIP:Global\_observation\_of\_Ganymede

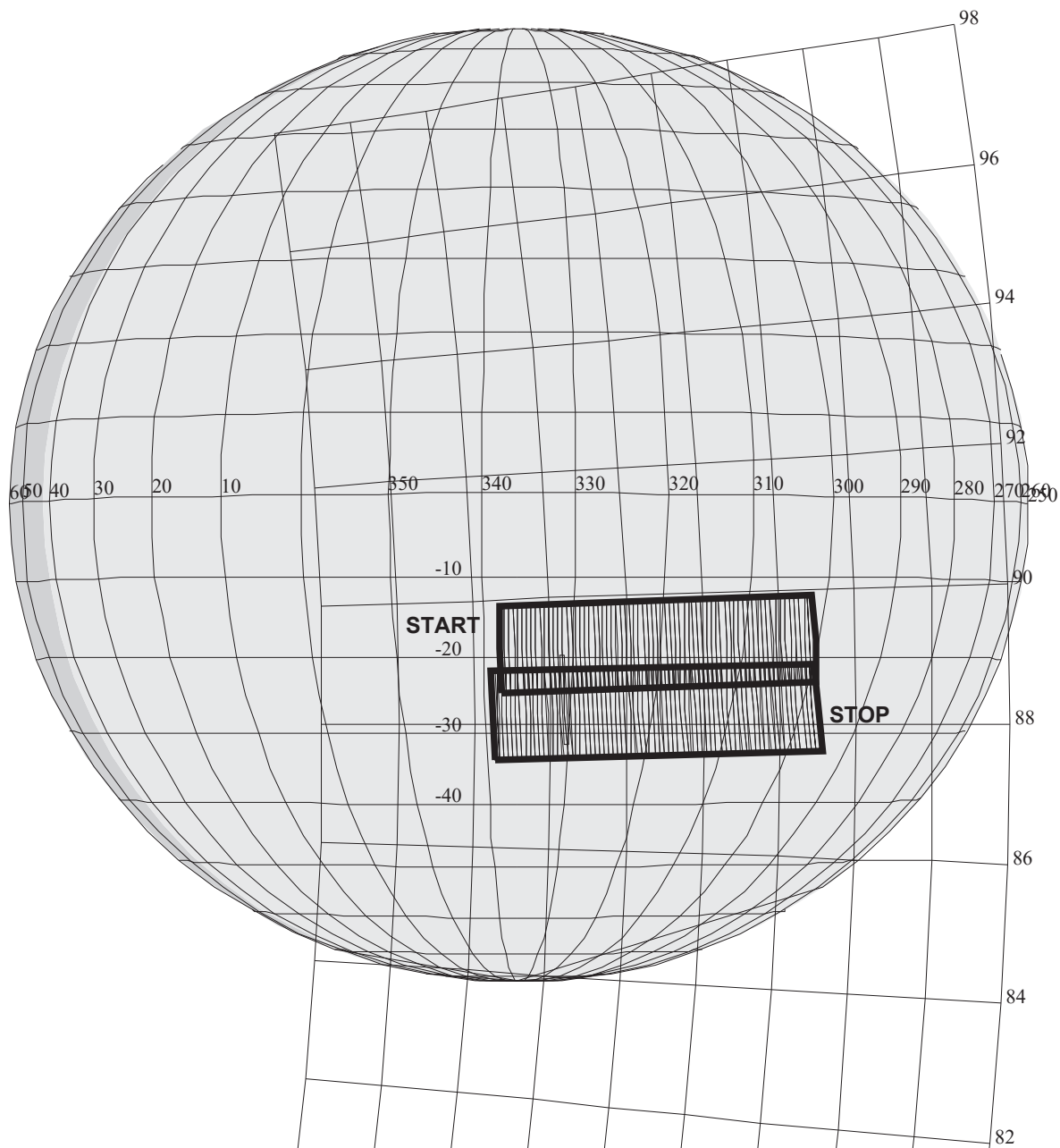
GANYMEDE GLOBAL SURFACE MAP		ACTIVITY ID:	G1GNGLOBAL01-		
		START TIME:	96-178/21:23:26.933		
Activity ID: Orbit G1 Target G Inst N OAPEL GLOBAL SeqNo 01 -					
Title	GANYMEDE GLOBAL SURFACE MAP			Instrument	NIMS
Requestor	NIMS-SWG/J. HUI 3-1224	Team	NIMS Working Group		SWG
Time System	CDS	Load ID	G1A	Calendar Date	06/26/96 Week 26
Start	GEE-CDS 540:00:0		96-178/21:23:26.933	GEE-000/09:06:00.000	
End	GEE-CDS 510:00:0		96-178/21:53:45.600	GEE-000/08:35:41.333	
Duration	29:89:0		000/00:30:18.667	000/00:30:18.667	
Top Label	G1GNGLOBAL01-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	178	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes
Observation Objective					
<p>To obtain high spectral resolution map of the whole satellite disk. This observation investigates the surface mineralogy and determines the distribution of compositional units in a global context. The global map can be used to compare Ganymede's similarity to or difference from the other satellites.</p>					
Data Returned					
Design Detail					
<p>This is first of 5 global observations to cover all longitudes. Continuous slew mosaic (CSMOS) over all lit surface. Scan platform slew rate is 0.03 mrad/sec, to achieve Nyquist sampling rate. This observation consists of three swaths.</p> <p>Spatial resolution: &lt;114&gt; km/NIMSel; Phase:&lt;30&gt; degrees  Incidence angle:&lt;80&gt; degrees; Emission angle:&lt;70&gt; degrees  NIMS mode: LM (Long Map); gain:3  chopper: Reference; grating start position: 0  grating offset: 4; # wavelengths: 228 recorded  Record format: LPU</p> <p>A track change is forced during the observation to track 3 from 2.  Cone: 150 degrees.  This observation is in two parts. This is the first part.</p>					
Long Map (LM), Gain 2, Grating Start 0, LPU, G1GLM245D, G1GLM228					
Galileo Activity Plan Form			05/09/96 18:13:52	rev 6/95	







GANYMEDE GLOBAL SURFACE MAP		ACTIVITY ID: G1GNGLOBAL02-	
		START TIME: 96-178/22:12:59.600	
Activity ID: Orbit G1 Target G Inst N OAPEL GLOBAL SeqNo 02 -			
Title	GANYMEDE GLOBAL SURFACE MAP		Instrument
Requestor	NIMS-SWG/J. HUI 3-1224	Team	NIMS Working Group
			NIMS SWG
Time System	CDS	Load ID	G1A
		Calendar Date	06/26/96
		Week	26
Start	GEE-CDS 491:00:0	96-178/22:12:59.600	GEE-000/08:16:27.333
End	GEE-CDS 475:35:0	96-178/22:28:46.933	GEE-000/08:00:40.000
Duration	15:56:0	000/00:15:47.333	000/00:15:47.333
Top Label	G1GNGLOBAL02-		
Bottom Label			
Plot Key	NIMS	Type	SCI
CDS Bytes	178	Report Options	BOTH
CDS Source	OAP	Spin State	DUAL
		Scan Platform	Yes
		DMS	Yes
Observation Objective			
<p>To obtain high spectral resolution map of the whole satellite disk. This observation investigates the surface mineralogy and determines the distribution of compositional units in a global context. The global map can be used to compare Ganymede's similarity to or difference from the other satellites.</p>			
Data Returned			
Design Detail			
<p>This is first of 5 global observations to cover all longitudes. Continuous slew mosaic (CSMOS) over all lit surface. Scan platform slew rate is 0.03 mrad/sec, to achieve Nyquist sampling rate. This observation consists of three swaths.</p> <p>Spatial resolution: &lt;114&gt; km/NIMSel; Phase:&lt;30&gt; degrees  Incidence angle:&lt;80&gt; degrees; Emission angle:&lt;70&gt; degrees  NIMS mode: LM (Long Map); gain:3  chopper: Reference; grating start position: 0  grating offset: 4; # wavelengths: 228 recorded  Record format: LPU</p> <p>A track change is forced during the observation to track 3 from 2.  Cone: 150 degrees.  This observation is in two parts. This is the second part.</p>			
Long Map (LM), Gain 2, Grating Start 0, LPU, G1GLM245D, G1GLM228			
Galileo Activity Plan Form		05/09/96 18:13:52	rev 6/95



## G1JNGRS02501

165FV:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/0935 TC= 1(-19 338 )  
 A= 182 pD= 0 SR=17.430 RA50=256.35 DEC50=-24.80 cone=156.04 clock= 89.21  
 117FV:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/0935  
 1:#s= 2 Cs= -35.00 XCs= 0.00 Cr= 36.00 XCr= -8.00 sD= 972 rD= 36

TARGET G1.0 brad : 4/30/1996 16: 4:13

FILE:P.G1JNGRS02501

CENTRAL BODY:JUPITER

MINI:m.target.enc

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS:

START:JTE 96-180/00:31:20.266 -CDS 1417:00:0

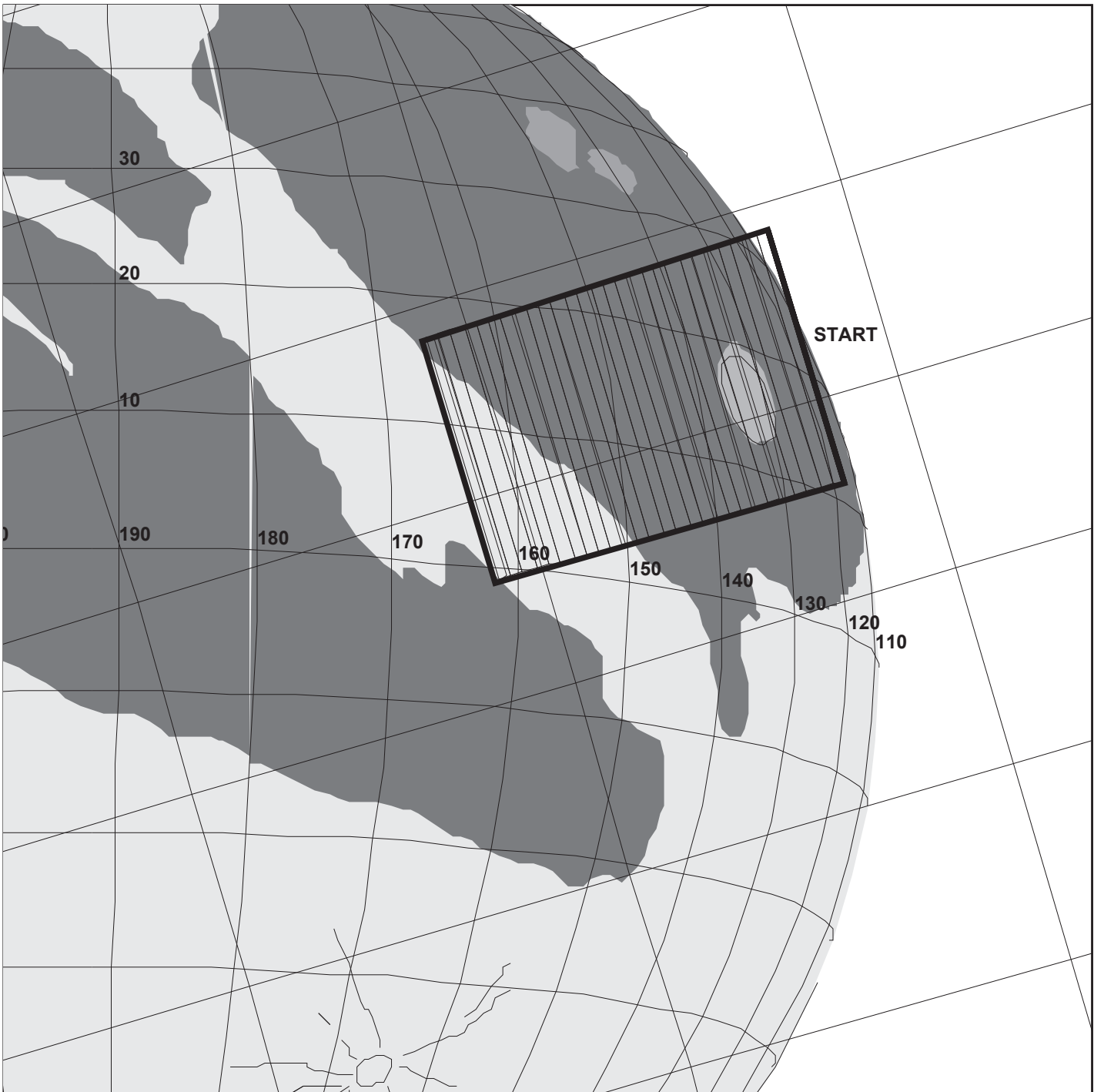
OBSERVATION:G1JNGRS02501

THINNING:NIM 2

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

DESCRIP:GRS PHASE 25 #1

GRS 25 Phase #1		ACTIVITY ID: G1JNGRS02501-	
		START TIME: 96-179/00:37:34.933	
Activity ID: Orbit G1 Target J Inst N OAPEL GRS025 SeqNo 01 -			
Title	GRS 25 Phase #1	Instrument	
Requestor	NIMS-AWG/K. BAINES	Team NIMS	NIMS Working Group
			AWG
Time System	CDS	Load ID	G1A
		Calendar Date	06/27/96
		Week	26
Start	JEE-CDS 1418:00:0	96-179/00:37:34.933	JEE-000/23:53:45.333
End	JEE-CDS 1406:00:0	96-179/00:49:42.933	JEE-000/23:41:37.333
Duration	12:00:0	000/00:12:08.000	000/00:12:08.000
Top Label	G1JNGRS02501-		
Bottom Label			
Plot Key	NIMS	Type	SCI
CDS Bytes	184	Report Options	BOTH
CDS Source	OAP	Spin State	DUAL
		Scan Platform	Yes
		DMS	Yes
Observation Objective			
<p>25 degree phase observation of Great Red Spot (GRS) near central meridian. This is the only observation acquired on this rotation. GRS assumed located at 321 degrees west longitude (System III), 23 degrees south latitude, 4 colors recorded using wavelength table JFT04A.</p>			
Data Returned			
Design Detail			
<p>2*3 (~18 mrad N/S by ~30 mrad E/W) shortmap of Great Red Spot. Use minimum time from prior Jupiter observation for targetting. Nyquist sampling E/W. 2 mrad overlap between the two tiers. GRS assumed located at 321 degrees longitude (System III), 23 degrees S. latitude. Record duration 723 seconds, accumulating 0.1847 MBTG in 4 colors and using 0.0243 tracks.</p> <p>Cone: 156 degrees.</p>			
Short Map (SM), Gain 2, Grating Start 1, LPU, G1JFT68A, G1JFT19C			
Galileo Activity Plan Form		05/09/96 18:13:52	rev 6/95



165DK:TT= 0 TMC=1 C= -2.50 XC= 1.00 BS= 0/8963 TC= 1(15.5 133 )  
 A= 728 pD= 1456 SR=17.450 RA50=251.95 DEC50=-15.18 cone=149.50 clock=107.23  
 117DK:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/8963  
 1:#s= 1 Cs= 13.80 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 1456 rD= 2

## G1GNMEMPIS01

DESIGN G1.0 clec : 5/23/1996 7:31:17

FILE:P.G1GNMEMPIS01

TARGET BODY : GANYMEDE

MINI:m.G1GNMEMPIS01

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS:

START:GTE 96-179/06:29:26.933 -CDS 193:00:0

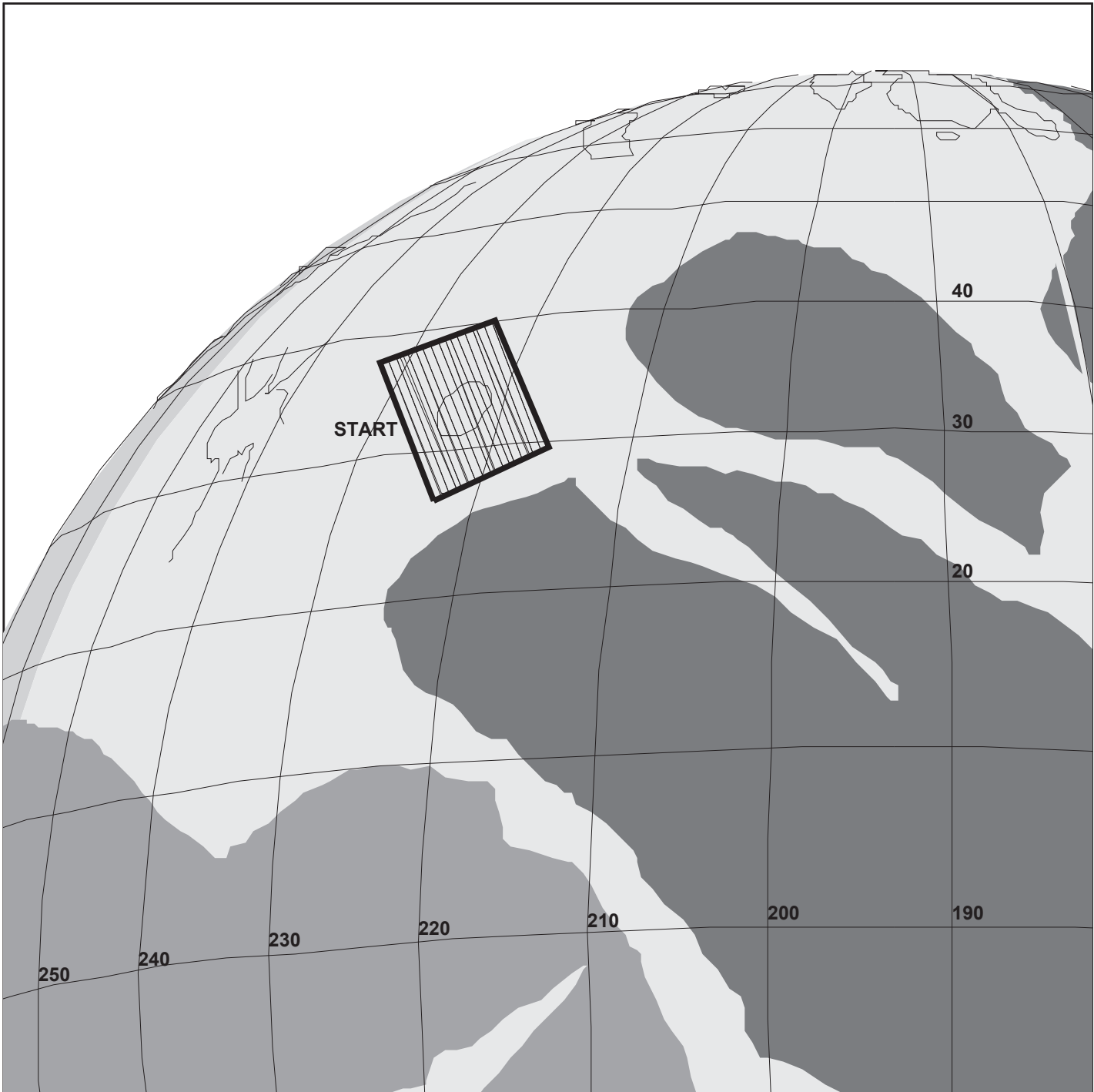
OBSERVATION:G1GNMEMPIS01

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 1456 S= 0.800

DESCRIP:Memphis Facula&dark furrow regio

Memphis Facula Furrows/Palimpsest		ACTIVITY ID:	G1GNMEMPIS01-		
		START TIME:	96-179/03:10:15.600		
Activity ID: Orbit G1 Target G Inst N OAPEL MEMPIS SeqNo 01 -					
Title	Memphis Facula Furrows/Palimpsest		Instrument		NIMS
Requestor	NIMS-SWG/J. HUI 3-1224		Team	NIMS Working Group	SWG
Time System	CDS	Load ID	G1A	Calendar Date	06/27/96 Week 26
Start	GTE-CDS	197:00:0	96-179/03:10:15.600	GTE-000/03:19:11.333	
End	GTE-CDS	183:00:0	96-179/03:24:24.933	GTE-000/03:05:02.000	
Duration		14:00:0	000/00:14:09.333	000/00:14:09.333	
Top Label	G1GNMEMPIS01-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	214	Report Options	BOTH		
CDS Source	OAP	Spin State	DUAL	Scan Platform	Yes
				DMS	Yes
Observation Objective					
<p>To study Memphis Facula and its surroundings. Memphis is located in the leading hemisphere. It is a palimpsest and its surrounding area has dark terrain and furrow structure. The NIMS spectral information can help understand the formation of palimpsests and the mode of emplacement of the furrowed terrains. It can also help the identification of non-water ice materials and the mineralogy of dark material. This observation overlaps with SSI coverage.</p>					
Data Returned					
Design Detail					
<p>One continuous slew across Memphis Facula at slew rate of 0.03 mrad/sec. Longitude covers from 120 to 160 degrees, with Memphis located at latitude ~18 and longitude of ~133.</p> <p>Spatial resolution: &lt;42&gt; km/NIMSel; Phase:&lt;30&gt; degrees  Incidence angle: &lt;30&gt;; Emission angle: &lt;55&gt;  NIMS Mode: LM (Long Map); Gain:3  Chopper: Reference; Grating Start position: 0  Grating offset: 4 # wavelengths: 228 recorded  Record format: LPU</p> <p>Cone: 150 degrees.</p>					
Long Map (LM), Gain 3, Grating Start 0, LPU, G1GLM245F, G1GLM228					
Galileo Activity Plan Form			05/09/96	18:13:52	rev 6/95



## G1GNAMON\_\_01

DESIGN G1.0 clee : 5/22/1996 11:31:15

FILE:P.G1GNAMON\_\_01

TARGET BODY : GANYMEDE

MINI:m.G1GNAMON\_\_01

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS:

START:GTE 96-179/06:29:26.933 -CDS 86:00:0

OBSERVATION:G1GNAMON\_\_01

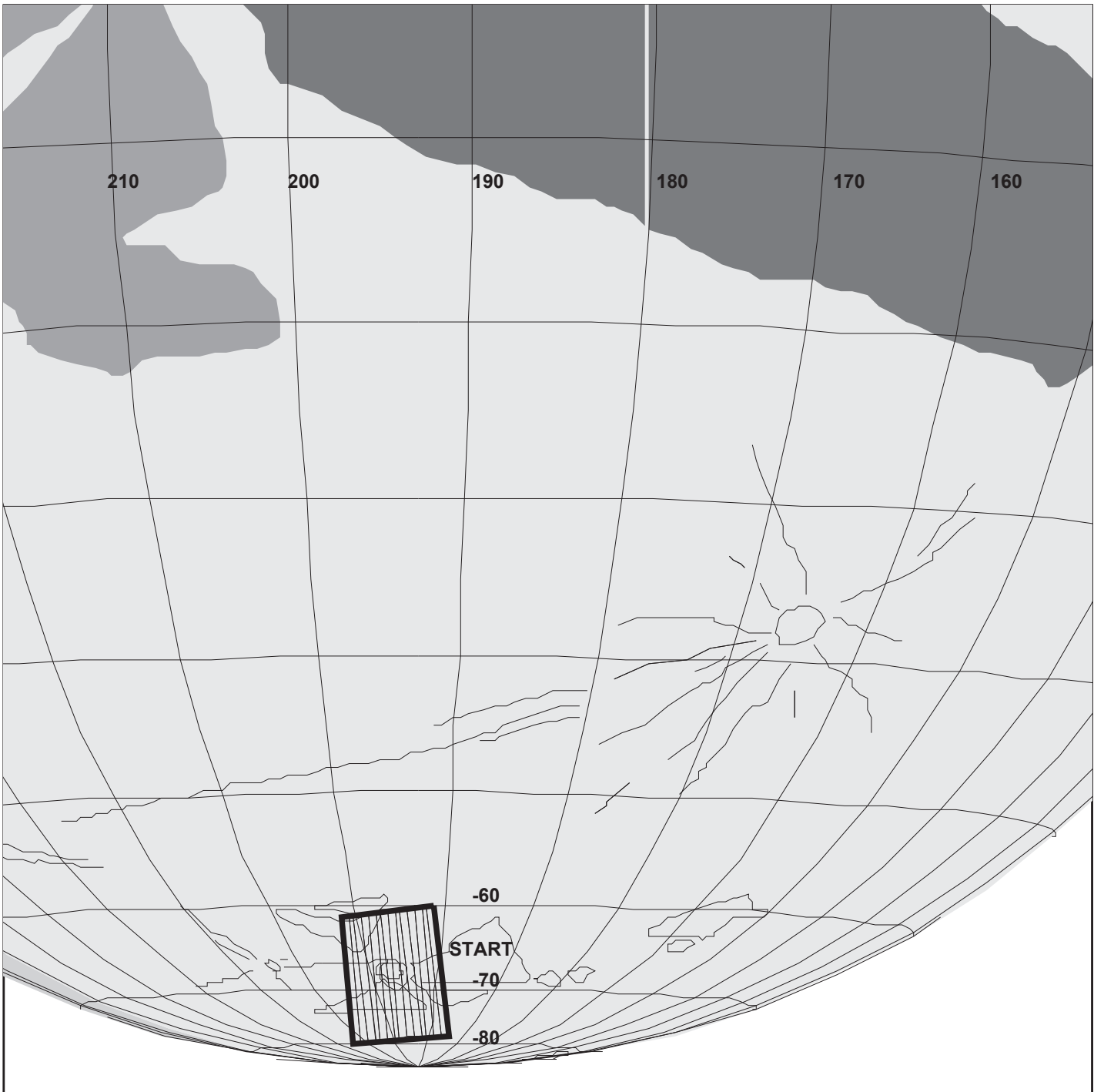
165DN:TT= 0 TMC=1 C= 4.00 XC= 0.00 BS=0/8437 TC=1(33 223 )  
 A= 546 pD= 888 SR=17.450 RA50=258.09 DEC50=-15.48 cone=154.99 clock=112.03  
 117DN:#SB= 1 OR= 0.030 RR= 0.010 BM=F RC= 1 BS= 0/8437  
 1:#s= 1 Cs= -8.80 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 888 rD= 2

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 888 S= 1.000

DESCRIP:Bright\_ray\_crater/endmember\_tra

AMON Bright rayed crater/groove terrain		ACTIVITY ID:	G1GNAMON_01-		
		START TIME:	96-179/04:59:27.600		
Activity ID: Orbit G1 Target G Inst N OAPEL AMON__ SeqNo 01 -					
Title	AMON Bright rayed crater/groove terrain Instrument				NIMS
Requestor	NIMS-SWG/J. HUI 3-1224	Team	NIMS Working Group	SWG	
Time System	CDS	Load ID	G1A	Calendar Date	06/27/96 Week 26
Start	GTE-CDS 89:00:0		96-179/04:59:27.600	GTE-000/01:29:59.333	
End	GTE-CDS 80:00:0		96-179/05:08:33.600	GTE-000/01:20:53.333	
Duration	9:00:0		000/00:09:06.000	000/00:09:06.000	
Top Label	G1GNAMON_01-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	207	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes
Observation Objective					
To study bright ray crater, Amon, grooved terrain, variability among mineralogies of grooved terrains. Also to study bright endmember on trailing hemisphere, identification of ice excavation in impacts.					
Data Returned					
Design Detail					
One continuous slew across the crater and the groove terrain. Amon is located in one end of the swath and the rest of the swath over the groove terrain. Slew rate is 0.03 mrad/sec for Nyquist sampling rate. Amon is located at lat. ~32 and lon. ~222 deg.					
Spatial resolution: <20> km/NIMSel;		Phase angle: <26> degrees			
Incidence angle: <63> degrees;		Emission angle: <54> degrees			
NIMS: Mode: LM (Long Mode);		Gain: 2			
Chopper: Reference;		Grating start position: 0			
Grating offset: 4		# wavelengths: 228 recorded			
Recorded format: LPU					
Cone: 155 degrees.					
Long Map (LM), Gain 2, Grating Start 0, LPU, G1GLM245E, G1GLM228					
Galileo Activity Plan Form			05/09/96	18:13:53	rev 6/95



## G1GNPTAH\_\_01

165DO:TT= 0 TMC=1 C= -3.50 XC= 0.00 BS= 0/0075 TC= 1(-68 196.5 )  
 A= 546 pD= 706 SR=17.450 RA50=255.93 DEC50=-21.97 cone=155.21 clock= 95.83  
 117DO:#SB= 1 OR= 0.030 RR= 0.010 BM=F RC= 1 BS= 0/0075  
 1:#s= 1 Cs= 7.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 706 rD= 2

DESIGN G1.0 clee : 5/23/1996 7:40:30

FILE:P.G1GNPTAH\_\_01

TARGET BODY : GANYMEDE

MINI:m.G1GNPTAH\_\_01

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS:

START:GTE 96-179/06:29:26.933 -CDS 77:00:0

OBSERVATION:G1GNPTAH\_\_01

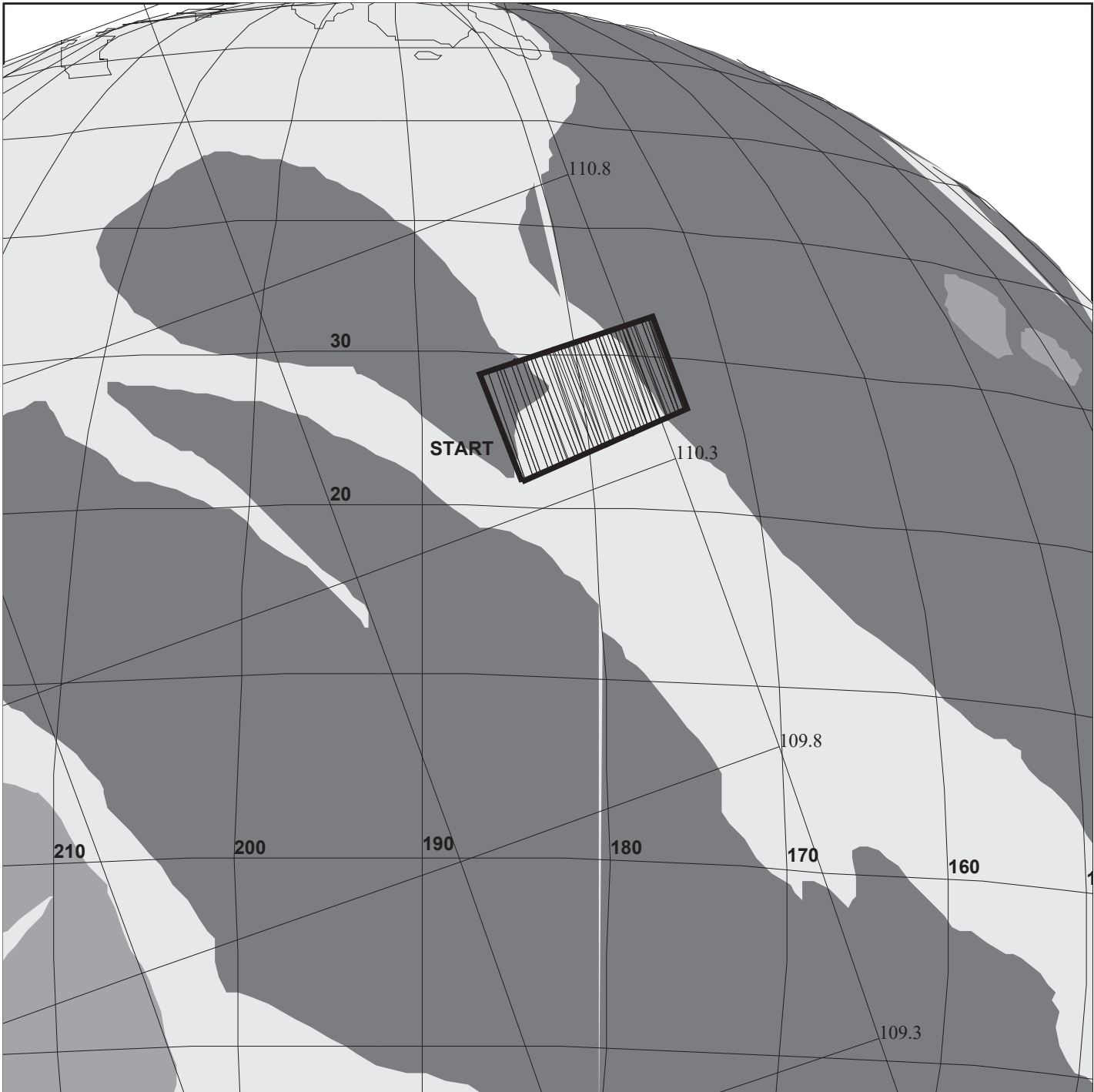
THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 706 S= 1.000

DESCRIP:Ray\_craters/brigt\_s\_pole



RAYED CRATER PTAH		ACTIVITY ID: G1GNPTAH_01-	
		START TIME: 96-179/05:08:33.600	
Activity ID: Orbit G1 Target G Inst N OAPEL PTAH__ SeqNo 01 -			
Title	RAYED CRATER PTAH	Instrument NIMS	
Requestor	NIMS-SWG/J. HUI 3-1224	Team NIMS	Working Group SWG
Time System	CDS	Load ID	G1A
		Calendar Date	06/27/96
		Week	26
Start	GTE-CDS 80:00:0	96-179/05:08:33.600	GTE-000/01:20:53.333
End	GTE-CDS 72:00:0	96-179/05:16:38.933	GTE-000/01:12:48.000
Duration	8:00:0	000/00:08:05.333	000/00:08:05.333
Top Label	G1GNPTAH__01-		
Bottom Label			
Plot Key	NIMS	Type	SCI
CDS Bytes	207	Report Options	BOTH
CDS Source	OAP	Spin State	DUAL
		Scan Platform	Yes
		DMS	Yes
Observation Objective			
To study rayed craters PTAH (near south pole): definition of exogenic/endogenic modification during impacts. The bright areas may trap more volatiles than water.			
Data Returned			
Design Detail			
One continuous slew across the two craters. The slew rate is 0.03 mrad/sec. The swath centers the crater, near the lat ~68 and lon ~200 deg.			
Spatial resolution: <17> km/NIMSE1;		Phase angle: <25> degrees	
Incidence angle: <72> degrees;		Emission angle: <66> degrees	
NIMS Mode: LM (Long Map);		Gain: 3	
Chopper: Reference;		Grating start position: 0	
Grating offset: 4		# wavelengths: 228 recorded	
Record format: LPU			
Cone: 155 degrees.			
Long Map (LM), Gain 2, Grating Start 0, LPU, G1GLM245C, G1GLM228			
Galileo Activity Plan Form		05/09/96 18:13:53	rev 6/95



165DP:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/1713 TC= 1(25 185 )  
 A= 546 pD= 2002 SR=17.450 RA50=256.67 DEC50=-15.81 cone=153.90 clock=109.98  
 117DP:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/1713  
 1:#s= 1 Cs= -19.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 2002 rD= 2

## G1GNNIPPUR01

DESIGN G1.0 clee : 5/23/1996 7:36:32

FILE:P.G1GNNIPPUR01

TARGET BODY : GANYMEDE

MINI:m.G1GNNIPPUR01

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS:

START:GTE 96-179/06:29:26.933 -CDS 68:00:0

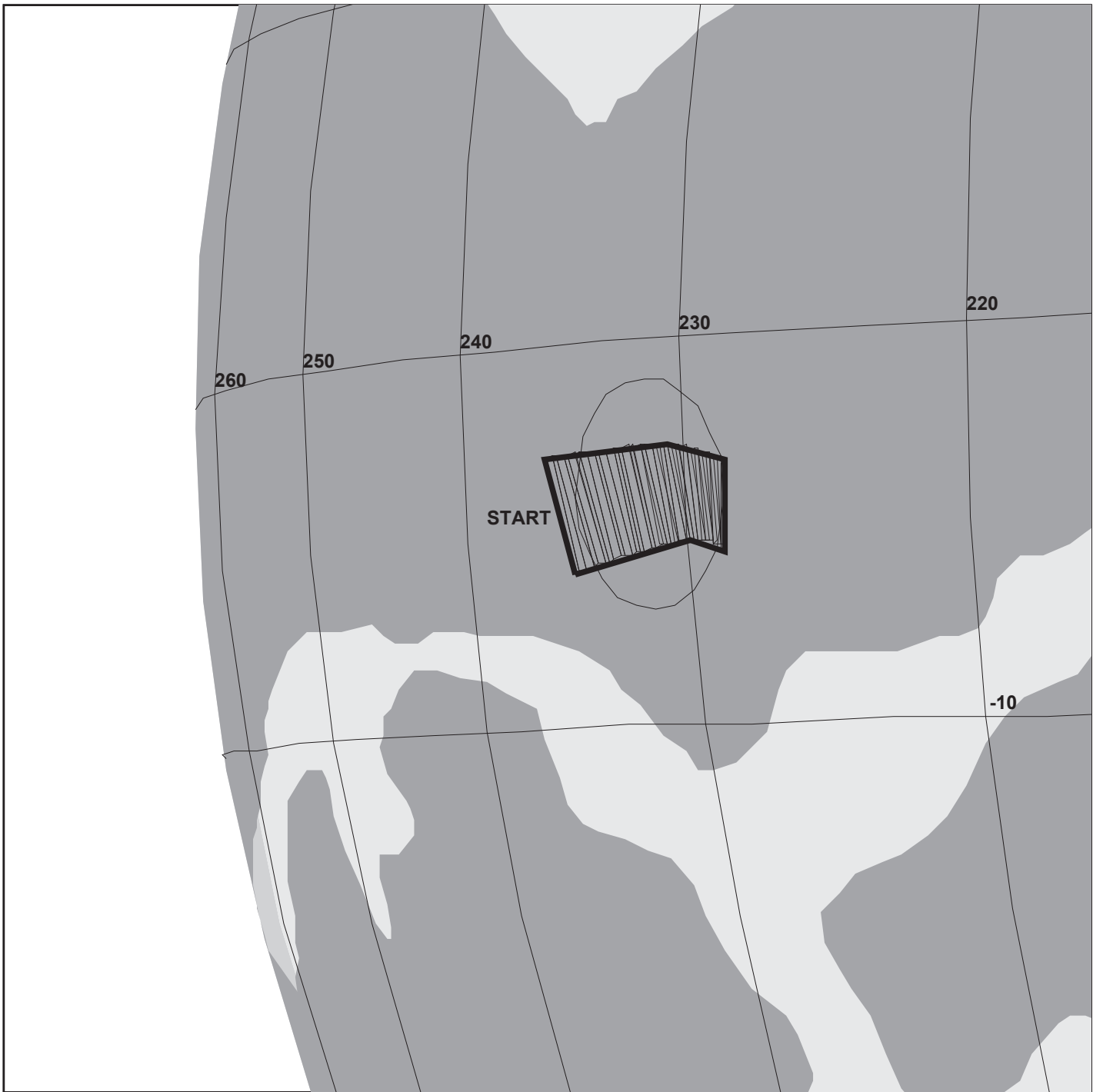
OBSERVATION:G1GNNIPPUR01

THINNING:NIM

BODY PLOT TIME:TARGET-TIME D= 2002 S= 1.000

DESCRIP:Nippur Sulcus groove&furrow

NIPPUR SULCUS (furrows/dark/groove)		ACTIVITY ID:	G1GNNIPPUR01-		
		START TIME:	96-179/05:16:38.933		
Activity ID: Orbit G1 Target G Inst N OAPEL NIPPUR SeqNo 01 -					
Title	NIPPUR SULCUS (furrows/dark/groove)		Instrument	NIMS	
Requestor	NIMS-SWG/J. HUI 3-1224		Team	NIMS Working Group SWG	
Time System	CDS	Load ID	G1A	Calendar Date	06/27/96 Week 26
Start	GTE-CDS	72:00:0		96-179/05:16:38.933	GTE-000/01:12:48.000
End	GTE-CDS	57:00:0		96-179/05:31:48.933	GTE-000/00:57:38.000
Duration		15:00:0		000/00:15:10.000	000/00:15:10.000
Top Label	G1GNNIPPUR01-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	183	Report Options	BOTH		
CDS Source	OAP	Spin State	DUAL		
			Scan Platform	Yes	
			DMS	Yes	
Observation Objective					
To study the variable mineralogy among the grooved and furrowed terrains. Also to search for irradiation generated products (such as SO2 and H2S) in this trailing hemisphere.					
Data Returned					
Design Detail					
One continuous swath across part of the Nippur Suclus area, latitude ~25 degrees and longitude ~180 degrees. Slew rate is 0.03 mrad/sec to achieve Nyquist sampling rate.					
Spatial resolution: <12> km/NIMSEl;		Phase angle: <26> degrees			
Incidence angle: <32> degrees;		Emission angle: <40> degrees			
NIMS Mode: LM (Long Map);		Gain: 3			
Chopper: Reference;		Grating start position: 0			
Grating offset: 4		# wavelengths: 228 recorded			
Record format: LPU					
Cone: 154 degrees.					
Long Map (LM), Gain 3, Grating Start 0, LPU, G1GLM245B, G1GLM228					
Galileo Activity Plan Form			05/09/96	18:13:53	rev 6/95



## G1GNMIRRAY01

165DS:TT= 0 TMC= 1 C= 7.50 XC= 0.00 BS= 0/7901 TC= 1(-4 231.5 )  
 A= 342 pD= 1606 SR=17.440 RA50=271.25 DEC50=-22.87 cone=169.23 clock=103.39  
 117DS:#SB= 1 OR= 0.030 RR=17.450 BM=F RC= 1 BS= 0/7901  
 1:#s= 1 Cs= -16.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 1606 rD= 12

DESIGN G1.0 clee : 5/23/1996 7:33:33

FILE:P.G1GNMIRRAY01

TARGET BODY : GANYMEDE

MINI:m.G1GNMIRRAY01

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS:

START:GTE 96-179/06:29:26.933 -CDS 34:00:0

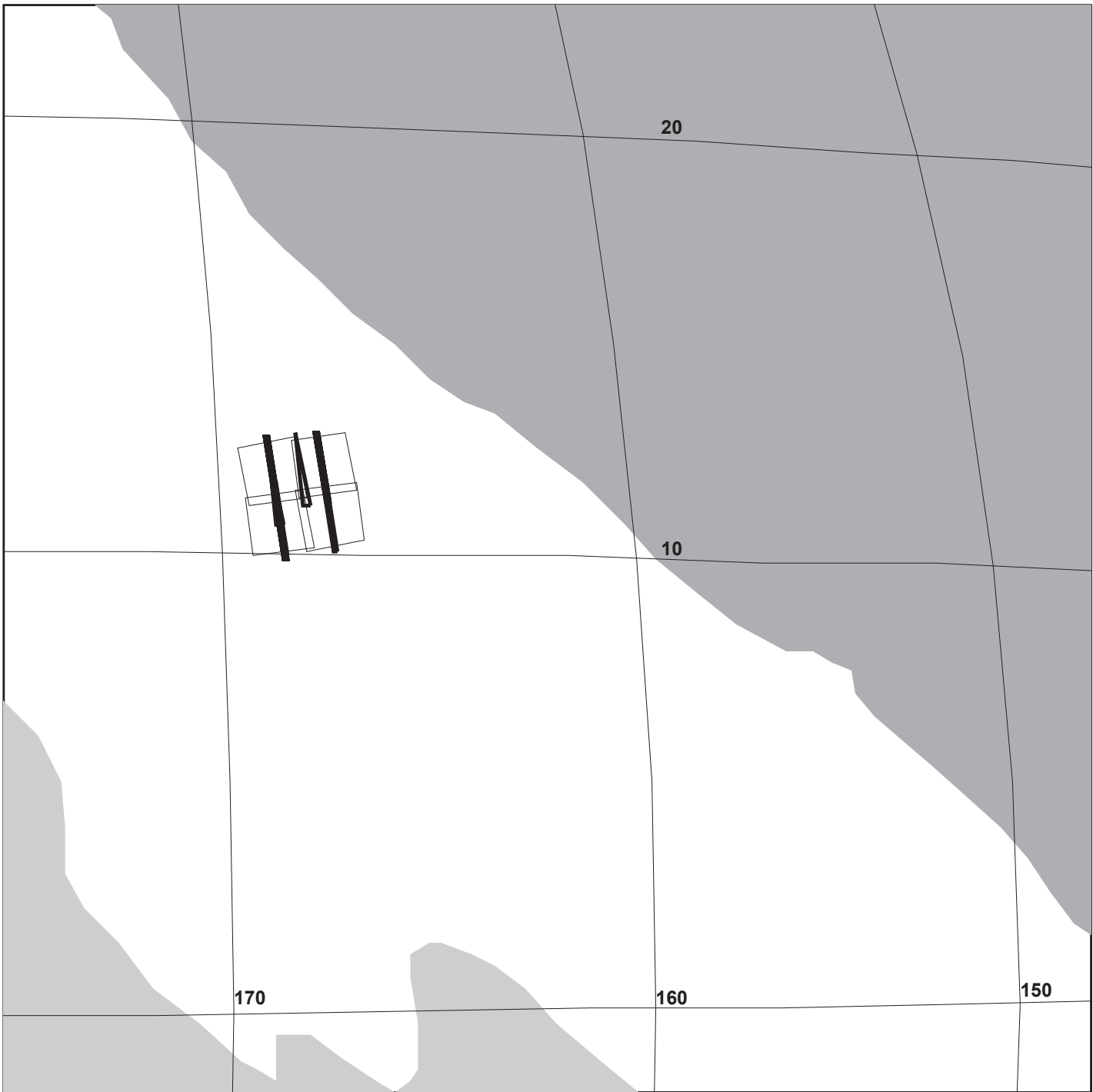
OBSERVATION:G1GNMIRRAY01

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 1606 S= 2.000

DESCRIP:Dark\_ray\_crater

Mir a dark rayed crater	ACTIVITY ID: G1GNMIRRAY01-	START TIME: 96-179/05:52:02.267
Activity ID: Orbit G1 Target G Inst N OAPEL MIRRORAY SeqNo 01 -		
Title Mir a dark rayed crater	Instrument NIMS	
Requestor NIMS-SWG/J. HUI 3-1224	Team NIMS Working Group	NIMS SWG
Time System CDS	Load ID G1A	Calendar Date 06/27/96 Week 26
Start GTE-CDS 37:00:0	96-179/05:52:02.267	GTE-000/00:37:24.666
End GTE-CDS 25:00:0	96-179/06:04:10.267	GTE-000/00:25:16.666
Duration 12:00:0	000/00:12:08.000	000/00:12:08.000
Top Label G1GNMIRRAY01-		
Bottom Label		
Plot Key NIMS	Type SCI	
CDS Bytes 183	Report Options BOTH	Scan Platform Yes
CDS Source OAP	Spin State DUAL	DMS Yes
Observation Objective		
To study dark rayed crater for mineralogy of impactors, exogenic modification of surface during impact.		
Data Returned		
Design Detail		
One continuous swath across the crater, with Mir centered, lat --5 and lon ~235 deg. Slew rate is 0.03 mrad/sec to achieve Nyquist sampling rate.		
Spatial resolution: <6> km/NIMSel;	Phase angle: <8> degrees	
Incidence angle: <64> degrees;	Emission angle: <55> degrees	
NIMS Mode: LM (Long Map);	Gain: 3	
Chopper: Reference;	Grating start position: 0	
Grating offset: 4	# wavelengths: 228 recorded	
Record format: LPU	and returned	
Command after this observation to XM to ride along with SSI observations		
Cone: 173 degrees.		
Long Map (LM), Gain 3, Grating Start 0, LPU, G1GLM245A, G1GLM228		
Galileo Activity Plan Form	05/09/96 18:13:53	rev 6/95



165IM:TT= 0 TMC= 1 C= -3.50 XC= -3.50 BS=39/0267 TC= 1(11.34 168.1 )  
 A= 714 pD= 104 SR=17.450 RA50=264.91 DEC50=-23.19 cone=196.42 clock= 97.00  
 118IM:#SB= 1 Cs= -7.00 XCs= 0.00 TPP= 26 SR= 3.000 RR= 7.000 BM=T RC= 1 BS=42/0267  
 1:#s= 2 #p= 2 Cr= 0.00 XCr= -7.00

## G1GNURUSUL01

DESIGN G1.0 clee : 5/23/1996 7:43:53

FILE:P.G1GSURUSUL01

TARGET BODY : GANYMEDE

MINI:m.G1GSURUSUL01

S/C EPH:/DATA/NAVIO/T-960110-ALL.NS

PERIAPSIS:

START:GTE 96-179/06:29:26.933 -CDS 21:00:0

OBSERVATION:G1GSURUSUL01

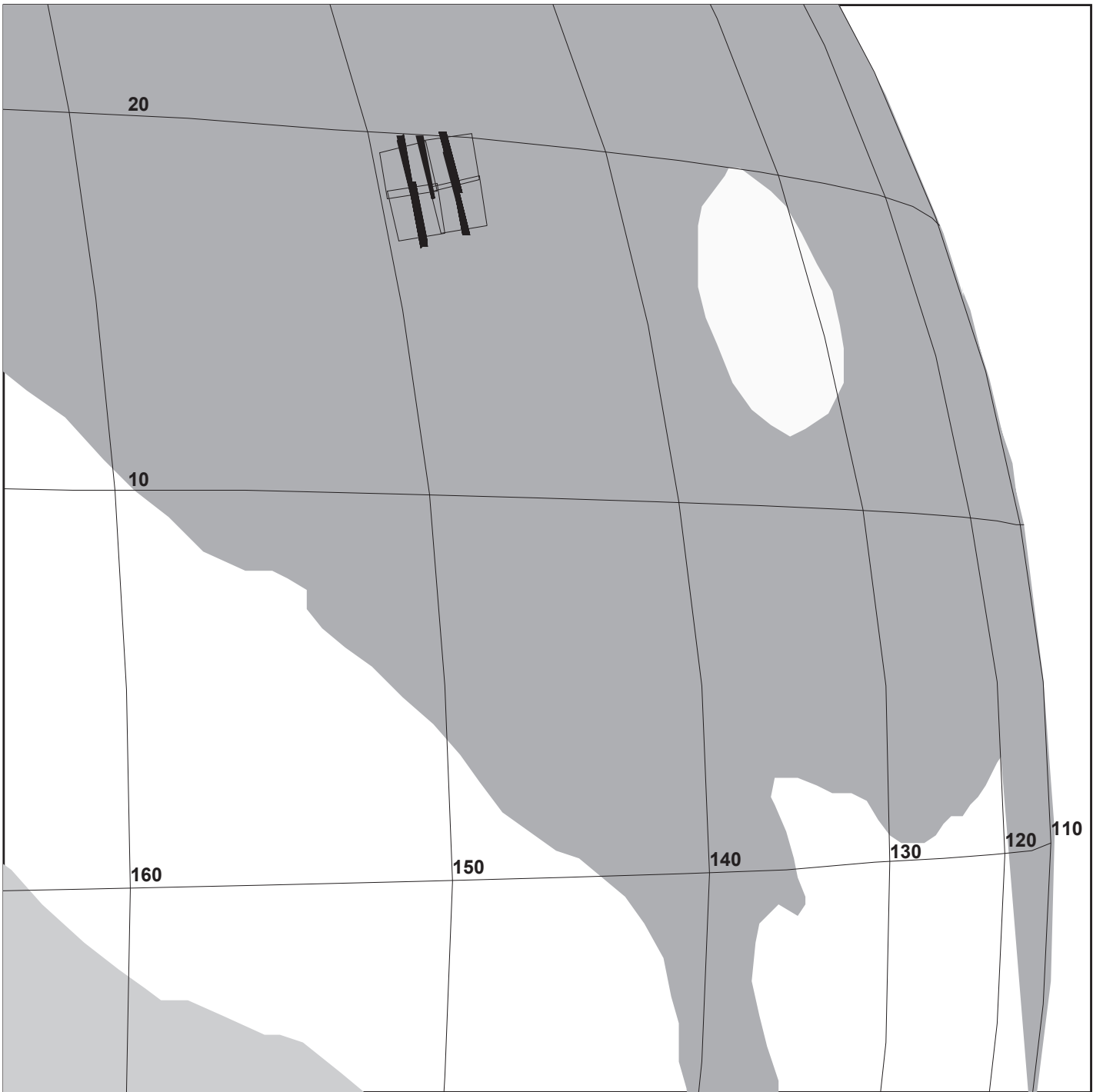
Ride-Along with SSI 2x2

THINNING:NIM 1

BODY PLOT TIME:TARGET-TIME D= 104 S= 2.000

DESCRIP:2x2\_mosaic\_of\_Uruk\_Sulcus

NIMS ride with SSI on Uru Sulcus		ACTIVITY ID:	G1GNURUSUL01*		
		START TIME:	96-179/06:04:10.267		
Activity ID: Orbit G1 Target G Inst N OAPEL URUSUL SeqNo 01 *					
Title	NIMS ride with SSI on Uru Sulcus		Instrument		NIMS
Requestor	NIMS-SWG/K. BAINES		Team	NIMS Working Group	SWG
Time System	CDS	Load ID	G1A	Calendar Date	06/27/96 Week 26
Start	GTE-CDS	25:00:0	96-179/06:04:10.267	GTE-000/00:25:16.666	
End	GTE-CDS	20:00:0	96-179/06:09:13.600	GTE-000/00:20:13.333	
Duration		5:00:0	000/00:05:03.333	000/00:05:03.333	
Top Label	G1GNURUSUL01*				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	52	Report Options	BOTH		
CDS Source	OAP	Spin State	DUAL	Scan Platform	No
				DMS	No
Observation Objective					
To do joint science study of Uru Sulcus with SSI. This will be part of the early image return, so it is important.					
Data Returned					
Design Detail					
Ride-along with SSI. NIMS in SM, Gain = 3 Record and playback: 102 wavelengths.					
Short Map (SM), Gain 3, Grating Start 0, IM4, G1GSM119, G1GSM102					
Galileo Activity Plan Form			05/09/96	18:13:53	rev 6/95



165IN:TT= 0 TMC= 1 C= 3.50 XC= 3.50 BS=13/0449 TC= 1(18.5 147.9 )  
 A= 42 pD= 104 SR=17.450 RA50=260.13 DEC50=-20.78 cone=201.28 clock=101.21  
 118IN:#SB= 1 Cs= 7.00 XCs= 0.00 TPP= 26 SR= 3.000 RR= 5.000 BM=T RC= 1 BS=16/0449  
 1:#s= 2 #p= 2 Cr= 0.00 XCr= 7.00

## G1GNREGIO01

DESIGN G1.0 clee : 5/23/1996 7:42: 0

FILE:P.G1GSGREGIO01

TARGET BODY : GANYMEDE

MINI:m.G1GSGREGIO01

S/C EPH:/DATA/NAVIO/T-960110-ALL.NS

PERIAPSIS:

START:GTE 96-179/06:29:26.933 -CDS 20:00:0

OBSERVATION:G1GSGREGIO01

Ride-Along with SSI 2x2

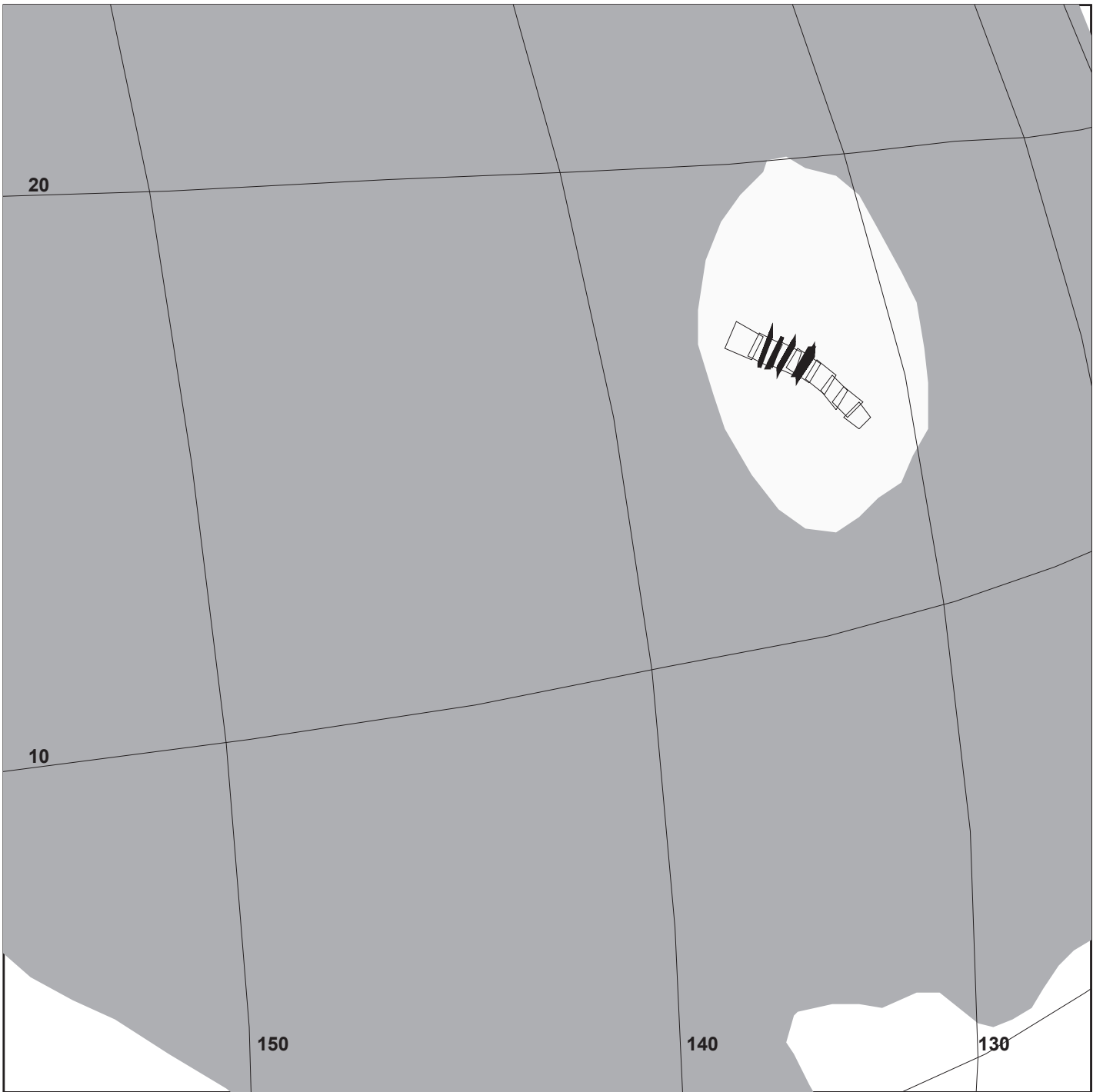
THINNING:NIM 1

BODY PLOT TIME:TARGET-TIME D= 104 S= 1.750

DESCRIP:2x2\_mosaic\_of\_Galileo\_Regio



NIMS ride with SSI on Galileo Regio		ACTIVITY ID:	G1GNGREGIO01*		
		START TIME:	96-179/06:09:13.600		
Activity ID: Orbit G1 Target G Inst N OAPEL GREGIO SeqNo 01 *					
Title	NIMS ride with SSI on Galileo Regio		Instrument	NIMS	
Requestor	NIMS-SWG/J. HUI		Team	NIMS Working Group	SWG
Time System	CDS	Load ID	G1A	Calendar Date	06/27/96 Week 26
Start	GTE-CDS	20:00:0		96-179/06:09:13.600	GTE-000/00:20:13.333
End	GTE-CDS	19:00:0		96-179/06:10:14.267	GTE-000/00:19:12.666
Duration		1:00:0		000/00:01:00.667	000/00:01:00.667
Top Label	G1GNGREGIO01*				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	21	Report Options	BOTH		
CDS Source	OAP	Spin State	DUAL	Scan Platform	No
				DMS	No
Observation Objective					
To study Galileo Regio jointly with SSI					
Data Returned					
Design Detail					
Ride-along with SSI observation. SM mode (all 102 wavelengths). Chopper reference, Gain = 3 Playback selection will have to be from the start of SSI frames to the end of SSI frames.					
Short Map (SM), Gain 3, Grating Start 0, IM4, G1GSM119, G1GSM102					
Galileo Activity Plan Form			05/09/96	18:13:53	rev 6/95



**G1GNMEMPHI01**

DESIGN G1.0 clee : 5/23/1996 7:43:17

FILE:P.G1GSMEMPHI01

TARGET BODY : GANYMEDE

MINI:m.G1GSMEMPHI01

S/C EPH:/DATA/NAVIO/T-960110-ALL.NS

PERIAPSIS:

START:GTE 96-179/06:29:26.933 -CDS 10:00:0

OBSERVATION:G1GSMEMPHI01

165IX:TT= 0 TMC= 1 C= 15.00 XC= 3.00 BS=68/2269 TC= 1(15.6 135.1 )  
 A= 318 pD= 364 SR=17.450 RA50=265.99 DEC50=-31.43 cone=196.12 clock= 67.06  
 118IX:#SB= 4 Cs= 6.50 XCs= -2.50 TPP= 46 SR= 3.000 RR= 3.000 BM=F RC= 1 BS=71/2269  
 1:#s= 2 #p= 1 Cr= 0.00 XCr= 0.00  
 2:#s= 3 #p= 1 Cr= 6.50 XCr= -1.00  
 3:#s= 2 #p= 1 Cr= 6.50 XCr= -3.00  
 4:#s= 2 #p= 1 Cr= 6.00 XCr= -5.40

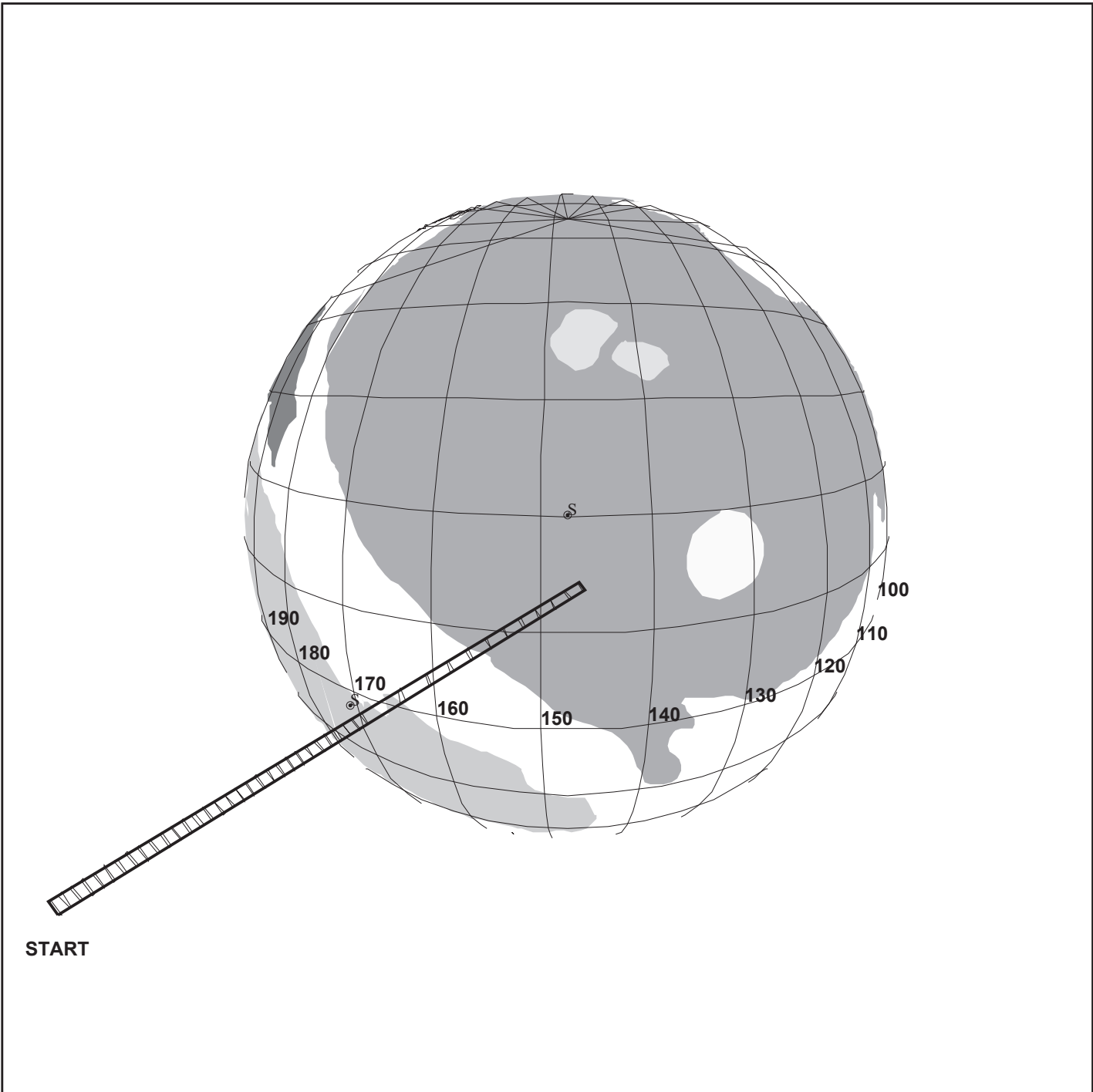
Ride-Along with SSI

THINNING:NIM 1

BODY PLOT TIME:TARGET-TIME D= 364 S= 1.750

DESCRIP:1x8\_Memphis\_Facula

NIMS ride with SSI on Memphis		ACTIVITY ID: G1GNMEMPHI01*	
		START TIME: 96-179/06:19:20.267	
Activity ID: Orbit G1 Target G Inst N OAPEL MEMPHI SeqNo 01 *			
Title	NIMS ride with SSI on Memphis		Instrument
Requestor	NIMS-SWG/J. HUI	Team	NIMS Working Group
			NIMS SWG
Time System	CDS	Load ID	G1A
		Calendar Date	06/27/96
		Week	26
Start	GTE-CDS 10:00:0	96-179/06:19:20.267	GTE-000/00:10:06.666
End	GTE-CDS 7:00:0	96-179/06:22:22.267	GTE-000/00:07:04.666
Duration	3:00:0	000/00:03:02.000	000/00:03:02.000
Top Label	G1GNMEMPHI01*		
Bottom Label			
Plot Key	NIMS	Type	SCI
CDS Bytes	21	Report Options	BOTH
CDS Source	OAP	Spin State	DUAL
		Scan Platform	No
		DMS	No
Observation Objective			
To study Memphis crater jointly with SSI.			
Data Returned			
Design Detail			
Ride-along with SSI observation. SM mode (all 102 wavelengths) Chopper Reference, Gain = 3 Playback selection will have to be from the start of the SSI frames to the end of the SSI frames.			
Short Map (SM), Gain 3, Grating Start 0, HIS, G1GSM119, G1GSM102			
Galileo Activity Plan Form		05/09/96 18:13:53	rev 6/95



165CY:TT= 0 TMC= 1 C=-1033.91 XC= -7.21 BS= 0/3179 TC= 9  
 A= 350 pD= 0 SR=17.430 RA50= 29.12 DEC50=-32.10 cone= 90.51 clock=310.00

## G1GNLIMBSC02

DESIGN G1.0 clee : 5/23/1996 7:29:28

FILE:P.G1GUBRTLMB02

TARGET BODY : GANYMEDE

Ride-Along with UVS

MINI:m.G1GUBRTLMB02

S/C EPH:/DATA/NAVIO/T-960110-ALL.NS

PERIAPSIS:

THINNING:NIM 13

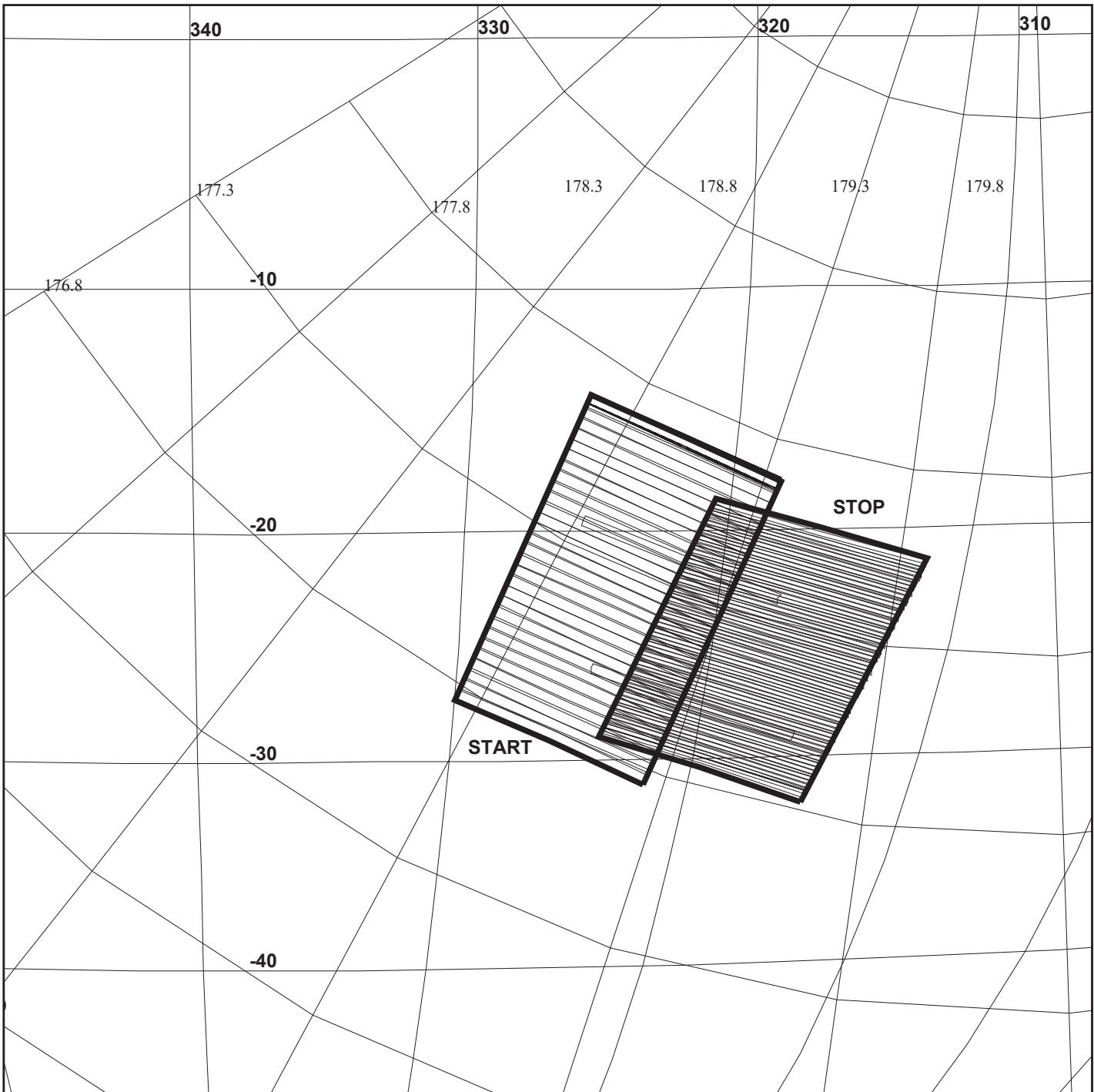
START:GTE 96-179/06:29:26.933 -CDS 05:00:0

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

OBSERVATION:G1GUBRTLMB02

DESCRIP:G1 OH Bright Limb Drift

Limb Scan for atmosphere		ACTIVITY ID: G1GNLIMBSC02*	
		START TIME: 96-179/06:22:22.267	
Activity ID: Orbit G1 Target G Inst N OAPEL LIMBSC SeqNo 02 *			
Title	Limb Scan for atmosphere		Instrument
Requestor	NIMS-SWG/J. HUI 3-1224	Team	NIMS Working Group
			NIMS SWG
Time System	CDS	Load ID	G1A
		Calendar Date	06/27/96
		Week	26
Start	GTE-CDS 7:00:0	96-179/06:22:22.267	GTE-000/00:07:04.666
End	GTE-CDS 2:00:0	96-179/06:27:25.600	GTE-000/00:02:01.333
Duration	5:00:0	000/00:05:03.333	000/00:05:03.333
Top Label	G1GNLIMBSC02*		
Bottom Label	ride		
Plot Key	NIMS	Type	SCI
CDS Bytes	52	Report Options	BOTH
CDS Source	OAP	Spin State	DUAL
		Scan Platform	No
		DMS	No
Observation Objective			
To search for atmosphere that might be on Ganymede. Joint observation with UVS.			
Data Returned			
Design Detail			
Target to the satellite and offset to sky and drift onto satellite. Joint observation with UVS. Return wavelengths: Grating position 1 and detectors 3, 4, and 5. NIMS Mode: XS (Fixed Spectrometer); Gain: 4 Chopper: Reference; Grating start position: 1 Grating offset: 4 # wavelengths: 17 recorded Record format: MPW			
Fixed Spectrometer (XS), Gain 4, Grating Start 1, MPW, G1GXS17, G1GXS17			
Galileo Activity Plan Form		05/09/96 18:13:53	rev 6/95



165DW:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/6505 TC= 1(-29 326 )  
 A= 728 pD= 2100 SR=17.430 RA50=284.66 DEC50=-27.78 cone=176.76 clock=333.96  
 117DW:#SB= 1 OR= 0.110 RR=12.000 BM=F RC= 1 BS= 0/6505  
 1:#s= 2 Cs= 16.00 XCs= 0.00 Cr= -14.00 XCr= 7.00 sD= 1020 rD= 60

**G1JNGRS00501**

TARGET G1.0 brad : 4/30/1996 16: 4:13

FILE:P.G1JNGRS00501

CENTRAL BODY:JUPITER

MINI:m.target.enc

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS:

START:JTE 96-180/00:31:20.266 -CDS 782:00:0

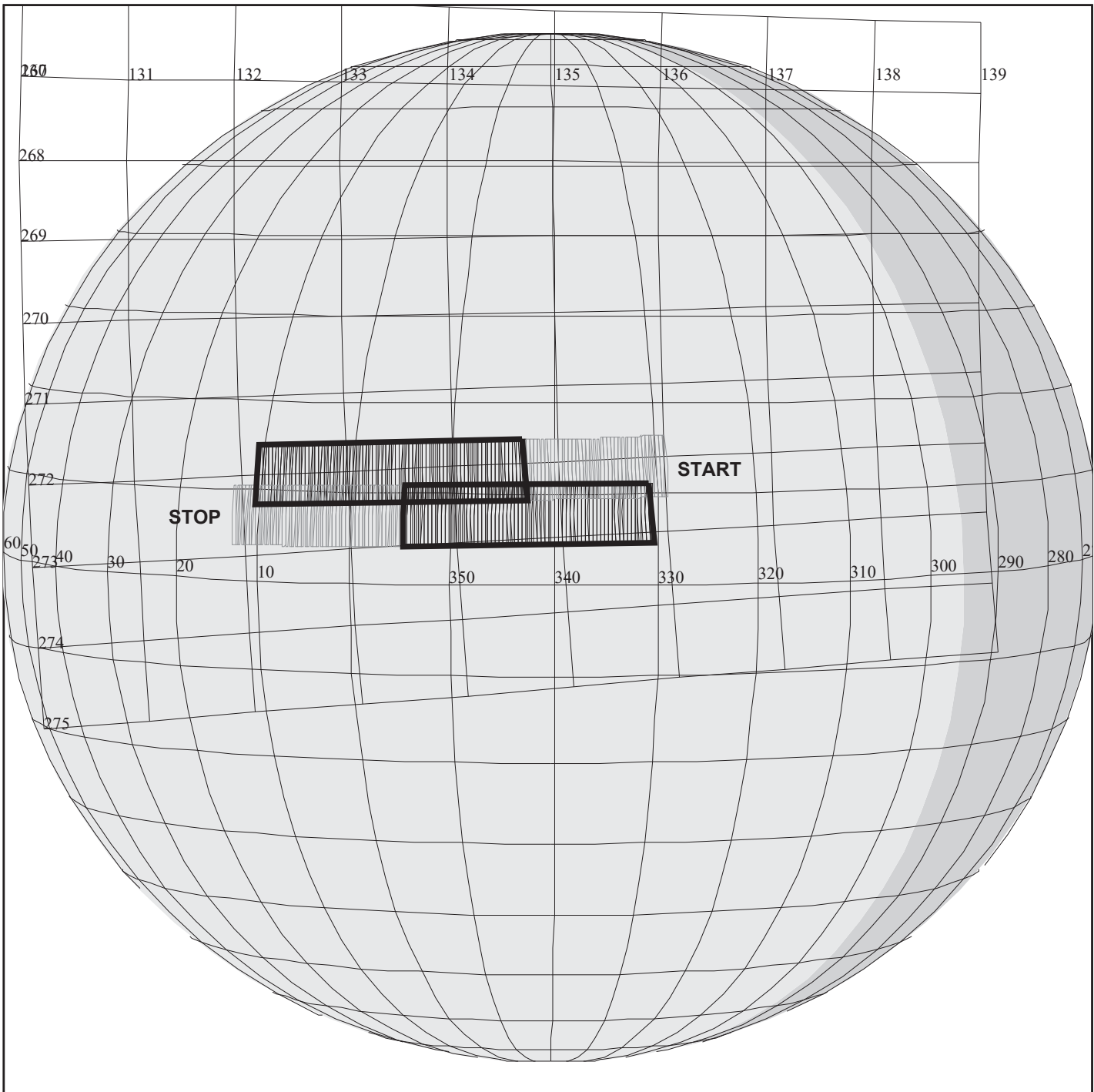
OBSERVATION:G1JNGRS00501

THINNING:NIM 2

BODY PLOT TIME:START-TIME D= 2100 S= 2.800

DESCRIP:GRS PHASE 5 #1

GRS 5 Phase #1		ACTIVITY ID: G1JNGRS00501-	
		START TIME: 96-179/11:16:36.266	
Activity ID: Orbit G1 Target J Inst N OAPEL GRS005 SeqNo 01 -			
Title	GRS 5 Phase #1	Instrument	
Requestor	NIMS-AWG/K. BAINES	Team NIMS	Working Group NIMS AWG
Time System	CDS	Load ID	G1A
		Calendar Date	06/27/96
		Week	26
Start	JTE-CDS 786:00:0	96-179/11:16:36.266	JTE-000/13:14:44.000
End	JTE-CDS 770:16:0	96-179/11:32:36.266	JTE-000/12:58:44.000
Duration	15:75:0	000/00:16:00.000	000/00:16:00.000
Top Label	G1JNGRS0501-		
Bottom Label			
Plot Key	NIMS	Type	SCI
CDS Bytes	184	Report Options	BOTH
CDS Source	OAP	Spin State	DUAL
		Scan Platform	DMS
			Yes
			Yes
Observation Objective			
<p>5 degree phase observation of Great Red Spot (GRS) near central meridian. This is the only observation acquired on this rotation, GRS assumed located at 321 degrees west longitude (System III), 23 degrees south latitude. 4 colors recorded using wavelength table JFT04A.</p>			
Data Returned			
Design Detail			
<p>2*3 (~18 mrad N/S by ~30 mrad E/W) shortmap of Great Red Spot. 4 minutes reserved for targetting. Nyquist sampling E/W. 2 mrad overlap between the two tiers. GRS assumed located at 321 degrees longitude (System III), 23 degrees S. latitude. 4 minutes reserved for targetting. Record duration: 720 seconds, accumulating 0.1839 MBTG in 4 colors and using 0.0242 tracks. Note: Observation acquired near cone pole.</p>			
Cone: 177 degrees.			
Short Map (SM), Gain 2, Grating Start 1, LPU, G1JFT68A, G1JFT19C			
Galileo Activity Plan Form		05/09/96 18:13:54	rev 6/95



## G1JNHOTMAP01

165DB:TT= 0 TMC=1 C= 0.00 XC= 0.00 BS=0/7171 TC= 1(13 329 )  
 A= 728 pD= 0 SR=17.450 RA50=329.08 DEC50=-16.21 cone=136.01 clock=272.13  
 117DB:#SB= 1 OR= 0.040 RR=12.000 BM=F RC= 1 BS= 0/7171  
 1:#s= 2 Cs= -83.80 XCs= 0.00 Cr= 65.00 XCr= 8.00 sD= 6318 rD= 42

TARGET G1.0 brad : 4/30/1996 16: 4:13

FILE:P.G1JNHOTMAP01

CENTRAL BODY:JUPITER

MINI:m.target.enc

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS:

START:JEE 96-180/00:31:20.266 -CDS 119:00:0

OBSERVATION:G1JNHOTMAP01

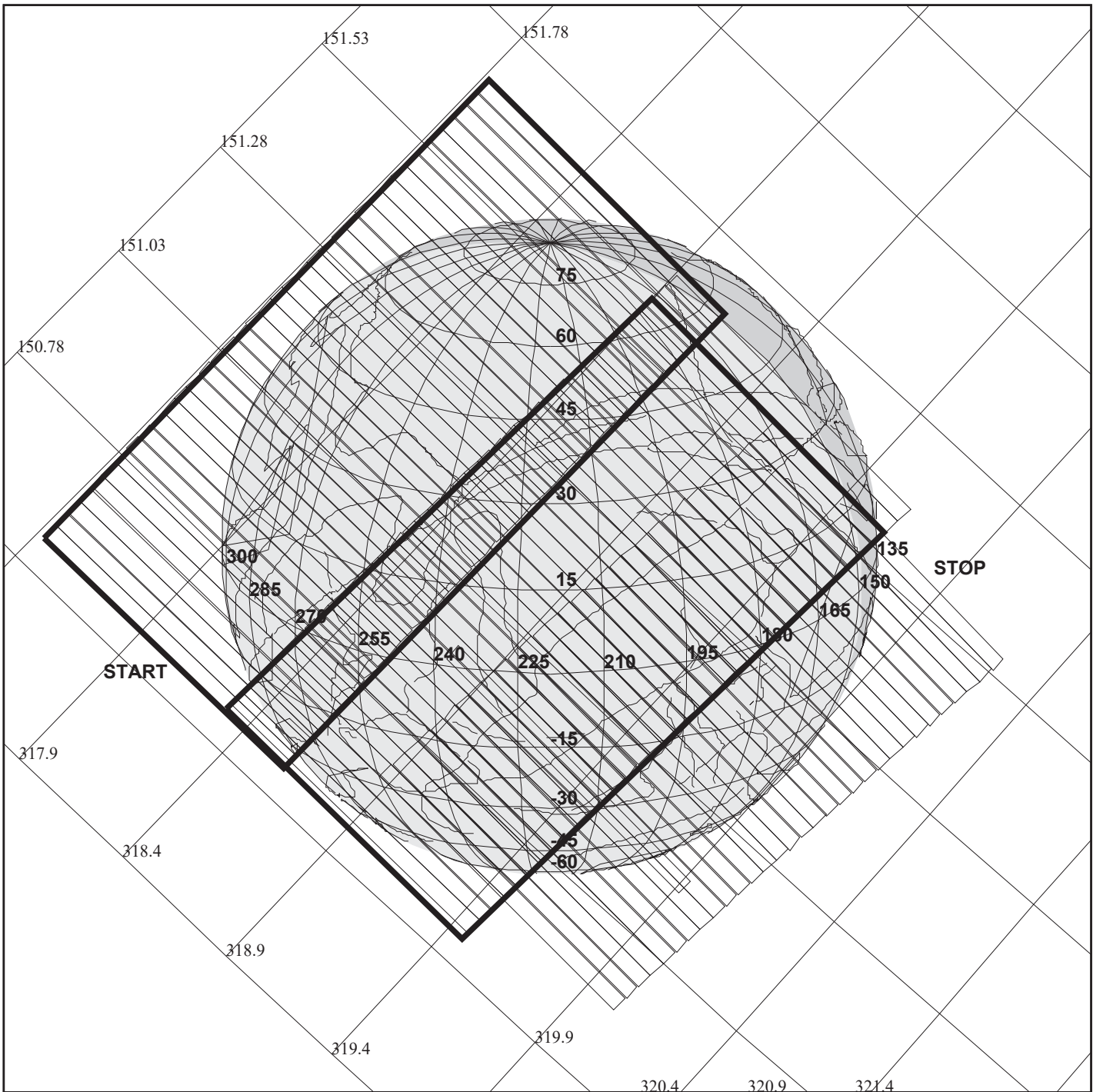
THINNING:NIM 2

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

DESCRIP:Mapping of hotspot/PES region



HOTMAP		ACTIVITY ID: G1JNHOTMAP01-	
		START TIME: 96-179/22:26:58.266	
Activity ID: Orbit G1 Target J Inst N OAPEL HOTMAP SeqNo 01 -			
Title	HOTMAP	Instrument	
Requestor	NIMS-AWG/K. BAINES	Team	NIMS Working Group
Time System CDS		Load ID	G1A
		Calendar Date	06/27/96
		Week	26
Start	JEE-CDS 123:00:0	96-179/22:26:58.266	JEE-000/02:04:22.000
End	JEE-CDS 42:00:0	96-179/23:48:52.266	JEE-000/00:42:28.000
Duration	81:00:0	000/01:21:54.000	000/01:21:54.000
Top Label	G1JNHOTMAP01-		
Bottom Label			
Plot Key	NIMS	Type	SCI
CDS Bytes	178	Report Options	BOTH
CDS Source	OAP	Spin State	DUAL
		Scan Platform	Yes
		DMS	Yes
Observation Objective			
<p>Longmap mapping of hotspot/PES region at high spatial resolution. Observation uses special wavelength table JHT204A (i.e., 80 wavelengths of thermal from 4.2 to 5.2 um plus 124 wavelengths sampling reflected sunlight).</p>			
Data UnGarbled, Data Returned			
Design Detail			
<p>Longmap, Nyquist sampled mapping of hotspot/PES region. Two tiers acquired, centered on the central meridian near 8.5 degrees North latitude. Southern tier is centered at 7 degrees north latitude. Northern tier overlaps southern tier by 20% (2 mrad). Each tier extends 105 mrad, i.e., 210 NIMS footprints, or 360 NIMS samples at Nyquist sampling*. Each tier takes 420*8.666 = 3640 secs = 1:00:40. Reposition slew takes 30 secs. Total time: 2:01:50, during which 0.245 tracks are used, accumulating 23.347 MBTG in 204 colors. Spacecraft distance ~0.74 million Km. NIMS IFOV 370 Km. Each tier covers 77700*7400 Km. Map covers 77700*13320 Km. Mean phase angle about 55 degrees. 3.50 rims reserved for targetting.</p> <p>*NOTE changes made on April 18, 1996 to save tape: Recording of top tier is now shortened to ~140 footprints. Total time is now 00:54:36, during which 0.1103 tracks are used, accumulating 9.356 MBTG in 238 colors. Cone: 130 to 135 degrees.</p> <p>Long Map (LM), Gain 2, Grating Start 0, LPU, G1JHT238A, G1JHT238A</p>			
Galileo Activity Plan Form		05/09/96 18:13:54	rev 6/95



**G1ENNHILAT01**

DESIGN G1.0 brad : 6/12/1996 7:46:26

FILE:P.G1ENNHILAT01

TARGET BODY : EUROPA

MINI:m.G1ENNHILAT01

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS:

START:EEE 96-180/01:21:53.600 -CDS 80:00:0

OBSERVATION:G1ENNHILAT01

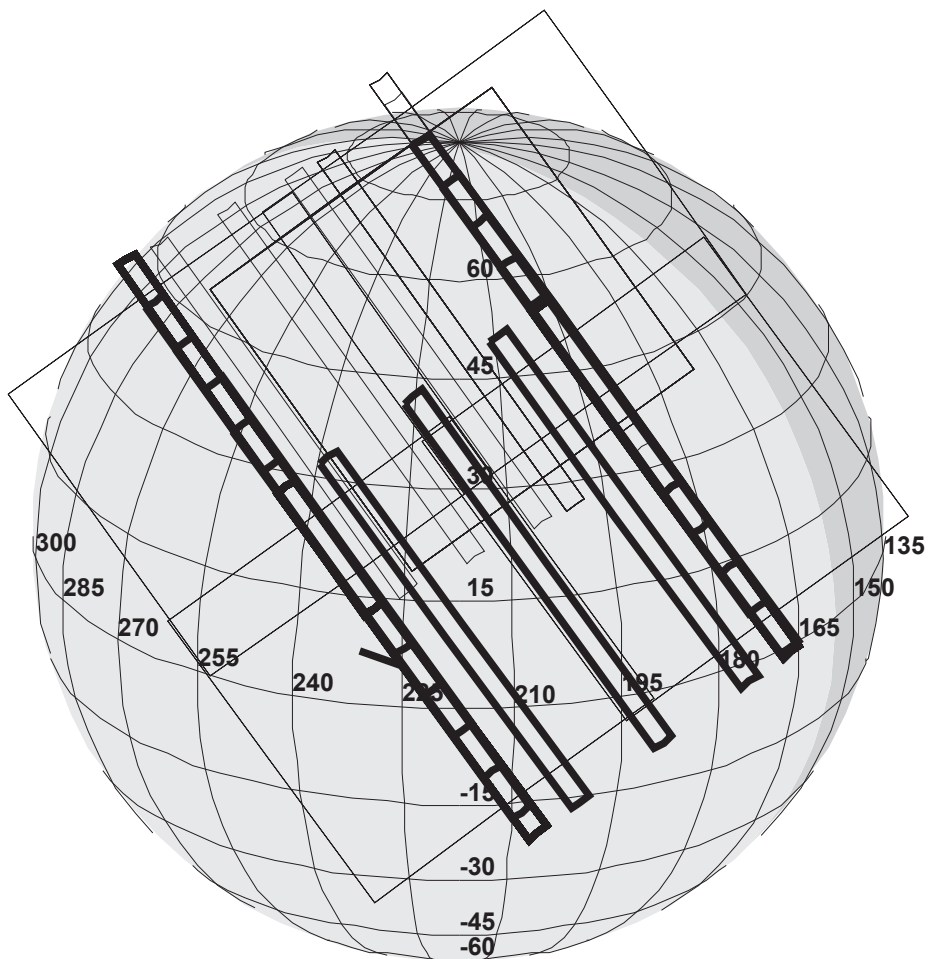
165EC:TT= 0 TMC= 1 C= -10.20 XC= -6.20 BS= 0/3369 TC= 3  
 A= 728 pD= 5424 SR=17.450 RA50=311.66 DEC50=-42.50 cone=150.55 clock=318.03  
 117EC:#SB= 2 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/3369  
 1:#s= 2 Cs= 18.80 XCs= 0.00 Cr= -18.50 XCr= 7.70 sD= 1886 rD= 28  
 2:#s= 1 Cs= 16.00 XCs= 0.00 Cr= -17.30 XCr= 4.60 sD= 1606 rD= 18

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 5424 S= 0.600

DESCRIP:G1 Europa High No. Latitude

EUROPA NORTH HIGH LATITUDE COVERAGE		ACTIVITY ID:	G1ENNHILAT01-		
		START TIME:	96-179/23:56:57.600		
Activity ID: Orbit G1 Target E Inst N OAPEL NHILAT SeqNo 01 -					
Title	EUROPA NORTH HIGH LATITUDE COVERAGE		Instrument		NIMS
Requestor	NIMS-SWG/A. OCAMPO		Team	NIMS Working Group	SWG
Time System	CDS	Load ID	G1A	Calendar Date	06/28/96 Week 26
Start	EEE-CDS	84:00:0		96-179/23:56:57.600	EEE-000/01:24:56.000
End	EEE+CDS	49:23:0		96-180/00:32:05.600	EEE+000/00:49:48.000
Duration		34:68:0		000/00:35:08.000	000/00:35:08.000
Top Label	G1ENNHILAT01-				
Bottom Label	EUROPA NO HI				
Plot Key	NIMS	Type	SCI		
CDS Bytes	227	Report Options	BOTH		
CDS Source	OAP	Spin State	DUAL	Scan Platform	Yes
			DMS		Yes
Observation Objective					
<p>NIMS coverage of Northern high latitude region, poorly covered by Voyager. Done at 77 km/nimsel resolution. This north polar global observation is the first of only two orbits for northern latitude Europa coverage. It allows medium resolution mapping for target definition for E11. This observation has been planned to cover areas observed by SSI in G1.</p>					
Data UnGarbled, Data Returned					
Design Detail					
DISTANCE:	154827 KM	MODE:	LONG MAP	LONG.COV.	170-300 DEG
PHASE:	28.44 DEG	SLEW RATE:	30 MR/S	LAT.COV.	90 TO -45 DEG
CONE:	151.45 DEG	% OVERLAP:	10	COVERAGE	95%
WAVELENGTHS:	228	RECORDED NUM. OF STRIPS:	3	SUB S/C LONG	236.1 DEG
WAVELENGTHS P/B:	228	RESOLUTION:	77 KM/NIMSEL	NIMS F.O.V./STRIP:	73
SUB S/C LAT	20.43 DEG	BOOMS:	NOT IN F.O.V.	DMS MODE:	7.68
ASD:	0.4840 DEG	AREA COV. IN PIX:	861	GAIN STATE:	3,2,3
INCIDENT RANGE:	24-114	EMISSION RANGE:	25-90 DEG		
First Swath	in Gain State 3				
Second Swath	in Gain State 2				
Third Swath	in Gain State 3 (Not Returned)				
Long Map (LM), Gain 3,2,3, Grating Start 0, LPU, G1ELM245, G1ELM228					
Galileo Activity Plan Form			05/09/96	18:13:54	rev 6/95



## G1ENGLOBAL01

TARGET G1.0 brad : 4/30/1996 16: 4:13

FILE:P.G1ESGLOBAL01

TARGET BODY : EUROPA

MINI:m.target.enc

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS:

START:EEE 96-180/01:21:53.600 +CDS 21:00:0

OBSERVATION:G1ESGLOBAL01

165IR:TT= 0 TMC= 1 C= 4.70 XC= -4.75 BS= 0/1751 TC= 3  
 A= 182 pD= 260 SR=17.450 RA50=321.79 DEC50=-40.45 cone=144.12 clock=309.61  
 118IR:#SB= 1 Cs= 0.00 XCs= 6.50 TPP= 26 SR= 3.000 RR= 6.000 BM=T RC= 1 BS= 3/1751  
 1:#s= 2 #p= 2 Cr= -7.30 XCr= 0.00  
 116IR:OR= 5.000 Cs= 5.25 XCs= 0.75 sD= 16 BS=42/1751 TF=N

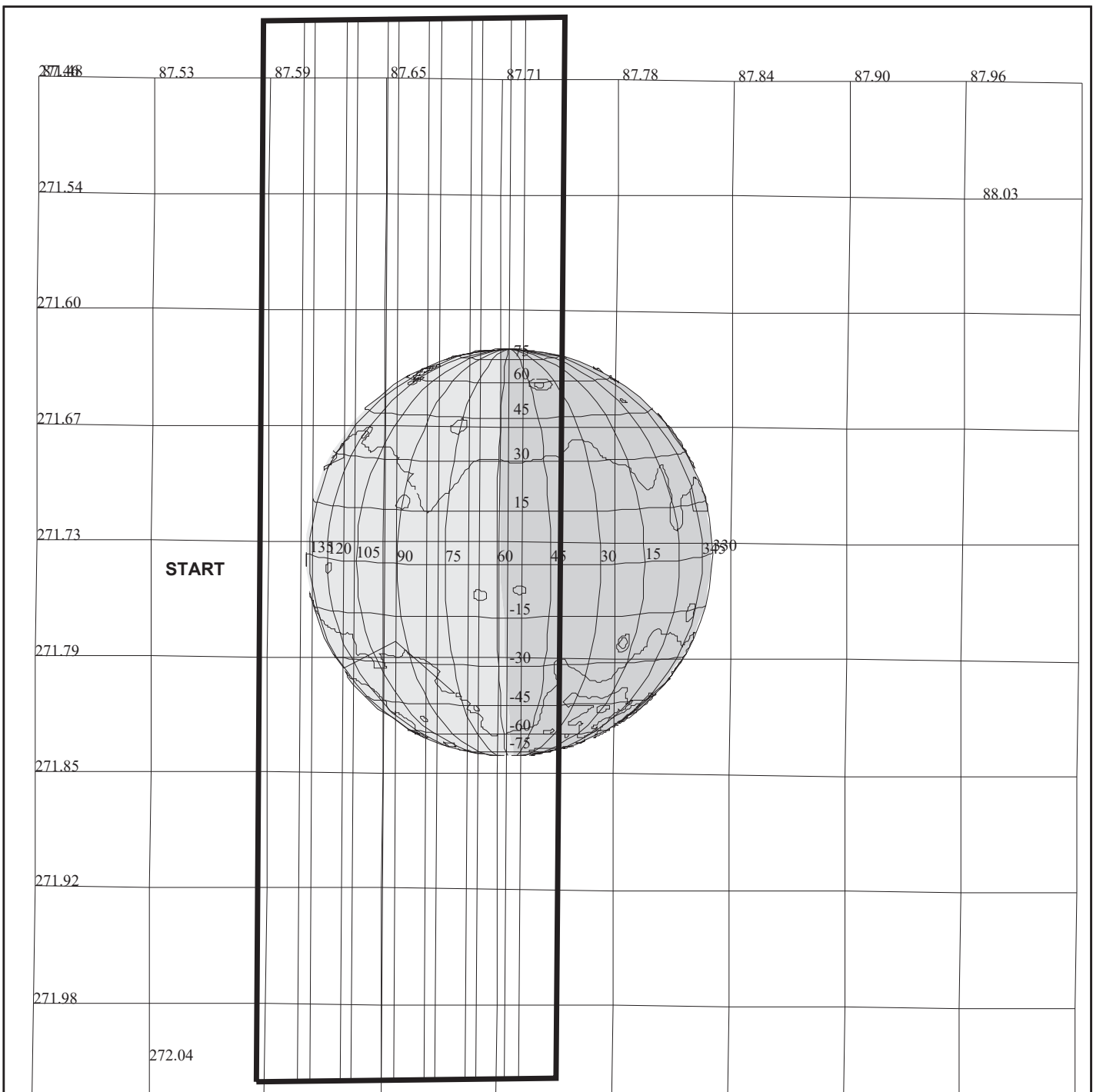
Ride-Along with SSI

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 260 S= 0.600

DESCRIP:Eruopa\_2x2\_global\_1x1\_color

Europa coordinated science NIMS/SSI	ACTIVITY ID: G1ENGLOBAL01*	START TIME: 96-180/01:42:06.933
Activity ID: Orbit G1 Target E Inst N OAPEL GLOBAL SeqNo 01 *		
Title Requestor	Europa coordinated science NIMS/SSI NIMS-SWG/A. OCAMPO	Instrument NIMS Working Group
Time System	CDS	Load ID G1A
Calendar Date	06/28/96	Week 26
Start	EEE+CDS 20:00:0	96-180/01:42:06.933
End	EEE+CDS 33:00:0	96-180/01:55:15.600
Duration	13:00:0	000/00:13:08.667
Top Label	G1ENGLOBAL01*	
Bottom Label		
Plot Key	NIMS	Type SCI
CDS Bytes	55	Report Options BOTH
CDS Source	OAP	Spin State DUAL
		Scan Platform No
		DMS No
Observation Objective		
<p>This observation intends to obtain NIMS data (Fixed Map, 17 wavelengths) as SSI mosaics of Europa North pole (clear, violet, green and 1 micron SSI filters), northern hemisphere and preview of a linea region of Europa (longitude = 255 to 280 degrees, latitude = 30 to -5 degrees) that will be covered in greater detail in the sixth orbit (E6). The observation will provide 17 wavelengths of NIMS spectra with each of the 37 SSI frames, producing an excellent data set for Europa compositional analysis.</p>		
Data UnGarbled, Data Returned		
Design Detail		
NIMS mode: XM,	Number of wavelengths recorded: 17	
Gain state: 2	Number of wavelengths P/B: 17	
NIMS resolution: 77 Km/nimse1,	Telemetry format: HCA	
Phase angle: 36 degrees,	latitude range: 90 to -10 degrees	
Longitude range: 160 to 280 degrees		
Add NIMSTAB 37IOP to change to XM at 180/01:24:52.600		
DESELECT at 180/01:35:02.666		
Fixed Map (XM), Gain 2, Grating Start 0, HCA, G1EXM17, G1EXM17		
Galileo Activity Plan Form	05/09/96 18:13:54	rev 6/95



165EA:TT= 0 TMC= 1 C= -2.30 XC= 0.00 BS= 0/7585 TC= 9  
 A= 364 pD= 0 SR=17.430 RA50= 13.87 DEC50= 3.42 cone= 87.59 clock=271.74  
 117EA:#SB= 1 OR= 0.020 RR=12.000 BM=F RC= 1 BS= 0/7585  
 1:#s= 1 Cs= 1.10 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 180 rD= 2

## G1INCHEMIS01

DESIGN G1.0 brad : 6/12/1996 7:50:53

FILE:P.G1INCHEMIS01

TARGET BODY : IO

MINI:m.G1INCHEMIS01

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS:

START:IEE 96-180/18:27:09.533 -CDS 906:00:0

OBSERVATION:G1INCHEMIS01

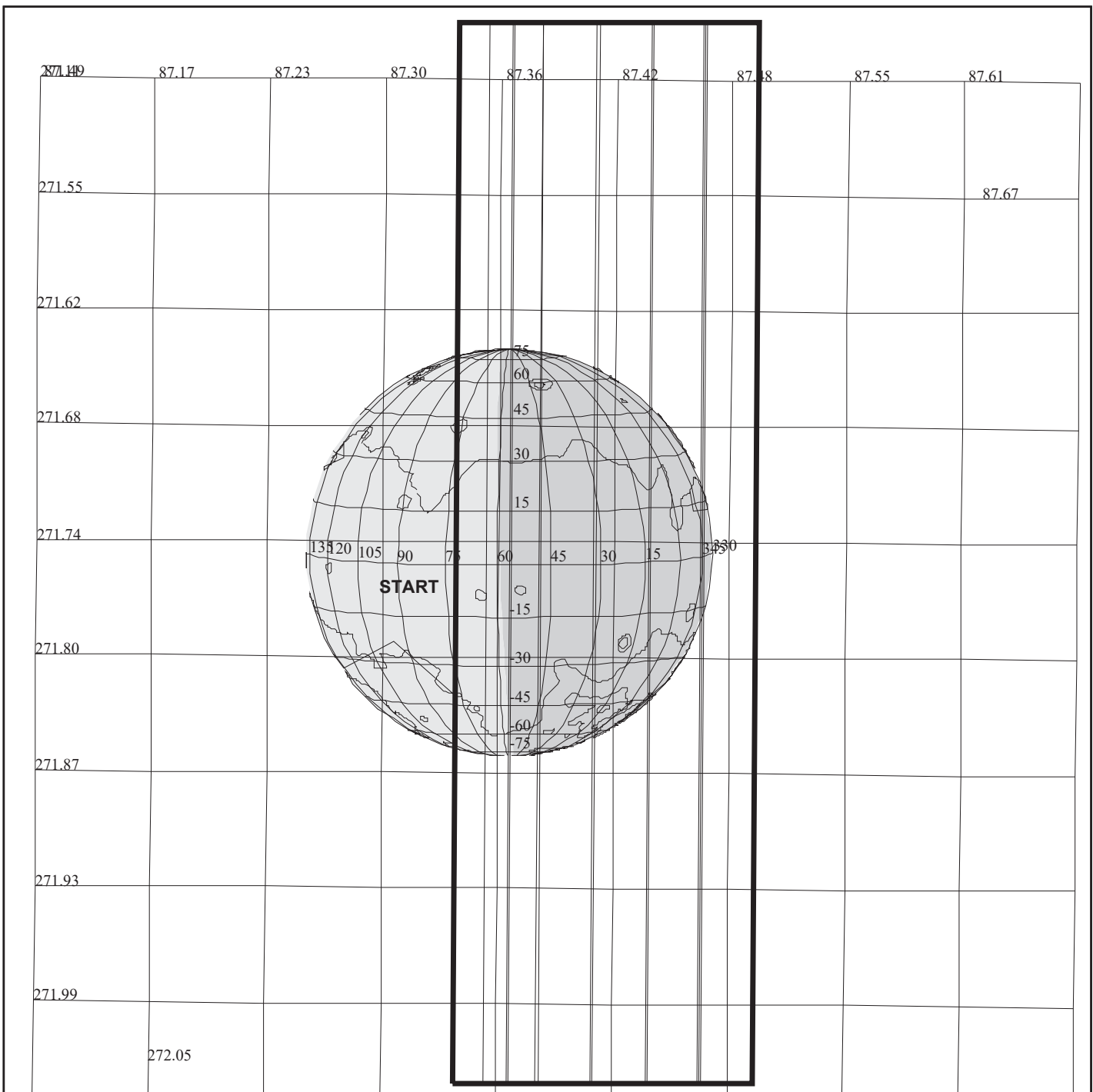
THINNING:NIM 1

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.400

DESCRIP:MONITORING OF IOs DAYSIDE

MONITORING OF IO'S DAYSIDE		ACTIVITY ID: G1INCHEMIS01-	
		START TIME: 96-180/03:09:04.200	
Activity ID: Orbit G1 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	G1A
		Calendar Date	06/28/96
		Week	26
Start	IEE-CDS 908:00:0	96-180/03:09:04.200	IEE-000/15:18:05.333
End	IEE-CDS 903:88:0	96-180/03:13:08.867	IEE-000/15:14:00.666
Duration	4:03:0	000/00:04:04.667	000/00:04:04.667
Top Label	G1INCHEMIS01-		
Bottom Label			
Plot Key	NIMS	Type	SCI
CDS Bytes	178	Report Options	BOTH
CDS Source	OAP	Spin State	DUAL
		Scan Platform	Yes
		DMS	Yes
Observation Objective			
<p>Dayside monitoring covering wide range of longitudes to look for chemical changes (e.g. SO2 distribution) at resolutions better than ~800 km/nimse1 (most observations will have resolutions between 120 and 400 km/nimse1).</p>			
Data UnGarbled, Data Returned			
Design Detail			
<p>Partial or full disk mosaics within C/A + or - 32 hours in all orbits. High priority orbits are G2, C3, E4, E6 and E10 where resolution for lit disk is best.  Long map, 228 wavelengths.  Tracks used per orbit: 0.05 to 0.42.  Bits To Ground per orbit: 0.3 to 2.2 Mbits.</p> <p>Cone: 87 degrees.</p>			
Long Map (LM), Gain 2, Grating Start 0, LPU, G1ILM245, G1ILM228			
Galileo Activity Plan Form		05/09/96 18:13:54	rev 6/95





165EB:TT= 0 TMC= 1 C= -0.25 XC= 0.00 BS= 0/8313 TC= 9  
 A= 108 pD= 0 SR=17.430 RA50= 14.09 DEC50= 3.51 cone= 87.35 clock=271.75  
 117EB:#SB= 1 OR= 0.750 RR=12.000 BM=F RC= 1 BS= 0/8313  
 1:#s= 1 Cs= 2.20 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 20 rD= 2

## G1INTHRMAL01

DESIGN G1.0 brad : 6/12/1996 8:26:56

FILE:P.G1INTHRMAL01

TARGET BODY : IO

MINI:m.G1INTHRMAL01

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS:

START:IEE 96-180/18:27:09.533 -CDS 902:00:0

OBSERVATION:G1INTHRMAL01

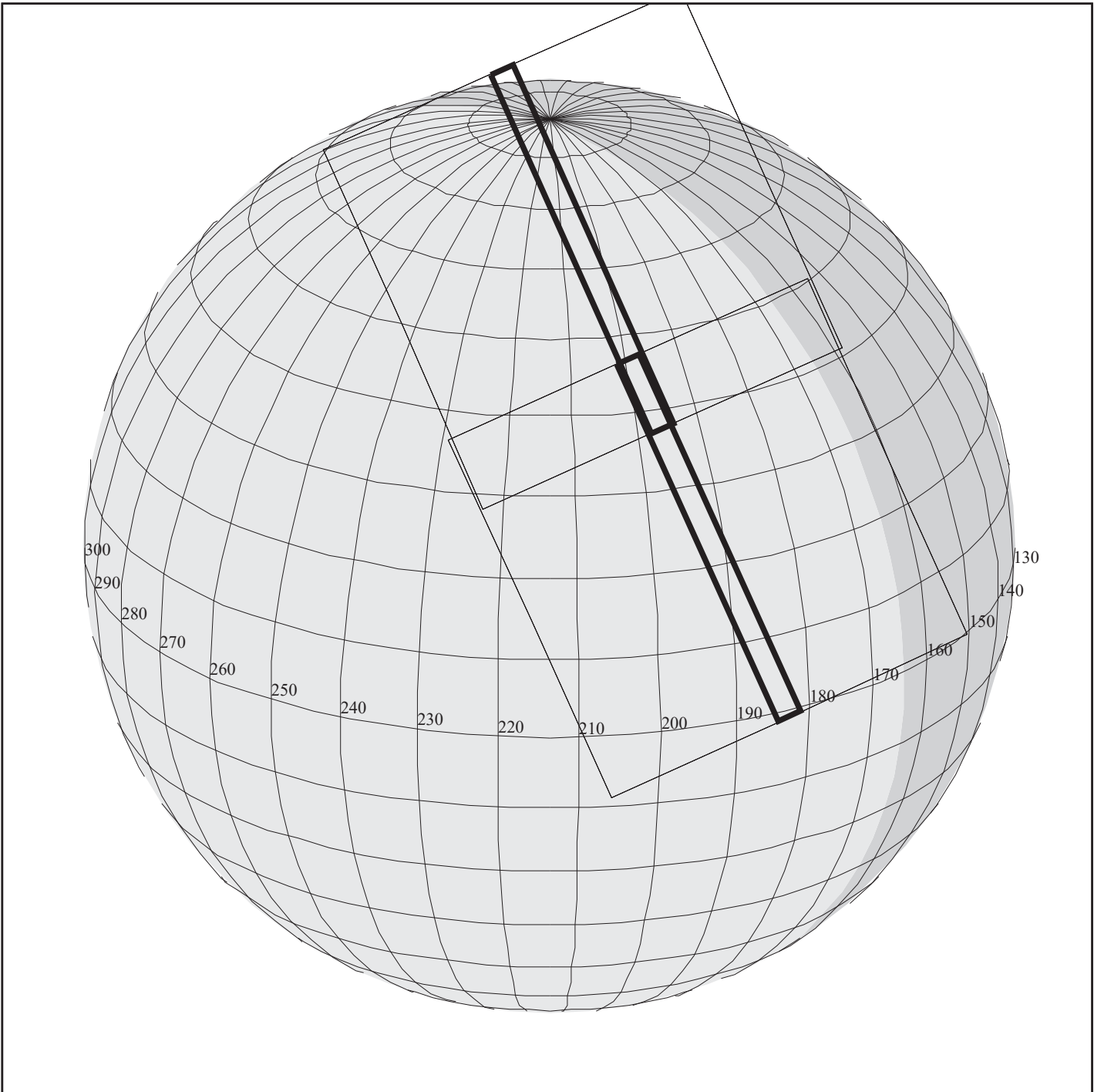
THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.400

DESCRIP:MONITORING OF IOs NIGHTSIDE



MONITORING OF IO'S NIGHTSIDE		ACTIVITY ID: G1INTHERMAL01-	
		START TIME: 96-180/03:14:07.533	
Activity ID: Orbit G1 Target I Inst N OAPEL THRMAL SeqNo 01 -			
Title	MONITORING OF IO'S NIGHTSIDE		Instrument
Requestor	NIMS-SWG/R. LOPES	Team	NIMS Working Group
			NIMS SWG
Time System	CDS	Load ID	G1A
		Calendar Date	06/28/96
		Week	26
Start	IEE-CDS 903:00:0	96-180/03:14:07.533	IEE-000/15:13:02.000
End	IEE-CDS 900:55:0	96-180/03:16:32.867	IEE-000/15:10:36.666
Duration	2:36:0	000/00:02:25.334	000/00:02:25.334
Top Label	G1INTHERMAL01-		
Bottom Label			
Plot Key	NIMS	Type	SCI
CDS Bytes	178	Report Options	BOTH
CDS Source	OAP	Spin State	DUAL
		Scan Platform	Yes
		DMS	Yes
Observation Objective			
<p>Thermal monitoring of Io's nightside covering as wide a range of longitudes as possible with resolutions better than ~800 km/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.</p>			
Data UnGarbled, Data Returned			
Design Detail			
<p>Partial or full disk mosaics within C/A + or - 32 hours in all orbits. High priority orbits are G1, C3, and C10 because these have the highest longitudinal coverage and orbits G7 and G8 because these have the best nighttime resolution for LOKI.</p> <p>Instrument mode: Fixed Map,  Number of Wavelengths: 10,  Tracks used per orbit: 0.01 to 0.1,  Bits To Ground used per orbit: 0.01 to 0.5 Mbits.</p> <p>Cone: 87 degrees.</p>			
Fixed Map (XM), Gain 2, Grating Start 21, LPU, G1IXM10, G1IXM10			
Galileo Activity Plan Form		05/09/96 18:13:54	rev 6/95



**G1ENEUTERM01**

165IW:TT= 0 TMC= 1 C= 3.10 XC= -5.35 BS= 0/3955 TC= 3  
 A= 728 pD= 182 SR=17.450 RA50=335.11 DEC50=-35.91 cone=134.16 clock=301.08  
 118IW:#SB= 1 Cs= -0.25 XCs= 6.40 TPP= 26 SR= 3.000 RR= 8.000 BM=F RC= 1 BS= 3/3955  
 1:#s= 2 #p= 1 Cr= 0.00 XCr= 0.00

TARGET G1.0 brad : 4/30/1996 16: 4:13

FILE:P.G1ESEUTERM01

TARGET BODY : EUROPA

Ride-Along with SSI

MINI:m.target.enc

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS:

THINNING:NONE

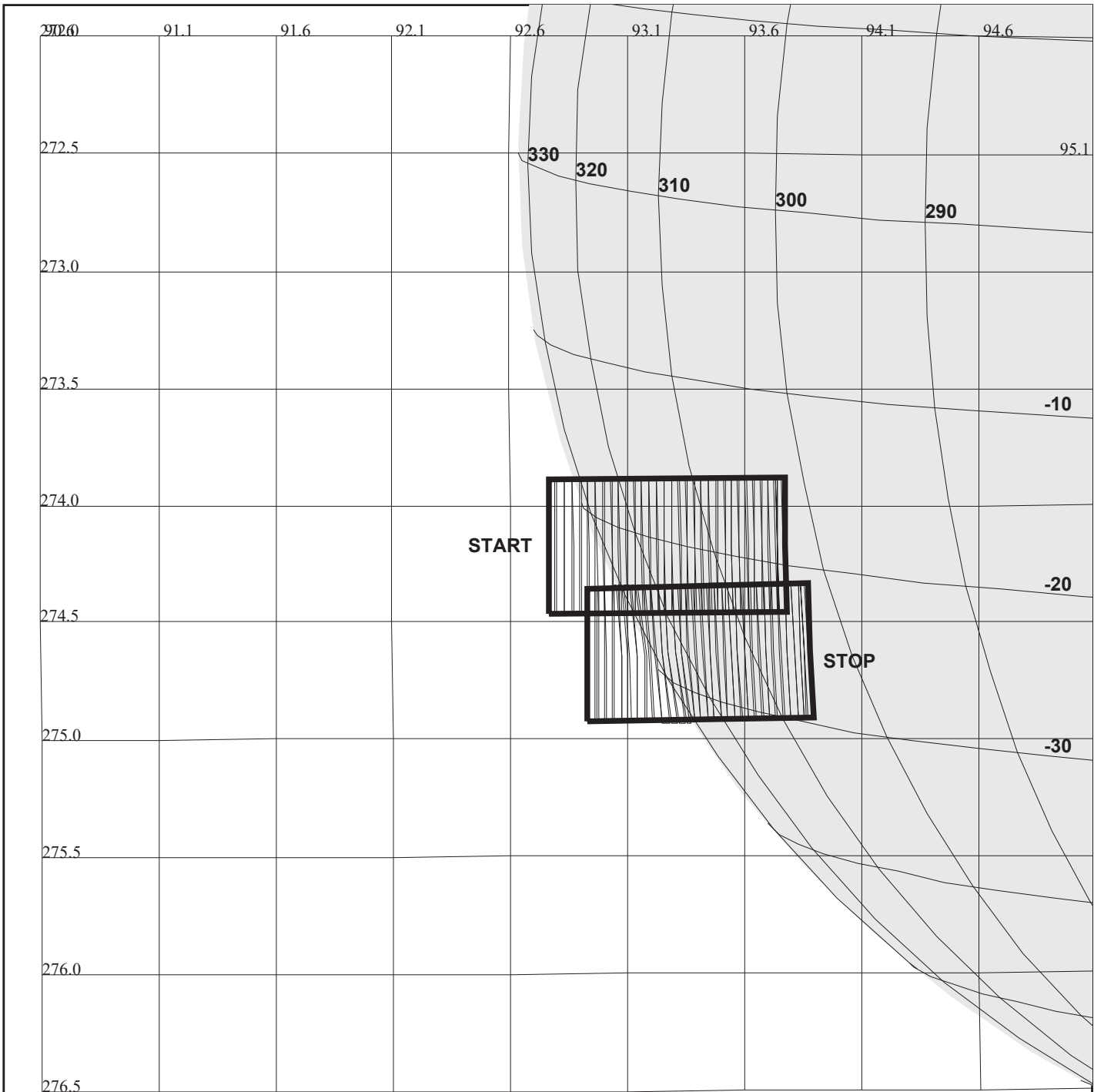
START:EEE 96-180/01:21:53.600 +CDS 143:00:0

BODY PLOT TIME:CENTER-TIME D= 182 S= 0.850

OBSERVATION:G1ESEUTERM01

DESCRIP:1x2\_Europa\_terminator\_clr\_filter

Europa coordinated science NIMS/SSI	ACTIVITY ID: G1ENEUTERM01*	START TIME: 96-180/03:42:26.266
Activity ID: Orbit G1 Target E Inst N OAPEL EUTERM SeqNo 01 *		
Title Europa coordinated science NIMS/SSI Instrument NIMS		
Requestor NIMS-SWG/A. OCAMPO Team NIMS Working Group SWG		
Time System CDS Load ID G1A Calendar Date 06/28/96 Week 26		
Start	EEE+CDS 139:00:0	96-180/03:42:26.266 EEE+000/02:20:32.666
End	EEE+CDS 145:00:0	96-180/03:48:30.266 EEE+000/02:26:36.666
Duration	6:00:0	000/00:13:08.667 000/00:06:04.000
Top Label G1ENEUTERM01*		
Bottom Label		
Plot Key NIMS Type SCI		
CDS Bytes 181 Report Options BOTH Scan Platform No		
CDS Source OAP Spin State DUAL DMS No		
Observation Objective		
This observation intends to obtain NIMS data (Fixed Map, 10 wavelengths) as SSI mosaics of Europa along the terminator.		
Data UnGarbled, Data Returned		
Design Detail		
NIMS mode: XM,	Number of wavelengths recorded: 17	
Gain state: 2	Number of wavelengths P/B: 10	
NIMS resolution:	Telemetry format: IM4	
Fixed Map (XM), Gain 2, Grating Start 21, IM4, G1EXM10, G1EXM10		
Galileo Activity Plan Form	05/09/96 18:13:54	rev 6/95



165ED:TT= 0 TMC= 1 C= 0.00 XC= 3.00 BS= 0/9445 TC= 2(92.8 274 )  
 A= 728 pD= 0 SR=17.430 RA50= 10.17 DEC50= -0.99 cone= 92.80 clock=274.17  
 117ED:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/9445  
 1:#s= 2 Cs= 15.50 XCs= 0.00 Cr= -15.50 XCr= 8.00 sD= 462 rD= 30

## G1JNGRS09101

TARGET G1.0 brad : 4/30/1996 16: 4:13

FILE:P.G1JNGRS09101

CENTRAL BODY:JUPITER

MINI:m.target.enc

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS:

START:JEE 96-180/00:31:20.266 +CDS 388:00:0

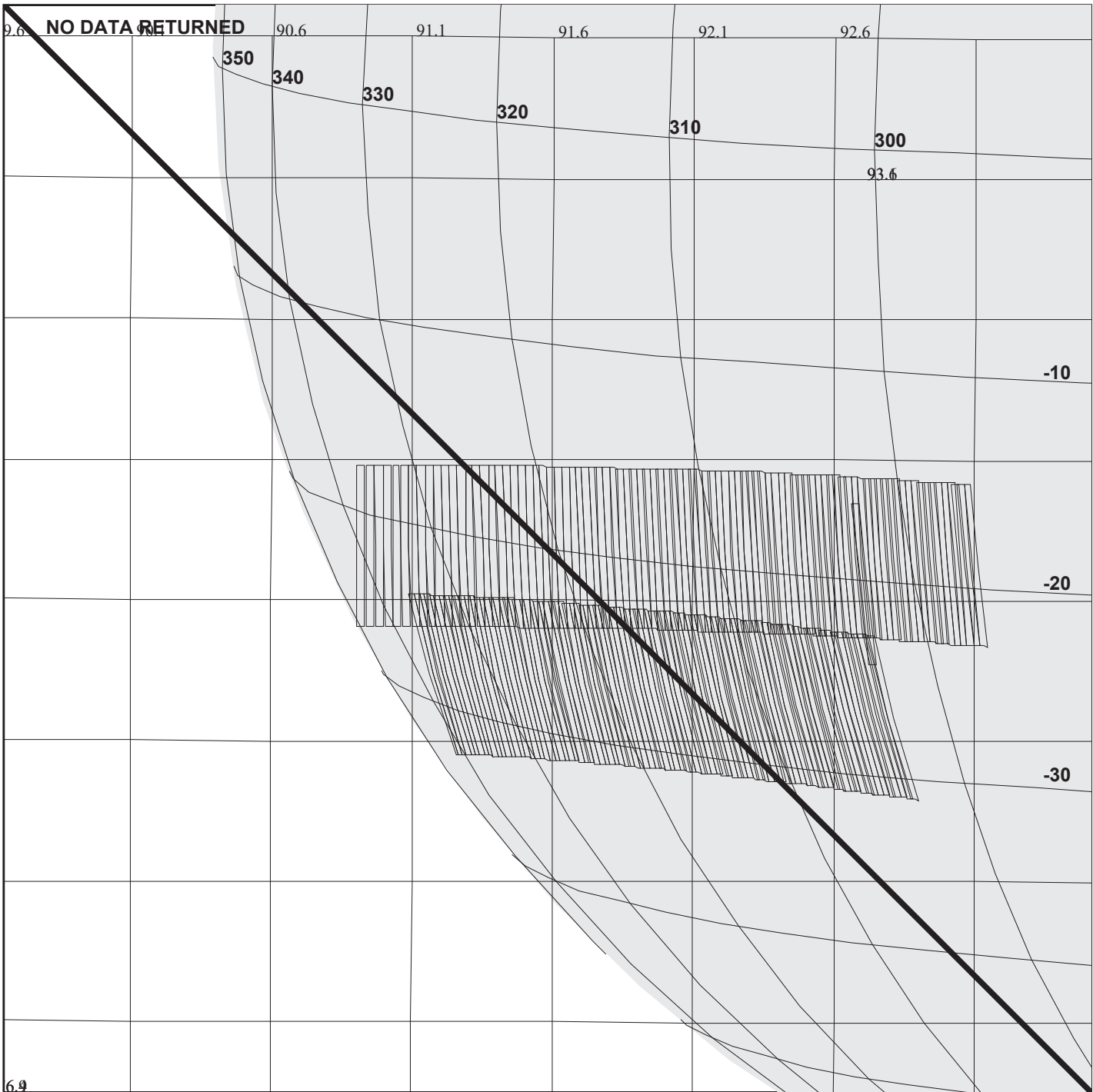
OBSERVATION:G1JNGRS09101

THINNING:NIM 2

BODY PLOT TIME:START-TIME D= 0 S= 2.100

DESCRIP:GRS PHASE 91 #1

GRS 91 Phase #1		ACTIVITY ID: G1JNGRS09101-	
		START TIME: 96-180/06:59:36.266	
Activity ID: Orbit G1 Target J Inst N OAPEL GRS091 SeqNo 01 -			
Title	GRS 91 Phase #1	Instrument	
Requestor	NIMS-AWG/K. BAINES	Team	NIMS Working Group
			NIMS AWG
Time System	CDS	Load ID	G1A
		Calendar Date	06/28/96
		Week	26
Start	JEE+CDS 384:00:0	96-180/06:59:36.266	JEE+000/06:28:16.000
End	JEE+CDS 394:89:0	96-180/07:10:42.266	JEE+000/06:39:22.000
Duration	10:89:0	000/00:11:06.000	000/00:11:06.000
Top Label	G1JNGRS09101-		
Bottom Label			
Plot Key	NIMS	Type	SCI
CDS Bytes	184	Report Options	BOTH
CDS Source	OAP	Spin State	DUAL
		Scan Platform	Yes
		DMS	Yes
Observation Objective			
91 degrees phase observation of GRS near bright limb. First of 2 observations (besides GRSSUB, GRS5UM and GRS3UM observations) acquired on this rotation. 4 colors obtained using table JFT04A.			
Data UnGarbled, Data Returned			
Design Detail			
Approximately 2*2 (~18 mrad N/S by ~20 mrad E/W) shortmap of Great Red Spot. 4 minutes reserved for targetting. Nyquist sampling E/W. 2 mrad overlap between the two tiers. GRS assumed located at 321 degrees longitude (System III), 23 degrees S. latitude. Record duration: 424.666 seconds, accumulating 0.1085 MBTG in 4 colors using 0.01423 tracks.			
Cone: 93 degrees.			
Short Map (SM), Gain 2, Grating Start 1, LPU, G1JFT68A, G1JFT68A			
Galileo Activity Plan Form		05/09/96 18:13:54	rev 6/95



**G1JNGRSSUB01**

165EF:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/5633 TC= 1(-22 340 )  
 A= 364 pD= 9504 SR=17.430 RA50= 11.87 DEC50= -0.24 cone= 90.94 clock=274.21  
 117EF:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/5633  
 1:#s= 2 Cs= 47.00 XCs= 0.00 Cr= -45.00 XCr= 8.00 sD= 4740 rD= 24

TARGET G1.0 brad : 4/30/1996 16: 4:13

FILE:P.G1JNGRSSUB01

CENTRAL BODY:JUPITER

MINI:m.target.enc

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS:

START:JEE 96-180/00:31:20.266 +CDS 422:00:0

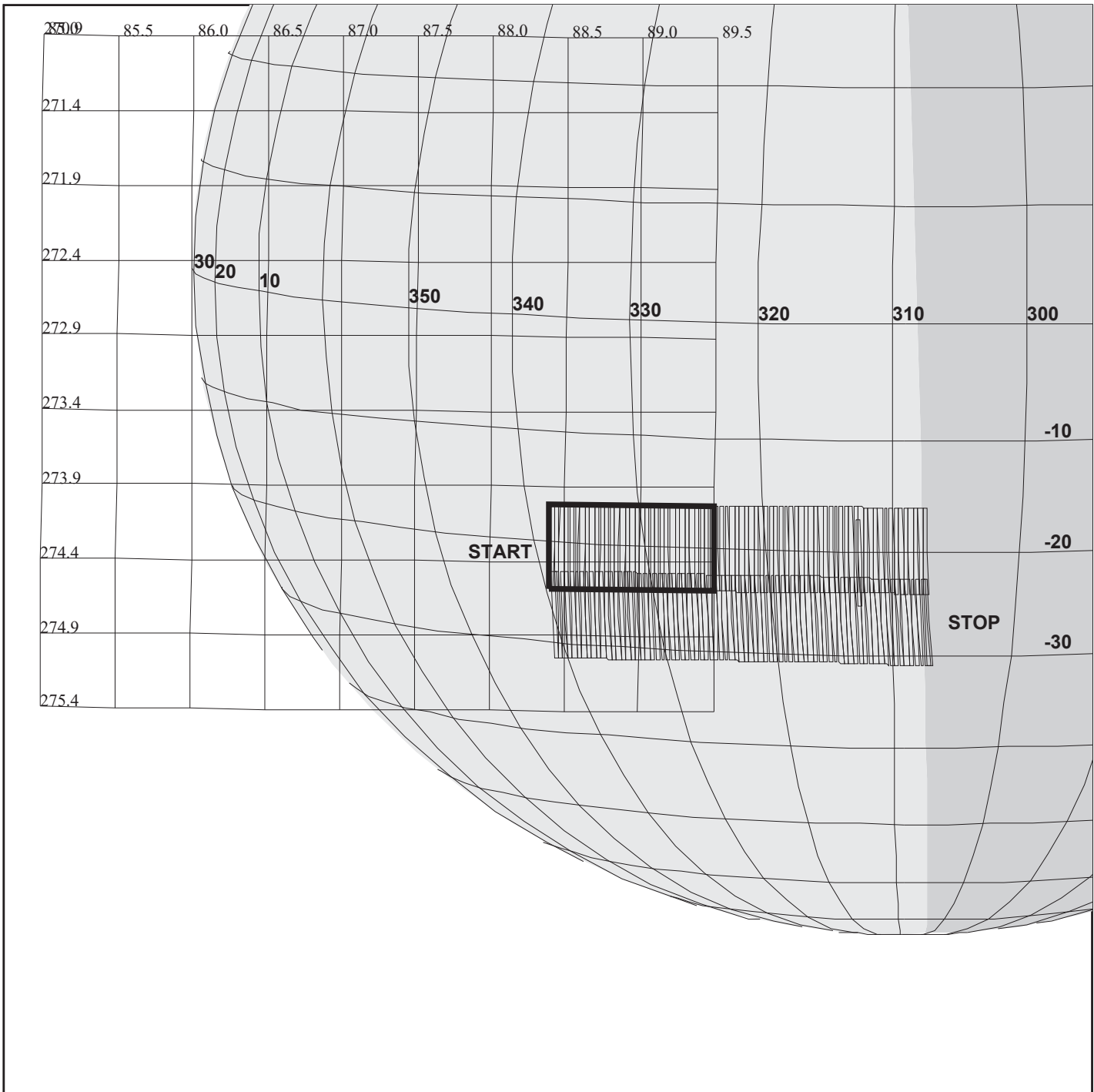
OBSERVATION:G1JNGRSSUB01

THINNING:NIM 2

BODY PLOT TIME:START-TIME D= 9504 S= 2.500

DESCRIP:GRS CFSUB NIMS LM

GRS CFSUB	ACTIVITY ID: G1JNGRSSUB01-		START TIME: 96-180/07:36:00.266	
Activity ID: Orbit G1 Target J Inst N OAPEL GRSSUB SeqNo 01 -				
Title Requestor	GRS CFSUB NIMS-AWG/K. BAINES	Team	NIMS Working Group	Instrument NIMS AWG
Time System	CDS	Load ID	G1A	Calendar Date 06/28/96 Week 26
Start	JEE+CDS 420:00:0		96-180/07:36:00.266	JEE+000/07:04:40.000
End	JEE+CDS 474:37:0		96-180/08:31:00.932	JEE+000/07:59:40.666
Duration	54:37:0		000/00:55:00.666	000/00:55:00.666
Top Label	G1JNGRSSUB01-			
Bottom Label				
Plot Key	NIMS	Type	SCI	
CDS Bytes	238	Report Options	BOTH	Scan Platform Yes
CDS Source	OAP	Spin State	DUAL	DMS Yes
Observation Objective				
Spectral map of the GRS in and out of several CH4 and H2 absorption features. 80 wavelengths obtained using table JSB80A.				
Data Garbled, No Data Returned				
Design Detail				
2*3 (~18 mrad N/S by ~30 mrad E/W) longmap of Great Red Spot. 2 minutes reserved for targetting. Nyquist sampling E/W. 2 mrad overlap between the two tiers. GRS assumed located at 321 degrees longitude (System III), 23 degrees S. latitude. Record duration: 3182 seconds, accumulating 3.2045 MBTG in 80 colors using 0.1069 tracks.				
Cone: 91 degrees.				
Long Map (LM), Gain 2, Grating Start 0, LPU, G1JSB80A, G1JSB80A				
Galileo Activity Plan Form		05/09/96 18:13:55		rev 6/95



**G1JNGRS09102**

165EE:TT= 0 TMC= 1 C= -25.50 XC= -4.00 BS= 0/8191 TC= 1(-23 320 )  
 A= 728 pD= 0 SR=17.430 RA50= 14.17 DEC50= 0.75 cone= 88.44 clock=274.29  
 117EE:#SB= 1 OR= 0.110 RR=12.000 BM=F RC= 1 BS= 0/8191  
 1:#s= 2 Cs= 42.00 XCs= 0.00 Cr= -44.00 XCr= 8.00 sD= 1062 rD= 24

TARGET G1.0 brad : 4/30/1996 16: 4:13

FILE:P.G1JNGRS09102

CENTRAL BODY:JUPITER

MINI:m.target.enc

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS:

START:JEE 96-180/00:31:20.266 +CDS 491:00:0

OBSERVATION:G1JNGRS09102

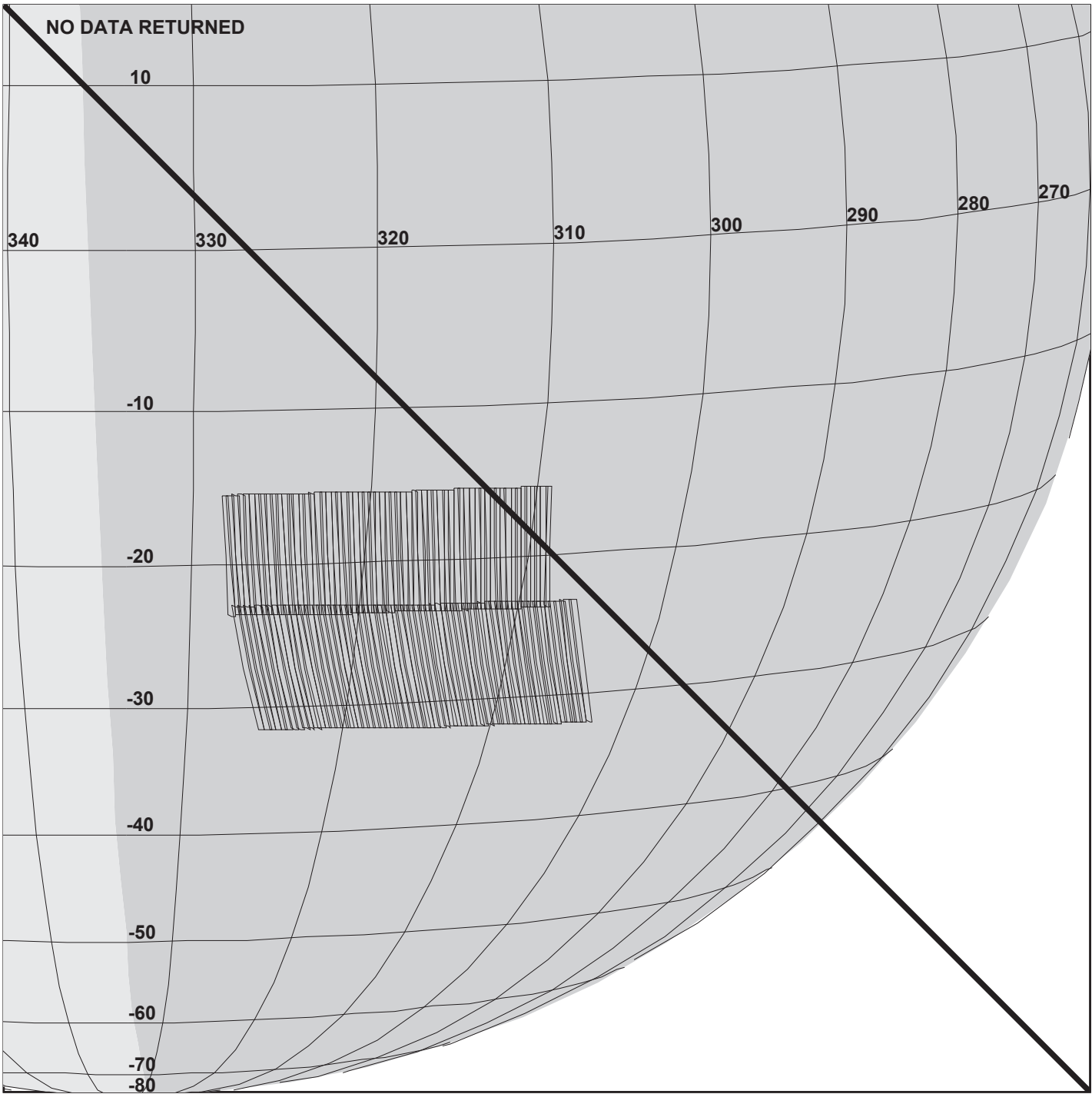
THINNING:NIM 2

BODY PLOT TIME:START-TIME D= 0 S= 1.300

DESCRIP:GRS PHASE 91 #2



GRS 91 Phase #2		ACTIVITY ID: G1JNGRS09102-	
		START TIME: 96-180/08:43:44.932	
Activity ID: Orbit G1 Target J Inst N OAPEL GRS091 SeqNo 02 -			
Title	GRS 91 Phase #2	Instrument	
Requestor	NIMS-AWG/K. BAINES	Team NIMS	Working Group NIMS AWG
Time System	CDS	Load ID	G1A
		Calendar Date	06/28/96
		Week	26
Start	JEE+CDS 487:00:0	96-180/08:43:44.932	JEE+000/08:12:24.666
End	JEE+CDS 502:76:0	96-180/08:59:45.599	JEE+000/08:28:25.333
Duration	15:76:0	000/00:16:00.667	000/00:16:00.667
Top Label	G1JNGRS09102-		
Bottom Label			
Plot Key	NIMS	Type	SCI
CDS Bytes	184	Report Options	BOTH
CDS Source	OAP	Spin State	DUAL
		Scan Platform	Yes
		DMS	Yes
Observation Objective			
91 degrees phase observation of GRS near evening terminator. Second of 2 observations (besides GRSSUB, GRS5UM and GRS3UM observations) acquired on this rotation. 4 colors obtained using table JFT04A.			
Data UnGarbled, Data Returned			
Design Detail			
Approximately 2*3 (~18 mrad N/S by ~30 mrad E/W) shortmap of Great Red Spot. 4 minutes reserved for targetting. Nyquist sampling E/W. 2 mrad overlap between the two tiers. GRS assumed located at 321 degrees longitude (System III), 23 degrees S. latitude. Record duration: 950 seconds, accumulating 0.2427 MBTG in 4 colors using 0.0318 tracks.			
Cone: 89 degrees.			
Short Map (SM), Gain 2, Grating Start 1, LPU, G1JFT68A, G1JFT68A			
Galileo Activity Plan Form		05/09/96 18:13:55	rev 6/95



165EH:TT= 0 TMC= 1 C= 13.00 XC= -5.00 BS= 0/6380 TC= 1(-23 318 )  
 A= 364 pD= 0 SR=17.430 RA50= 12.69 DEC50= 0.23 cone= 90.01 clock=274.13  
 117EH:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/6380  
 1:#s= 2 Cs= -32.00 XCs= 0.00 Cr= 26.00 XCr= 8.00 sD= 3210 rD= 24

**G1JNGRS5UM01**

TARGET G1.0 brad : 4/30/1996 16: 4:13

FILE:P.G1JNGRS5UM01

CENTRAL BODY:JUPITER

MINI:m.target.enc

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS:

START:JEE 96-180/00:31:20.266 +CDS 536:00:0

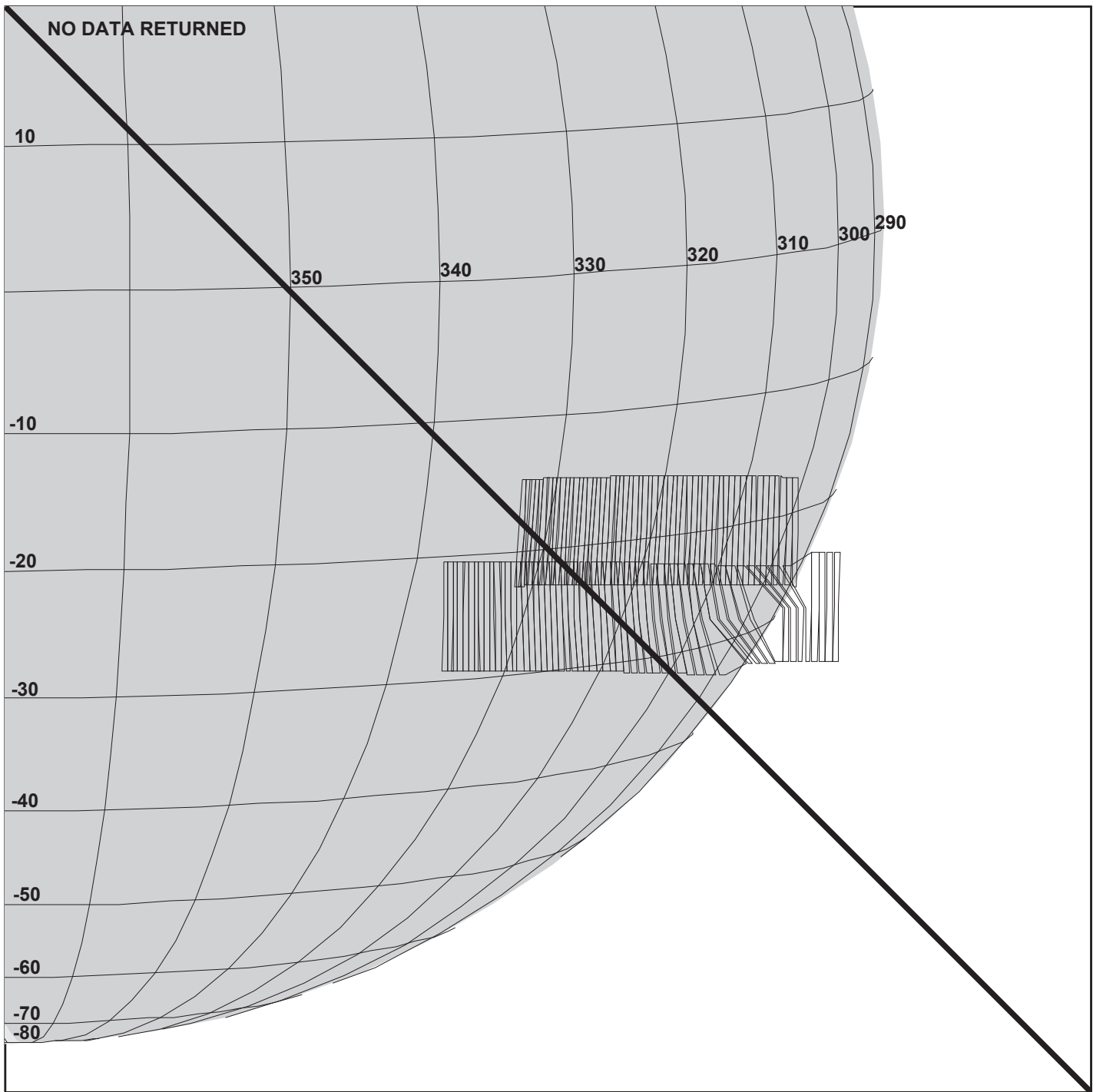
OBSERVATION:G1JNGRS5UM01

THINNING:NIM 2

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

DESCRIP:GRS 5-MICRON MAP #1 NIMS LM

GRS 5-micron map #1		ACTIVITY ID: G1JNGRS5UM01-	
		START TIME: 96-180/09:31:16.266	
Activity ID: Orbit G1 Target J Inst N OAPEL GRS5UM SeqNo 01 -			
Title	GRS 5-micron map #1	Instrument	
Requestor	NIMS-AWG/K. BAINES	Team	NIMS Working Group
			NIMS AWG
Time System	CDS	Load ID	G1A
		Calendar Date	06/28/96
		Week	26
Start	JEE+CDS 534:00:0	96-180/09:31:16.266	JEE+000/08:59:56.000
End	JEE+CDS 571:54:0	96-180/10:09:16.932	JEE+000/09:37:56.666
Duration	37:54:0	000/00:38:00.666	000/00:38:00.666
Top Label	G1JNGRS5UM01-		
Bottom Label			
Plot Key	NIMS	Type	SCI
CDS Bytes	184	Report Options	BOTH
CDS Source	OAP	Spin State	DUAL
		Scan Platform	Yes
		DMS	Yes
Observation Objective			
5 Micron nighttime spectral map of trace species within GRS, near central meridian. First of 2 nightside 5-micron observations. 80 contiguous wavelengths acquired utilizing table J5M80B.			
Data Garbled, No Data Returned			
Design Detail			
2*3 (~18 mrad N/S by ~30 mrad E/W) longmap of Great Red Spot. 2 minutes reserved for targetting. Nyquist sampling E/W. 2 mrad overlap between the two tiers. GRS assumed located at 321 degrees longitude (System III), 23 degrees S. latitude. Record duration: 2164 seconds, accumulating 2.1793 MBTG in 80 colors using 0.0727 tracks.			
Cone: 89 degrees.			
Long Map (LM), Gain 4, Grating Start 0, LPU, G1J5M80B, G1J5M80B			
Galileo Activity Plan Form		05/09/96 18:13:55	rev 6/95



**G1JNGRS3UM01**

165El:TT= 0 TMC= 1 C= -15.00 XC= -4.00 BS= 0/4570 TC= 1(-23 318 )  
 A= 182 pD= 5826 SR=17.430 RA50= 15.04 DEC50= 1.48 cone= 87.34 clock=273.99  
 117El:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/4570  
 1:#s= 2 Cs= 28.70 XCs= 0.00 Cr= -32.00 XCr= 8.00 sD= 2898 rD= 30

TARGET G1.0 brad : 4/30/1996 16: 4:13

FILE:P.G1JNGRS3UM01

CENTRAL BODY:JUPITER

MINI:m.target.enc

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS:

START:JEE 96-180/00:31:20.266 +CDS 581:00:0

OBSERVATION:G1JNGRS3UM01

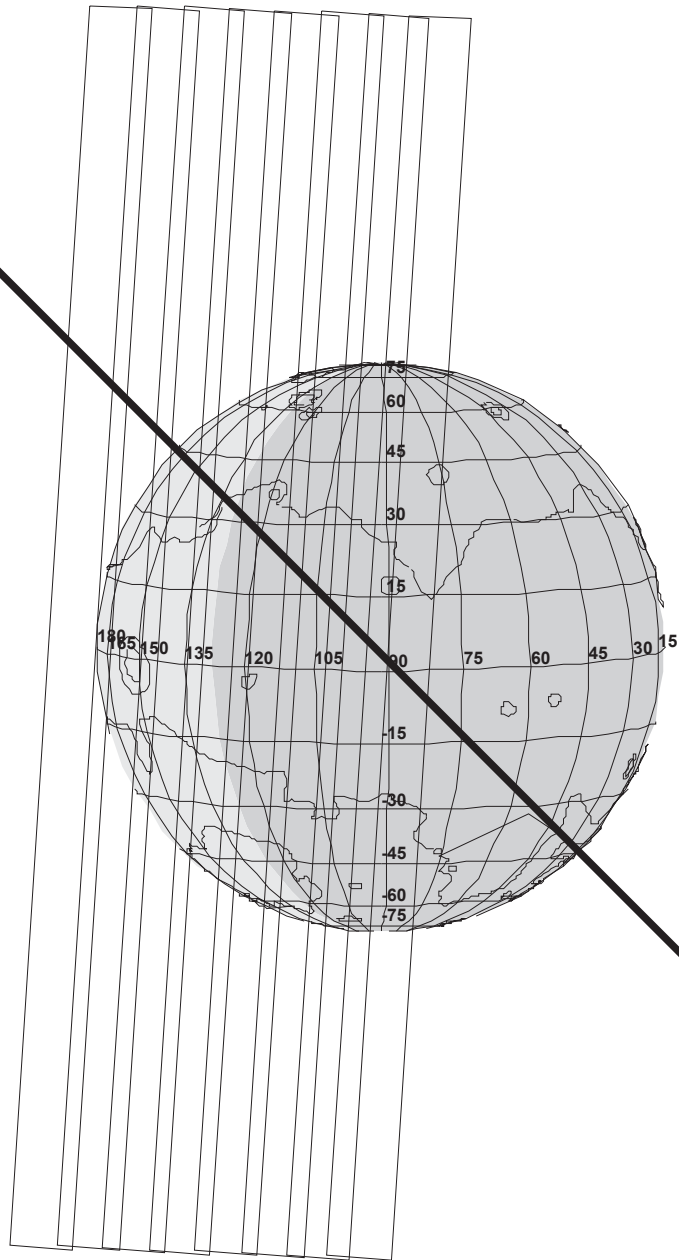
THINNING:NIM 2

BODY PLOT TIME:CENTER-TIME D= 5826 S= 1.600

DESCRIP:GRS 3-MICRON MAP#1 NIMS LM

GRS 3-micron map		ACTIVITY ID: G1JNGRS3UM01-	
		START TIME: 96-180/10:17:46.932	
Activity ID: Orbit G1 Target J Inst N OAPEL GRS3UM SeqNo 01 -			
Title	GRS 3-micron map	Instrument	
Requestor	NIMS-AWG/K. BAINES	Team NIMS	Working Group NIMS AWG
Time System	CDS	Load ID	G1A
		Calendar Date	06/28/96
		Week	26
Start	JEE+CDS 580:00:0	96-180/10:17:46.932	JEE+000/09:46:26.666
End	JEE+CDS 613:00:0	96-180/10:51:08.932	JEE+000/10:19:48.666
Duration	33:00:0	000/00:33:22.000	000/00:33:22.000
Top Label	G1JNGRS3UM01-		
Bottom Label			
Plot Key	NIMS	Type	SCI
CDS Bytes	192	Report Options	BOTH
CDS Source	OAP	Spin State	DUAL
		Scan Platform	Yes
		DMS	Yes
Observation Objective			
3 and 5 micron nighttime spectral map of trace species within GRS, at about 40 degrees relative longitude. 160 contiguous wavelengths acquired utilizing table J35160.			
Data Garbled, No Data Returned			
Design Detail			
2*3 (~18 mrad N/S by ~30 mrad E/W) longmap of Great Red Spot. 30 seconds reserved for targetting. Nyquist sampling E/W. 2 mrad overlap between the two tiers. GRS assumed located at 321 degrees longitude (System III), 23 degrees S. latitude. Record duration: 2164 seconds, accumulating 4.3586 MBTG in 160 colors using 0.0727 tracks.			
Cone: 88 degrees.			
Long Map (LM), Gain 4, Grating Start 0, LPU, G1J35160, G1J35160			
Galileo Activity Plan Form		05/09/96 18:13:55	rev 6/95

NO DATA RETURNED



## G1INCHEMIS02

DESIGN G1.0 brad : 6/12/1996 8:12:17

FILE:P.G1INCHEMIS02

TARGET BODY : IO

MINI:m.G1INCHEMIS02

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS:

START:IEE 96-180/18:27:09.533 -CDS 423:00:0

OBSERVATION:G1INCHEMIS02

165EL:TT= 0 TMC= 1 C= -2.60 XC= 0.00 BS= 0/5490 TC= 9  
A= 384 pD= 3600 SR=17.430 RA50= 46.29 DEC50= 14.72 cone= 53.76 clock=274.05  
117EL:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/5490  
1:#s= 1 Cs= 1.90 XC= 0.00 Cr= 0.00 XCr= 0.00 sD= 204 rD= 12

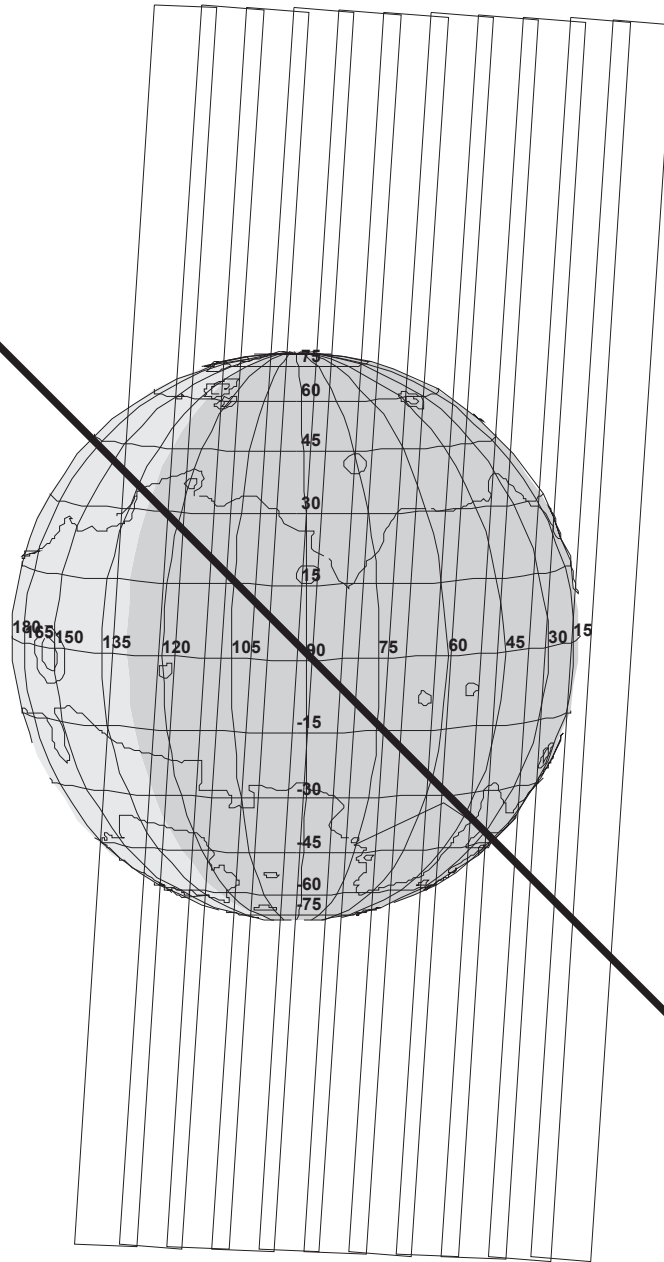
THINNING:NIM 1

BODY PLOT TIME:TARGET-TIME D= 3600 S= 0.400

DESCRIP:MONITORING OF IOs DAYSIDE

MONITORING OF IO'S DAYSIDE		ACTIVITY ID: G1INCHEMIS02-	
		START TIME: 96-180/11:16:25.533	
Activity ID: Orbit G1 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	G1A
		Calendar Date	06/28/96
		Week	26
Start	IEE-CDS 426:00:0	96-180/11:16:25.533	IEE-000/07:10:44.000
End	IEE-CDS 421:63:0	96-180/11:20:46.867	IEE-000/07:06:22.666
Duration	4:28:0	000/00:04:21.334	000/00:04:21.334
Top Label	G1INCHEMIS02-		
Bottom Label			
Plot Key	NIMS	Type	SCI
CDS Bytes	171	Report Options	BOTH
CDS Source	OAP	Spin State	DUAL
		Scan Platform	Yes
		DMS	Yes
Observation Objective			
<p>Dayside monitoring covering wide range of longitudes to look for chemical changes (e.g. SO2 distribution) at resolutions better than ~800 km/nimse1 (most observations will have resolutions between 120 and 400 km/nimse1).</p>			
<p>Data Garbled, No Data Returned</p>			
Design Detail			
<p>Partial or full disk mosaics within C/A + or - 32 hours in all orbits. High priority orbits are G2, C3, E4, E6 and E10 where resolution for lit disk is best.</p> <p>Long map, 102 wavelengths.</p> <p>Tracks used per orbit: 0.05 to 0.42.</p> <p>Bits To Ground per orbit: 0.3 to 2.2 Mbits.</p> <p>Cone: 53 degrees.</p>			
<p>Long Map (LM), Gain 2, Grating Start 0, LPU, G1ILM245, G1ILM102</p>			
Galileo Activity Plan Form		05/09/96 18:13:55	rev 6/95

NO DATA RETURNED



165EK:TT= 0 TMC= 1 C= -1.40 XC= 0.00 BS= 0/6218 TC= 9  
A= 364 pD= 0 SR=17.430 RA50= 46.41 DEC50= 14.74 cone= 53.65 clock=274.08  
117EK:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/6218  
1:#s= 1 Cs= 2.70 XC= 0.00 Cr= 0.00 XC= 0.00 sD= 288 rD= 2

## G1INTHRMAL02

DESIGN G1.0 brad : 6/12/1996 8:27:32

FILE:P.G1INTHRMAL02

TARGET BODY : IO

MINI:m.G1INTHRMAL02

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS:

START:IEE 96-180/18:27:09.533 -CDS 419:00:0

OBSERVATION:G1INTHRMAL02

THINNING:NIM 1

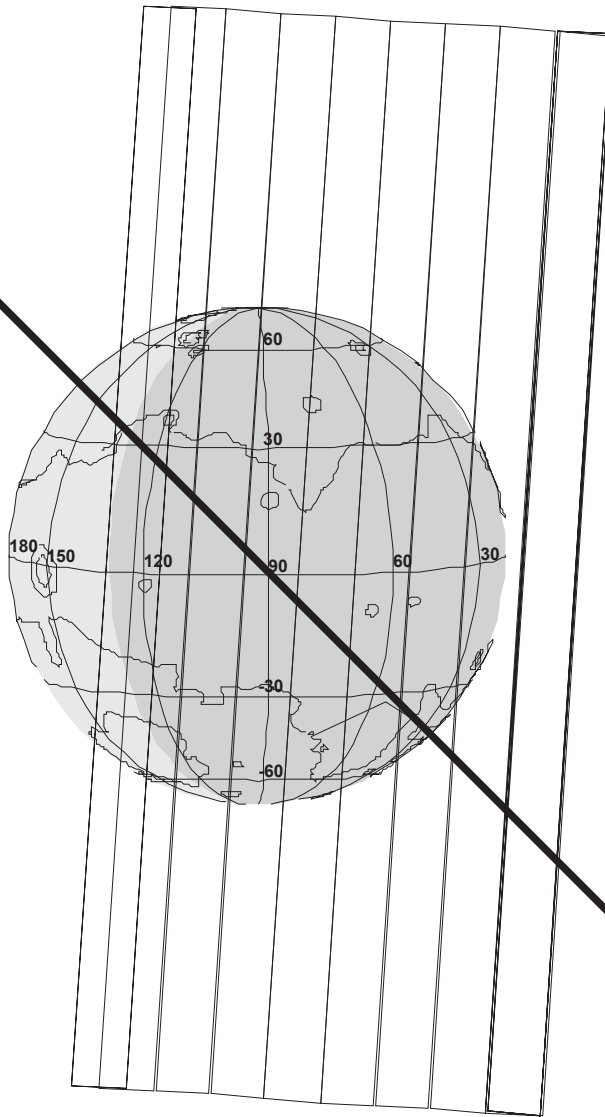
BODY PLOT TIME:TARGET-TIME D= 0 S= 0.400

DESCRIP:MONITORING OF IOs NIGHTSIDE



MONITORING OF IO'S NIGHTSIDE		ACTIVITY ID: G1INTHERMAL02-	
		START TIME: 96-180/11:21:28.867	
Activity ID: Orbit G1 Target I Inst N OAPEL THRMAL SeqNo 02 -			
Title	MONITORING OF IO'S NIGHTSIDE	Instrument	
Requestor	NIMS-SWG/R. LOPES	Team	NIMS Working Group
			NIMS SWG
Time System	CDS	Load ID	G1A
		Calendar Date	06/28/96
		Week	26
Start	IEE-CDS 421:00:0	96-180/11:21:28.867	IEE-000/07:05:40.666
End	IEE-CDS 416:38:0	96-180/11:26:06.867	IEE-000/07:01:02.666
Duration	4:53:0	000/00:04:38.000	000/00:04:38.000
Top Label	G1INTHERMAL02-		
Bottom Label			
Plot Key	NIMS	Type	SCI
CDS Bytes	174	Report Options	BOTH
CDS Source	OAP	Spin State	DUAL
		Scan Platform	Yes
		DMS	Yes
Observation Objective			
<p>Thermal monitoring of Io's nightside covering as wide a range of longitudes as possible with resolutions better than ~800 km/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.</p>			
Data Garbled, No Data Returned			
Design Detail			
<p>Partial or full disk mosaics within C/A + or - 32 hours in all orbits. High priority orbits are G1, C3, and C10 because these have the highest longitudinal coverage and orbits G7 and G8 because these have the best nighttime resolution for LOKI.</p> <p>Instrument mode: Long Map,  Number of Wavelengths: 102,  Tracks used per orbit: 0.01 to 0.1,  Bits To Ground used per orbit: 0.01 to 0.5 Mbits.</p> <p>Cone: 53 degrees.</p>			
Long Map (LM), Gain 4, Grating Start 0, LPU, G1ILMDK245, G1ILMDK102			
Galileo Activity Plan Form		05/09/96 18:13:55	rev 6/95

NO DATA RETURNED



## G1INVOLCAN05

DESIGN G1.0 brad : 6/12/1996 8:39:39

FILE:P.G1INVOLCAN05

TARGET BODY : IO

MINI:m.G1INVOLCAN05

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS:

START:IEE 96-180/18:27:09.533 -CDS 414:00:0

OBSERVATION:G1INVOLCAN05

165EM:TT= 0 TMC=1 C= -1.15 XC= 0.00 BS= 0/7128 TC= 3  
A= 364 pD= 0 SR=17.430 RA50= 46.62 DEC50= 14.79 cone= 53.45 clock=274.11  
117EM:#SB= 1 OR= 0.750 RR=12.000 BM=F RC= 1 BS= 0/7128  
1:#s= 1 Cs= 3.75 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 26 rD= 2

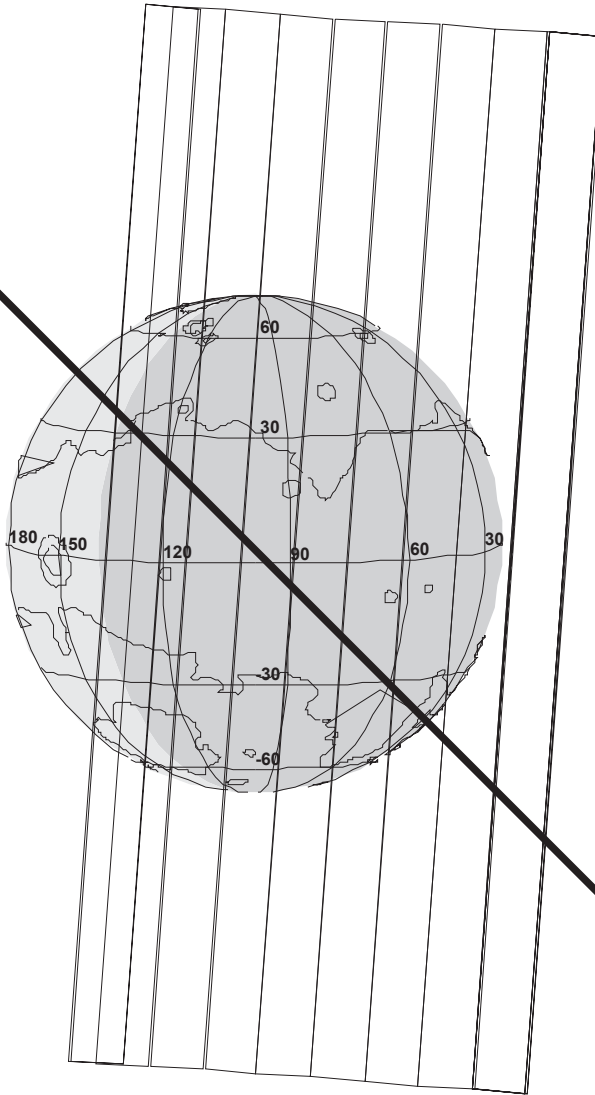
THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.350

DESCRIP:monitor volcanic regions

MONITORING OF SELECTED VOLCANIC REGIONS		ACTIVITY ID:	G1INVOLCAN05-		
		START TIME:	96-180/11:26:32.200		
Activity ID: Orbit G1 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	G1A	Calendar Date	06/28/96 Week 26
Start	IEE-CDS	416:00:0		96-180/11:26:32.200	IEE-000/07:00:37.333
End	IEE-CDS	411:69:0		96-180/11:30:49.533	IEE-000/06:56:20.000
Duration		4:22:0		000/00:04:17.333	000/00:04:17.333
Top Label	G1INVOLCAN05-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	178	Report Options	BOTH		
CDS Source	OAP	Spin State	DUAL	Scan Platform	Yes
				DMS	Yes
Observation Objective					
To monitor time variations in activity of selected regions (Loki, Pelee, Kanehekili) using selected wavelengths.					
Data Garbled, 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 )					
Cone: 53 degrees.					
Fixed Map (XM), Gain 2, Grating Start 21, LPU, G1IXM10, G1IXM10					
Galileo Activity Plan Form			05/09/96	18:13:55	rev 6/95

NO DATA RETURNED



## G1INVOLCAN04

DESIGN G1.0 brad : 6/12/1996 8:39:15

FILE:P.G1INVOLCAN04

TARGET BODY : IO

MINI:m.G1INVOLCAN04

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS:

START:IEE 96-180/18:27:09.533 -CDS 358:00:0

OBSERVATION:G1INVOLCAN04

165EN:TT= 0 TMC= 1 C= -1.15 XC= 0.00 BS= 0/7320 TC= 3  
A= 364 pD= 0 SR=17.430 RA50= 48.88 DEC50= 15.33 cone= 51.21 clock=274.43  
117EN:#SB= 1 OR= 0.750 RR=12.000 BM=F RC= 1 BS= 0/7320  
1:#s= 1 Cs= 3.75 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 26 rD= 2

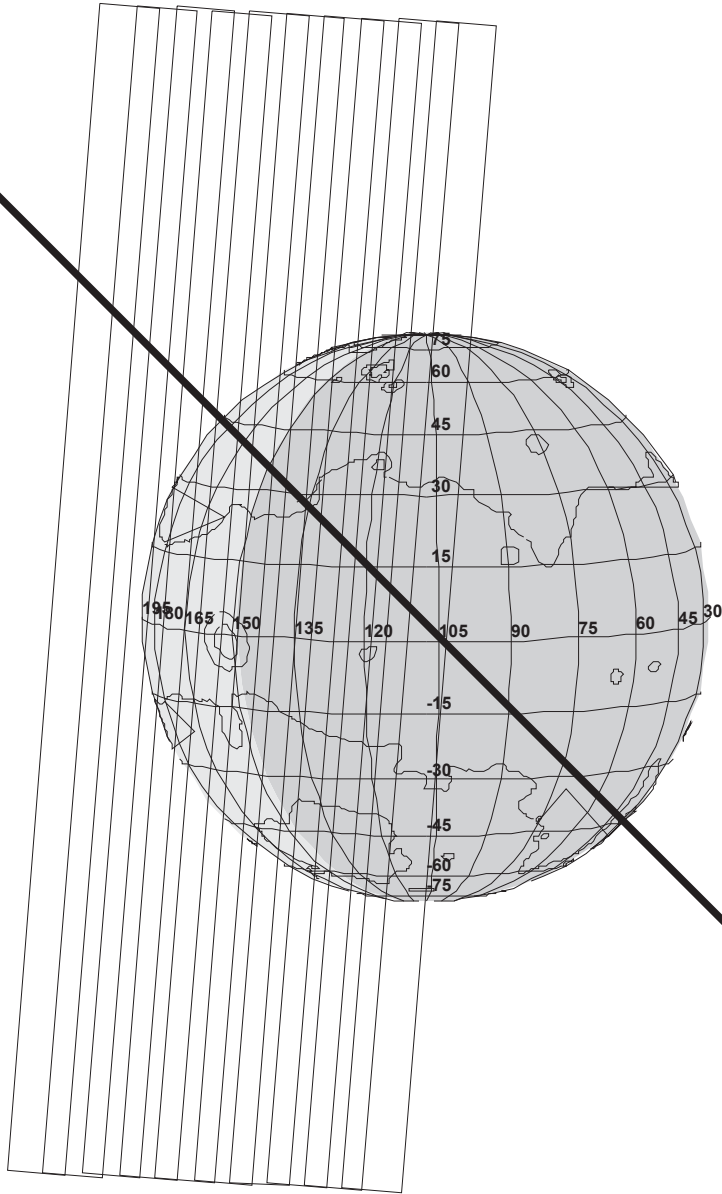
THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.350

DESCRIP:monitor volcanic regions

MONITORING OF SELECTED VOLCANIC REGIONS		ACTIVITY ID:	G1INVOLCAN04-		
		START TIME:	96-180/12:23:09.533		
Activity ID: Orbit G1 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	G1A	Calendar Date	06/28/96 Week 26
Start	IEE-CDS	360:00:0		96-180/12:23:09.533	IEE-000/06:04:00.000
End	IEE-CDS	355:69:0		96-180/12:27:26.867	IEE-000/05:59:42.666
Duration		4:22:0		000/00:04:17.334	000/00:04:17.334
Top Label	G1INVOLCAN04-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	147	Report Options	BOTH		
CDS Source	OAP	Spin State	DUAL	Scan Platform	Yes
				DMS	Yes
Observation Objective					
To monitor time variations in activity of selected regions (Loki, Pelee, Kanehekili) using selected wavelengths.					
Data Garbled, 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 )					
Cone: 51 degrees.					
Fixed Map (XM), Gain 2, Grating Start 21, LPU, G1IXM10, G1IXM10					
Galileo Activity Plan Form			05/09/96	18:13:55	rev 6/95

NO DATA RETURNED



## G1INCHEMIS03

DESIGN G1.0 brad : 6/12/1996 8:12:52

FILE:P.G1INCHEMIS03

TARGET BODY : IO

MINI:m.G1INCHEMIS03

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS:

START:IEE 96-180/18:27:09.533 -CDS 276:00:0

OBSERVATION:G1INCHEMIS03

165EO:TT= 0 TMC=1 C= -3.10 XC= 0.00 BS= 0/2244 TC= 9  
A= 728 pD= 0 SR=17.430 RA50= 51.51 DEC50= 15.90 cone= 48.63 clock=274.84  
117EO:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/2244  
1:#s= 1 Cs= 2.50 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 268 rD= 12

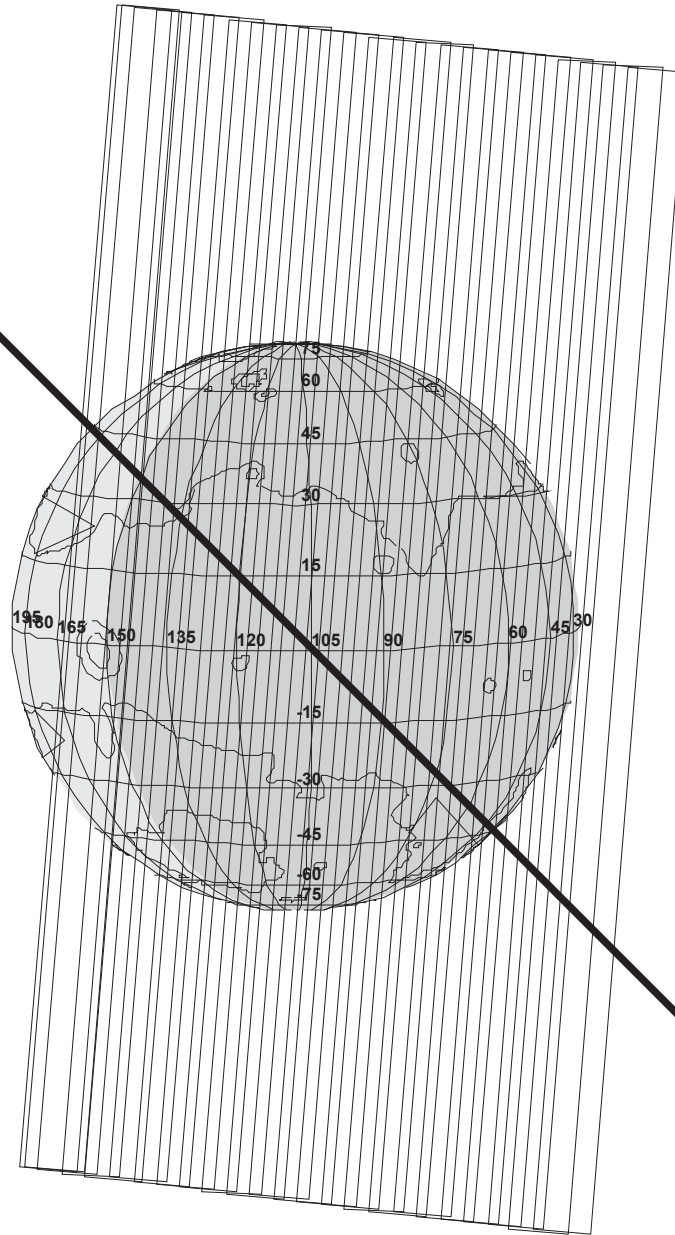
THINNING:NIM 1

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.400

DESCRIP:MONITORING OF IOs DAYSIDE

MONITORING OF IO'S DAYSIDE		ACTIVITY ID: G1INCHEMIS03-	
		START TIME: 96-180/13:45:03.533	
Activity ID: Orbit G1 Target I Inst N OAPEL CHEMIS SeqNo 03 -			
Title	MONITORING OF IO'S DAYSIDE		Instrument
Requestor	NIMS-SWG/R. LOPES	Team	NIMS Working Group
			NIMS SWG
Time System	CDS	Load ID	G1A
		Calendar Date	06/28/96
		Week	26
Start	IEE-CDS 279:00:0		96-180/13:45:03.533
End	IEE-CDS 273:48:0		96-180/13:50:35.533
Duration	5:43:0		000/00:05:32.000
			IEE-000/04:42:06.000
			IEE-000/04:36:34.000
			000/00:05:32.000
Top Label	G1INCHEMIS03-		
Bottom Label			
Plot Key	NIMS	Type	SCI
CDS Bytes	178	Report Options	BOTH
CDS Source	OAP	Spin State	DUAL
		Scan Platform	DMS
			Yes
			Yes
Observation Objective			
<p>Dayside monitoring covering wide range of longitudes to look for chemical changes (e.g. SO2 distribution) at resolutions better than ~800 km/nimse1 (most observations will have resolutions between 120 and 400 km/nimse1).</p>			
<p>Data Garbled, No Data Returned</p>			
Design Detail			
<p>Partial or full disk mosaics within C/A + or - 32 hours in all orbits. High priority orbits are G2, C3, E4, E6 and E10 where resolution for lit disk is best.</p> <p>Long map, 102 wavelengths.</p> <p>Tracks used per orbit: 0.05 to 0.42.</p> <p>Bits To Ground per orbit: 0.3 to 2.2 Mbits.</p> <p>Cone: 48 degrees.</p>			
<p>Long Map (LM), Gain 2, Grating Start 0, LPU, G1ILM245, G1ILM102</p>			
Galileo Activity Plan Form		05/09/96 18:13:56	rev 6/95

NO DATA RETURNED



165EP:TT= 0 TMC= 1 C= 2.80 XC= 0.00 BS= 0/3336 TC= 9  
A= 364 pD= 0 SR=17.430 RA50= 51.32 DEC50= 15.81 cone= 48.83 clock=274.87  
117EP:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/3336  
1:#s= 1 Cs= -5.80 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 614 rD= 12

## G1INTHRMAL03

DESIGN G1.0 brad : 6/12/1996 8:27:53

FILE:P.G1INTHRMAL03

TARGET BODY : IO

MINI:m.G1INTHRMAL03

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS:

START:IEE 96-180/18:27:09.533 -CDS 270:00:0

OBSERVATION:G1INTHRMAL03

THINNING:NIM 1

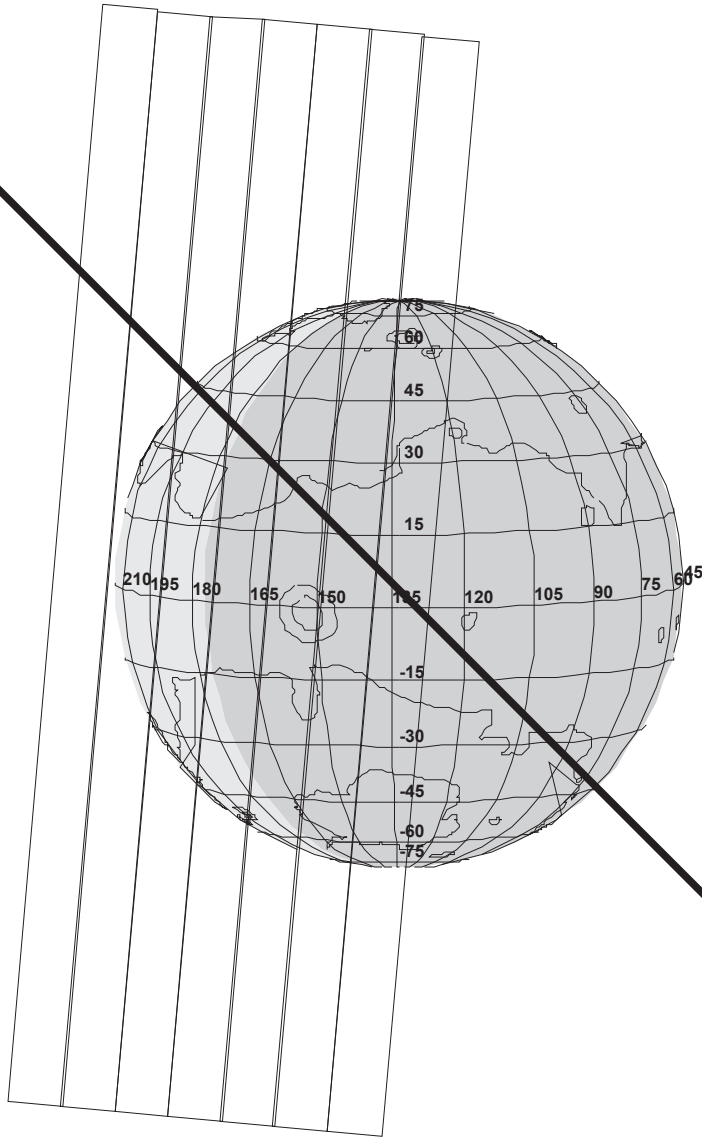
BODY PLOT TIME:TARGET-TIME D= 0 S= 0.400

DESCRIP:MONITORING OF IOs NIGHTSIDE



MONITORING OF IO'S NIGHTSIDE		ACTIVITY ID: G1INTHERMAL03-	
		START TIME: 96-180/13:52:08.200	
Activity ID: Orbit G1 Target I Inst N OAPEL THRMAL SeqNo 03 -			
Title	MONITORING OF IO'S NIGHTSIDE	Instrument NIMS	
Requestor	NIMS-SWG/R. LOPES	Team NIMS	Working Group SWG
Time System	CDS	Load ID G1A	Calendar Date 06/28/96 Week 26
Start	IEE-CDS 272:00:0	96-180/13:52:08.200	IEE-000/04:35:01.333
End	IEE-CDS 265:55:0	96-180/13:58:36.200	IEE-000/04:28:33.333
Duration	6:36:0	000/00:06:28.000	000/00:06:28.000
Top Label	G1INTHERMAL03-		
Bottom Label			
Plot Key	NIMS	Type	SCI
CDS Bytes	174	Report Options	BOTH
CDS Source	OAP	Spin State	DUAL
		Scan Platform	Yes
		DMS	Yes
Observation Objective			
<p>Thermal monitoring of Io's nightside covering as wide a range of longitudes as possible with resolutions better than ~800 km/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.</p>			
Data Garbled, No Data Returned			
Design Detail			
<p>Partial or full disk mosaics within C/A + or - 32 hours in all orbits. High priority orbits are G1, C3, and C10 because these have the highest longitudinal coverage and orbits G7 and G8 because these have the best nighttime resolution for LOKI.</p> <p>Instrument mode: Long Map,  Number of Wavelengths: 102,  Tracks used per orbit: 0.01 to 0.1,  Bits To Ground used per orbit: 0.01 to 0.5 Mbits.</p> <p>Cone: 48 degrees.</p>			
Long Map (LM), Gain 4, Grating Start 0, LPU, G1ILMDK245, G1ILMDK102			
Galileo Activity Plan Form		05/09/96 18:13:56	rev 6/95

NO DATA RETURNED



## G1INCHEMIS04

DESIGN G1.0 brad : 6/12/1996 8:13:22

FILE:P.G1INCHEMIS04

TARGET BODY : IO

MINI:m.G1INCHEMIS04

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS:

START:IEE 96-180/18:27:09.533 -CDS 82:00:0

OBSERVATION:G1INCHEMIS04

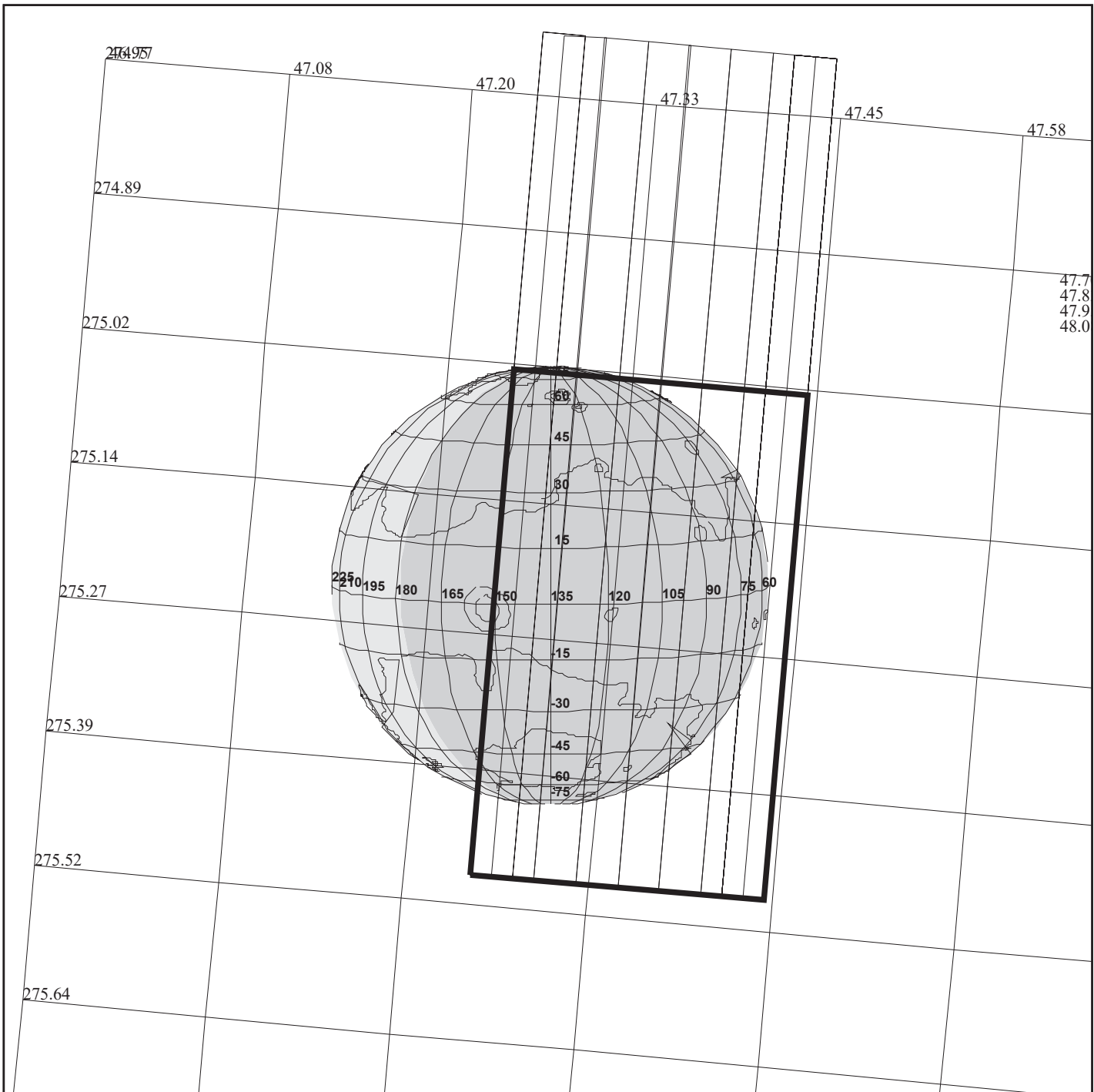
165EQ:TT= 0 TMC= 1 C= -3.00 XC= 0.00 BS= 0/7552 TC= 9  
A= 728 pD= 0 SR=17.430 RA50= 53.19 DEC50= 16.16 cone= 47.02 clock=275.23  
117EQ:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/7552  
1:#s= 1 Cs= 3.50 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 374 rD= 12

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.400

DESCRIP:MONITORING OF IOs DAYSIDE

MONITORING OF IO'S DAYSIDE		ACTIVITY ID: G1INCHEMIS04-	
		START TIME: 96-180/17:00:12.200	
Activity ID: Orbit G1 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	G1A
		Calendar Date	06/28/96
		Week	26
Start	IEE-CDS 86:00:0	96-180/17:00:12.200	IEE-000/01:26:57.333
End	IEE-CDS 74:58:0	96-180/17:11:41.533	IEE-000/01:15:28.000
Duration	11:33:0	000/00:11:29.333	000/00:11:29.333
Top Label	G1INCHEMIS04-		
Bottom Label			
Plot Key	NIMS	Type	SCI
CDS Bytes	171	Report Options	BOTH
CDS Source	OAP	Spin State	DUAL
		Scan Platform	Yes
		DMS	Yes
Observation Objective			
<p>Dayside monitoring covering wide range of longitudes to look for chemical changes (e.g. SO2 distribution) at resolutions better than ~800 km/nimsel (most observations will have resolutions between 120 and 400 km/nimsel).</p>			
<p>Data Garbled, No Data Returned</p>			
Design Detail			
<p>Partial or full disk mosaics within C/A + or - 32 hours in all orbits. High priority orbits are G2, C3, E4, E6 and E10 where resolution for lit disk is best.  Long map, 228 wavelengths.  Tracks used per orbit: 0.05 to 0.42.  Bits To Ground per orbit: 0.3 to 2.2 Mbits.</p> <p>Cone: 47 degrees.</p>			
<p>Long Map (LM), Gain 2, Grating Start 0, LPU, G1ILM245, G1ILM228</p>			
Galileo Activity Plan Form		05/09/96 18:13:56	rev 6/95



165DH:TT= 0 TMC= 1 C= -0.40 XC= -1.50 BS= 0/9736 TC= 9  
 A= 728 pD= 0 SR=17.430 RA50= 52.92 DEC50= 16.17 cone= 47.26 clock=275.10  
 117DH:#SB= 1 OR= 0.750 RR=12.000 BM=F RC= 1 BS= 0/9736  
 1:#s= 1 Cs= 3.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 24 rD= 2

## G1INIOMON\_05

DESIGN G1.0 brad : 6/12/1996 8:24:20

FILE:P.G1INIOMON\_05

TARGET BODY : IO

MINI:m.G1INIOMON\_05

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS:

START:IEE 96-180/18:27:09.533 -CDS 70:00:0

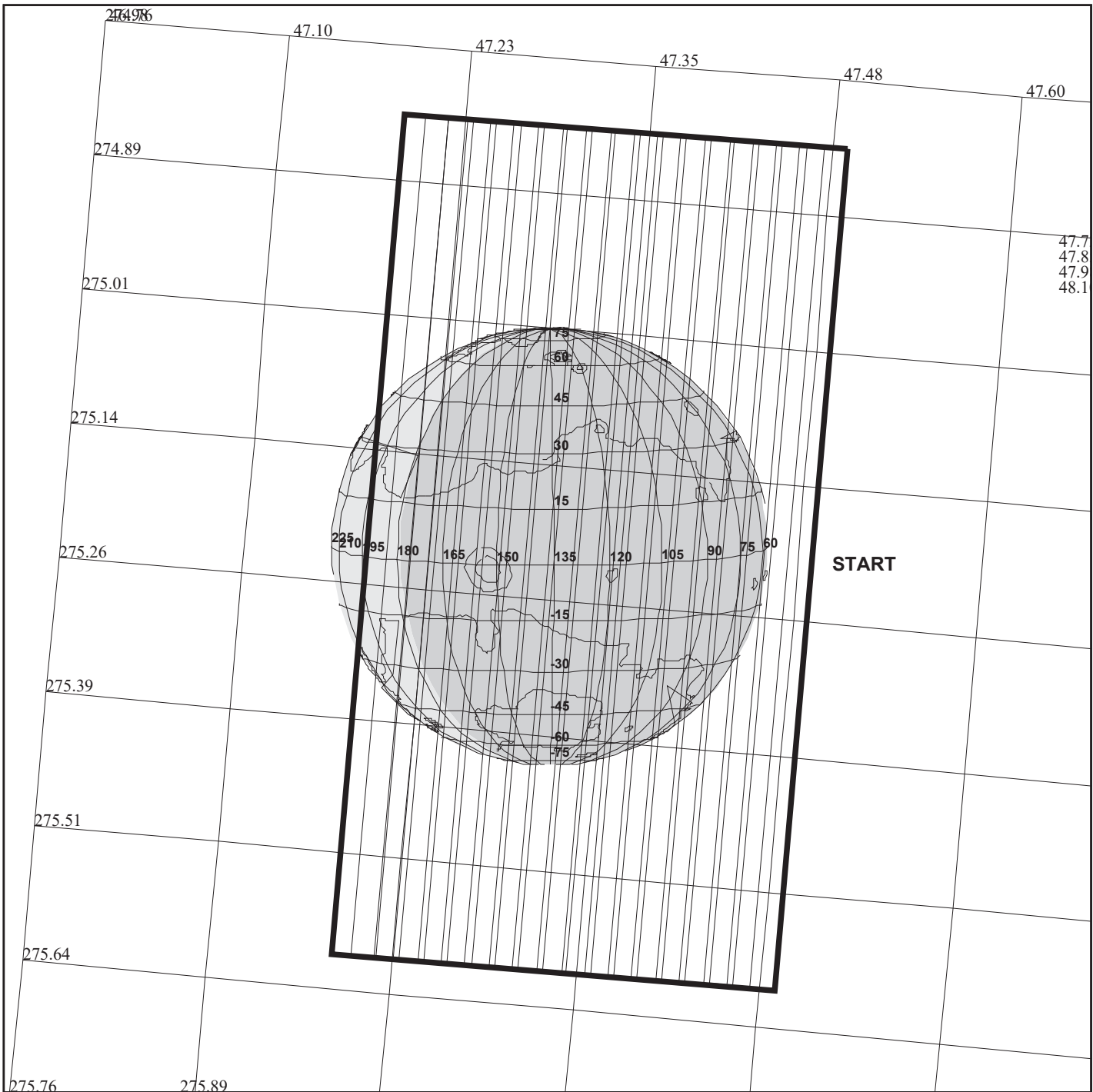
OBSERVATION:G1INIOMON\_05

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.400

DESCRIP:MONITORING OF IOs NIGHTSIDE

Io Monitoring in Real Time		ACTIVITY ID: G1INIOMON_05-	
		START TIME: 96-180/17:12:20.200	
Activity ID: Orbit G1 Target I Inst N OAPEL IOMON_ SeqNo 05 -			
Title	Io Monitoring in Real Time		Instrument
Requestor	NIMS-SWG/R.	Team	NIMS Working Group
			NIMS SWG
Time System	CDS	Load ID	G1A
		Calendar Date	06/28/96
		Week	26
Start	IEE-CDS 74:00:0		96-180/17:12:20.200
End	IEE-CDS 69:79:0		96-180/17:16:30.867
Duration	4:12:0		000/00:04:10.667
			IEE-000/01:14:49.333
			IEE-000/01:10:38.666
			000/00:04:10.667
Top Label	G1INIOMON_05-		
Bottom Label			
Plot Key	NIMS	Type	SCI
CDS Bytes	184	Report Options	BOTH
CDS Source	OAP	Spin State	DUAL
		Scan Platform	DMS
			Yes
			No
Observation Objective			
Real Time observation of Io's nightside to map hot spots and look for thermal changes on the surface.			
Data UnGarbled, Data Returned			
Design Detail			
Observation duration: 12 minor frames. These 12 minor frames must be the first 12 of a rim. NIMS mirror scans cut from 20 to 12. Fixed map, 8 wavelengths. MBTG = 0.017 R/T = 3.5% MUB Total 23 fields of view, use Nyquist rate, global mosaic. 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.			
Cone: 47 degrees.			
Fixed Map (XM), Gain 2, Grating Start 21, R/T, G1IXM8RT			
Galileo Activity Plan Form		05/09/96 18:13:56	rev 6/95



**G1INNSPEC\_01**

165ER:TT= 0 TMC= 1 C= 3.00 XC= 0.00 BS= 0/0282 TC= 9  
 A= 364 pD= 0 SR=17.430 RA50= 52.73 DEC50= 16.02 cone= 47.48 clock=275.21  
 117ER:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/0282  
 1:#s= 1 Cs= -4.50 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 478 rD= 2

DESIGN G1.0 brad : 6/12/1996 8:25:16

FILE:P.G1INNSPEC\_01

TARGET BODY : IO

MINI:m.G1INNSPEC\_01

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS:

THINNING:NIM 1

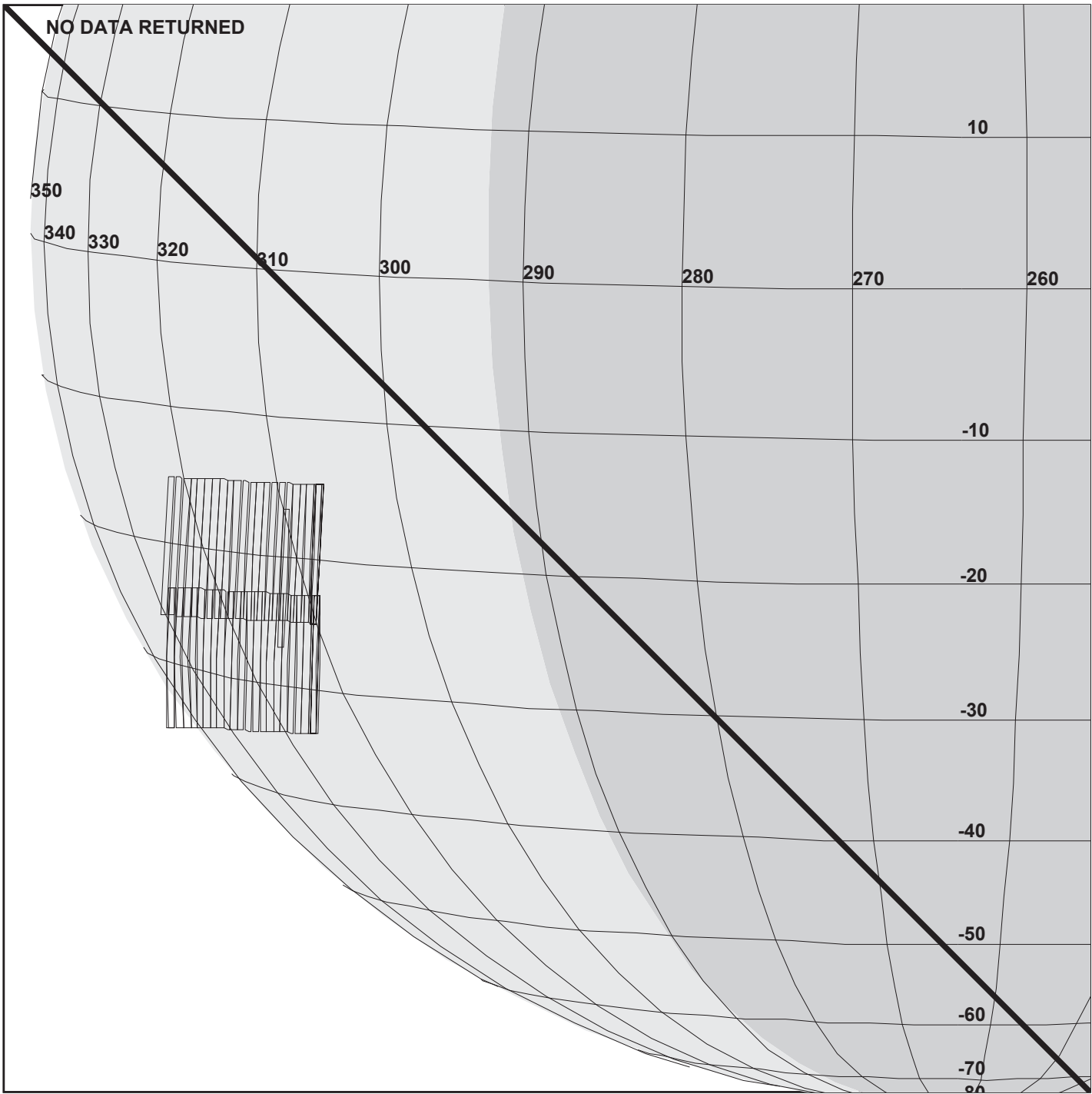
START:IEE 96-180/18:27:09.533 -CDS 67:00:0

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.400

OBSERVATION:G1INNSPEC\_01

DESCRIP:NIGHTSIDE SPECTRA AT HIGH RES

NIGHTSIDE SPECTRA AT HIGH RESOLUTION		ACTIVITY ID:	G1INNSPEC_01-		
		START TIME:	96-180/17:17:23.533		
Activity ID: Orbit G1 Target I Inst N OAPEL NSPEC_ SeqNo 01 -					
Title	NIGHTSIDE SPECTRA AT HIGH RESOLUTION		Instrument		NIMS
Requestor	NIMS-SWG/R. LOPES		Team	NIMS Working Group	SWG
Time System	CDS	Load ID	G1A	Calendar Date	06/28/96 Week 26
Start	IEE-CDS 69:00:0		96-180/17:17:23.533	IEE-000/01:09:46.000	
End	IEE-CDS 64:40:0		96-180/17:22:00.200	IEE-000/01:05:09.333	
Duration	4:51:0		000/00:04:36.667	000/00:04:36.667	
Top Label	G1INNSPEC_01-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	175	Report Options	BOTH		
CDS Source	OAP	Spin State	DUAL	Scan Platform	Yes
				DMS	Yes
Observation Objective					
<p>Nightside spectra at high specral resolution (Long Map, 408 wavelengths) and relatively high spatial resolution (315 km/nimsel) to look for both known and yet unknown spectral features. This observation needs to be done only once during the mission, but it is important that it is done early so that data can be used to refine wavelength choice in subsequent observations.</p>					
Data UnGarbled, Data Returned					
Design Detail					
<p>Nearly full disk mosaic including limb, Long Map, 408 wavelengths. G1 is the only orbit at the beginning of the tour where a significant portion of Io's disk at C/A is in the nightside.</p> <p>Tracks used: 0.007,  Resolution: 315 km/nimsel,  Phase angle: 132 d.,  Cone angle: 47 d.</p> <p>The G1 tape model requires an extra 10 Rims 39 mf tape slew after the CSMOS ends.</p>					
Long Map (LM), Gain 4, Grating Start 0, MPW, G1ILM442, G1ILM408					
Galileo Activity Plan Form			05/09/96	18:13:56	rev 6/95



165EW:TT= 0 TMC=1 C= -5.00 XC= -3.00 BS= 0/0656 TC= 1(-23 318 )  
 A= 728 pD= 0 SR=17.430 RA50= 41.92 DEC50= 13.46 cone= 58.18 clock=273.65  
 117EW:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/0656  
 1:#s= 2 Cs= 10.40 XCs= 0.00 Cr= -10.70 XCr= 8.00 sD= 330 rD= 36

**G1JNGRS12301**

TARGET G1.0 brad : 4/30/1996 16: 4:13

FILE:P.G1JNGRS12301

CENTRAL BODY:JUPITER

MINI:m.target.enc

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS:

START:JEE 96-180/00:31:20.266 +CDS 1054:00:0

OBSERVATION:G1JNGRS12301

THINNING:NIM 2

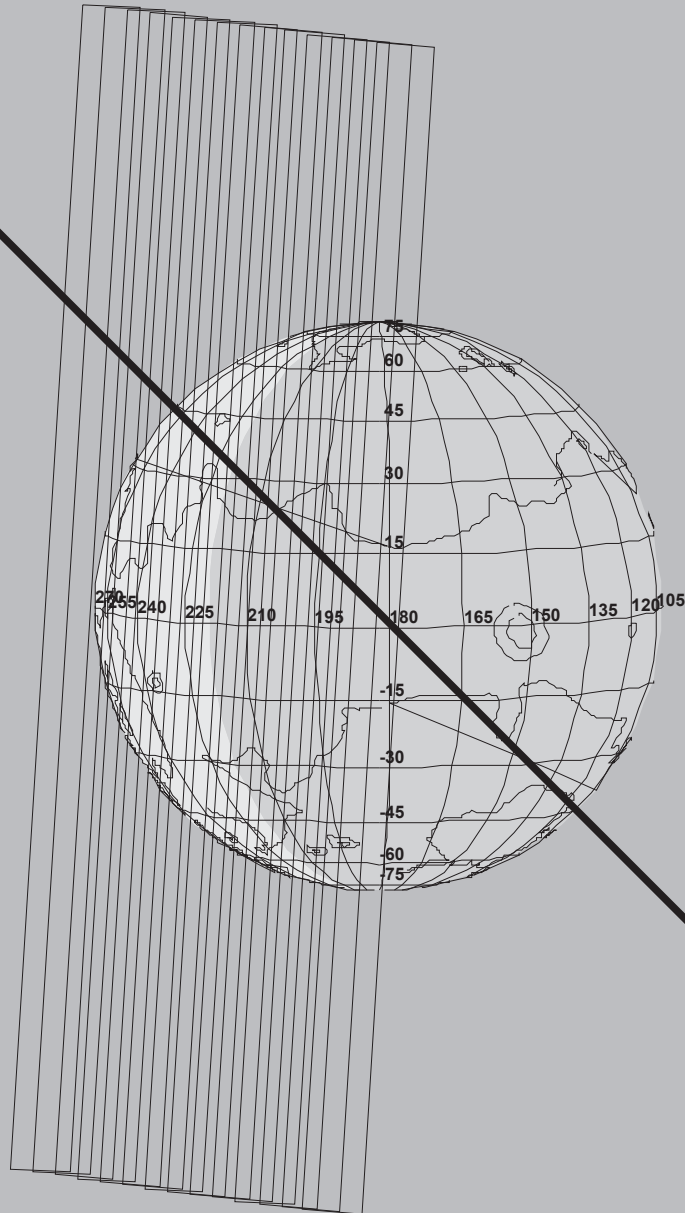
BODY PLOT TIME:END-TIME D= 0 S= 1.700

DESCRIP:GRS PHASE 91 #1



GRS 123 Phase #1		ACTIVITY ID: G1JNGRS12301-	
		START TIME: 96-180/18:13:00.266	
Activity ID: Orbit G1 Target J Inst N OAPEL GRS123 SeqNo 01 -			
Title	GRS 123 Phase #1	Instrument	
Requestor	NIMS-AWG/K. BAINES	Team NIMS	NIMS Working Group AWG
Time System	CDS	Load ID	G1A
		Calendar Date	06/28/96
		Week	26
Start	JEE+CDS 1050:00:0	96-180/18:13:00.266	JEE+000/17:41:40.000
End	JEE+CDS 1057:86:0	96-180/18:21:02.266	JEE+000/17:49:42.000
Duration	7:86:0	000/00:08:02.000	000/00:08:02.000
Top Label	G1JNGRS12301-		
Bottom Label			
Plot Key	NIMS	Type	SCI
CDS Bytes	187	Report Options	BOTH
CDS Source	OAP	Spin State	DUAL
		Scan Platform	Yes
		DMS	Yes
Observation Objective			
123 degrees phase observation of GRS near bright limb. Only observation obtained during this rotation. 15 wavelengths acquired using wavelength table JFT15A.			
Data Garbled, No Data Returned			
Design Detail			
2*1 (~18 mrad E/W) shortmap of Great Red Spot. 4 minutes reserved for targetting. Nyquist sampling E/W. 2 mrad overlap between the two tiers. GRS assumed located at 321 degrees longitude (System III), 23 degrees S. latitude. Record duration: 244 seconds, accumulating 0.1774 MBTG in 15 colors using 0.0082 tracks.			
Cone: 58 degrees.			
Short Map (SM), Gain 2, Grating Start 1, LPU, G1JFT15A, G1JFT15A			
Galileo Activity Plan Form		05/09/96 18:13:56	rev 6/95

NO DATA RETURNED



DARK JUPITER FILLS BACKGROUND

## G1INCHEMIS05

165ES:TT= 0 TMC= 1 C= -2.70 XC= 0.00 BS= 0/1424 TC= 9  
A= 394 pD= 0 SR=17.430 RA50= 46.59 DEC50= 15.08 cone= 53.37 clock=273.75  
117ES:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/1424  
1:#s= 1 Cs= 3.50 XC= 0.00 Cr= 0.00 XCr= 0.00 sD= 374 rD= 12

DESIGN G1.0 brad : 6/12/1996 8:13:57

FILE:P.G1INCHEMIS05

TARGET BODY : IO

MINI:m.G1INCHEMIS05

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS:

START:IEE 96-180/18:27:09.533 +CDS 214:00:0

OBSERVATION:G1INCHEMIS05

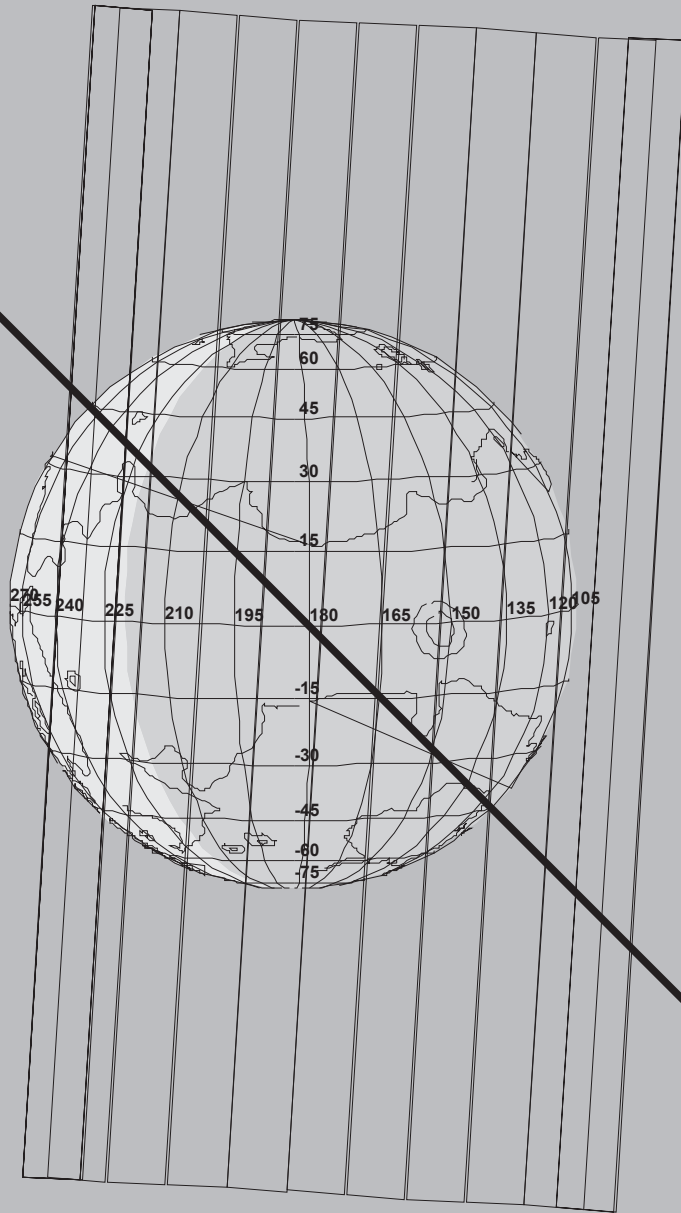
THINNING:NIM 1

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.400

DESCRIP:MONITORING OF IOs DAYSIDE

MONITORING OF IO'S DAYSIDE		ACTIVITY ID: G1INCHEMIS05-	
		START TIME: 96-180/22:00:30.199	
Activity ID: Orbit G1 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	G1A
		Calendar Date	06/28/96
		Week	26
Start	IEE+CDS 211:00:0	96-180/22:00:30.199	IEE+000/03:33:20.666
End	IEE+CDS 216:19:0	96-180/22:05:46.199	IEE+000/03:38:36.666
Duration	5:19:0	000/00:05:16.000	000/00:05:16.000
Top Label	G1INCHEMIS05-		
Bottom Label			
Plot Key	NIMS	Type	SCI
CDS Bytes	178	Report Options	BOTH
CDS Source	OAP	Spin State	DUAL
		Scan Platform	Yes
		DMS	Yes
Observation Objective			
<p>Dayside monitoring covering wide range of longitudes to look for chemical changes (e.g. SO2 distribution) at resolutions better than ~800 km/nimsel (most observations will have resolutions between 120 and 400 km/nimsel).</p>			
<p>Processor Halted, No Data Returned</p>			
Design Detail			
<p>Partial or full disk mosaics within C/A + or - 32 hours in all orbits. High priority orbits are G2, C3, E4, E6 and E10 where resolution for lit disk is best.</p> <p>Long map, 102 wavelengths.</p> <p>Tracks used per orbit: 0.05 to 0.42.</p> <p>Bits To Ground per orbit: 0.3 to 2.2 Mbits.</p> <p>Cone: 53 degrees.</p> <p>Dark Jupiter visible behind Io.</p>			
<p>Long Map (LM), Gain 2, Grating Start 0, LPU, G1ILM245, G1ILM102</p>			
Galileo Activity Plan Form		05/09/96 18:13:56	rev 6/95

NO DATA RETURNED



DARK JUPITER FILLS BACKGROUND

165ET:TT= 0 TMC= 1 C= 2.80 XC= 0.00 BS= 0/2334 TC= 9  
A= 364 pD= 0 SR=17.430 RA50= 46.15 DEC50= 14.96 cone= 53.81 clock=273.72  
117ET:#SB= 1 OR= 0.750 RR=12.000 BM=F RC= 1 BS= 0/2334  
1:#s= 1 Cs= -4.50 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 28 rD= 2

## G1INTHRMAL04

DESIGN G1.0 brad : 6/12/1996 8:28:37

FILE:P.G1INTHRMAL04

TARGET BODY : IO

MINI:m.G1INTHRMAL04

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS:

START:IEE 96-180/18:27:09.533 +CDS 219:00:0

OBSERVATION:G1INTHRMAL04

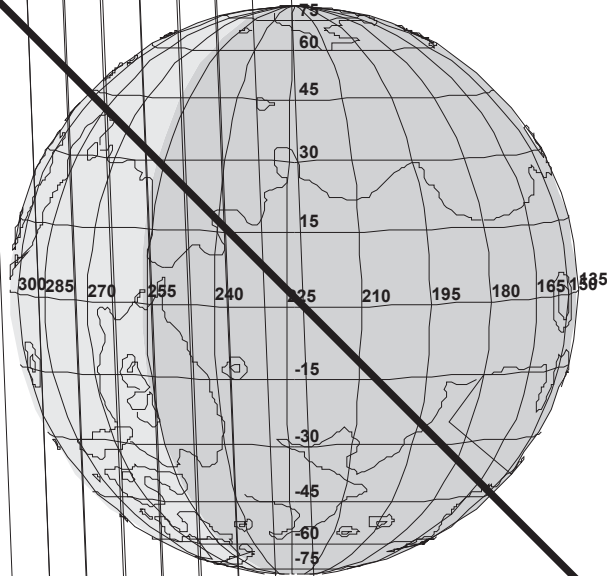
THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.400

DESCRIP:MONITORING OF IOs NIGHTSIDE

MONITORING OF IO'S NIGHTSIDE		ACTIVITY ID: G1INTHERMAL04-	
		START TIME: 96-180/22:06:34.199	
Activity ID: Orbit G1 Target I Inst N OAPEL THRMAL SeqNo 04 -			
Title	MONITORING OF IO'S NIGHTSIDE	Instrument NIMS	
Requestor	NIMS-SWG/R. LOPES	Team NIMS	Working Group SWG
Time System	CDS	Load ID G1A	Calendar Date 06/28/96 Week 26
Start	IEE+CDS 217:00:0	96-180/22:06:34.199	IEE+000/03:39:24.666
End	IEE+CDS 222:05:0	96-180/22:11:40.866	IEE+000/03:44:31.333
Duration	5:05:0	000/00:05:06.667	000/00:05:06.667
Top Label	G1INTHERMAL04-		
Bottom Label			
Plot Key	NIMS	Type	SCI
CDS Bytes	178	Report Options	BOTH
CDS Source	OAP	Spin State	DUAL
		Scan Platform	Yes
		DMS	Yes
Observation Objective			
<p>Thermal monitoring of Io's nightside covering as wide a range of longitudes as possible with resolutions better than ~800 km/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.</p>			
Processor Halted, No Data Returned			
Design Detail			
<p>Partial or full disk mosaics within C/A + or - 32 hours in all orbits. High priority orbits are G1, C3, and C10 because these have the highest longitudinal coverage and orbits G7 and G8 because these have the best nighttime resolution for LOKI.</p> <p>Instrument mode: Fixed Map,  Number of Wavelengths: 10,  Tracks used per orbit: 0.01 to 0.1,  Bits To Ground used per orbit: 0.01 to 0.5 Mbits.</p> <p>Cone: 53 degrees.</p> <p>Dark Jupiter visible behind Io.</p>			
Fixed Map (XM), Gain 2, Grating Start 21, LPU, G1IXM10, G1IXM10			
Galileo Activity Plan Form		05/09/96 18:13:56	rev 6/95

NO DATA RETURNED



## G1INCHEMIS06

DESIGN G1.0 brad : 6/12/1996 8:20: 3

FILE:P.G1INCHEMIS06

TARGET BODY : IO

MINI:m.G1INCHEMIS06

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS:

START:IEE 96-180/18:27:09.533 +CDS 475:00:0

OBSERVATION:G1INCHEMIS06

165EU:TT= 0 TMC= 1 C= -2.10 XC= 0.00 BS= 0/8926 TC= 9  
A= 382 pD= 0 SR=17.430 RA50= 42.04 DEC50= 15.03 cone= 90.65 clock=278.49  
117EU:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/8926  
1:#s= 1 Cs= 2.00 XCs= 0.00 Cr= 0.00 XCcr= 0.00 sD= 216 rD= 12

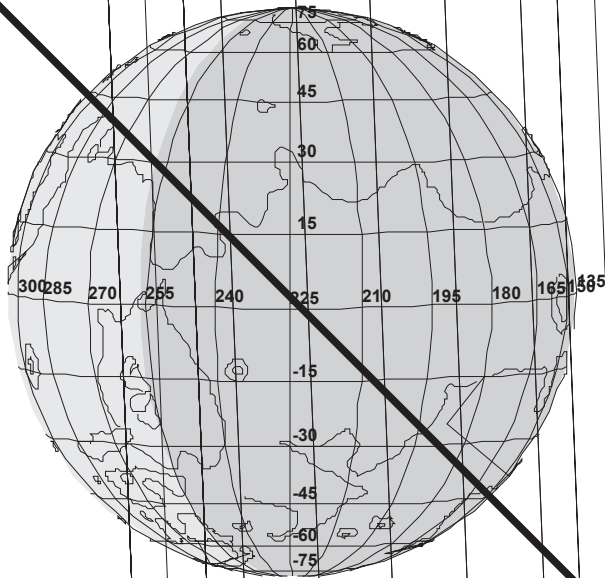
THINNING:NIM 1

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.400

DESCRIP:MONITORING OF IOs DAYSIDE

MONITORING OF IO'S DAYSIDE		ACTIVITY ID: G1INCHEMIS06-	
		START TIME: 96-181/02:24:24.199	
Activity ID: Orbit G1 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	G1A
		Calendar Date	06/29/96
		Week	26
Start	IEE+CDS 472:00:0	96-181/02:24:24.199	IEE+000/07:57:14.666
End	IEE+CDS 476:28:0	96-181/02:28:45.533	IEE+000/08:01:36.000
Duration	4:28:0	000/00:04:21.334	000/00:04:21.334
Top Label	G1INCHEMIS06-		
Bottom Label			
Plot Key	NIMS	Type	SCI
CDS Bytes	178	Report Options	BOTH
CDS Source	OAP	Spin State	DUAL
		Scan Platform	Yes
		DMS	Yes
Observation Objective			
<p>Dayside monitoring covering wide range of longitudes to look for chemical changes (e.g. SO2 distribution) at resolutions better than ~800 km/nimsel (most observations will have resolutions between 120 and 400 km/nimsel).</p>			
<p>Processor Halted, No Data Returned</p>			
Design Detail			
<p>Partial or full disk mosaics within C/A + or - 32 hours in all orbits. High priority orbits are G2, C3, E4, E6 and E10 where resolution for lit disk is best.  Long map, 102 wavelengths.  Tracks used per orbit: 0.05 to 0.42.  Bits To Ground per orbit: 0.3 to 2.2 Mbits.</p> <p>Cone: 90 degrees.</p>			
<p>Long Map (LM), Gain 2, Grating Start 0, LPU, G1ILM245, G1ILM102</p>			
Galileo Activity Plan Form		05/09/96 18:13:56	rev 6/95

NO DATA RETURNED



165EV:TT= 0 TMC= 1 C= 2.10 XC= 0.00 BS= 0/9836 TC= 9  
A= 364 pD= 0 SR=17.430 RA50= 41.78 DEC50= 14.99 cone= 90.91 clock=278.46  
117EV:#SB= 1 OR= 0.750 RR=12.000 BM=F RC= 1 BS= 0/9836  
1:#s= 1 Cs= -3.00 XCs= 0.00 Cr= 0.00 XCcr= 0.00 sD= 24 rD= 2

## G1INTHRMAL05

DESIGN G1.0 brad : 6/12/1996 8:35:57

FILE:P.G1INTHRMAL05

TARGET BODY : IO

MINI:m.G1INTHRMAL05

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS:

START:IEE 96-180/18:27:09.533 +CDS 480:00:0

OBSERVATION:G1INTHRMAL05

THINNING:NIM 2

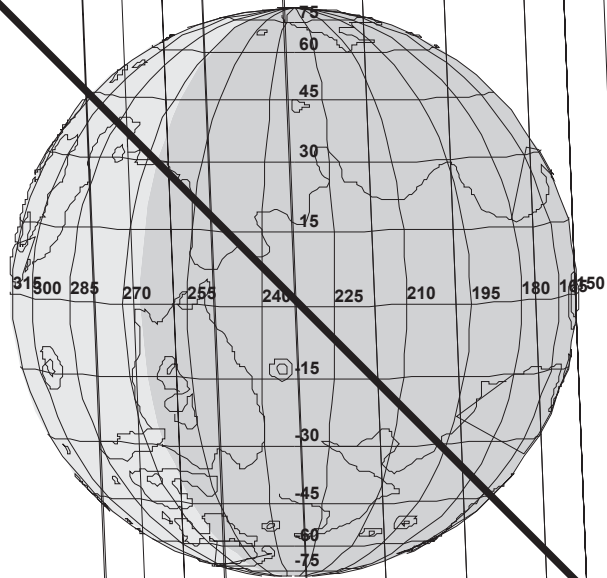
BODY PLOT TIME:TARGET-TIME D= 0 S= 0.400

DESCRIP:MONITORING OF IOs NIGHTSIDE



MONITORING OF IO'S NIGHTSIDE		ACTIVITY ID: G1INTHERMAL05-	
		START TIME: 96-181/02:29:27.533	
Activity ID: Orbit G1 Target I Inst N OAPEL THRMAL SeqNo 05 -			
Title	MONITORING OF IO'S NIGHTSIDE	Instrument	
Requestor	NIMS-SWG/R. LOPES	Team	NIMS Working Group
			NIMS SWG
Time System	CDS	Load ID	G1A
		Calendar Date	06/29/96
		Week	26
Start	IEE+CDS 477:00:0	96-181/02:29:27.533	IEE+000/08:02:18.000
End	IEE+CDS 482:72:0	96-181/02:35:18.866	IEE+000/08:08:09.333
Duration	5:72:0	000/00:05:51.333	000/00:05:51.333
Top Label	G1INTHERMAL05-		
Bottom Label			
Plot Key	NIMS	Type	SCI
CDS Bytes	178	Report Options	BOTH
CDS Source	OAP	Spin State	DUAL
		Scan Platform	Yes
		DMS	Yes
Observation Objective			
<p>Thermal monitoring of Io's nightside covering as wide a range of longitudes as possible with resolutions better than ~800 km/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.</p>			
<p>Processor Halted, No Data Returned</p>			
Design Detail			
<p>Partial or full disk mosaics within C/A + or - 32 hours in all orbits. High priority orbits are G1, C3, and C10 because these have the highest longitudinal coverage and orbits G7 and G8 because these have the best nighttime resolution for LOKI.</p> <p>Instrument mode: Fixed Map,  Number of Wavelengths: 10,  Tracks used per orbit: 0.01 to 0.1,  Bits To Ground used per orbit: 0.01 to 0.5 Mbits.</p> <p>Cone 90 degrees.</p>			
<p>Fixed Map (XM), Gain 2, Grating Start 21, LPU, G1IXM10, G1IXM10</p>			
Galileo Activity Plan Form		05/09/96 18:13:57	rev 6/95

NO DATA RETURNED



165FU:TT= 0 TMC= 1 C= -1.00 XC= 0.00 BS= 0/1120 TC= 9  
A= 728 pD= 0 SR=17.430 RA50= 41.96 DEC50= 15.33 cone= 90.65 clock=278.17  
117FU:#SB= 1 OR= 0.750 RR=12.000 BM=F RC= 1 BS= 0/1120  
1:#s= 1 Cs= 3.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 24 rD= 2

## G1INRCECLI01

DESIGN G1.0 brad : 6/12/1996 8:25:46

FILE:P.G1INRCECLI01

TARGET BODY : IO

MINI:m.G1INRCECLI01

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS:

START:IEE 96-180/18:27:09.533 +CDS 542:00:0

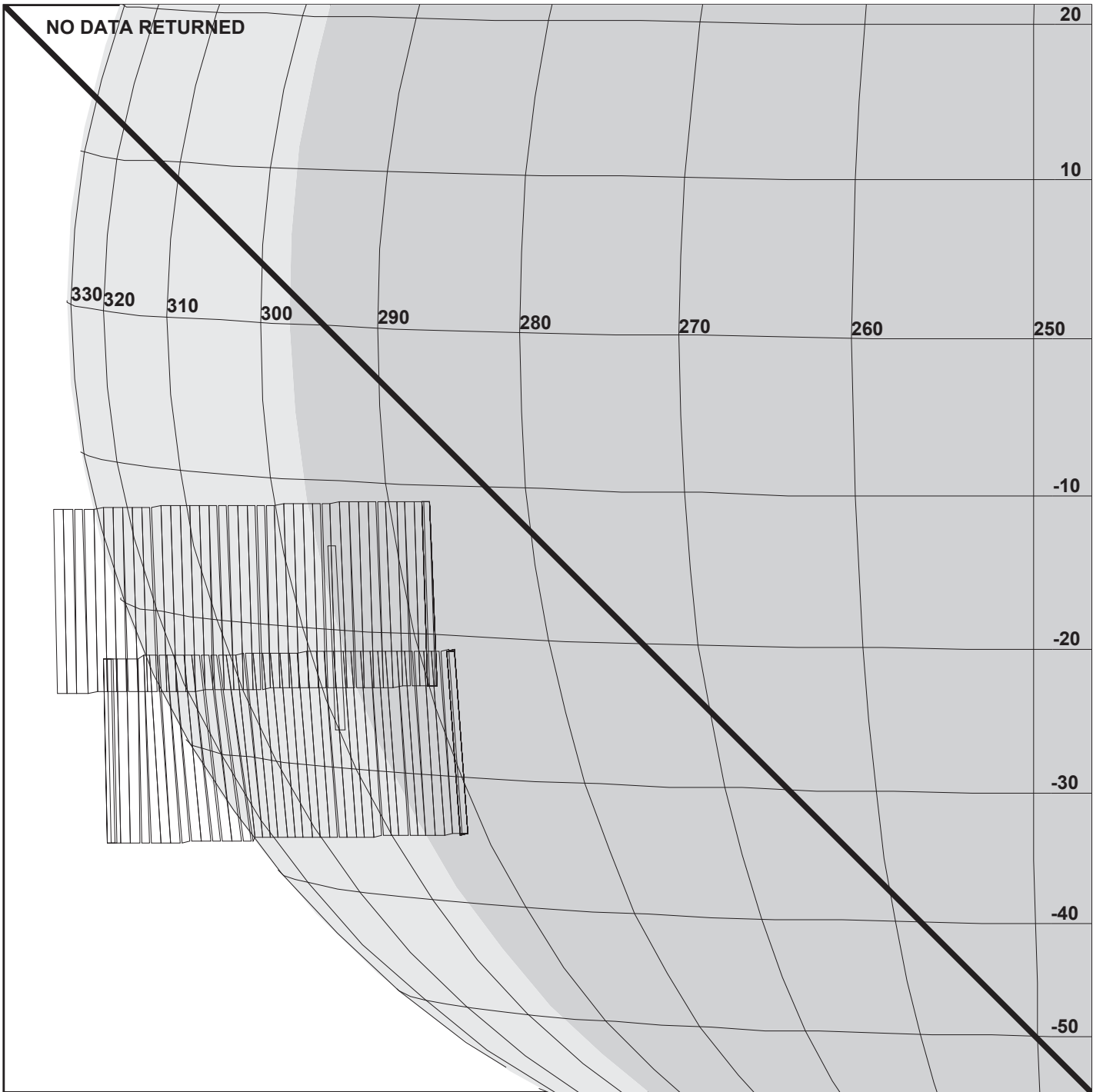
OBSERVATION:G1INRCECLI01

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.400

DESCRIP:MONITORING OF IOs NIGHTSIDE

Io Eclipse Recorded observation		ACTIVITY ID:	G1INRCECLI01-		
		START TIME:	96-181/03:31:08.199		
Activity ID: Orbit G1 Target I Inst N OAPEL RCECLI SeqNo 01 -					
Title	Io Eclipse Recorded observation		Instrument		NIMS
Requestor	NIMS-SWG/R.		Team	NIMS Working Group	SWG
Time System	CDS	Load ID	G1A	Calendar Date	06/29/96 Week 26
Start	IEE+CDS 538:00:0		96-181/03:31:08.199	IEE+000/09:03:58.666	
End	IEE+CDS 543:00:0		96-181/03:36:11.533	IEE+000/09:09:02.000	
Duration	5:00:0		000/00:05:03.334	000/00:05:03.334	
Top Label	G1INRCECLI01				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	147	Report Options	BOTH		
CDS Source	OAP	Spin State	DUAL	Scan Platform	Yes
				DMS	No
Observation Objective					
Observation of Io in eclipse in collaboration with SSI to map hot spots on the surface.					
Processor Halted, No Data Returned					
Design Detail					
Just before SSI observation. Fixed map, 10 wavelengths.					
Cone: 90 degrees.					
Fixed Map (XM), Gain 2, Grating Start 21, LPU, G1IXM10, G1IXM10					
Galileo Activity Plan Form			05/09/96	18:13:57	rev 6/95



165EX:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/9310 TC= 2(71.72 277.8 )  
 A= 364 pD= 0 SR=17.430 RA50= 61.24 DEC50= 19.96 cone= 71.72 clock=277.80  
 117EX:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/9310  
 1:#s= 2 Cs= 20.00 XCs= 0.00 Cr= -19.00 XCr= 8.00 sD= 642 rD= 42

## G1JNGRS14101

DESIGN G1.0 clee : 5/23/1996 9:37:17

FILE:P.G1JNGRS14101

CENTRAL BODY:JUPITER III

MINI:m.G1JNGRS14101

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS:

START:JEE 96-180/00:31:20.266 +CDS 1651:00:0

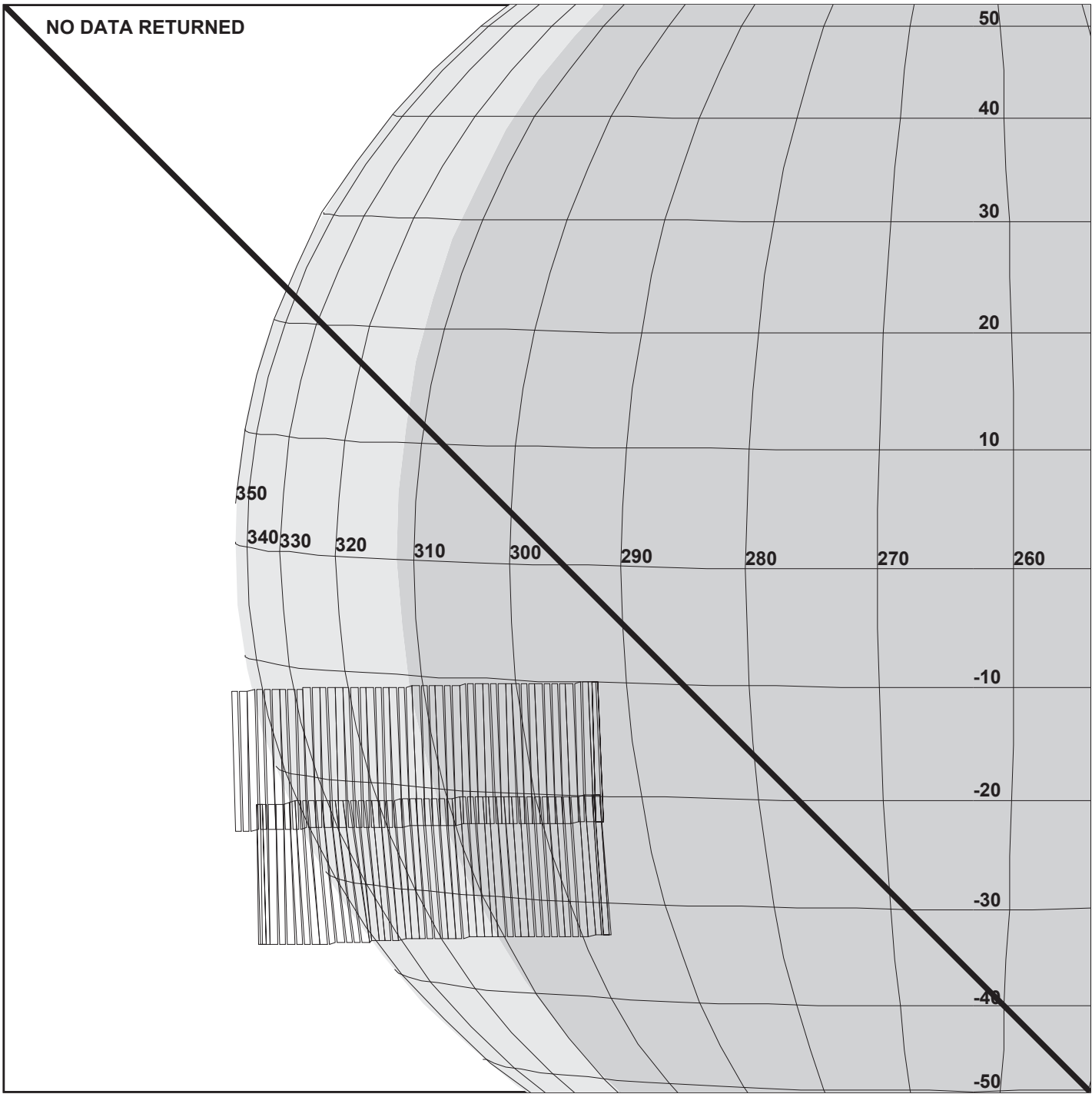
OBSERVATION:G1JNGRS14101

THINNING:NIM 2

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

DESCRIP:GRS PHASE 141 #1

GRS 141 Phase #1		ACTIVITY ID: G1JNGRS14101-	
		START TIME: 96-181/04:18:39.599	
Activity ID: Orbit G1 Target J Inst N OAPEL GRS141 SeqNo 01 -			
Title	GRS 141 Phase #1	Instrument	
Requestor	NIMS-AWG/K. BAINES	Team NIMS	NIMS Working Group AWG
Time System	CDS	Load ID	G1A
		Calendar Date	06/29/96
		Week	26
Start	JEE+CDS 1649:00:0	96-181/04:18:39.599	JEE+001/03:47:19.333
End	JEE+CDS 1658:82:0	96-181/04:28:40.266	JEE+001/03:57:20.000
Duration	9:82:0	000/00:10:00.667	000/00:10:00.667
Top Label	G1JNGRS14101-		
Bottom Label			
Plot Key	NIMS	Type	SCI
CDS Bytes	187	Report Options	BOTH
CDS Source	OAP	Spin State	DUAL
		Scan Platform	Yes
		DMS	Yes
Observation Objective			
141 degrees phase observation of GRS. Near morning limb. First of 2 observations acquired on this rotation. 15 wavelengths acquired using wavelength table JFT15A.			
Processor Halted, No Data Returned			
Design Detail			
Approximately 2*2 (~18 mrad N/S by ~20 mrad E/W) shortmap of Great Red Spot. 2 minutes reserved for targetting. Nyquist sampling E/W. 2 mrad overlap between the two tiers. GRS assumed located at 321 degrees longitude (System III), 23 degrees S. latitude. Record duration: 364 seconds, accumulating 0.265 MBTG in 15 colors using 0.0122 tracks.			
Cone: 72 degrees.			
Short Map (SM), Gain 2, Grating Start 1, LPU, G1JFT15A, G1JFT15A			
Galileo Activity Plan Form		05/09/96 18:13:57	rev 6/95



165EY:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/3678 TC= 2(71.15 277.7 )  
 A= 364 pD= 0 SR=17.430 RA50= 61.82 DEC50= 20.15 cone= 71.15 clock=277.70  
 117EY:#SB= 1 OR= 0.110 RR=12.000 BM=F RC= 1 BS= 0/3678  
 1:#s= 2 Cs= 26.00 XCs= 0.00 Cr= -26.00 XCr= 8.00 sD= 690 rD= 36

## G1JNGRS14102

DESIGN G1.0 clee : 5/23/1996 9:42:53

FILE:P.G1JNGRS14102

CENTRAL BODY:JUPITER III

MINI:m.G1JNGRS14102

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS:

START:JEE 96-180/00:31:20.266 +CDS 1675:00:0

OBSERVATION:G1JNGRS14102

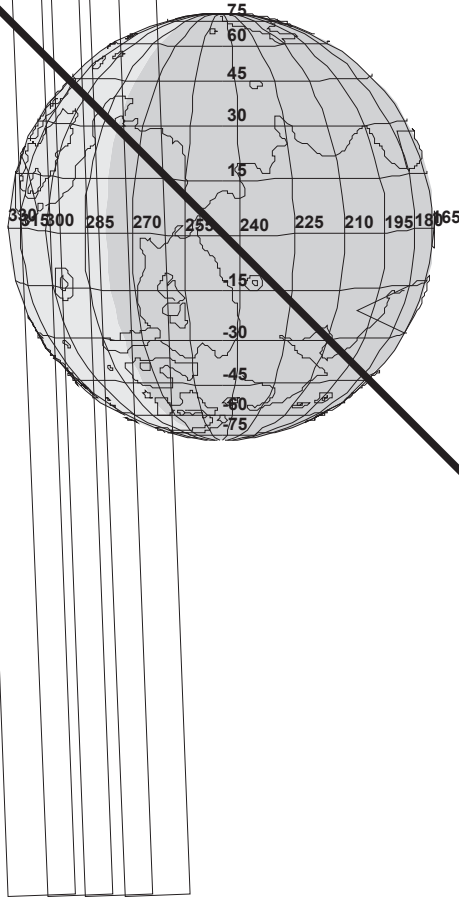
THINNING:NIM 2

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

DESCRIP:GRS PHASE 141 #2

GRS 141 Phase #2		ACTIVITY ID: G1JNGRS14102-	
		START TIME: 96-181/04:42:55.599	
Activity ID: Orbit G1 Target J Inst N OAPEL GRS141 SeqNo 02 -			
Title	GRS 141 Phase #2	Instrument	
Requestor	NIMS-AWG/K. BAINES	Team NIMS	NIMS Working Group
			AWG
Time System	CDS	Load ID	G1A
		Calendar Date	06/29/96
		Week	26
Start	JEE+CDS 1673:00:0	96-181/04:42:55.599	JEE+001/04:11:35.333
End	JEE+CDS 1682:82:0	96-181/04:52:56.266	JEE+001/04:21:36.000
Duration	9:82:0	000/00:10:00.667	000/00:10:00.667
Top Label	G1JNGRS14102-		
Bottom Label			
Plot Key	NIMS	Type	SCI
CDS Bytes	156	Report Options	BOTH
CDS Source	OAP	Spin State	DUAL
		Scan Platform	Yes
		DMS	Yes
Observation Objective			
141 degrees phase observation of GRS near terminator. Second of two GRS observations acquired on this rotation. 15 wavelengths acquired using wavelength table JFT15A.			
Processor Halted, No Data Returned			
Design Detail			
Approximately 2*2 (~18 mrad N/S by ~30 mrad E/W) shortmap of Great Red Spot. 2 minutes reserved for targetting. Nyquist sampling E/W. 2 mrad overlap between the two tiers. GRS assumed located at 321 degrees longitude (System III), 23 degrees S. latitude. Record duration: 364 seconds, accumulating 0.265 MBTG in 15 colors using 0.0122 tracks.			
Cone: 72 degrees.			
Short Map (SM), Gain 2, Grating Start 1, LPU, G1JFT15A, G1JFT15A			
Galileo Activity Plan Form		05/09/96 18:13:57	rev 6/95

NO DATA RETURNED



## G1INCHEMIS08

DESIGN G1.0 brad : 6/12/1996 8:21:17

FILE:P.G1INCHEMIS08

TARGET BODY : IO

MINI:m.G1INCHEMIS08

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS:

START:IEE 96-180/18:27:09.533 +CDS 629:00:0

OBSERVATION:G1INCHEMIS08

165FM:TT= 0 TMC=1 C= -1.70 XC= 0.00 BS= 0/6954 TC= 9  
A= 424 pD= 0 SR=17.430 RA50= 42.66 DEC50= 15.94 cone= 89.83 clock=277.78  
117FM:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/6954  
1:#s= 1 Cs= 0.90 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 98 rD= 2

THINNING:NIM 1

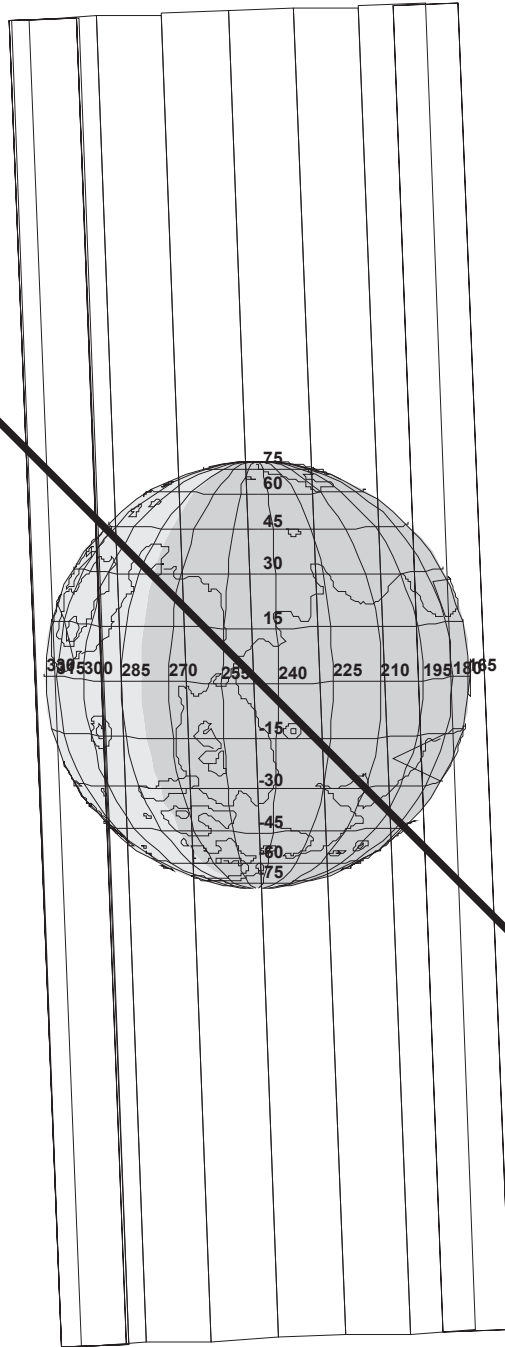
BODY PLOT TIME:TARGET-TIME D= 0 S= 0.300

DESCRIP:MONITORING OF IOs DAYSIDE



MONITORING OF IO'S DAYSIDE		ACTIVITY ID: G1INCHEMIS08-	
		START TIME: 96-181/05:00:06.866	
Activity ID: Orbit G1 Target I Inst N OAPEL CHEMIS SeqNo 08 -			
Title	MONITORING OF IO'S DAYSIDE	Instrument NIMS	
Requestor	NIMS-SWG/R. LOPES	Team NIMS	Working Group SWG
Time System	CDS	Load ID	G1A
		Calendar Date	06/29/96
		Week	26
Start	IEE+CDS 626:00:0	96-181/05:00:06.866	IEE+000/10:32:57.333
End	IEE+CDS 630:03:0	96-181/05:04:11.533	IEE+000/10:37:02.000
Duration	4:03:0	000/00:04:04.667	000/00:04:04.667
Top Label	G1INCHEMIS08-		
Bottom Label			
Plot Key	NIMS	Type	SCI
CDS Bytes	178	Report Options	BOTH
CDS Source	OAP	Spin State	DUAL
		Scan Platform	Yes
		DMS	Yes
Observation Objective			
<p>Dayside monitoring covering wide range of longitudes to look for chemical changes (e.g. SO2 distribution) at resolutions better than ~800 km/nimsel (most observations will have resolutions between 120 and 400 km/nimsel).</p>			
<p>Processor Halted, No Data Returned</p>			
Design Detail			
<p>Partial or full disk mosaics within C/A + or - 32 hours in all orbits. High priority orbits are G2, C3, E4, E6 and E10 where resolution for lit disk is best.</p> <p>Long map, 228 wavelengths.</p> <p>Tracks used per orbit: 0.05 to 0.42.</p> <p>Bits To Ground per orbit: 0.3 to 2.2 Mbits.</p> <p>Cone: 89 degrees.</p>			
<p>Long Map (LM), Gain 2, Grating Start 0, LPU, G1ILM245, G1ILM228</p>			
Galileo Activity Plan Form		05/09/96 18:13:57	rev 6/95

NO DATA RETURNED



165FN:TT= 0 TMC= 1 C= 1.45 XC= 0.00 BS=0/7682 TC=9  
A= 242 pD= 0 SR=17.430 RA50= 42.53 DEC50= 15.92 cone= 89.96 clock=277.76  
117FN:#SB= 1 OR= 0.750 RR=12.000 BM=F RC= 1 BS= 0/7682  
1:#s= 1 Cs= -2.90 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 22 rD= 12

## G1INTHRMAL07

DESIGN G1.0 brad : 6/12/1996 8:36:52

FILE:P.G1INTHRMAL07

TARGET BODY : IO

MINI:m.G1INTHRMAL07

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS:

START:IEE 96-180/18:27:09.533 +CDS 633:00:0

OBSERVATION:G1INTHRMAL07

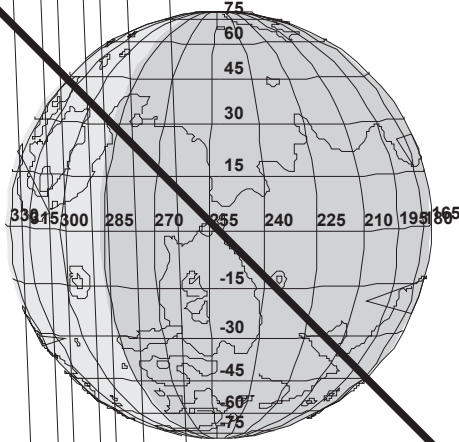
THINNING:NIM 2

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

DESCRIP:MONITORING OF IOs NIGHTSIDE

MONITORING OF IO'S NIGHTSIDE		ACTIVITY ID: G1INTHERMAL07-	
		START TIME: 96-181/05:05:10.199	
Activity ID: Orbit G1 Target I Inst N OAPEL THRMAL SeqNo 07 -			
Title	MONITORING OF IO'S NIGHTSIDE		Instrument
Requestor	NIMS-SWG/R. LOPES	Team	NIMS Working Group
			NIMS SWG
Time System	CDS	Load ID	G1A
		Calendar Date	06/29/96
		Week	26
Start	IEE+CDS 631:00:0	96-181/05:05:10.199	IEE+000/10:38:00.666
End	IEE+CDS 633:36:0	96-181/05:07:35.533	IEE+000/10:40:26.000
Duration	2:36:0	000/00:02:25.334	000/00:02:25.334
Top Label	G1INTHERMAL07-		
Bottom Label			
Plot Key	NIMS	Type	SCI
CDS Bytes	174	Report Options	BOTH
CDS Source	OAP	Spin State	DUAL
		Scan Platform	Yes
		DMS	Yes
Observation Objective			
<p>Thermal monitoring of Io's nightside covering as wide a range of longitudes as possible with resolutions better than ~800 km/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.</p>			
Processor Halted, No Data Returned			
Design Detail			
<p>Partial or full disk mosaics within C/A + or - 32 hours in all orbits. High priority orbits are G1, C3, and C10 because these have the highest longitudinal coverage and orbits G7 and G8 because these have the best nighttime resolution for LOKI.</p> <p>Instrument mode: Fixed Map,  Number of Wavelengths: 10,  Tracks used per orbit: 0.01 to 0.1,  Bits To Ground used per orbit: 0.01 to 0.5 Mbits.</p> <p>Cone: 89 degrees.</p>			
Fixed Map (XM), Gain 4, Grating Start 21, LPU, G1IXM10, G1IXM10			
Galileo Activity Plan Form		05/09/96 18:13:57	rev 6/95

NO DATA RETURNED



## G1INCHEMIS09

DESIGN G1.0 brad : 6/12/1996 8:23:28

FILE:P.G1INCHEMIS09

TARGET BODY : IO

MINI:m.G1INCHEMIS09

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS:

START:IEE 96-180/18:27:09.533 +CDS 688:00:0

OBSERVATION:G1INCHEMIS09

165FO:TT= 0 TMC= 1 C= -1.60 XC= 0.00 BS= 0/7692 TC= 9  
A= 424 pD= 0 SR=17.430 RA50= 43.51 DEC50= 16.43 cone= 88.92 clock=277.52  
117FO:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/7692  
1:#s= 1 Cs= 0.90 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 98 rD= 2

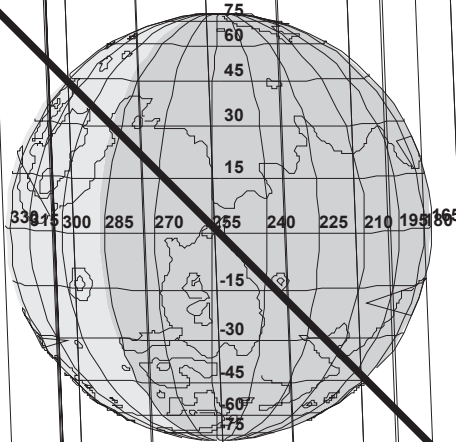
THINNING:NIM 1

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

DESCRIP:MONITORING OF IOs DAYSIDE

MONITORING OF IO'S DAYSIDE		ACTIVITY ID: G1INCHEMIS09-	
		START TIME: 96-181/05:59:46.199	
Activity ID: Orbit G1 Target I Inst N OAPEL CHEMIS SeqNo 09 -			
Title	MONITORING OF IO'S DAYSIDE	Instrument NIMS	
Requestor	NIMS-SWG/R. LOPES	Team NIMS	Working Group SWG
Time System	CDS	Load ID	G1A
		Calendar Date	06/29/96
		Week	26
Start	IEE+CDS 685:00:0	96-181/05:59:46.199	IEE+000/11:32:36.666
End	IEE+CDS 689:03:0	96-181/06:03:50.866	IEE+000/11:36:41.333
Duration	4:03:0	000/00:04:04.667	000/00:04:04.667
Top Label	G1INCHEMIS09-		
Bottom Label			
Plot Key	NIMS	Type	SCI
CDS Bytes	171	Report Options	BOTH
CDS Source	OAP	Spin State	DUAL
		Scan Platform	Yes
		DMS	Yes
Observation Objective			
<p>Dayside monitoring covering wide range of longitudes to look for chemical changes (e.g. SO2 distribution) at resolutions better than ~800 km/nimsel (most observations will have resolutions between 120 and 400 km/nimsel).</p>			
<p>Processor Halted, No Data Returned</p>			
Design Detail			
<p>Partial or full disk mosaics within C/A + or - 32 hours in all orbits. High priority orbits are G2, C3, E4, E6 and E10 where resolution for lit disk is best.</p> <p>Long map, 228 wavelengths.</p> <p>Tracks used per orbit: 0.05 to 0.42.</p> <p>Bits To Ground per orbit: 0.3 to 2.2 Mbits.</p> <p>Cone: 88 degrees.</p>			
<p>Long Map (LM), Gain 2, Grating Start 0, LPU, G1ILM245, G1ILM228</p>			
Galileo Activity Plan Form		05/09/96 18:13:57	rev 6/95

NO DATA RETURNED



165FP:TT= 0 TMC= 1 C= 1.45 XC= 0.00 BS= 0/8420 TC= 9  
A= 242 pD= 0 SR=17.430 RA50= 43.40 DEC50= 16.42 cone= 89.02 clock=277.50  
117FP:#SB= 1 OR= 0.750 RR=12.000 BM=F RC= 1 BS= 0/8420  
1:#s= 1 Cs= -2.90 XC= 0.00 Cr= 0.00 XC= 0.00 sD= 22 rD= 12

## G1INTHRMAL08

DESIGN G1.0 brad : 6/12/1996 8:37:16

FILE:P.G1INTHRMAL08

TARGET BODY : IO

MINI:m.G1INTHRMAL08

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS:

START:IEE 96-180/18:27:09.533 +CDS 692:00:0

OBSERVATION:G1INTHRMAL08

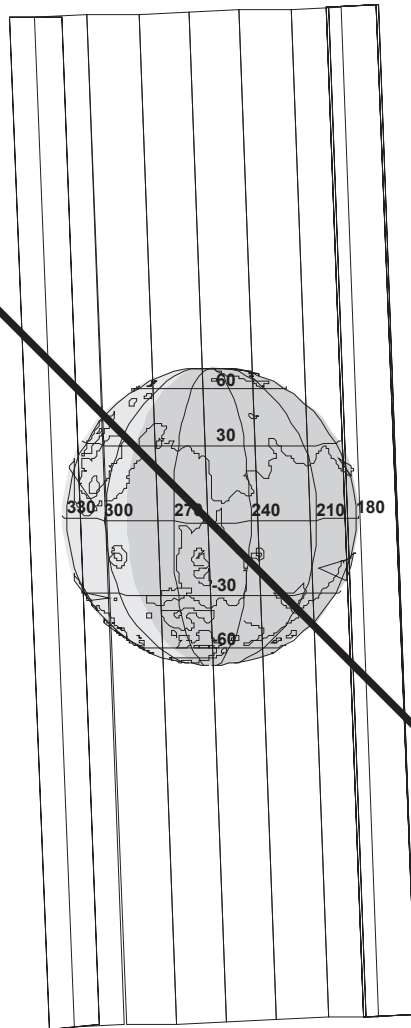
THINNING:NIM 2

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

DESCRIP:MONITORING OF IOs NIGHTSIDE

MONITORING OF IO'S NIGHTSIDE		ACTIVITY ID: G1INTHERMAL08-	
		START TIME: 96-181/06:04:49.533	
Activity ID: Orbit G1 Target I Inst N OAPEL THRMAL SeqNo 08 -			
Title	MONITORING OF IO'S NIGHTSIDE	Instrument	
Requestor	NIMS-SWG/R. LOPES	Team	NIMS Working Group
			NIMS SWG
Time System	CDS	Load ID	G1A
		Calendar Date	06/29/96
		Week	26
Start	IEE+CDS 690:00:0	96-181/06:04:49.533	IEE+000/11:37:40.000
End	IEE+CDS 692:36:0	96-181/06:07:14.866	IEE+000/11:40:05.333
Duration	2:36:0	000/00:02:25.333	000/00:02:25.333
Top Label	G1INTHERMAL08-		
Bottom Label			
Plot Key	NIMS	Type	SCI
CDS Bytes	174	Report Options	BOTH
CDS Source	OAP	Spin State	DUAL
		Scan Platform	Yes
		DMS	Yes
Observation Objective			
<p>Thermal monitoring of Io's nightside covering as wide a range of longitudes as possible with resolutions better than ~800 km/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.</p>			
<p>Processor Halted, No Data Returned</p>			
Design Detail			
<p>Partial or full disk mosaics within C/A + or - 32 hours in all orbits. High priority orbits are G1, C3, and C10 because these have the highest longitudinal coverage and orbits G7 and G8 because these have the best nighttime resolution for LOKI.</p> <p>Instrument mode: Fixed Map,  Number of Wavelengths: 10,  Tracks used per orbit: 0.01 to 0.1,  Bits To Ground used per orbit: 0.01 to 0.5 Mbits.</p> <p>Cone: 88 degrees.</p>			
<p>Fixed Map (XM), Gain 4, Grating Start 21, LPU, G1IXM10, G1IXM10</p>			
Galileo Activity Plan Form		05/09/96 18:13:57	rev 6/95

NO DATA RETURNED



## G1INVOLCAN03

DESIGN G1.0 brad : 6/12/1996 8:38:47

FILE:P.G1INVOLCAN03

TARGET BODY : IO

MINI:m.G1INVOLCAN03

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS:

START:IEE 96-180/18:27:09.533 +CDS 710:00:0

OBSERVATION:G1INVOLCAN03

165EZ:TT= 0 TMC= 1 C= -1.55 XC= 0.00 BS=0/1696 TC= 3  
A= 364 pD= 0 SR=17.430 RA50= 43.89 DEC50= 16.63 cone= 88.51 clock=277.43  
117EZ:#SB= 1 OR= 0.750 RR=12.000 BM=F RC= 1 BS= 0/1696  
1:#s= 1 Cs= 3.10 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 24 rD= 2

THINNING:NIM 2

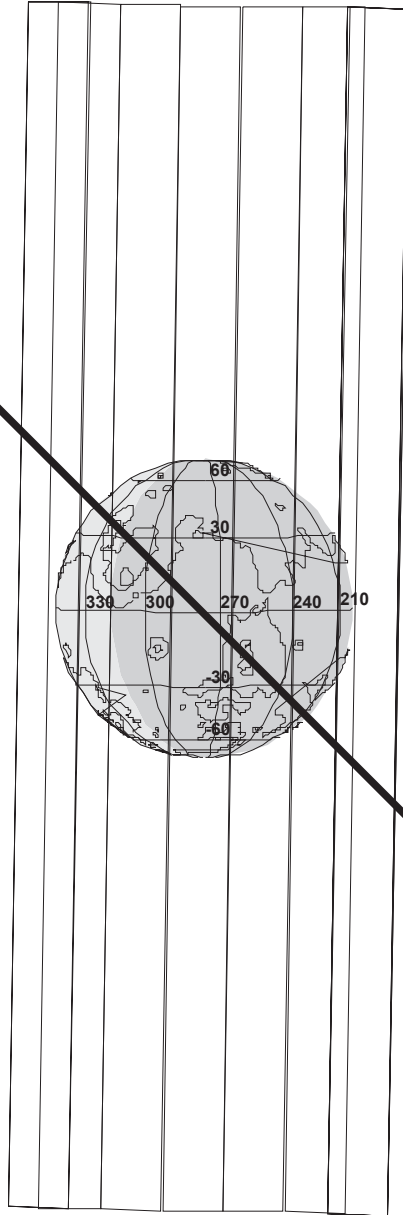
BODY PLOT TIME:TARGET-TIME D= 0 S= 0.210

DESCRIP:monitor volcanic regions



MONITORING OF SELECTED VOLCANIC REGIONS		ACTIVITY ID:	G1INVOLCAN03-		
		START TIME:	96-181/06:23:01.533		
Activity ID: Orbit G1 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	G1A	Calendar Date	06/29/96 Week 26
Start	IEE+CDS	708:00:0		96-181/06:23:01.533	IEE+000/11:55:52.000
End	IEE+CDS	711:49:0		96-181/06:26:36.199	IEE+000/11:59:26.666
Duration		3:49:0		000/00:03:34.666	000/00:03:34.666
Top Label	G1INVOLCAN03-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	178	Report Options	BOTH		
CDS Source	OAP	Spin State	DUAL	Scan Platform	Yes
				DMS	Yes
Observation Objective					
To monitor time variations in activity of selected regions (Loki, Pelee, Kanehekili) using selected wavelengths.					
Processor Halted, 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 )					
Cone: 88 degrees.					
Fixed Map (XM), Gain 2, Grating Start 21, LPU, G1IXM10, G1IXM10					
Galileo Activity Plan Form			05/09/96	18:13:58	rev 6/95

NO DATA RETURNED



165FB:TT= 0 TMC= 1 C= -1.30 XC= 0.00 BS= 0/4092 TC= 3  
A= 364 pD= 0 SR=17.430 RA50= 48.26 DEC50= 18.44 cone= 55.80 clock=271.09  
117FB:#SB= 1 OR= 0.750 RR=12.000 BM=F RC= 1 BS= 0/4092  
1:#s= 1 Cs= 2.60 XC= 0.00 Cr= 0.00 XCr= 0.00 sD= 20 rD= 2

## G1INVOLCAN02

DESIGN G1.0 brad : 6/12/1996 8:38:14

FILE:P.G1INVOLCAN02

TARGET BODY : IO

MINI:m.G1INVOLCAN02

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS:

START:IEE 96-180/18:27:09.533 +CDS 888:00:0

OBSERVATION:G1INVOLCAN02

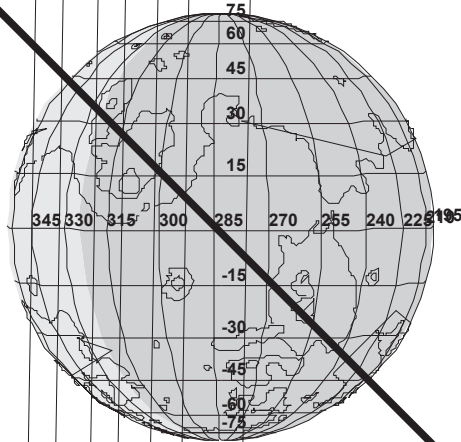
THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.210

DESCRIP:monitor volcanic regions

MONITORING OF SELECTED VOLCANIC REGIONS		ACTIVITY ID:	G1INVOLCAN02-		
		START TIME:	96-181/09:23:00.199		
Activity ID: Orbit G1 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	G1A	Calendar Date	06/29/96 Week 26
Start	IEE+CDS	886:00:0		96-181/09:23:00.199	IEE+000/14:55:50.666
End	IEE+CDS	890:48:0		96-181/09:27:34.866	IEE+000/15:00:25.333
Duration		4:48:0		000/00:04:34.667	000/00:04:34.667
Top Label	G1INVOLCAN02-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	147	Report Options	BOTH		
CDS Source	OAP	Spin State	DUAL	Scan Platform	Yes
				DMS	Yes
Observation Objective					
To monitor time variations in activity of selected regions (Loki, Pelee, Kanehekili) using selected wavelengths.					
Processor Halted, 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 )					
Cone: 55 degrees.					
Fixed Map (XM), Gain 2, Grating Start 21, LPU, G1IXM10, G1IXM10					
Galileo Activity Plan Form			05/09/96	18:13:58	rev 6/95

NO DATA RETURNED



## G1INCHEMIS07

DESIGN G1.0 brad : 6/12/1996 8:20:46

FILE:P.G1INCHEMIS07

TARGET BODY : IO

MINI:m.G1INCHEMIS07

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS:

START:IEE 96-180/18:27:09.533 +CDS 951:00:0

OBSERVATION:G1INCHEMIS07

165FC:TT= 0 TMC= 1 C= -1.30 XC= 0.00 BS= 0/5558 TC= 9  
A= 424 pD= 0 SR=17.430 RA50= 50.24 DEC50= 19.12 cone= 53.81 clock=270.95  
117FC:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/5558  
1:#s= 1 Cs= 0.90 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 98 rD= 2

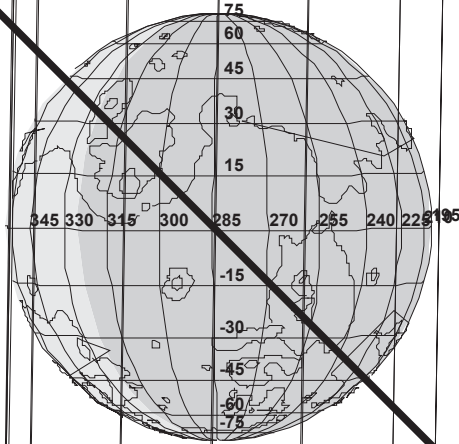
THINNING:NIM 1

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

DESCRIP:MONITORING OF IOs DAYSIDE

MONITORING OF IO'S DAYSIDE		ACTIVITY ID: G1INCHEMIS07-	
		START TIME: 96-181/10:25:41.533	
Activity ID: Orbit G1 Target I Inst N OAPEL CHEMIS SeqNo 07 -			
Title	MONITORING OF IO'S DAYSIDE	Instrument NIMS	
Requestor	NIMS-SWG/R. LOPES	Team NIMS	Working Group SWG
Time System	CDS	Load ID G1A	Calendar Date 06/29/96 Week 26
Start	IEE+CDS 948:00:0	96-181/10:25:41.533	IEE+000/15:58:32.000
End	IEE+CDS 951:84:0	96-181/10:29:39.533	IEE+000/16:02:30.000
Duration	3:84:0	000/00:03:58.000	000/00:03:58.000
Top Label	G1INCHEMIS07-		
Bottom Label			
Plot Key	NIMS	Type	SCI
CDS Bytes	178	Report Options	BOTH
CDS Source	OAP	Spin State	DUAL
		Scan Platform	Yes
		DMS	Yes
Observation Objective			
<p>Dayside monitoring covering wide range of longitudes to look for chemical changes (e.g. SO2 distribution) at resolutions better than ~800 km/nimsel (most observations will have resolutions between 120 and 400 km/nimsel).</p>			
<p>Processor Halted, No Data Returned</p>			
Design Detail			
<p>Partial or full disk mosaics within C/A + or - 32 hours in all orbits. High priority orbits are G2, C3, E4, E6 and E10 where resolution for lit disk is best.  Long map, 102 wavelengths.  Tracks used per orbit: 0.05 to 0.42.  Bits To Ground per orbit: 0.3 to 2.2 Mbits.</p> <p>Cone: 53 degrees.</p>			
<p>Long Map (LM), Gain 2, Grating Start 0, LPU, G1ILM245, G1ILM102</p>			
Galileo Activity Plan Form		05/09/96 18:13:58	rev 6/95

NO DATA RETURNED



165FQ:TT= 0 TMC= 1 C= 1.45 XC= 0.00 BS= 0/6286 TC= 9  
A= 242 pD= 0 SR=17.430 RA50= 50.21 DEC50= 19.11 cone= 53.84 clock=270.94  
117FQ:#SB= 1 OR= 0.750 RR=12.000 BM=F RC= 1 BS= 0/6286  
1:#s= 1 Cs= -2.90 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 22 rD= 12

## G1INTHRMAL06

DESIGN G1.0 brad : 6/12/1996 8:36:26

FILE:P.G1INTHRMAL06

TARGET BODY : IO

MINI:m.G1INTHRMAL06

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS:

START:IEE 96-180/18:27:09.533 +CDS 955:00:0

OBSERVATION:G1INTHRMAL06

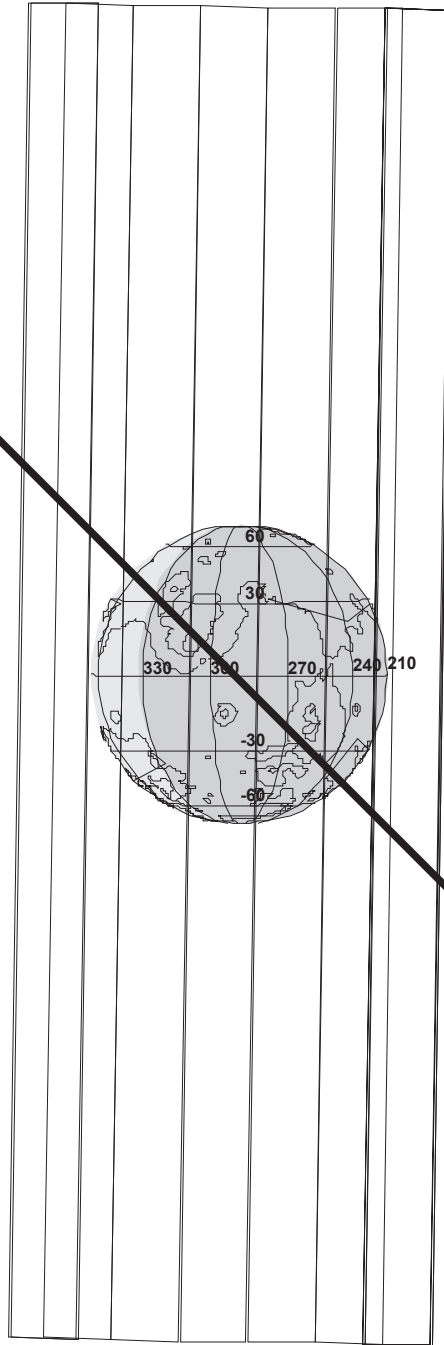
THINNING:NIM 2

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

DESCRIP:MONITORING OF IOs NIGHTSIDE

MONITORING OF IO'S NIGHTSIDE		ACTIVITY ID: G1INTHERMAL06-	
		START TIME: 96-181/10:30:44.866	
Activity ID: Orbit G1 Target I Inst N OAPEL THRMAL SeqNo 06 -			
Title	MONITORING OF IO'S NIGHTSIDE		Instrument
Requestor	NIMS-SWG/R. LOPES		NIMS
	Team	NIMS	Working Group
			SWG
Time System	CDS	Load ID	G1A
		Calendar Date	06/29/96
		Week	26
Start	IEE+CDS 953:00:0	96-181/10:30:44.866	IEE+000/16:03:35.333
End	IEE+CDS 957:11:0	96-181/10:34:54.866	IEE+000/16:07:45.333
Duration	4:11:0	000/00:04:10.000	000/00:04:10.000
Top Label	G1INTHERMAL06-		
Bottom Label			
Plot Key	NIMS	Type	SCI
CDS Bytes	174	Report Options	BOTH
CDS Source	OAP	Spin State	DUAL
		Scan Platform	Yes
		DMS	Yes
Observation Objective			
<p>Thermal monitoring of Io's nightside covering as wide a range of longitudes as possible with resolutions better than ~800 km/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.</p>			
<p>Processor Halted, No Data Returned</p>			
Design Detail			
<p>Partial or full disk mosaics within C/A + or - 32 hours in all orbits. High priority orbits are G1, C3, and C10 because these have the highest longitudinal coverage and orbits G7 and G8 because these have the best nighttime resolution for LOKI.</p> <p>Instrument mode: Fixed Map,  Number of Wavelengths: 10,  Tracks used per orbit: 0.01 to 0.1,  Bits To Ground used per orbit: 0.01 to 0.5 Mbits.</p> <p>Cone: 53 degrees.</p>			
<p>Fixed Map (XM), Gain 4, Grating Start 21, LPU, G1IXM10, G1IXM10</p>			
Galileo Activity Plan Form		05/09/96 18:13:58	rev 6/95

NO DATA RETURNED



165FE:TT= 0 TMC= 1 C= -1.40 XC= 0.00 BS= 0/5568 TC= 3  
A= 364 pD= 0 SR=17.430 RA50= 52.10 DEC50= 19.71 cone= 51.95 clock=270.84  
117FE:#SB= 1 OR= 0.750 RR=12.000 BM=F RC= 1 BS= 0/5568  
1:#s= 1 Cs= 2.60 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 20 rD= 2

## G1INVOLCAN01

DESIGN G1.0 brad : 6/12/1996 8:37:51

FILE:P.G1INVOLCAN01

TARGET BODY : IO

MINI:m.G1INVOLCAN01

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS:

START:IEE 96-180/18:27:09.533 +CDS 1006:00:0

OBSERVATION:G1INVOLCAN01

THINNING:NIM 2

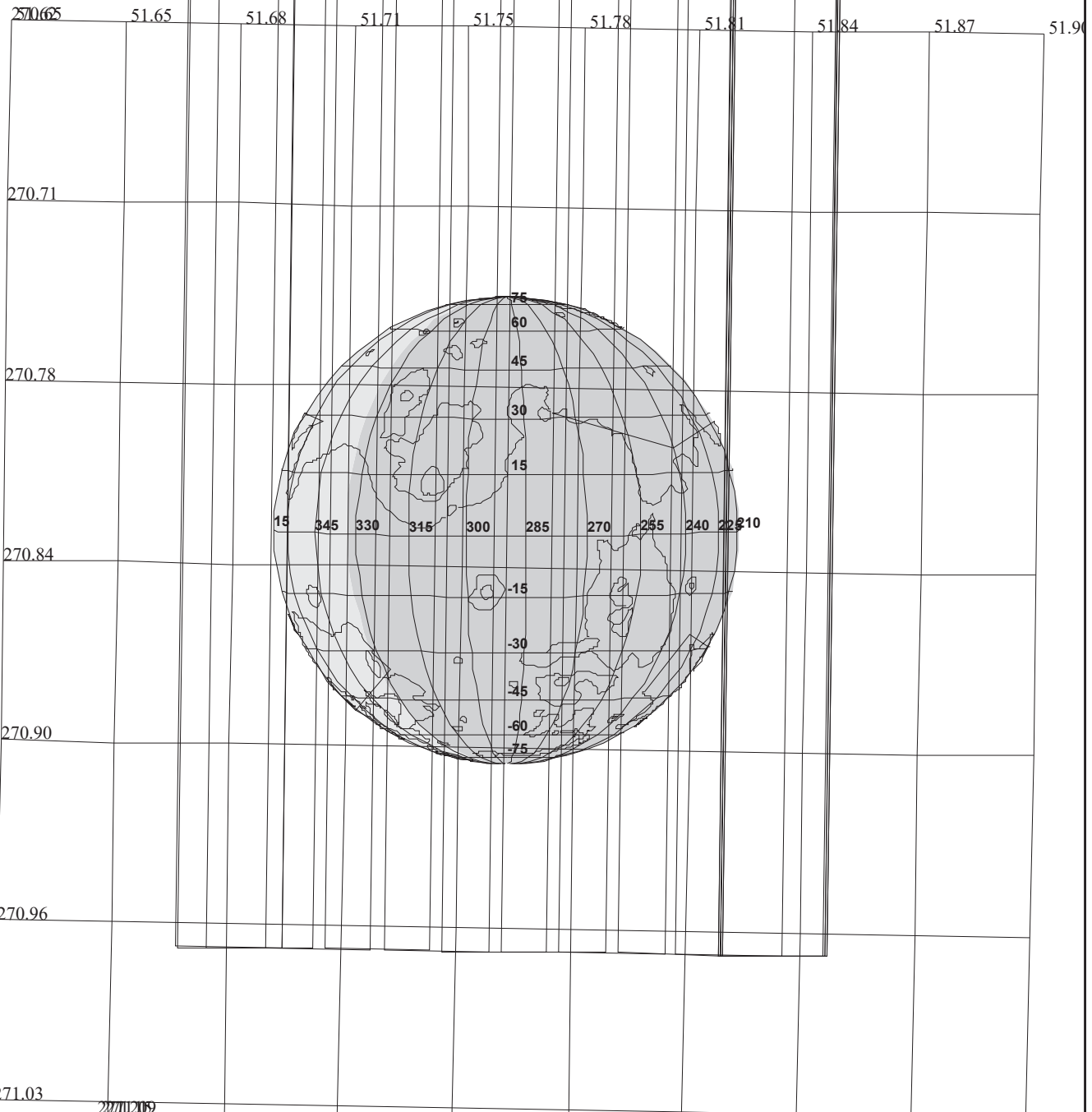
BODY PLOT TIME:TARGET-TIME D= 0 S= 0.210

DESCRIP:monitor volcanic regions



MONITORING OF SELECTED VOLCANIC REGIONS		ACTIVITY ID:	G1INVOLCAN01-		
		START TIME:	96-181/11:22:18.866		
Activity ID: Orbit G1 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	G1A	Calendar Date	06/29/96 Week 26
Start	IEE+CDS	1004:00:0		96-181/11:22:18.866	IEE+000/16:55:09.333
End	IEE+CDS	1007:00:0		96-181/11:25:20.866	IEE+000/16:58:11.333
Duration		3:00:0		000/00:03:02.000	000/00:03:02.000
Top Label	G1INVOLCAN01-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	178	Report Options	BOTH		
CDS Source	OAP	Spin State	DUAL	Scan Platform	Yes
				DMS	Yes
Observation Objective					
To monitor time variations in activity of selected regions (Loki, Pelee, Kanehekili) using selected wavelengths.					
Processor Halted, 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 )					
Cone: 52 degrees.					
Fixed Map (XM), Gain 2, Grating Start 21, LPU, G1IXM10, G1IXM10					
Galileo Activity Plan Form			05/09/96	18:13:58	rev 6/95

**BAD DATA RETURNED**



165DX:TT= 0 TMC= 1 C= -1.30 XC= -3.00 BS= 0/7024 TC= 9  
 A= 728 pD= 0 SR=17.430 RA50= 52.33 DEC50= 19.96 cone= 51.68 clock=270.61  
 117DX:#SB= 1 OR= 0.400 RR=12.000 BM=F RC= 1 BS= 0/7024  
 1:#s= 1 Cs= 2.50 XC= 0.00 Cr= 0.00 XCr= 0.00 sD= 30 rD= 2

**G1INIOMON\_07**

DESIGN G1.0 brad : 6/13/1996 9:55: 2

FILE:P.G1INIOMON\_07

TARGET BODY : IO

MINI:m.G1INIOMON\_07

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS:

THINNING:NIM 2

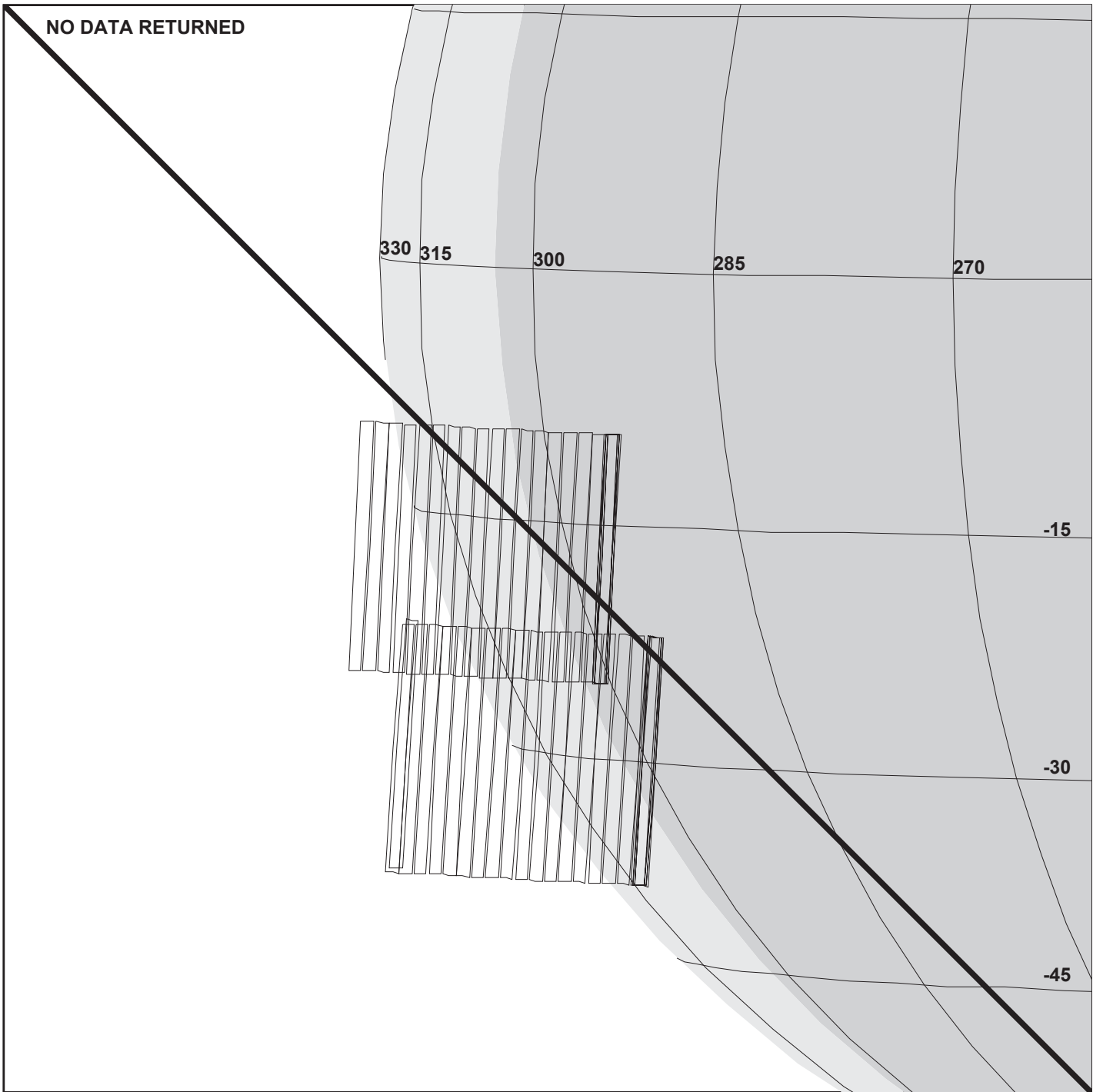
START:IEE 96-180/18:27:09.533 +CDS 1014:00:0

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.400

OBSERVATION:G1INIOMON\_07

DESCRIP:MONITORING OF IOs NIGHTSIDE

Io Monitoring in Real Time		ACTIVITY ID: G1INIOMON_07-	
		START TIME: 96-181/11:28:22.866	
Activity ID: Orbit G1 Target I Inst N OAPEL IOMON_ SeqNo 07 -			
Title	Io Monitoring in Real Time		Instrument
Requestor	NIMS-SWG/R.	Team	NIMS Working Group
			NIMS SWG
Time System	CDS	Load ID	G1A
		Calendar Date	06/29/96
		Week	26
Start	IEE+CDS 1010:00:0	96-181/11:28:22.866	IEE+000/17:01:13.333
End	IEE+CDS 1014:12:0	96-181/11:32:33.533	IEE+000/17:05:24.000
Duration	4:12:0	000/00:04:10.667	000/00:04:10.667
Top Label	G1INIOMON_07-		
Bottom Label			
Plot Key	NIMS	Type	SCI
CDS Bytes	153	Report Options	BOTH
CDS Source	OAP	Spin State	DUAL
		Scan Platform	Yes
		DMS	No
Observation Objective			
Real Time observation of Io's nightside to map hot spots and look for thermal changes on the surface.			
Processor Halted, Data Returned			
Design Detail			
Global mosaic, observation duration: 12 minor frames.			
These 12 minor frames must be the first 12 of a rim.			
NIMS mirror scans 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.			
Cone: 51 degrees.			
Fixed Map (XM), Gain 2, Grating Start 0, R/T, G1IXM8RT			
Galileo Activity Plan Form		05/09/96 18:13:58	rev 6/95



## G1JNGRS15401

165FF:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/8510 TC= 2(31.1 272.6 )  
 A= 728 pD= 0 SR=17.430 RA50= 74.27 DEC50= 23.00 cone= 31.10 clock=272.60  
 117FF:#SB= 1 OR= 0.110 RR=12.000 BM=F RC= 1 BS= 0/8510  
 1:#s= 2 Cs= 9.50 XCs= 0.00 Cr= -8.00 XCr= 8.00 sD= 318 rD= 36

TARGET G1.0 brad : 4/30/1996 16: 4:13

FILE:P.G1JNGRS15401

CENTRAL BODY:JUPITER

MINI:m.target.enc

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS:

THINNING:NIM 2

START:JEE 96-180/00:31:20.266 +CDS 2251:00:0

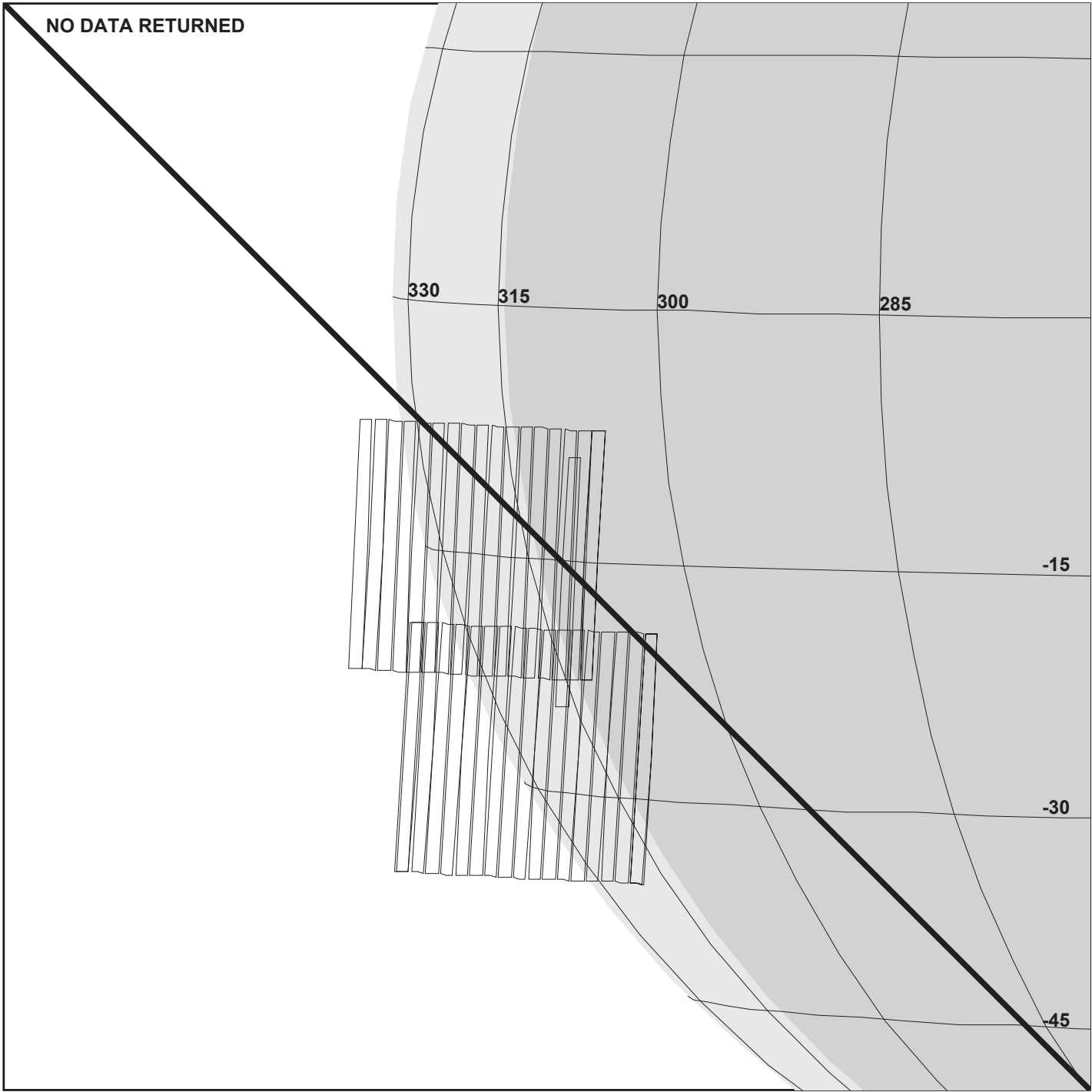
BODY PLOT TIME:TARGET-TIME D= 0 S= 2.000

OBSERVATION:G1JNGRS15401

DESCRIP:GRS PHASE 154 #1

GRS 154 Phase #1		ACTIVITY ID: G1JNGRS15401-	
		START TIME: 96-181/14:23:18.266	
Activity ID: Orbit G1 Target J Inst N OAPEL GRS154 SeqNo 01 -			
Title	GRS 154 Phase #1	Instrument	
Requestor	NIMS-AWG/K. BAINES	Team NIMS	NIMS Working Group
			AWG
Time System	CDS	Load ID	G1A
		Calendar Date	06/29/96
		Week	26
Start	JEE+CDS 2247:00:0	96-181/14:23:18.266	JEE+001/13:51:58.000
End	JEE+CDS 2254:84:0	96-181/14:31:18.932	JEE+001/13:59:58.666
Duration	7:84:0	000/00:08:00.666	000/00:08:00.666
Top Label	G1JNGRS15401-		
Bottom Label			
Plot Key	NIMS	Type	SCI
CDS Bytes	187	Report Options	BOTH
CDS Source	OAP	Spin State	DUAL
		Scan Platform	Yes
		DMS	Yes
Observation Objective			
154 degrees phase observation of GRS near bright limb. First of two observations acquired during this rotation. 15 wavelengths acquired utilizing wavelength table JFT15A.			
Processor Halted, No Data Returned			
Design Detail			
Approximately 2*1 (~18 mrad N/S by ~10 mrad E/W) shortmap of Great Red Spot. 4 minutes reserved for targetting. Nyquist sampling E/W. 2 mrad overlap between the two tiers. GRS assumed located at 321 degrees longitude (System III), 23 degrees S. latitude. Record duration: 224 seconds, accumulating 0.1628 MBTG in 15 colors using 0.0075 tracks.			
Cone: 32 degrees.			
Short Map (SM), Gain 2, Grating Start 1, LPU, G1JFT15A, G1JFT15A			
Galileo Activity Plan Form		05/09/96 18:13:58	rev 6/95

NO DATA RETURNED



165FG:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/1604 TC= 2(30.78 272.4 )  
 A= 182 pD= 0 SR=17.430 RA50= 74.60 DEC50= 23.14 cone= 30.78 clock=272.40  
 117FG:#SB= 1 OR= 0.110 RR=12.000 BM=F RC= 1 BS= 0/1604  
 1:s= 2 Cs= 9.00 XC= 0.00 Cr= -7.00 XCr= 8.00 sD= 246 rD= 36

### G1JNGRS15402

TARGET G1.0 brad : 4/30/1996 16: 4:13

FILE:P.G1JNGRS15402

CENTRAL BODY:JUPITER

MINI:m.target.enc

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS:

START:JEE 96-180/00:31:20.266 +CDS 2268:00:0

OBSERVATION:G1JNGRS15402

THINNING:NIM 2

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

DESCRIP:GRS PHASE 154 #2

GRS 154 Phase #2		ACTIVITY ID: G1JNGRS15402-	
		START TIME: 96-181/14:43:31.599	
Activity ID: Orbit G1 Target J Inst N OAPEL GRS154 SeqNo 02 -			
Title	GRS 154 Phase #2	Instrument	
Requestor	NIMS-AWG/K. BAINES	Team NIMS	Working Group NIMS AWG
Time System	CDS	Load ID	G1A
		Calendar Date	06/29/96
		Week	26
Start	JEE+CDS 2267:00:0	96-181/14:43:31.599	JEE+001/14:12:11.333
End	JEE+CDS 2271:87:0	96-181/14:48:32.266	JEE+001/14:17:12.000
Duration	4:87:0	000/00:05:00.667	000/00:05:00.667
Top Label	G1JNGRS15402-		
Bottom Label			
Plot Key	NIMS	Type	SCI
CDS Bytes	156	Report Options	BOTH
CDS Source	OAP	Spin State	DUAL
		Scan Platform	Yes
		DMS	Yes
Observation Objective			
154 degrees phase observation of GRS near terminator. Second of two observations acquired on this rotation. 15 wavelengths acquired utilizing wavelength table JFT15A.			
Processor Halted, No Data Returned			
Design Detail			
Approximately 2*1 (~18 mrad N/S by ~10 mrad E/W) shortmap of Great Red Spot. 1 minute reserved for targetting. Nyquist sampling E/W. 2 mrad overlap between the two tiers. GRS assumed located at 321 degrees longitude (System III), 23 degrees S. latitude. Record duration: 182 seconds, accumulating 0.1323 MBTG in 15 colors using 0.0061 tracks.			
Cone: 32 degrees.			
Short Map (SM), Gain 2, Grating Start 1, LPU, G1JFT15A, G1JFT15A			
Galileo Activity Plan Form		05/09/96 18:13:58	rev 6/95

NIMS PCT Calibration		ACTIVITY ID: G1NNPCTCAL01-	
		START TIME: 96-181/15:14:52.266	
Activity ID: Orbit G1 Target N Inst N OAPEL PCTCAL SeqNo 01 -			
Title	NIMS PCT Calibration		Instrument
Requestor	NIMS-SWG/J. HUI		NIMS Working Group
	Team	NIMS	SWG
Time System	CDS	Load ID	G1A
		Calendar Date	06/29/96
		Week	26
Start	JEE+CDS 2298:00:0	96-181/15:14:52.266	JEE+001/14:43:32.000
End	JEE+CDS 2397:02:6	96-181/16:54:59.599	JEE+001/16:23:39.333
Duration	99:02:0	000/01:40:07.333	000/01:40:07.333
Top Label	G1NNPCTCAL01-		
Bottom Label			
Plot Key	NIMS	Type	SCI
CDS Bytes	465	Report Options	BOTH
CDS Source	OAP	Spin State	DUAL
		Scan Platform	Yes
		DMS	Yes
Observation Objective			
<p>This observation is a NIMS photometric calibration using the PCT target. The data will be used to calibrate the NIMS visible detectors. The calibration data will be recorded. This calibration will take place near the end of the G1 Encounter phase. At this time the spacecraft sun angle is about 2 degrees. A NIMS Optical Calibration is also performed. This is the first NIMS PCT calibration since the Ida Encounter.</p>			
Processor Halted, No Data Returned			
Design Detail			
<p>The Dark cone,clock angles must be selected using Pointer.</p> <ol style="list-style-type: none"> <li>1) Turn off PCT Heaters 6 hours before the calibration.</li> <li>2) Set NIMS to Long Map Mode, Gain state 4, OPCAL On, ETB=PCT252</li> <li>3) Slew to Dark (cone=xxx.xx, clock=xxx.xx), Record 3 Rims in LPU. (The first Rim contains the OPCAL data).</li> <li>4) Slew to PCT (cone= 54.88, clock=244.07), Record 3 Rims in LPU.</li> <li>5) Slew to Dark (cone=xxx.xx, clock=xxx.xx), Record 3 Rims in LPU.</li> <li>6) Slew to Safe (cone=153.00, clock= 0.00)</li> </ol>			
Long Map (LM), Gain 4, Grating Start 0, LPU, G1PCT252, G1PCT252			
Galileo Activity Plan Form		05/09/96 18:13:59	rev 6/95



Turn NIMS chopper off		ACTIVITY ID: G1NNCHOPOF01-	
		START TIME: 96-181/19:17:32.266	
Activity ID: Orbit G1 Target N Inst N OAPEL CHOPOF SeqNo 01 -			
Title	Turn NIMS chopper off		Instrument
Requestor	NIMS-SWG/K. BAINES		NIMS
	Team	NIMS	Working Group
			SWG
Time System	CDS	Load ID	G1A
		Calendar Date	06/29/96
		Week	26
Start	JEE+CDS 2538:00:0	96-181/19:17:32.266	JEE+001/18:46:12.000
End	JEE+CDS 2548:00:0	96-181/19:27:38.932	JEE+001/18:56:18.666
Duration	10:00:0	000/00:10:06.666	000/00:10:06.666
Top Label	G1NNCHOPOF01		
Bottom Label			
Plot Key	NIMS	Type	SCI
CDS Bytes	38	Report Options	BOTH
CDS Source	OAP	Spin State	DUAL
		Scan Platform	No
		DMS	No
Observation Objective			
To preserve the NIMS chopper life.			
Design Detail			
Use a NIMSTAB PA to reset wavelength table with parameters 04,C4,02,00,00 and to issue a 37IOP,0,0 to put NIMS in SAFE mode.			
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)			
Galileo Activity Plan Form		05/09/96	18:13:59 rev 6/95

NIMS SHLD FLSH OFF/PCT HTRS ON

ACTIVITY ID: G1NNSHDOFF01-  
START TIME: 96-184/11:21:46.600

Activity ID: Orbit G1 Target N Inst N OAPEL SHDOFF SeqNo 01 -

Title NIMS SHLD FLSH OFF/PCT HTRS ON Instrument NIMS  
Requestor NIMS-SWG/J. HUI Team NIMS Working Group SWG

Time System CDS Load ID G1B Calendar Date 07/02/96 Week 27  
Start RTA-CDS 2200:00:0 96-184/11:21:46.600 RTA-001/13:04:26.666  
End RTA-CDS 10:00:0 96-186/00:16:06.600 RTA-000/00:10:06.666  
Duration 2190:00:0 001/12:54:20.000 001/12:54:20.000

Top Label G1NNSHDOFF01-  
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 48 hours before the RCT calibration.

#### Design Detail

Need comment PA in OAPEL to be expanded in the OAP process.

Galileo Activity Plan Form

05/09/96 18:13:59 rev 6/95

POWER MODE CAL/DEC NIMS RT CAL		ACTIVITY ID: G1NNRCTRLT01-	
		START TIME: 96-186/00:16:06.600	
Activity ID: Orbit G1 Target N Inst N OAPEL RCTRLT SeqNo 01 -			
Title	POWER MODE CAL/DEC NIMS RT CAL	Instrument	
Requestor	NIMS-SWG/J. HUI	Team NIMS	Working Group NIMS SWG
Time System	CDS	Load ID	G1B
		Calendar Date	07/04/96
		Week	27
Start	RTA-CDS 10:00:0	96-186/00:16:06.600	RTA-000/00:10:06.666
End	RTA+CDS 760:00:0	96-186/13:14:39.932	RTA+000/12:48:26.666
Duration	770:00:0	000/12:58:33.332	000/12:58:33.332
Top Label	G1NNRCTRLT01-		
Bottom Label			
Plot Key	NIMS	Type	SCI
CDS Bytes	499	Report Options	BOTH
CDS Source	OAP	Spin State	DUAL
		Scan Platform	Yes
		DMS	No
Observation Objective			
<p>This observation is a NIMS radiometric calibration using the RCT target. The data will be used to calibrate the NIMS thermal detectors. The calibration data will be returned using Real Time telemetry. This calibration will take place after the OTM.</p>			
Processor Halted, Bad Data Returned			
Design Detail			
<p>This is a Library Sequence.  The Dark cone angle must be selected using Pointer.</p> <ol style="list-style-type: none"> <li>1) Turn on RCT Heaters for 12 hours.</li> <li>2) Set Engineering Variable Map to return NIMS Temps more frequently.</li> <li>3) Set NIMS to Long Map Mode, Gain state 1, Chopper Reference, Mirror Blocking (11011,11011), ETB=RCT252.</li> <li>4) Pause playback before using scan platform.</li> <li>5) Slew to Dark (cone=xxx.xx), return 1 grating cycle (12 mf) in R/T.</li> <li>6) Slew to RCT (cone= 0.00), return 2 grating cycles (24 mf) in R/T</li> <li>7) Slew to Dark (cone=xxx.xx), return 1 grating cycle (12 mf) in R/T</li> <li>8) Slew to Safe (cone=153.00)</li> <li>9) Set NIMS to Safe Mode and turn off Chopper.</li> <li>10) Resume Playback after using scan platform.</li> </ol>			
Long Map (LM), Gain 1, Grating Start 0, R/T, G1RCT252, G1RCT252			
Galileo Activity Plan Form		05/09/96 18:13:59	rev 6/95

OPCAL RT		ACTIVITY ID: G1NNOPCAL_01-		START TIME: 96-201/05:12:00.000	
Activity ID: Orbit G1 Target N Inst N OAPEL OPCAL_ SeqNo 01 -					
Title	OPCAL RT	Instrument		NIMS	
Requestor	NIMS-SWG/R. LOPES	Team	NIMS Working Group	SWG	
Time System	CDS	Load ID	G1B	Calendar Date	07/20/96 Week 28
Start	96-201/05:12:00.000				
End	96-201/05:22:00.000				
Duration	4:88:0	000/00:10:00.000			
Top Label	G1OPCAL 01-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	217	Report Options	BOTH	Scan Platform	Yes
CDS Source	PA	Spin State	DUAL	DMS	Yes
Observation Objective					
To perform an Optical Calibration of the NIMS instrument					
Also used to verify the functioning of the NIMS RAM code after a NIMS software reload.					
Data Returned					
Design Detail					
Long Map					
Gain State 4					
Mirror Block 1B,1B (11011,11011) (select mirror positions 8-11)					
ETB selects Detectors 1 and 2 only.					
NIMS is selected in Real Time for 5 Rims.					
Five Long Map grating cycles are returned.					
The first and third Rims contain OPCAL data, the rest are dark sky.					
Long Map (LM), Gain 4, Grating Start 0, R/T, G1OPCAL48					
Galileo Activity Plan Form			06/17/96	12:41:01	rev 6/95

OPCAL RT		ACTIVITY ID: G1NNOPCAL_02-		START TIME: 96-208/03:47:00.000	
Activity ID: Orbit G1 Target N Inst N OAPEL OPCAL_ SeqNo 02 -					
Title	OPCAL RT	Instrument		NIMS	
Requestor	NIMS-SWG/R. LOPES	Team	NIMS Working Group	SWG	
Time System	CDS	Load ID	G1B	Calendar Date	07/27/96 Week 29
Start			96-208/03:47:00.000		
End			96-208/03:54:00.000		
Duration	4:88:0		000/00:07:00.000		
Top Label	G1OPCAL 02-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	217	Report Options	BOTH	Scan Platform	Yes
CDS Source	PA	Spin State	DUAL	DMS	Yes
Observation Objective					
To perform an Optical Calibration of the NIMS instrument					
Also used to verify the functioning of the NIMS RAM code after a NIMS software reload.					
Data Returned					
Design Detail					
Long Map					
Gain State 4					
Mirror Block 1B,1B (11011,11011) (select mirror positions 8-11)					
ETB selects Detectors 1 and 2 only.					
NIMS is selected in Real Time for 3 Rims.					
Three Long Map grating cycles are returned.					
The first and third Rims contain OPCAL data, the rest is dark sky.					
Long Map (LM), Gain 4, Grating Start 0, R/T, G1OPCAL48					
Galileo Activity Plan Form			06/17/96	12:41:01	rev 6/95

Turn NIMS chopper off

ACTIVITY ID: G1NNCHOPOF02-  
START TIME: 96-208/04:37:00.000

Activity ID: Orbit G1 Target N Inst N OAPEL CHOPOF SeqNo 02 -

Title Turn NIMS chopper off Instrument NIMS  
Requestor NIMS-SWG/K. BAINES Team NIMS Working Group SWG

Time System CDS Load ID G1B Calendar Date 07/27/96 Week 29  
Start 96-208/04:37:00.000  
End 96-208/05:10:00.000  
Duration 000/00:33:00.000

Top Label G1NNCHOPOF02  
Bottom Label

Plot Key NIMS Type SCI  
CDS Bytes 38 Report Options BOTH Scan Platform No  
CDS Source OAP Spin State DUAL DMS No

Observation Objective

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 mode.

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)

NIMS SHLD FLSH OFF/PCT HTRS ON		ACTIVITY ID: G1NNSHDOFF02-	
		START TIME: 96-217/04:55:42.134	
Activity ID: Orbit G1 Target N Inst N OAPEL SHDOFF SeqNo 02 -			
Title	NIMS SHLD FLSH OFF/PCT HTRS ON		Instrument
Requestor	NIMS-SWG/J. HUI	Team	NIMS Working Group
			NIMS SWG
Time System	CDS	Load ID	G1C
		Calendar Date	08/04/96
		Week	31
Start	RTB-CDS 2200:00:0	96-217/04:55:42.134	RTB-001/13:04:26.666
End	RTB-CDS 10:00:0	96-218/17:50:02.134	RTB-000/00:10:06.666
Duration	2190:00:0	001/12:54:20.000	001/12:54:20.000
Top Label	G1NNSHDOFF02-		
Bottom Label			
Plot Key	NIMS	Type	SCI
CDS Bytes	50	Report Options	BOTH
CDS Source	OAP	Spin State	DUAL
		Scan Platform	No
		DMS	No
Observation Objective			
To turn off NIMS shield flash heater 48 hours before the RCT calibration.			
Design Detail			
Need comment PA in OAPEL to be expanded in the OAP process.			
Galileo Activity Plan Form		05/09/96 18:13:59	rev 6/95

POWER MODE CAL/DEC NIMS RT CAL		ACTIVITY ID: G1NNRCTRLT02-	
		START TIME: 96-218/17:50:02.134	
Activity ID: Orbit G1 Target N Inst N OAPEL RCTRLT SeqNo 02 -			
Title	POWER MODE CAL/DEC NIMS RT CAL	Instrument	
Requestor	NIMS-SWG/J. HUI	Team NIMS	Working Group NIMS SWG
Time System	CDS	Load ID	G1C
		Calendar Date	08/05/96
		Week	32
Start	RTB-CDS 10:00:0	96-218/17:50:02.134	RTB-000/00:10:06.666
End	RTB+CDS 760:00:0	96-219/06:48:35.466	RTB+000/12:48:26.666
Duration	770:00:0	000/12:58:33.332	000/12:58:33.332
Top Label	G1NNRCTRLT02-		
Bottom Label			
Plot Key	NIMS	Type	SCI
CDS Bytes	499	Report Options	BOTH
CDS Source	OAP	Spin State	DUAL
		Scan Platform	DMS
			Yes
			No
Observation Objective			
<p>This observation is a NIMS radiometric calibration using the RCT target. The data will be used to calibrate the NIMS thermal detectors. The calibration data will be returned using Real Time telemetry. This calibration will take place after Apojove.</p>			
Data Returned			
Design Detail			
<p>This is a Library Sequence.  The Dark cone angle must be selected using Pointer.</p> <ol style="list-style-type: none"> <li>1) Turn on PCT Heaters for 12 hours.</li> <li>2) Set Engineering Variable Map to return NIMS Temps more frequently.</li> <li>3) Set NIMS to Long Map Mode, Gain state 1, Chopper Reference, Mirror Blocking (11011,11011), ETB=RCT252.</li> <li>4) Pause Playback before using scan platform.</li> <li>5) Slew to Dark (cone=xxx.xx), return 1 grating cycle (12 mf) in R/T.</li> <li>6) Slew to RCT (cone= 0.00), return 2 grating cycles (24 mf) in R/T</li> <li>7) Slew to Dark (cone=xxx.xx), return 1 grating cycle (12 mf) in R/T</li> <li>8) Slew to Safe (cone=153.00)</li> <li>9) Set NIMS to Safe Mode and turn off Chopper.</li> <li>10) Resume Playback after using scan platform.</li> </ol>			
Long Map (LM), Gain 1, Grating Start 0, R/T, G1RCT252, G1RCT252			
Galileo Activity Plan Form		05/09/96 18:13:59	rev 6/95



NIMS PCT Real Time Calibration		ACTIVITY ID:	G1NNPCTRLT01-		
		START TIME:	96-222/07:59:00.000		
Activity ID: Orbit G1 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	G1B	Calendar Date	08/09/96 Week 31
Start	96-222/07:59:00.000				
End	96-224/15:52:00.000				
Duration	002/07:53:00.000				
Top Label	G1NNPCTRLT01-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	275	Report Options	BOTH		
CDS Source	OAP	Spin State	DUAL	Scan Platform	Yes
				DMS	No
Observation Objective					
<p>This observation is a NIMS photometric calibration using the PCT target. The data will be used to calibrate the NIMS visible detectors. The calibration data will be returned via RealTime. This calibration will take place during the cruise of the G1 Encounter when the sun-angle is about x degrees.</p>					
Data Returned					
Design Detail					
<ol style="list-style-type: none"> <li>1) Turn off Shield Heaters 48 hours before the calibration.</li> <li>2) Turn off PCT heaters 6 hours before calibration.</li> <li>3) Scan Platform is at Safe/Unstow (cone=153.00, clock=0.00)</li> <li>4) Chopper on, Gain State 4,</li> <li>5) Set NIMS to Long Map Mode, ETB=PCT252, Mirror Blocking (1B,1B) (11011,11011)</li> <li>6) Select 1 Rim of Dark in Real Time (Return 1 LM grating cycle)</li> <li>7) Slew to PCT (cone = 54.88, clock = 244.07)</li> <li>8) Select 10 Rims of PCT in Real Time (Return 10 LM grating cycles)</li> <li>9) Slew to Safe (cone = 153.00, clock = 0.00)</li> <li>10) NIMS to Safe Mode, Reset Mirror Blocking (00,00) (00000,00000)</li> <li>11) Chopper Off</li> </ol>					
Long Map (LM), Gain 4, Grating Start 0, RT, G1PCT252,					
Galileo Activity Plan Form			11/15/96	10:45:25	rev 6/95

## Chapter 6 - Edit Tables

### Contents

	Sub-Section	Page
6.0	Contents .....	1-2
6.1	Introduction .....	3
6.2	CLM245-228 .....	4
6.3	ELM245-228 .....	5
6.4	EXM10A .....	6
6.5	EXM17 .....	7
6.6	GLM245_228_A .....	8
6.7	GLM245_228_B .....	9
6.8	GLM245_228_C .....	10
6.9	GLM245_228_D .....	11
6.10	GLM245_228_E .....	12
6.11	GLM245_228_F .....	13
6.12	GSM119-102 .....	14
6.13	GXS17 .....	15
6.14	ILM245-228 .....	16
6.15	ILM442-408 .....	17

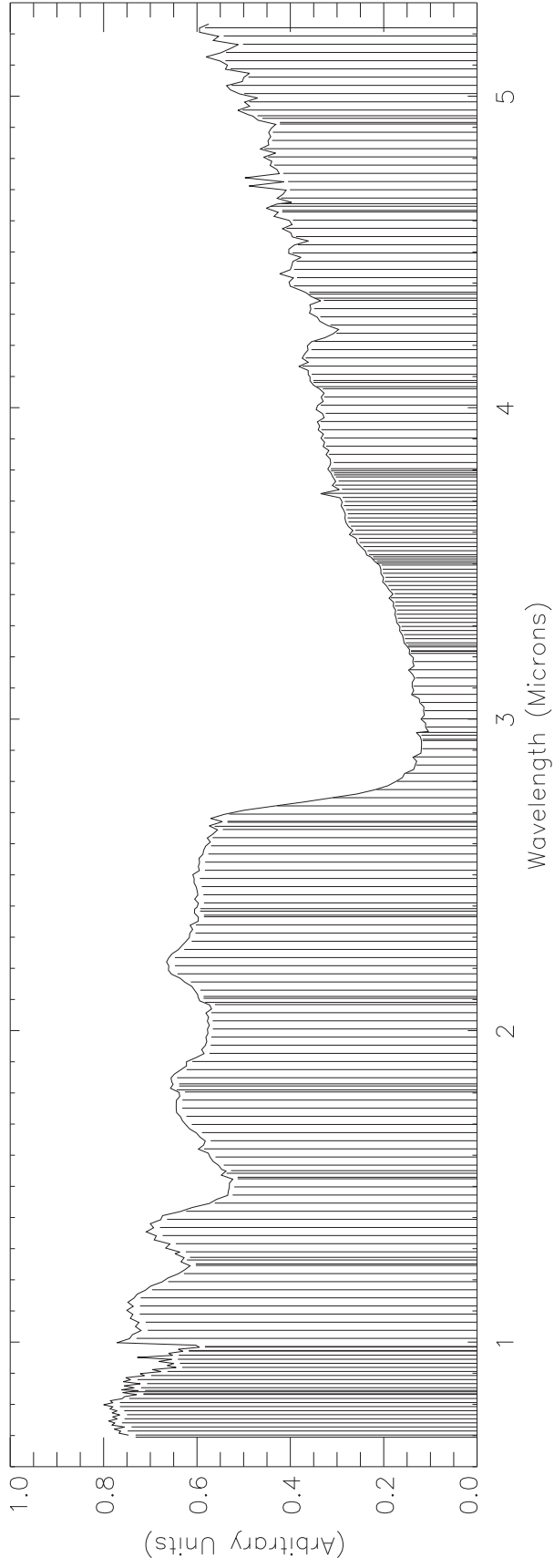
	Sub-Section	Page
6.16	IXM10 .....	18
6.17	IXM8RT .....	19
6.18	JFE408 .....	20
6.19	JFT68A-19C .....	21
6.20	JFT68A .....	22
6.21	JFT68C-23A .....	23
6.22	JHT238A .....	24
6.23	OPCAL48 .....	25
6.24	PCT252 .....	26
6.25	RCT252 .....	27

## Introduction to Chapter 6

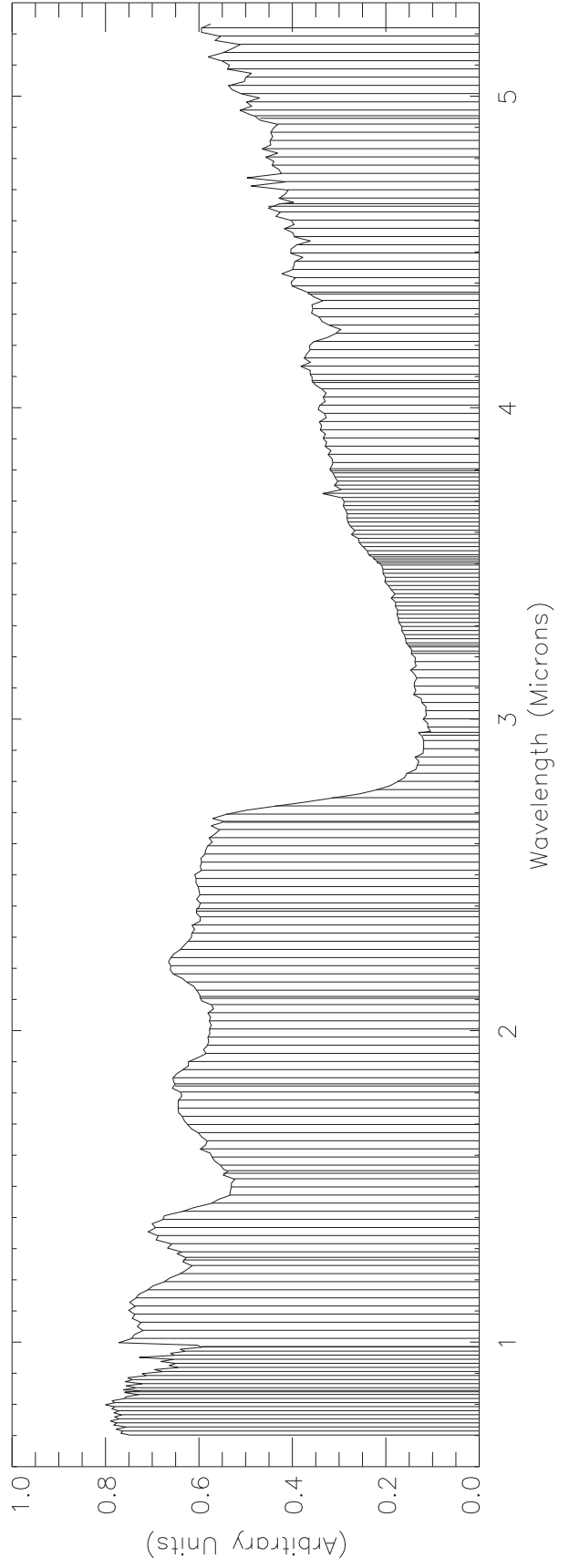
### NIMS Edit Table Plots

This chapter contains plots of the NIMS Edit Tables used in G1. 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.

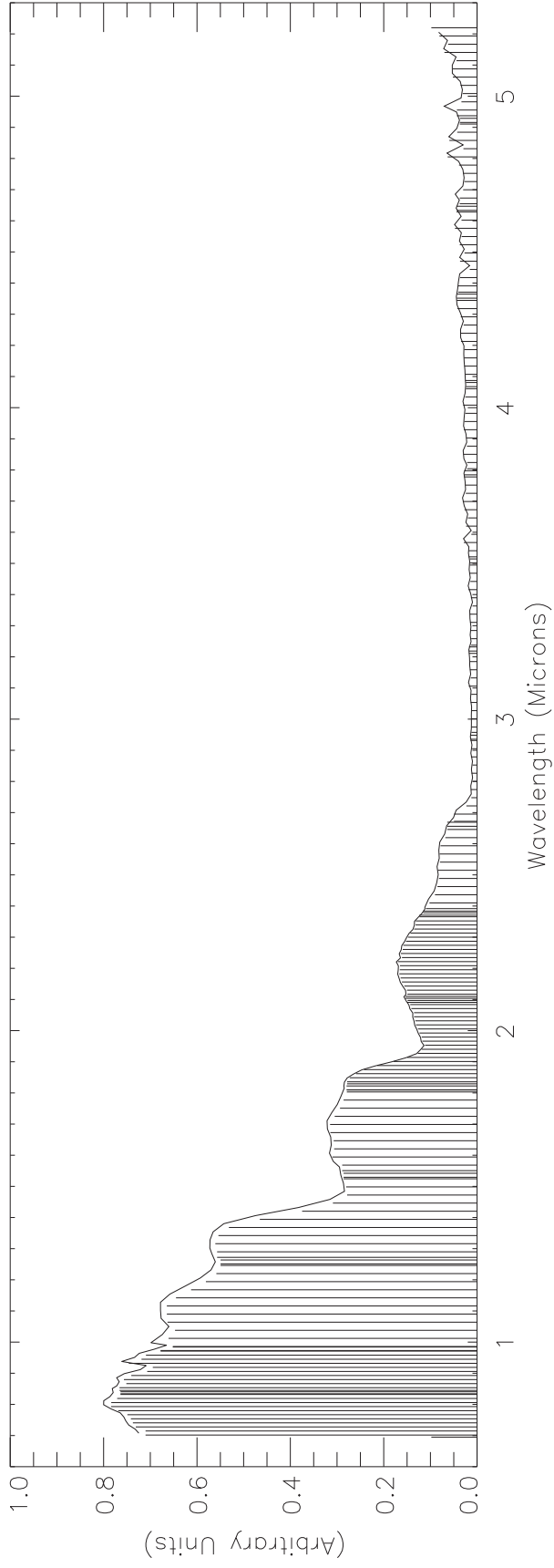
CLM245.ETB



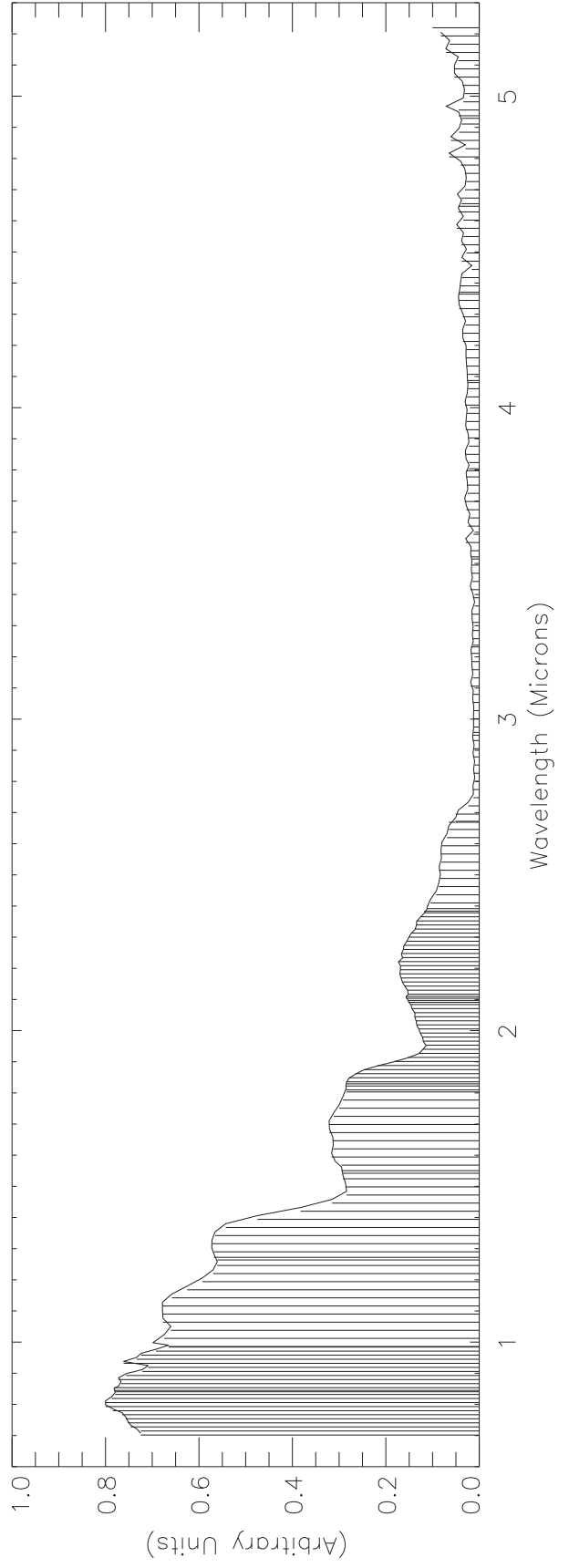
CLM228.PBK



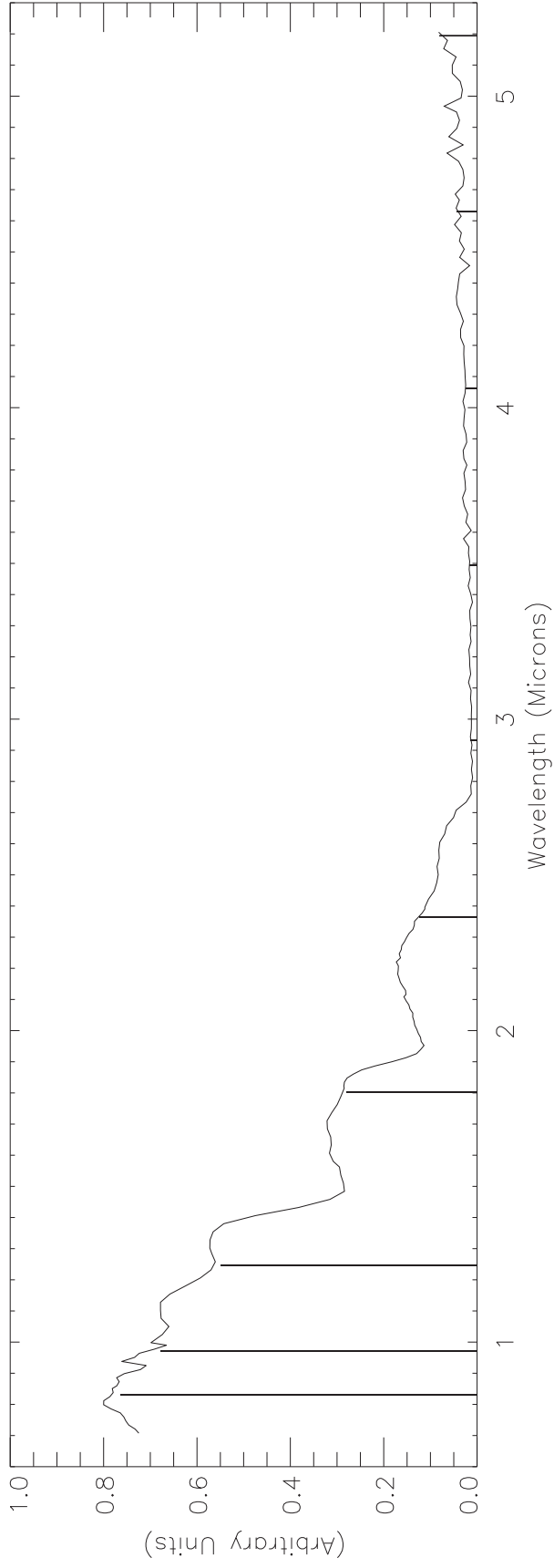
ELM245.ETB



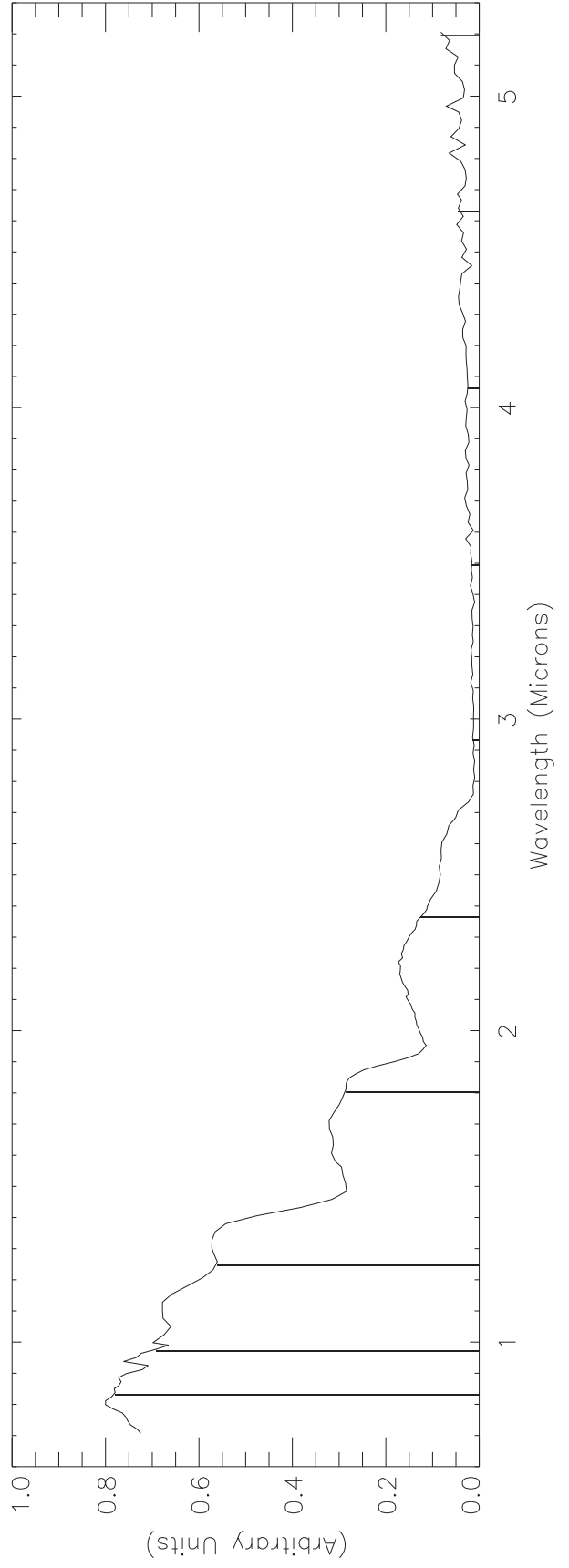
ELM228.PBK



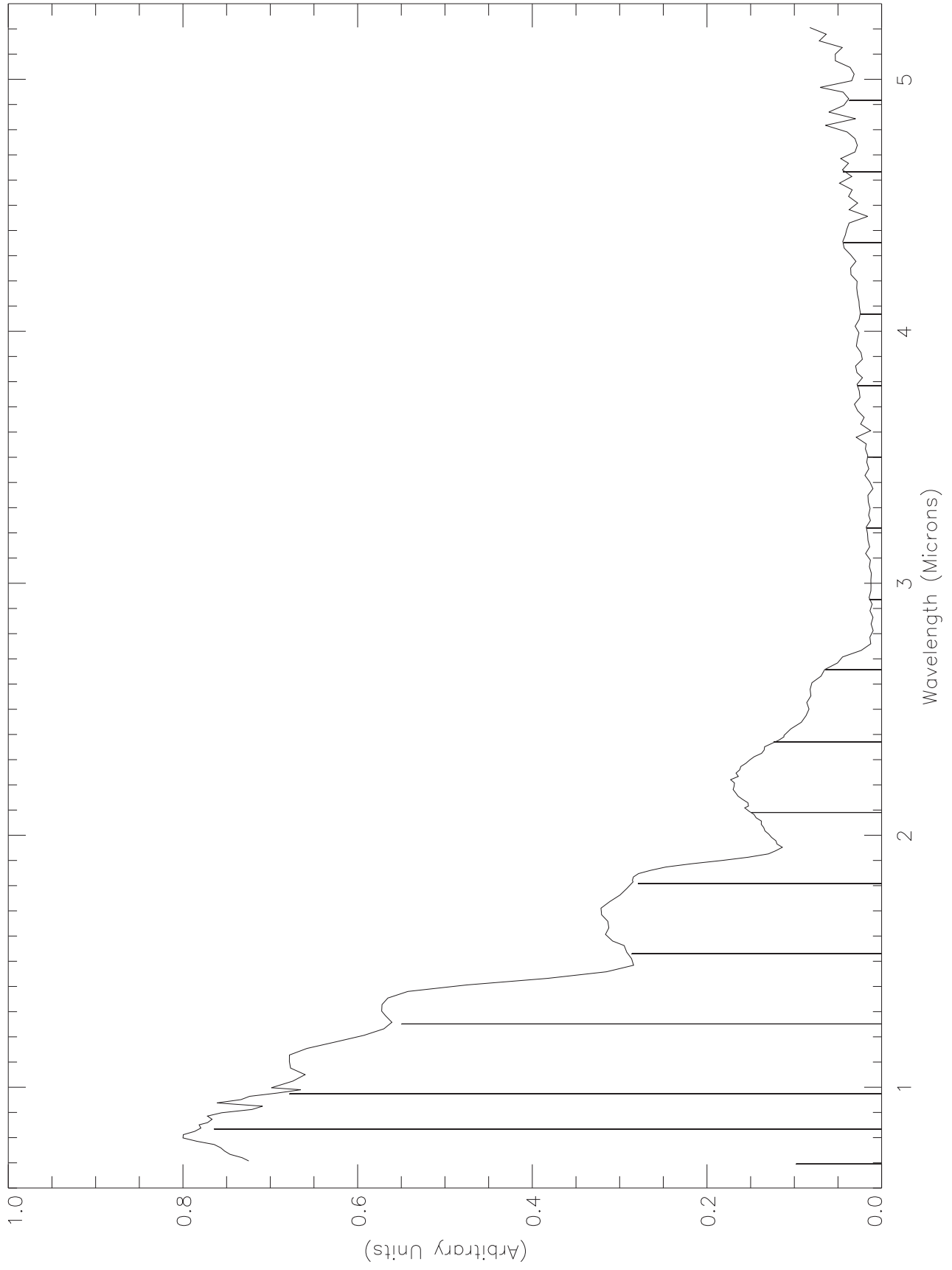
EXM10A.ETB



EXM10A.PBK

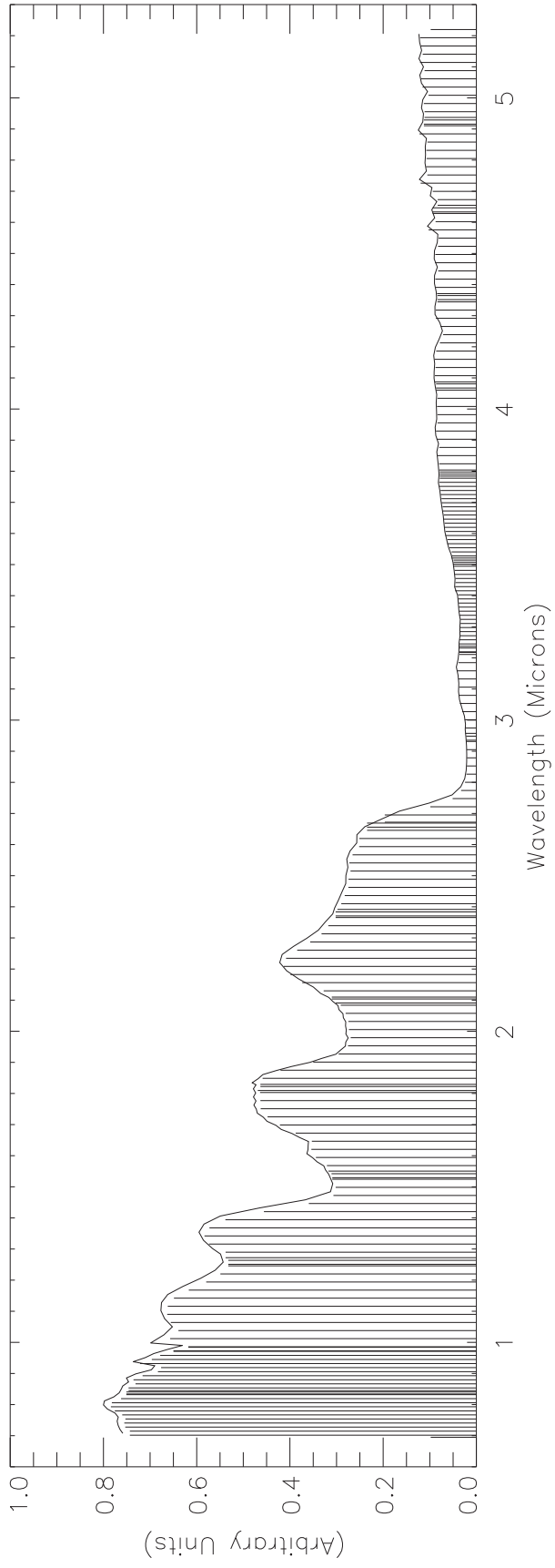


EXM17.ETB

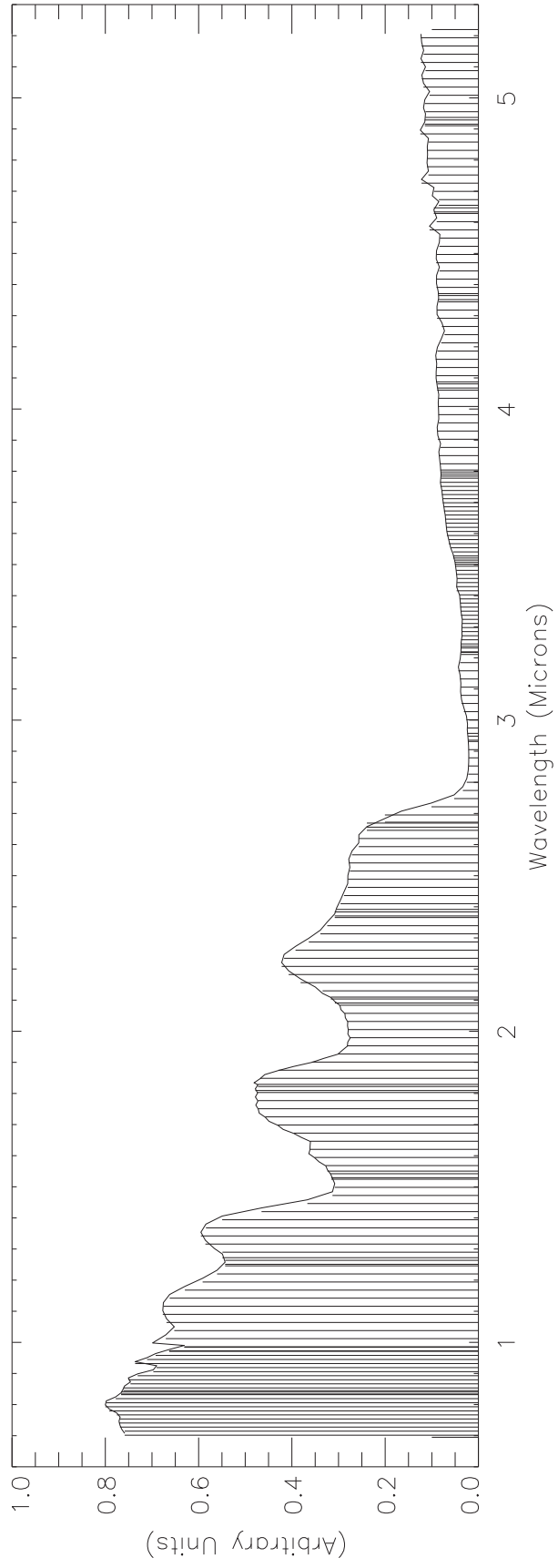




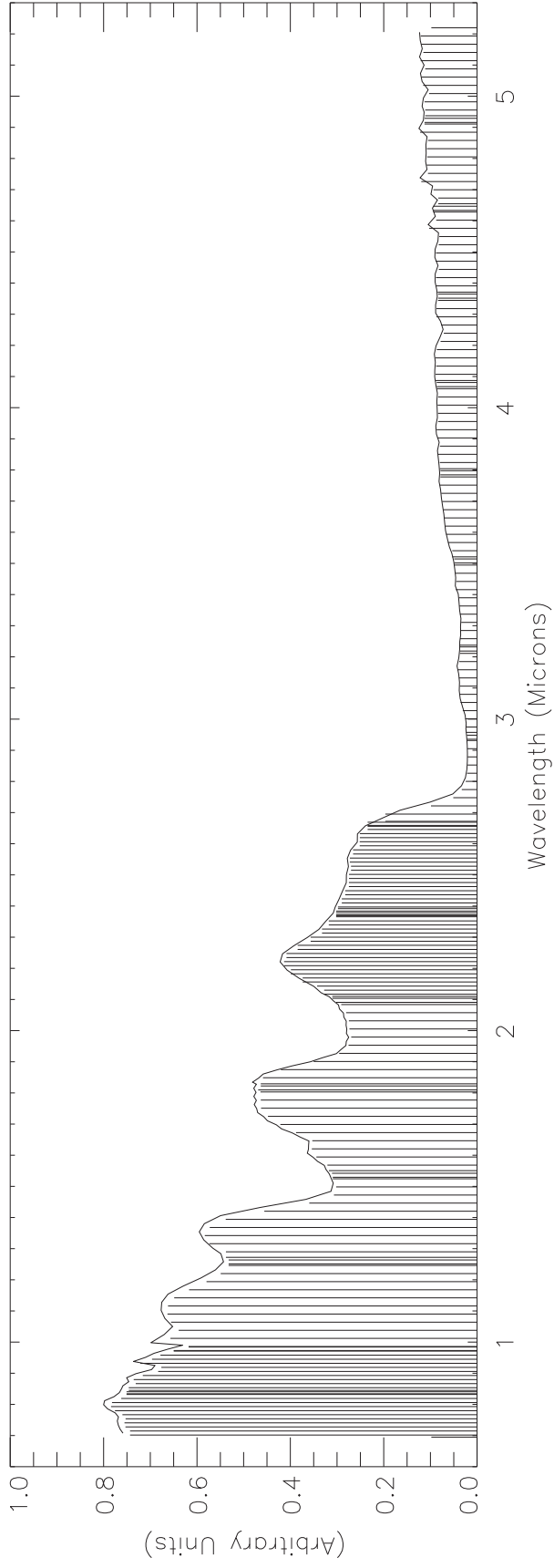
GLM245A.ETB



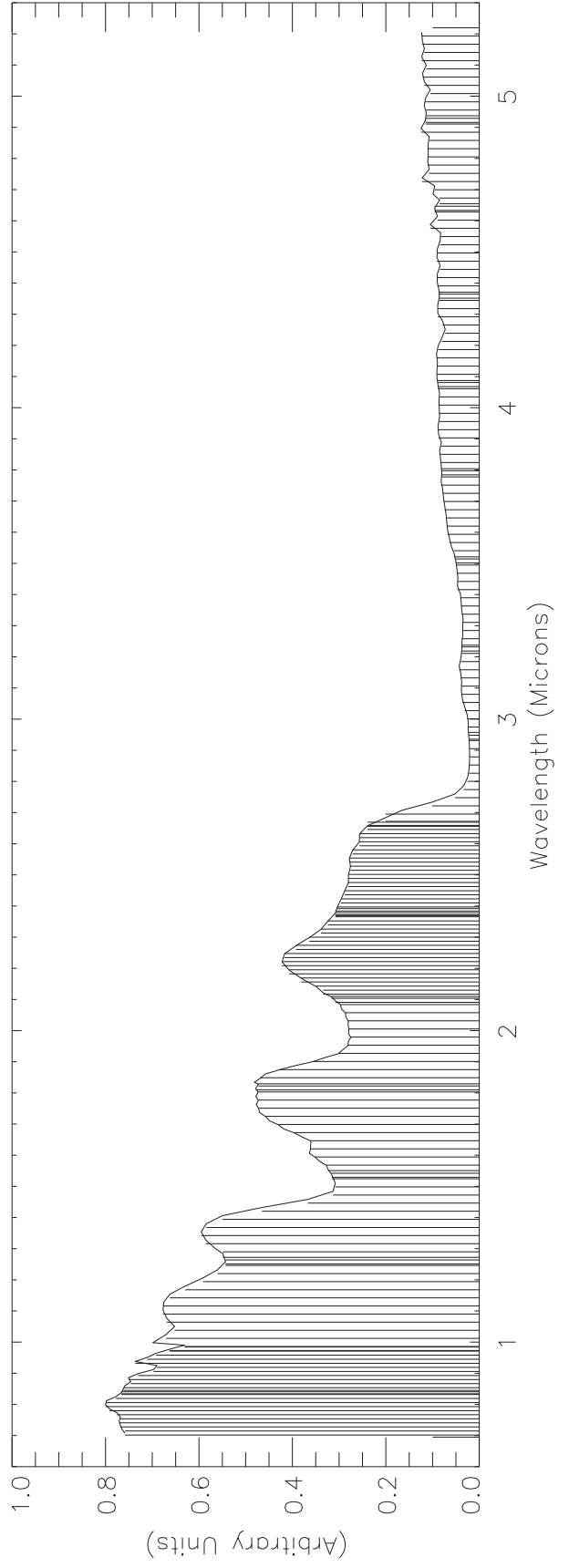
GLM228A.PBK



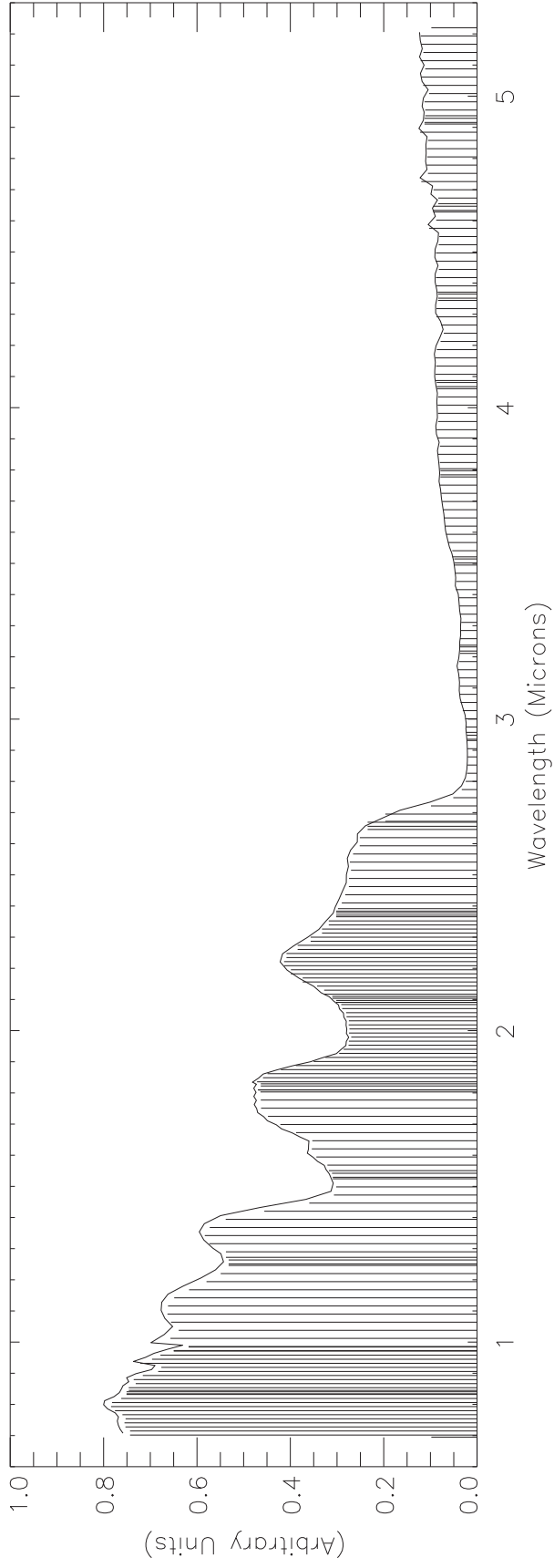
GLM245B.ETB



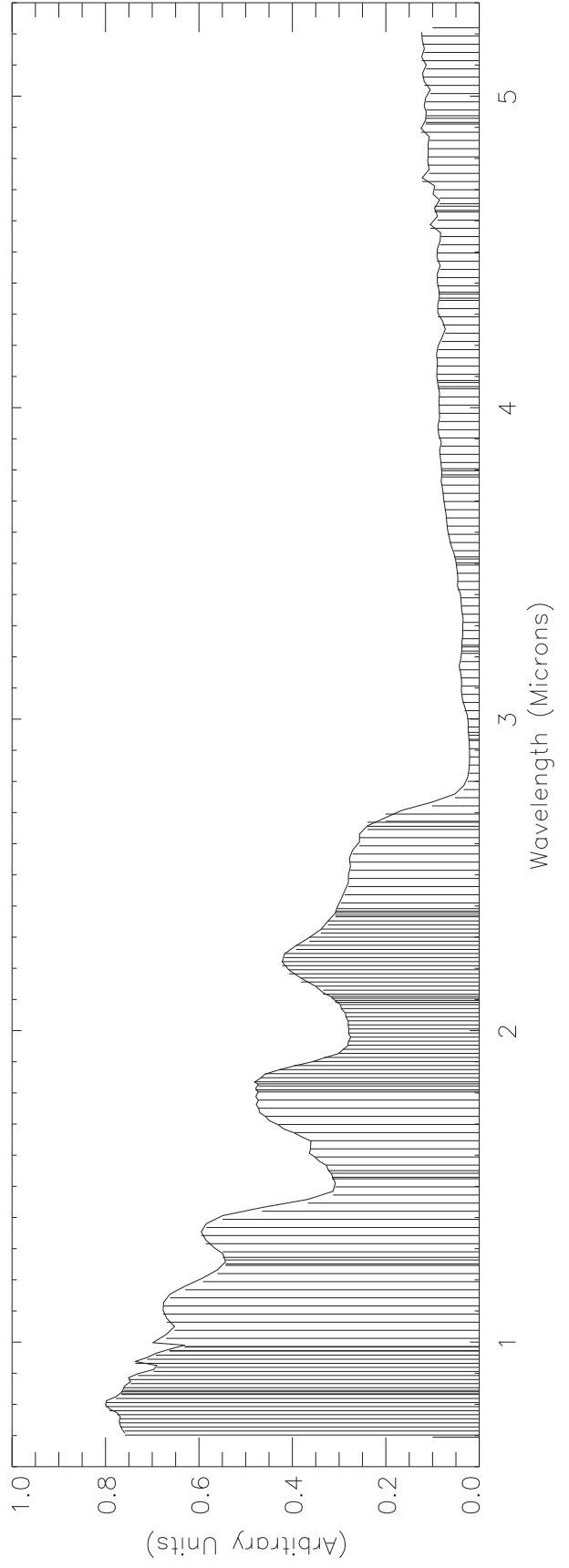
GLM228B.PBK



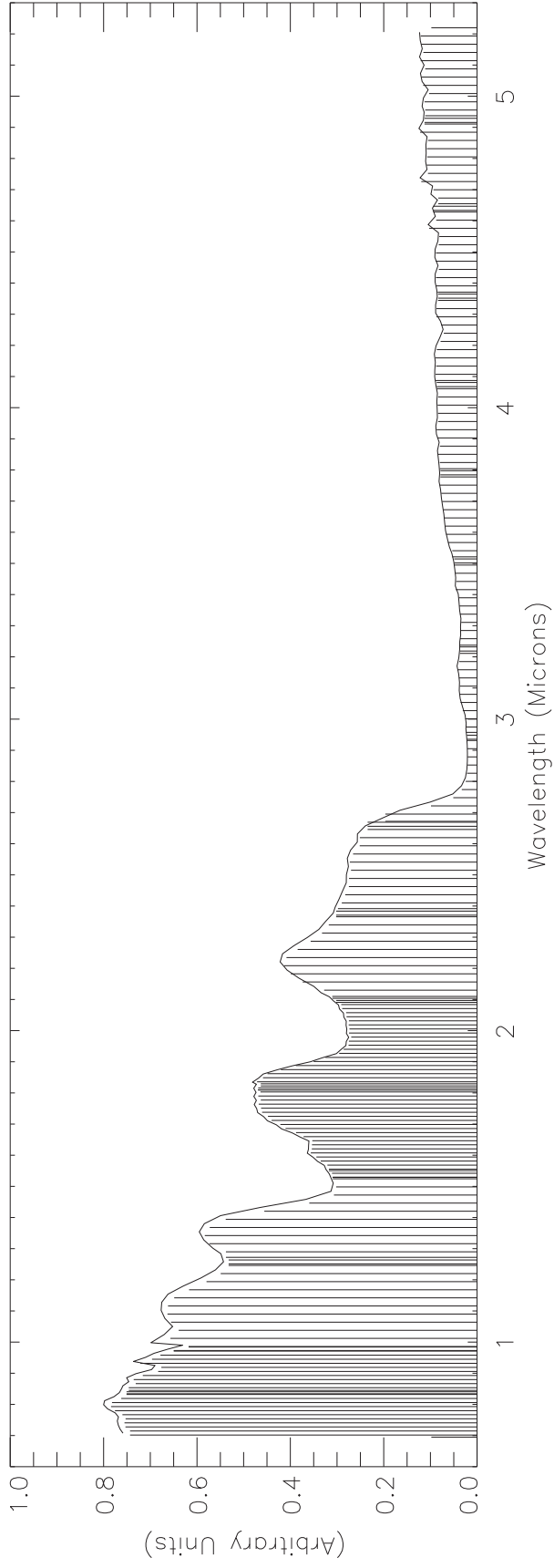
GLM245C.ETB



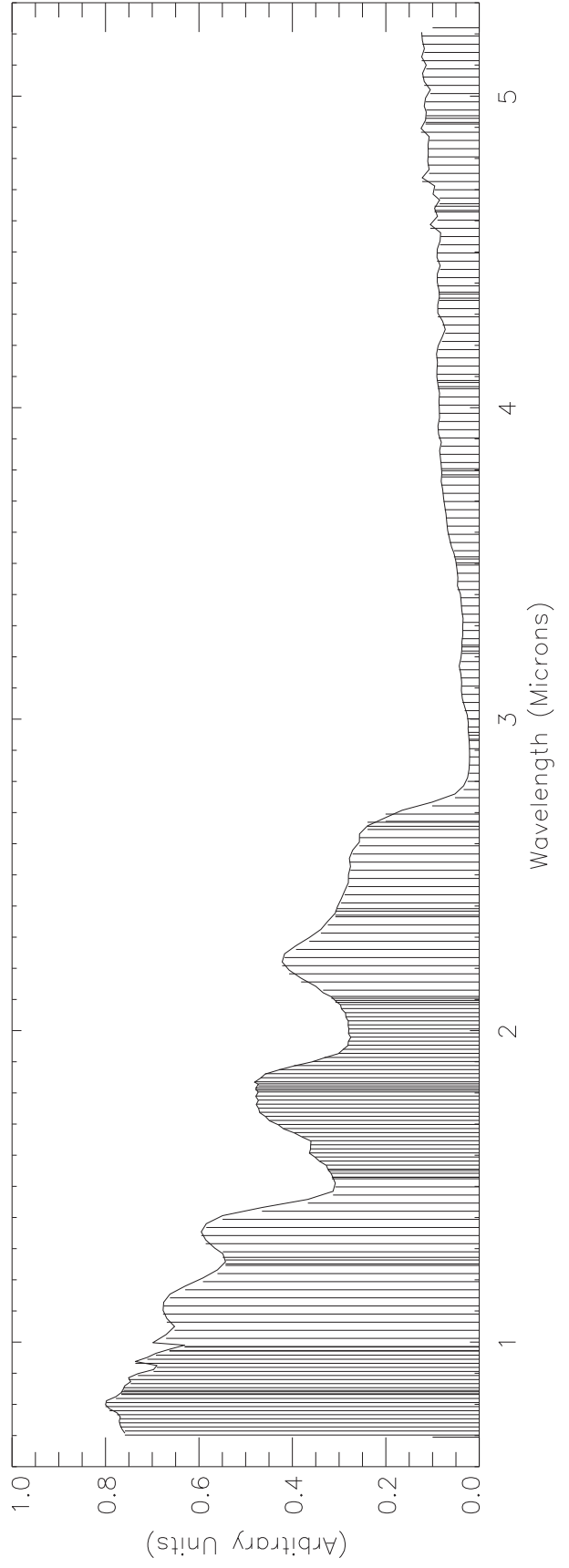
GLM228C.PBK



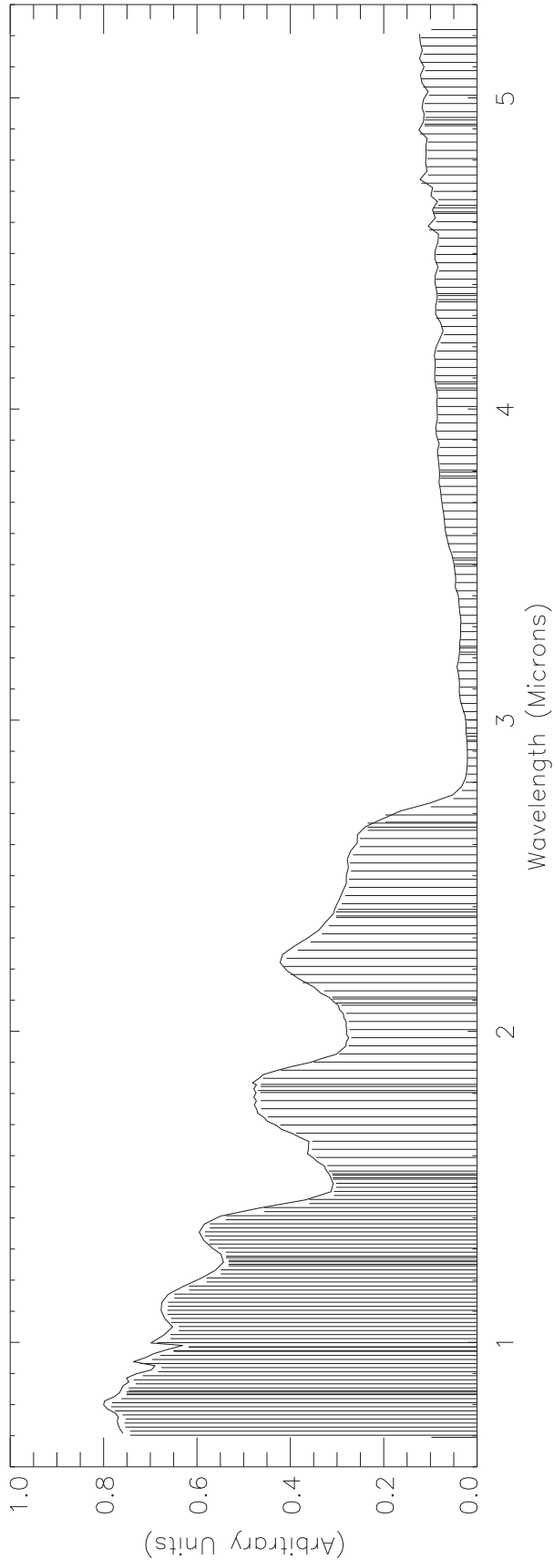
GLM245D.ETB



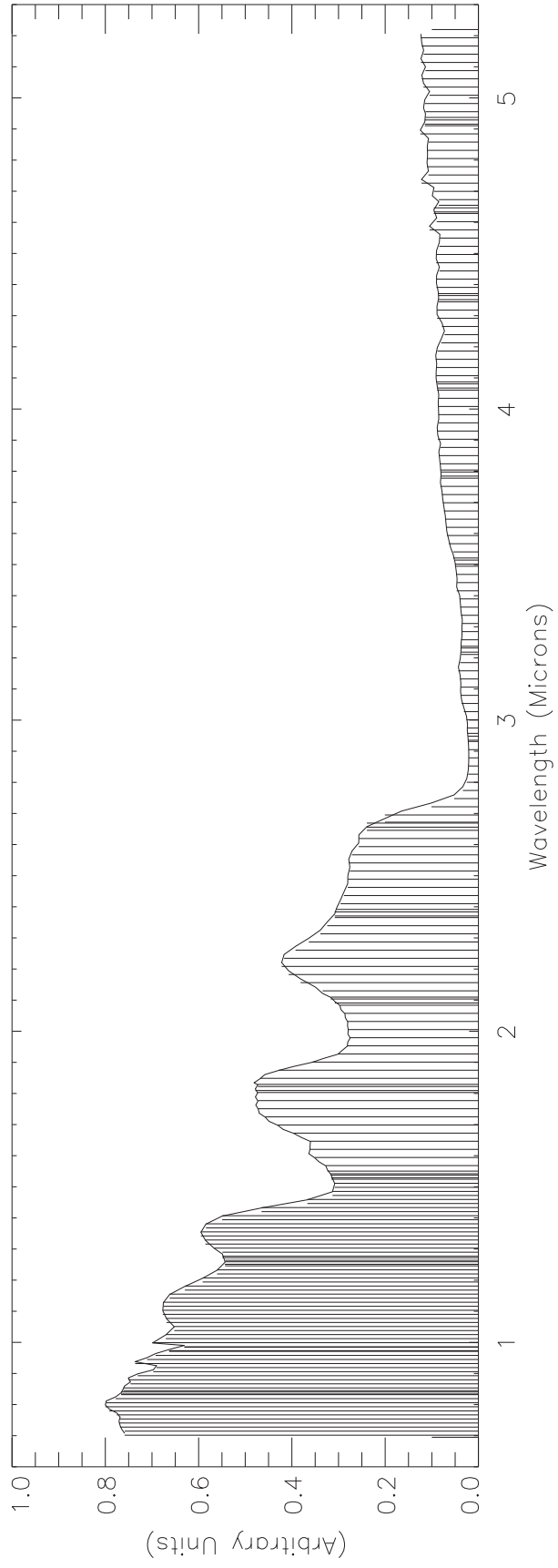
GLM228D.PBK



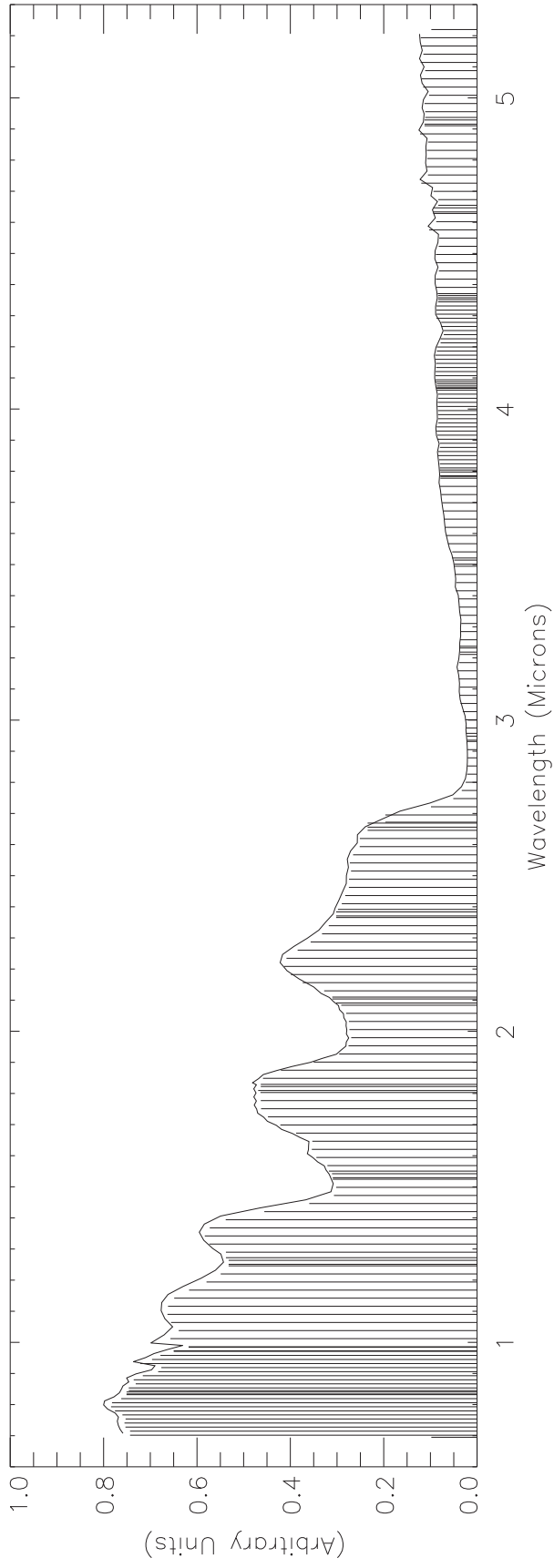
GLM245E.ETB



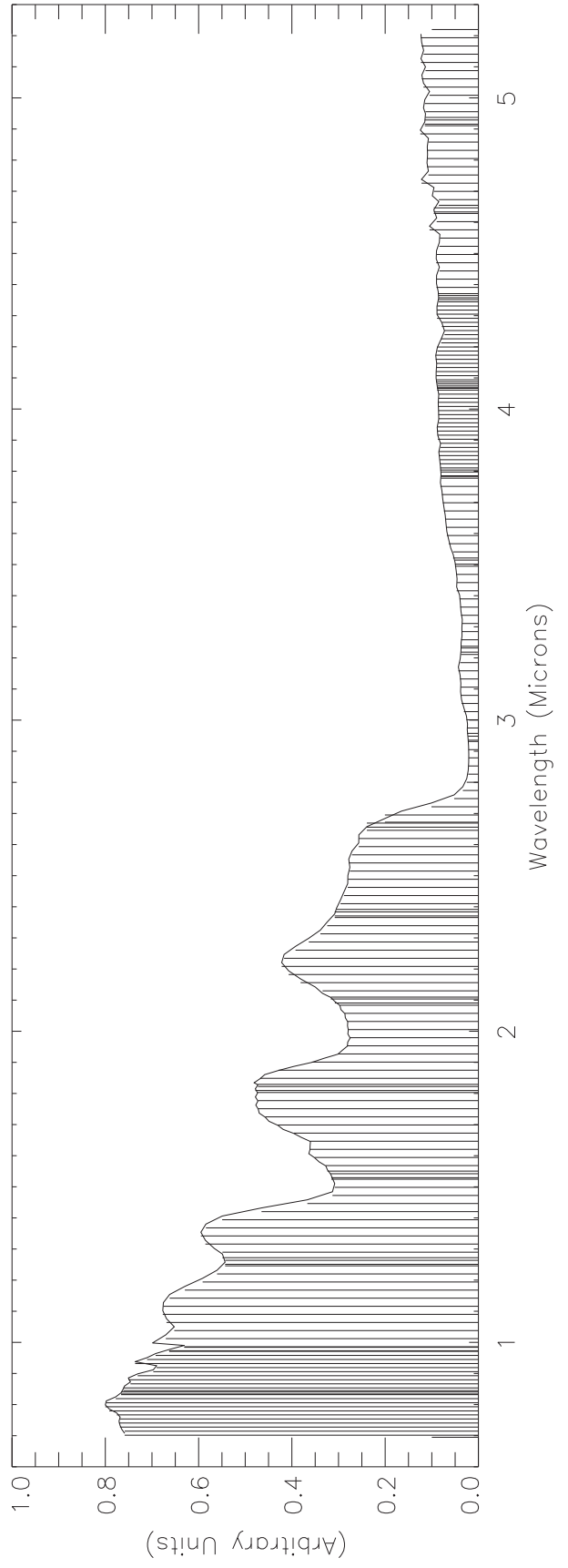
GLM228E.PBK



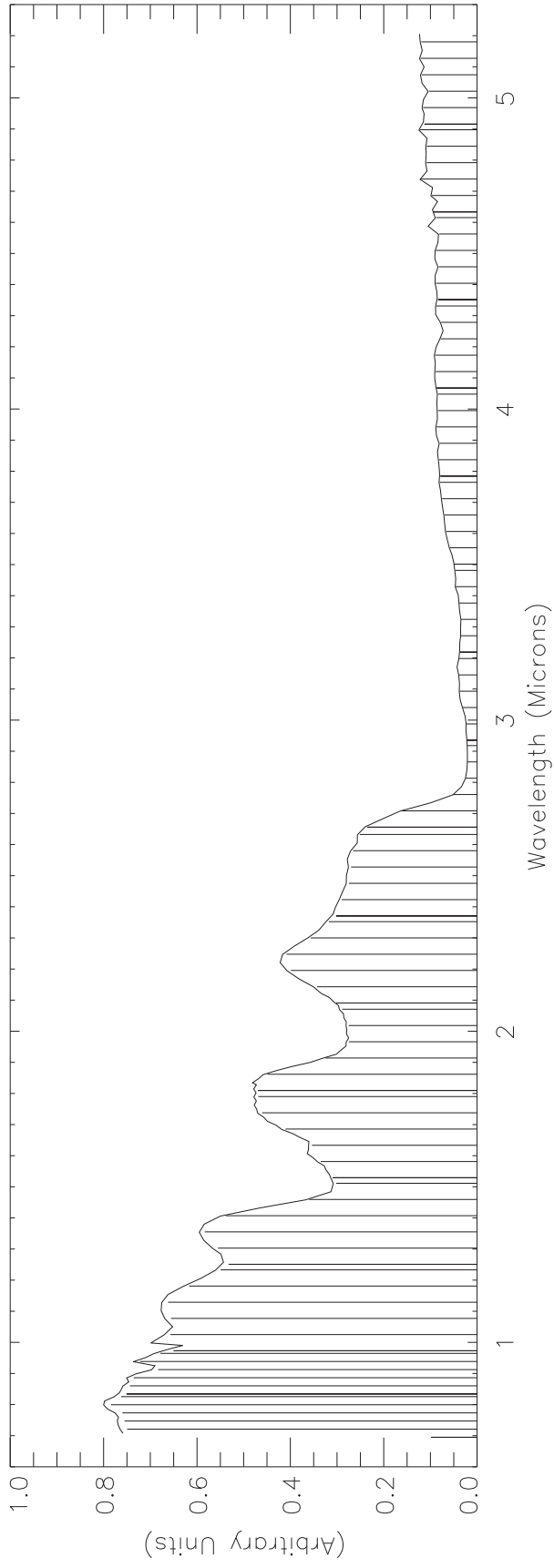
GLM245F.ETB



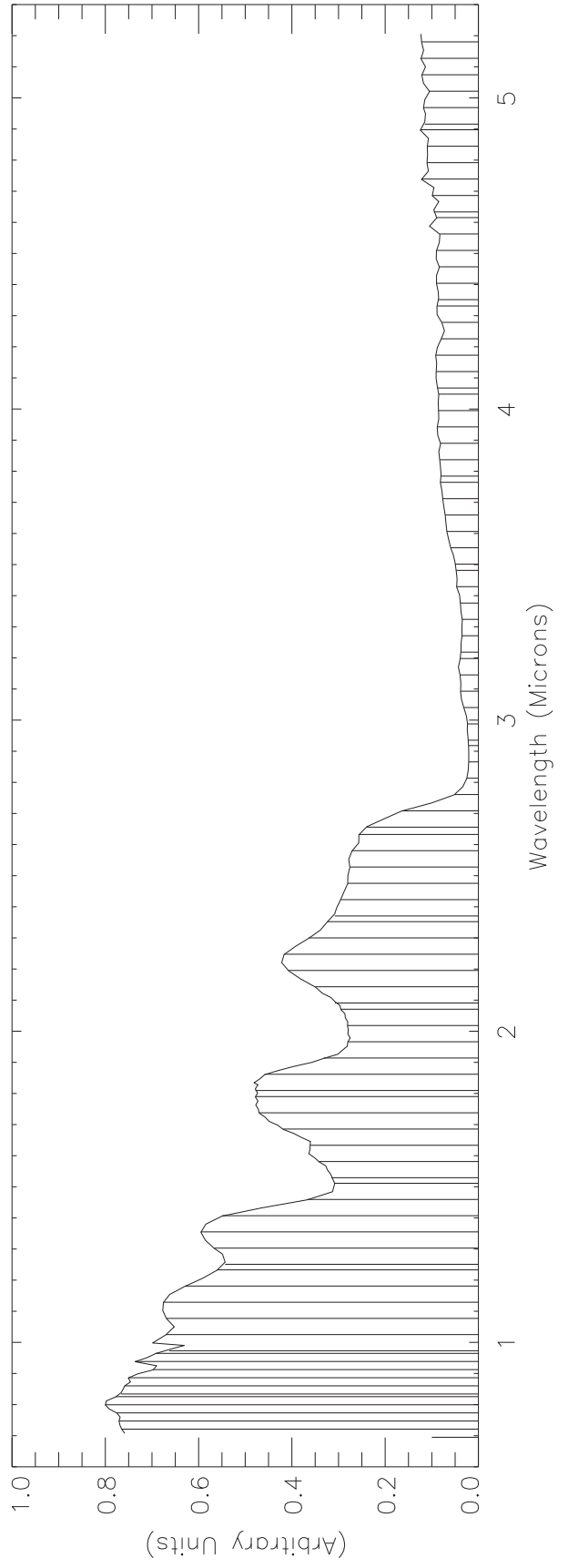
GLM245F.PBK



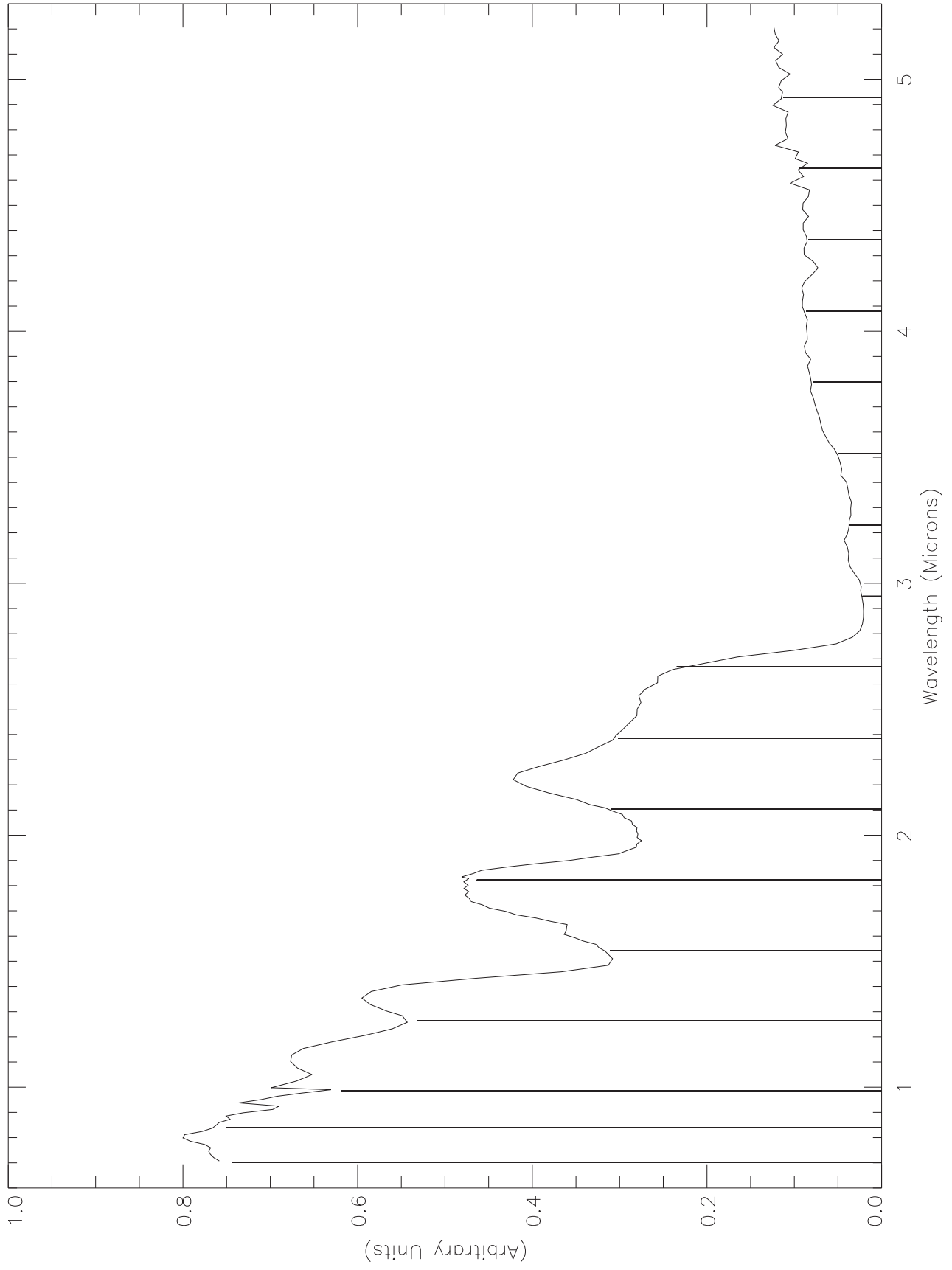
GSM119.ETB



GSM102.PBK

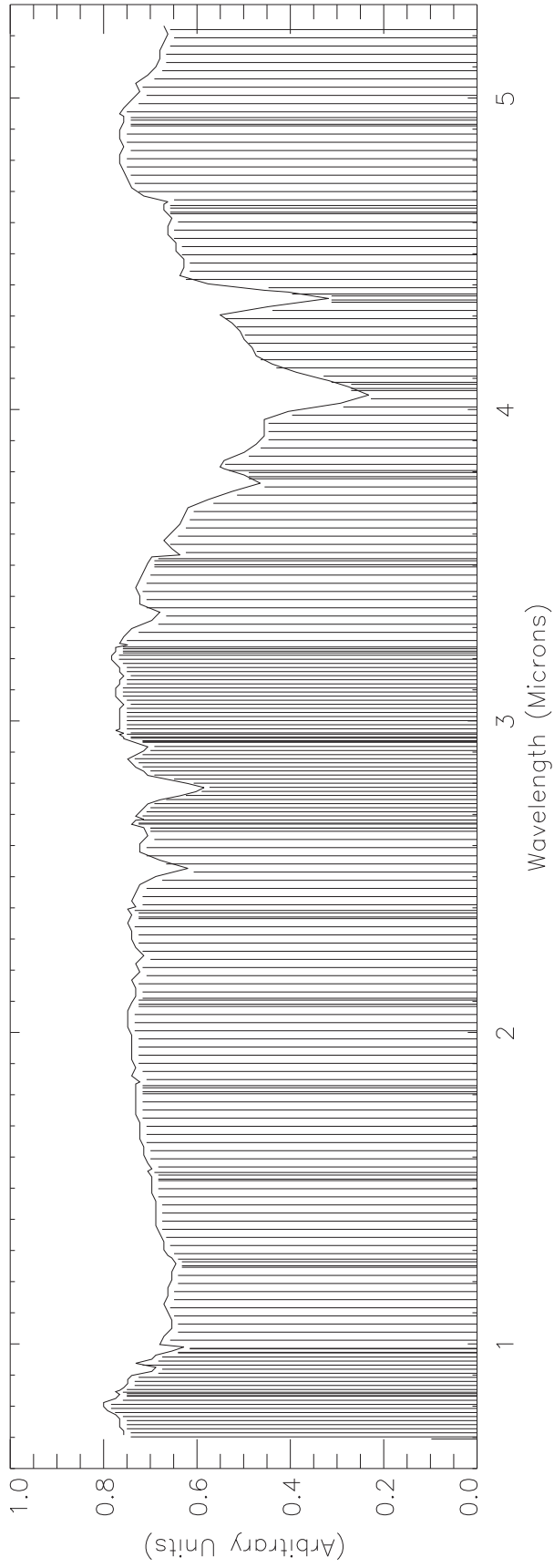


GXS17.ETB

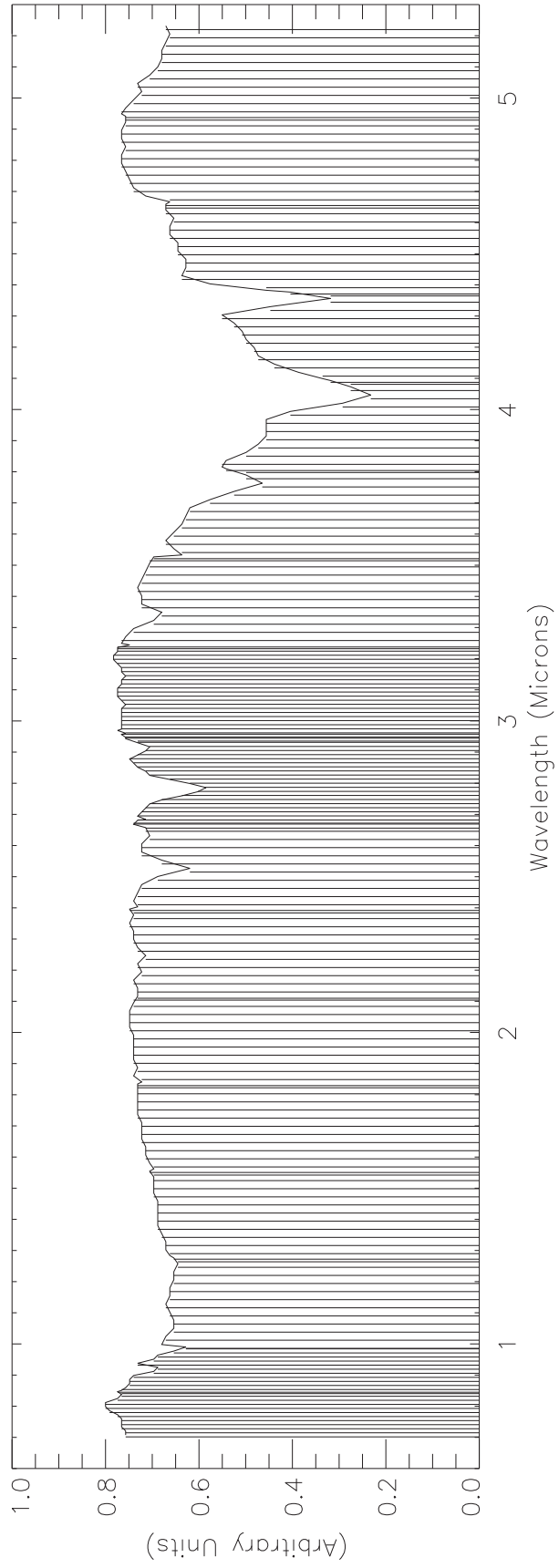




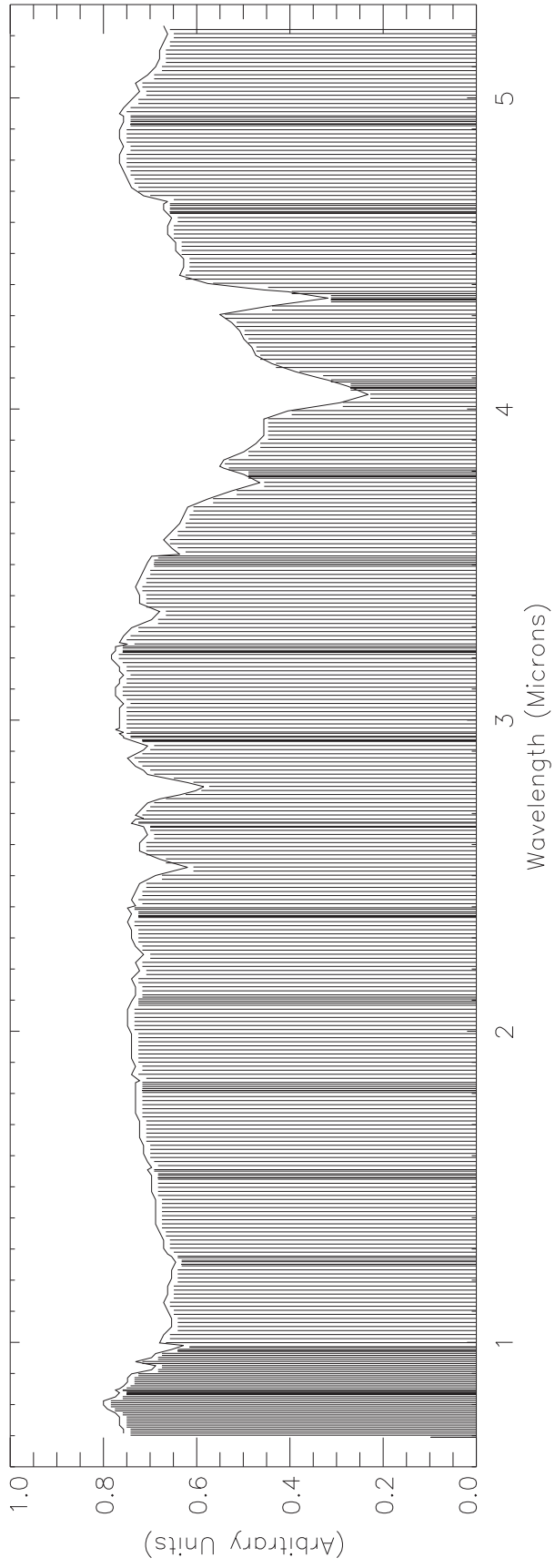
ILM245.ETB



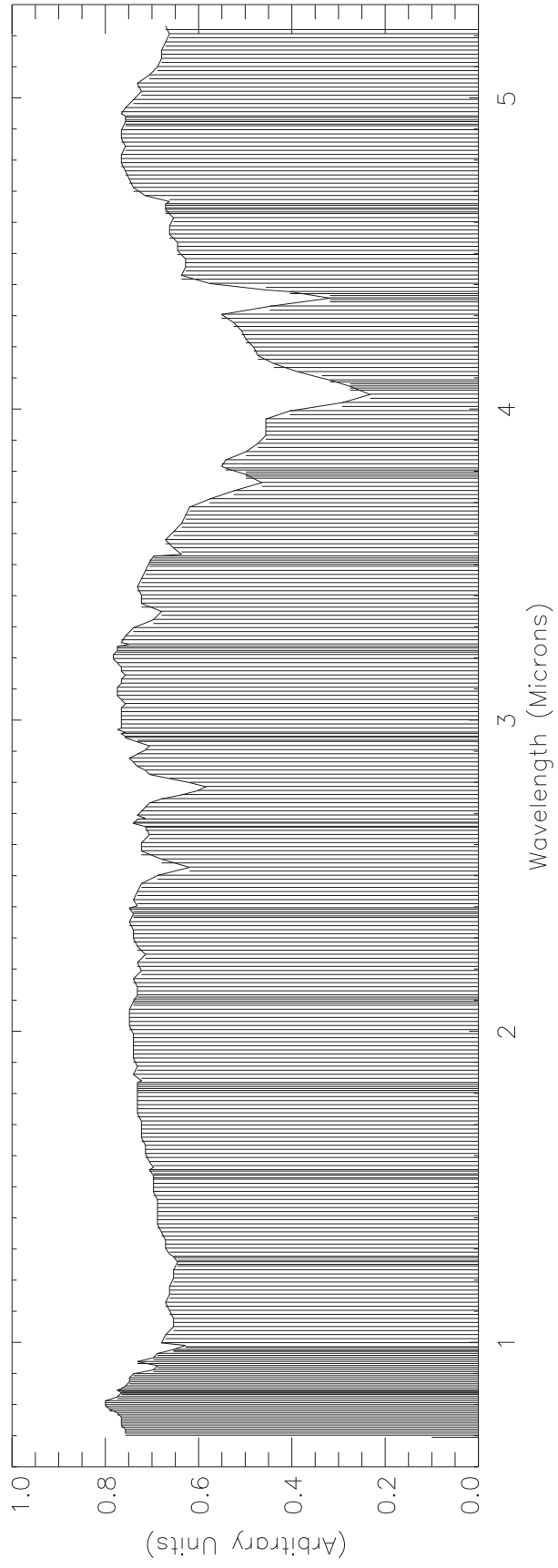
ILM228.PBK



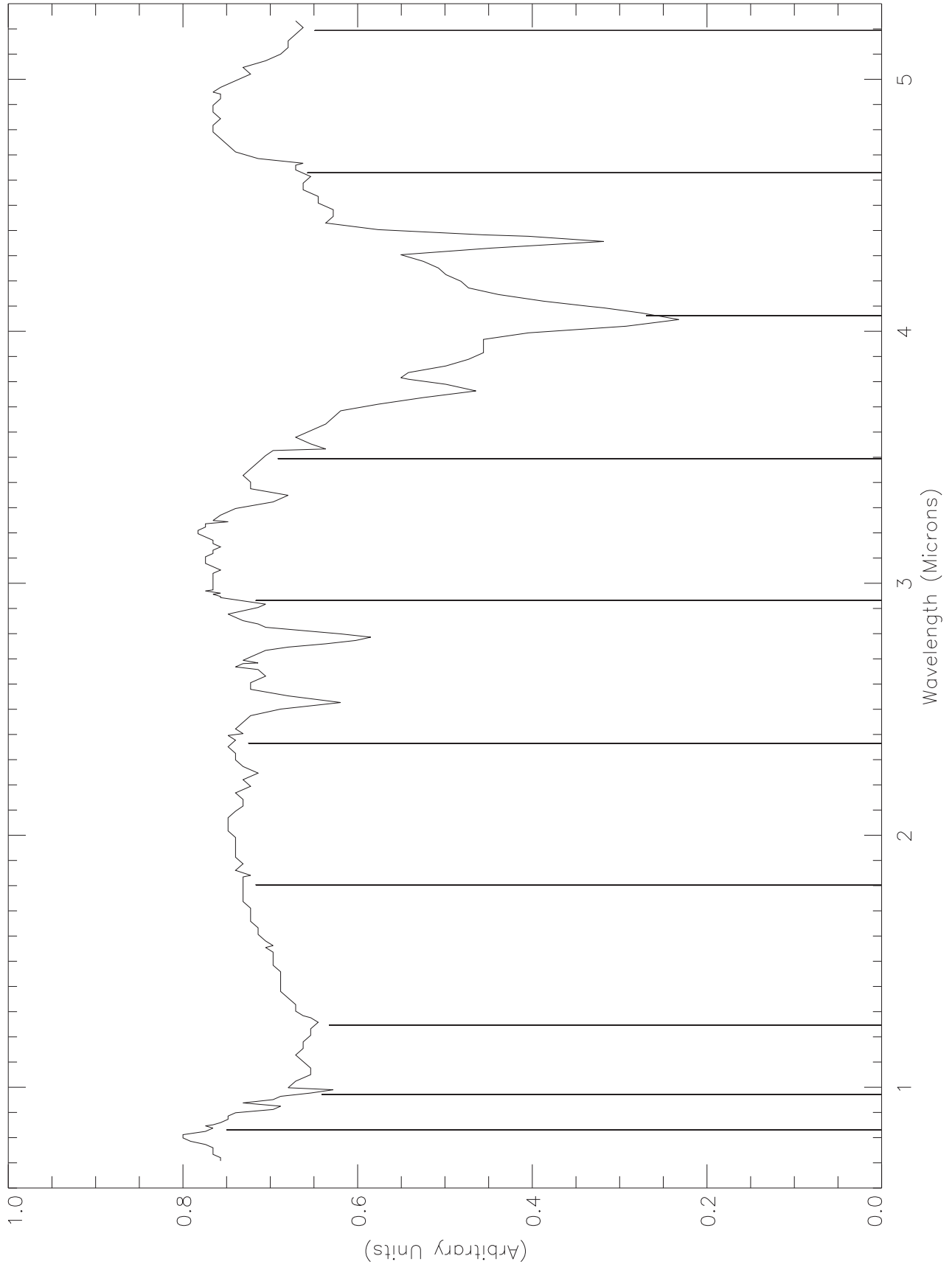
ILM442.ETB

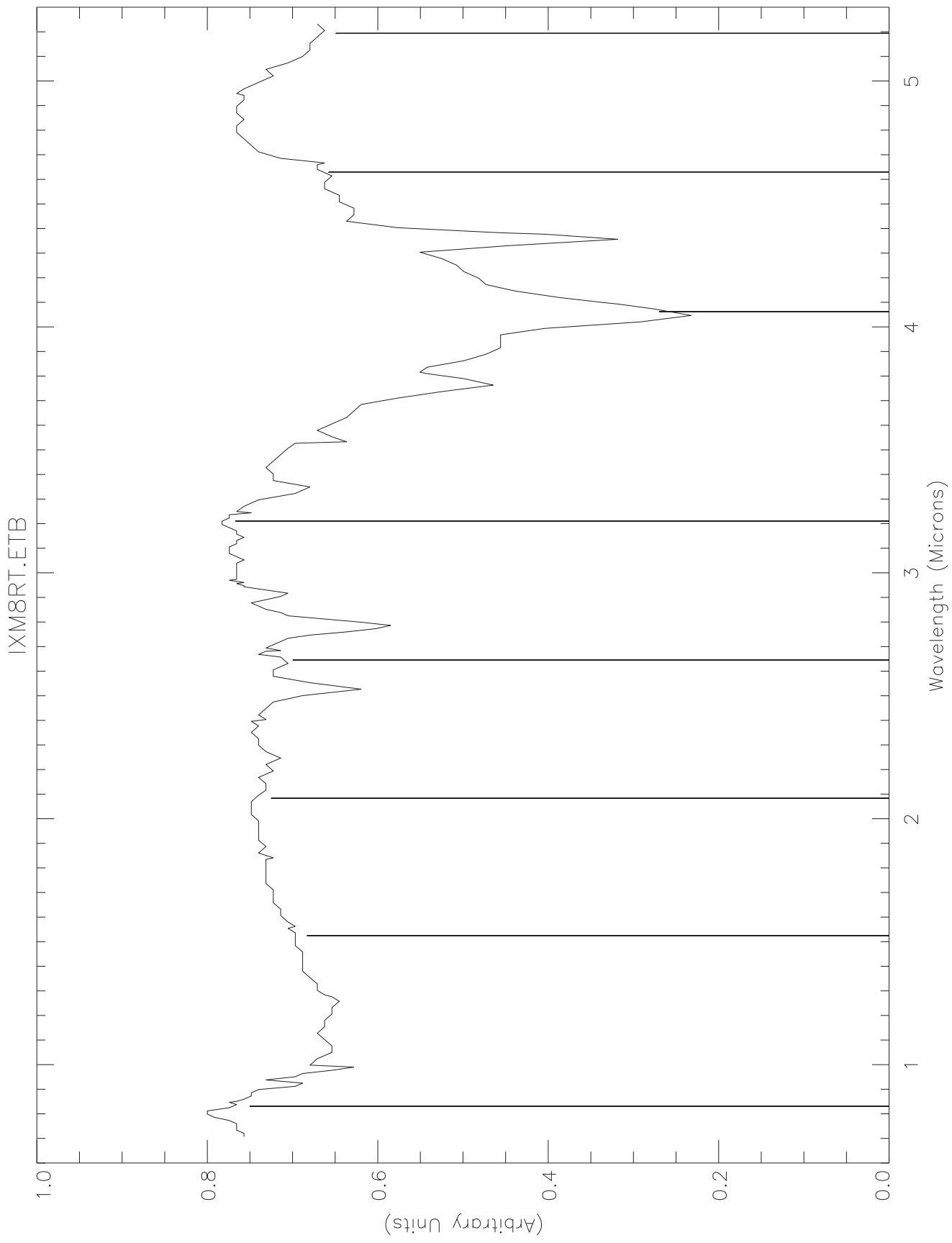


ILM408.PBK

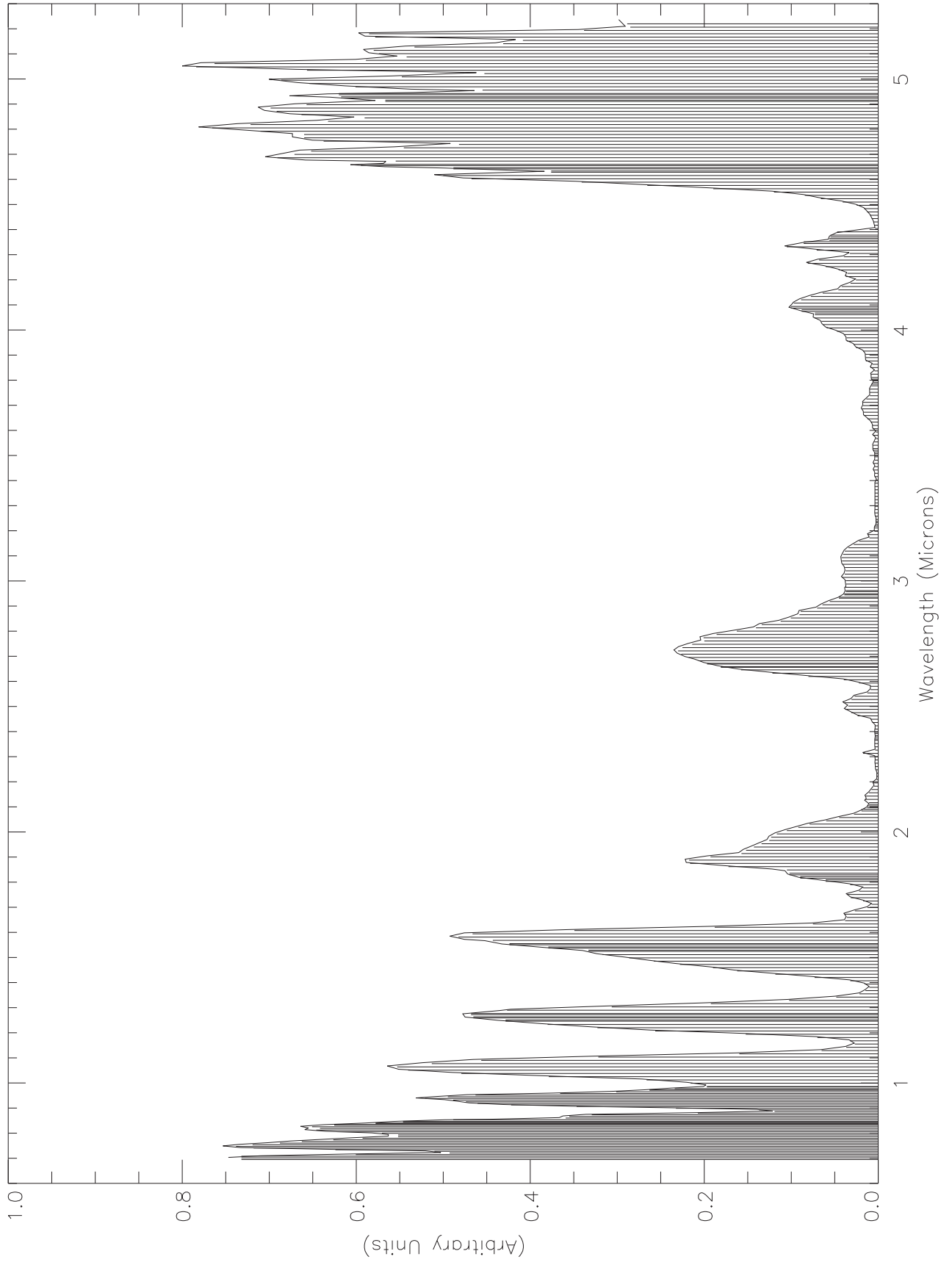


IXM10.ETB

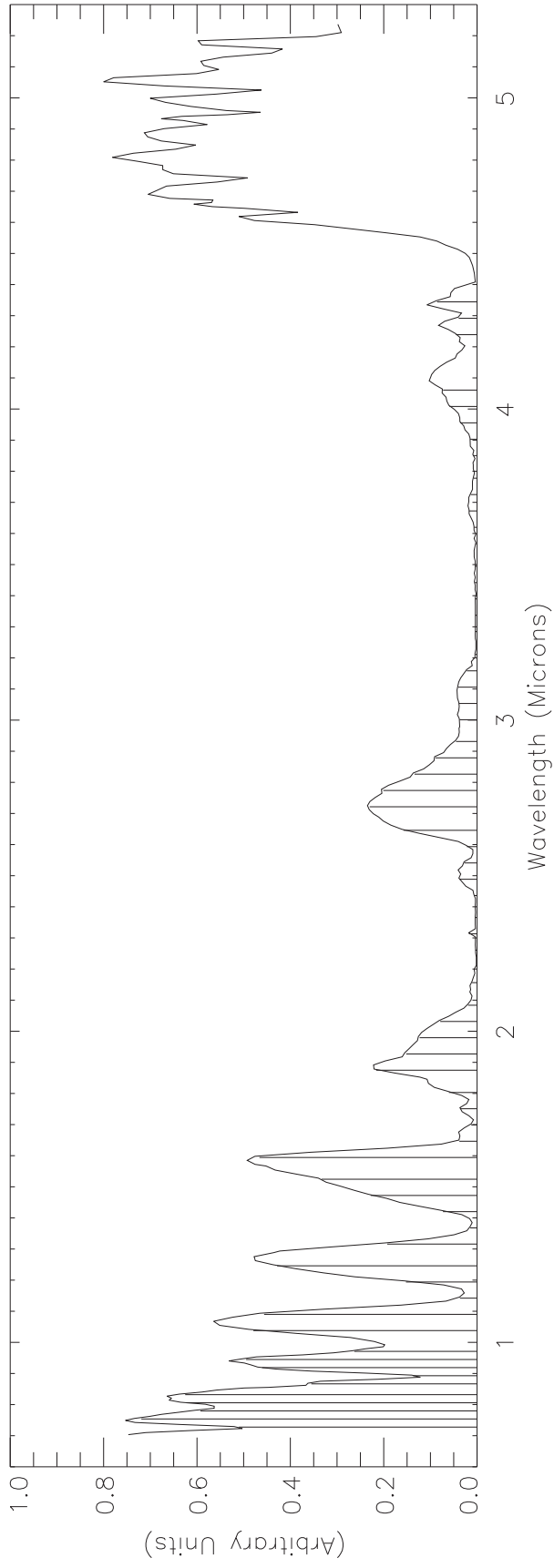




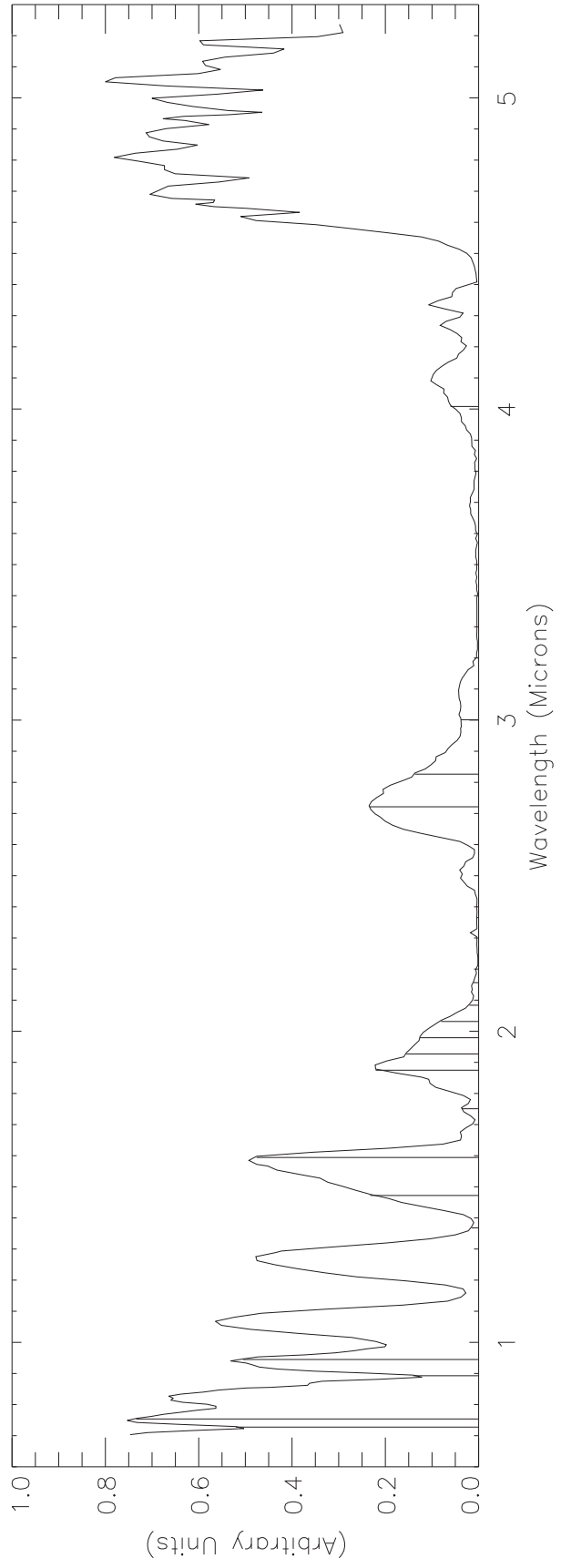
JFE408



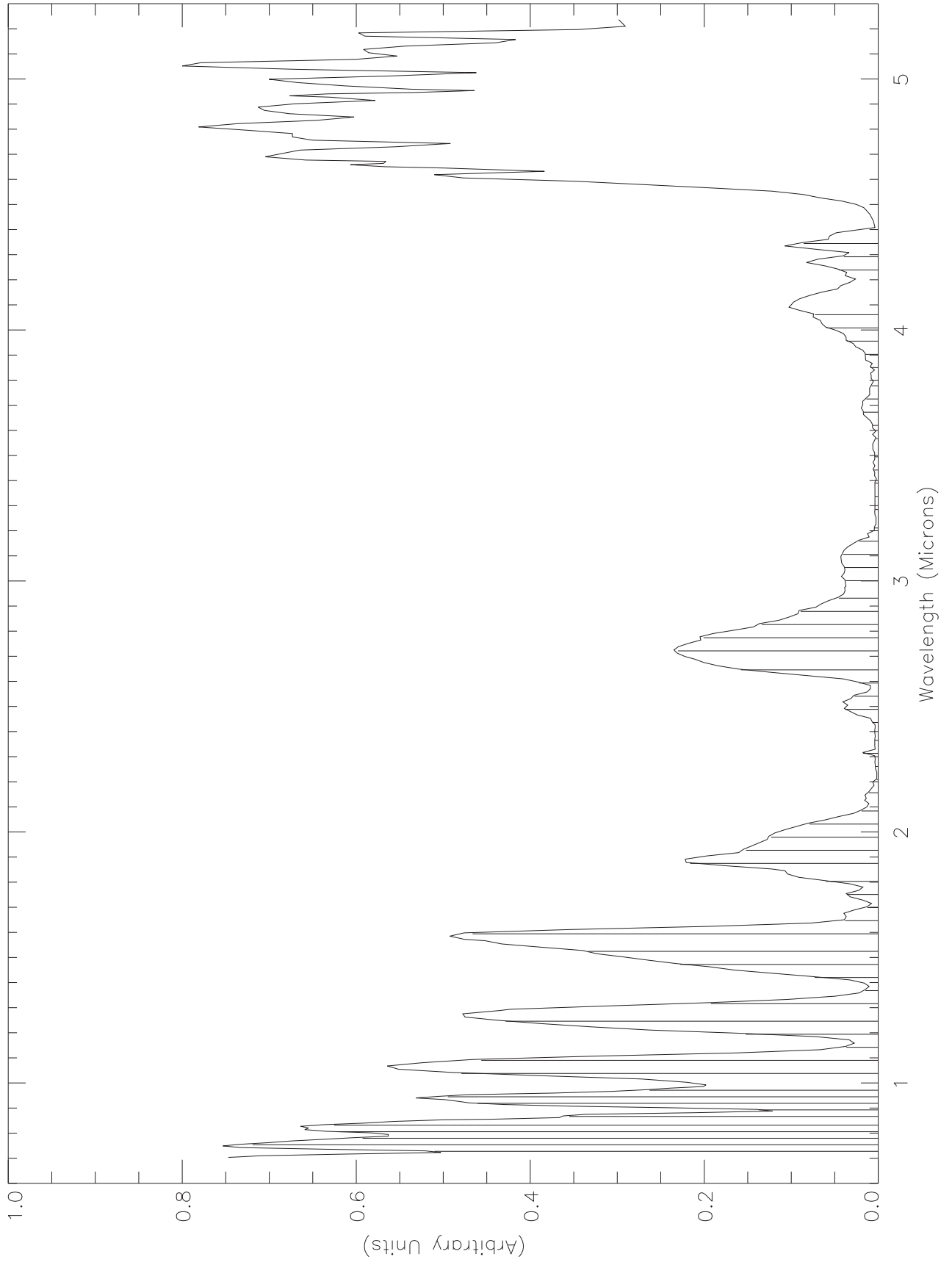
JFT68A.ETB



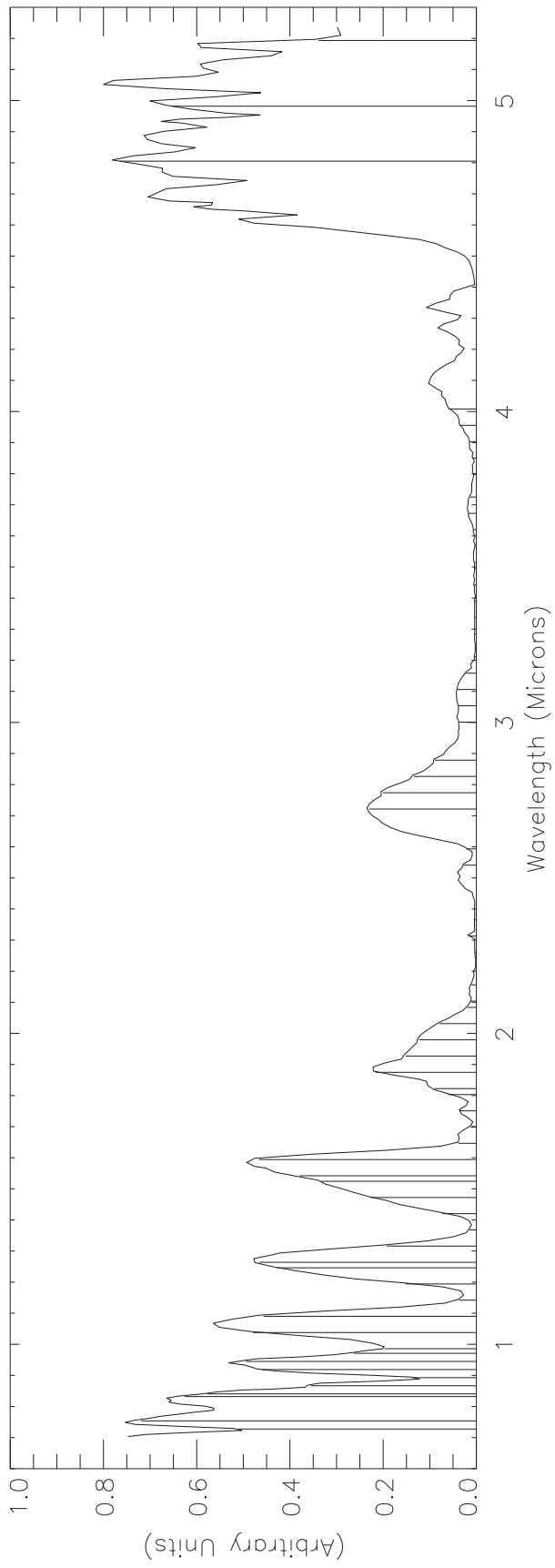
JFT19C.PBK



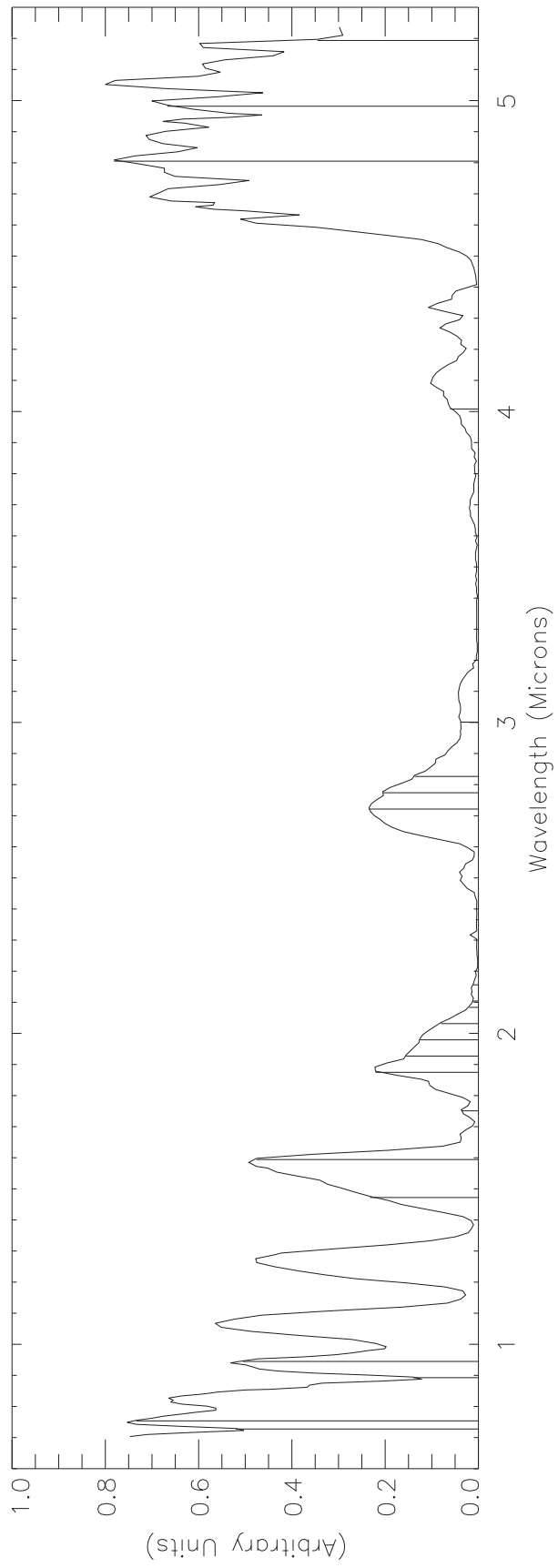
JFT68A.ETB



JFT68C.ETB

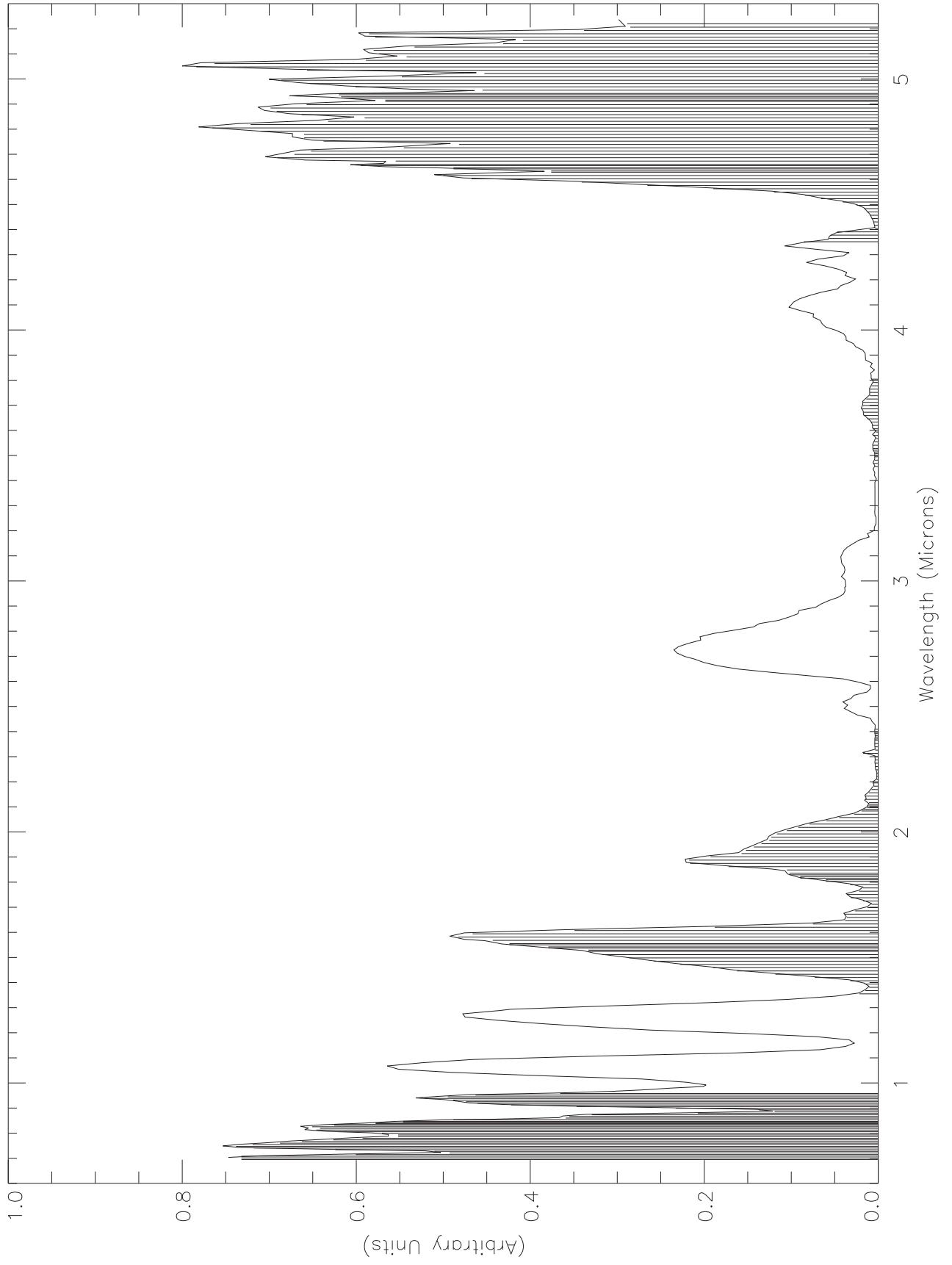


JFT23A.PBK

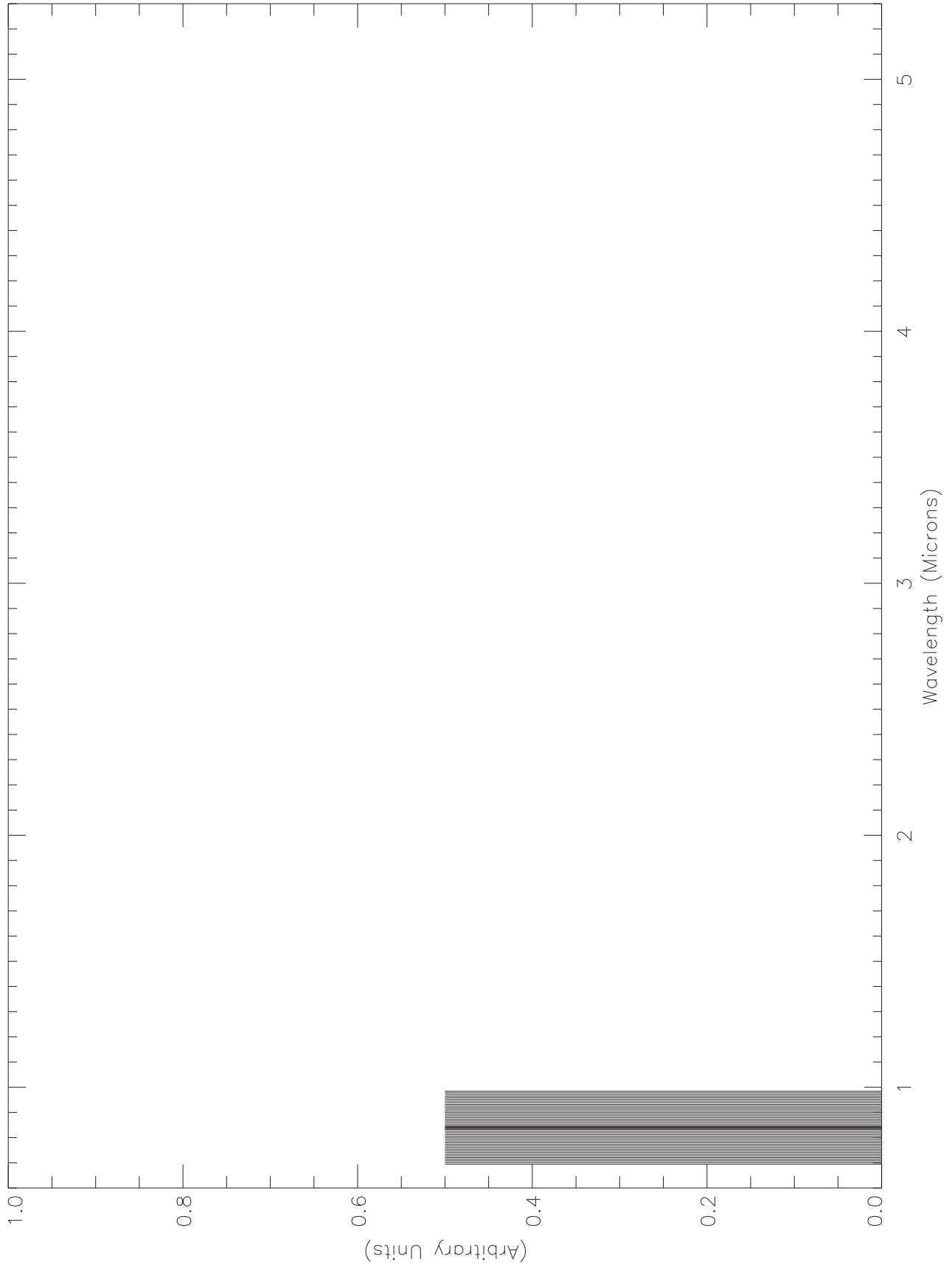




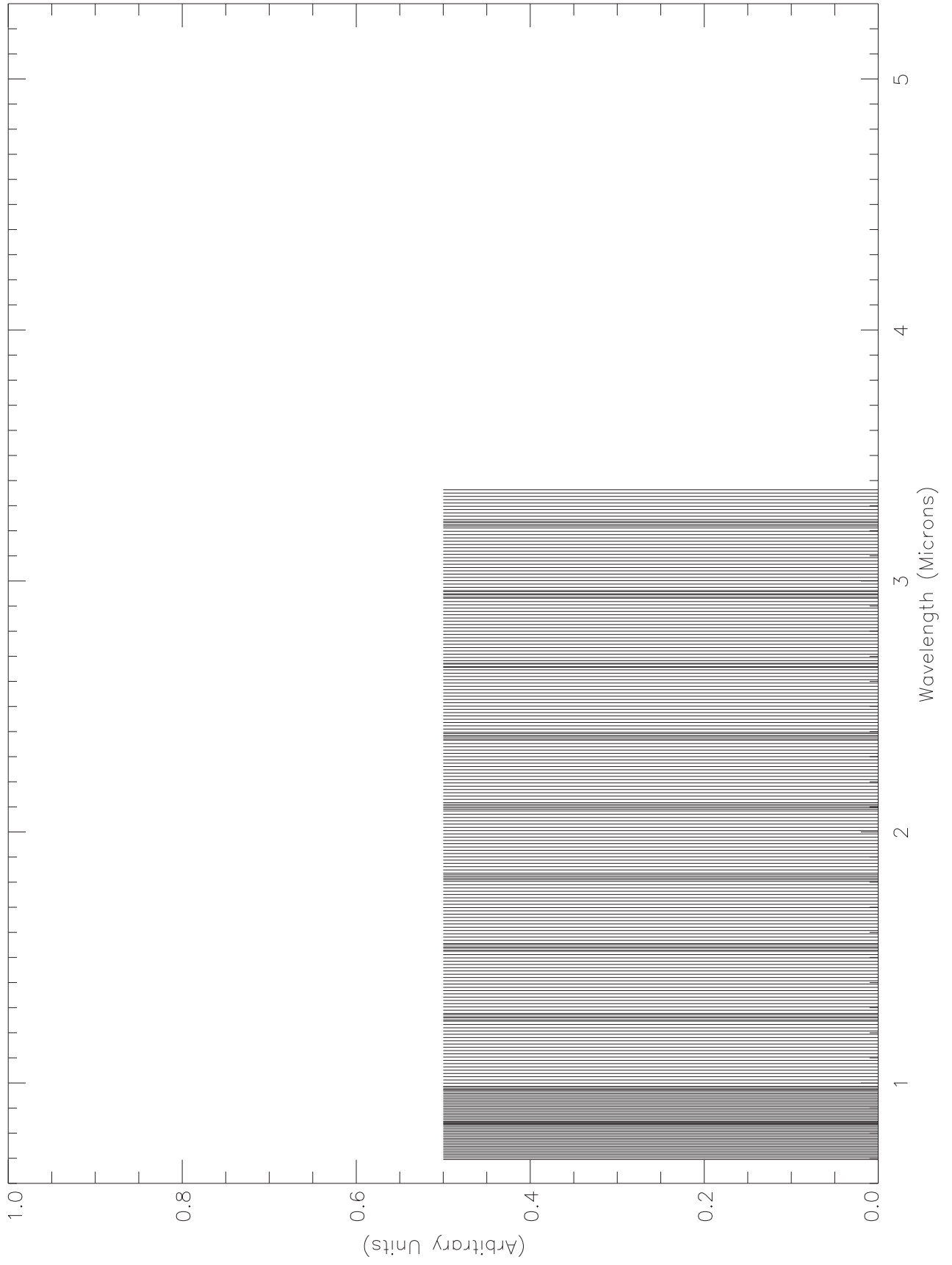
JHT238A.ETB



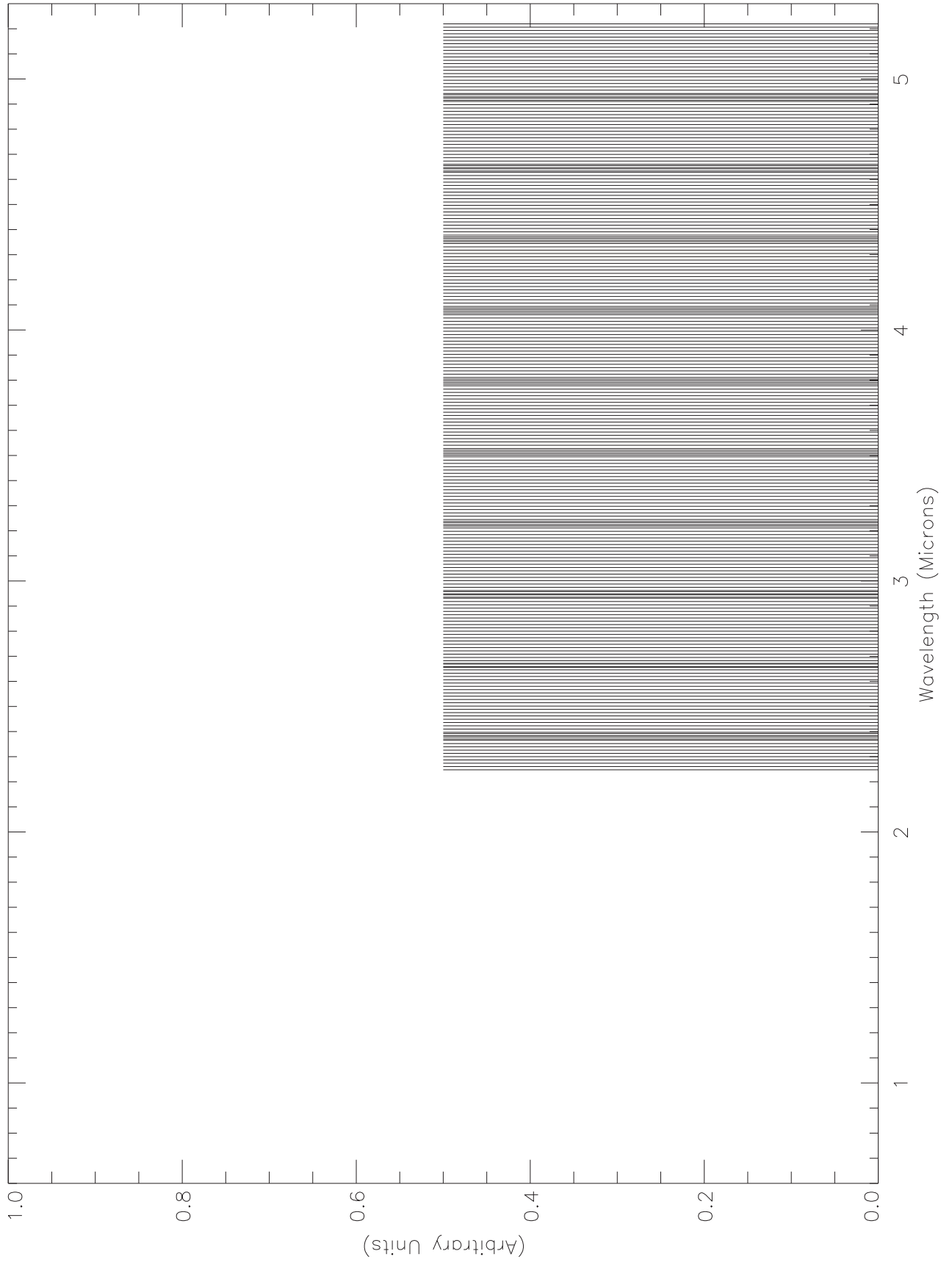
OPCAL48.ETB



PCT252.ETB



RCT252.PBK



## Chapter 7 - Data Return

### Contents

	Sub-Section	Page
7.0	Contents .....	1
7.1	Introduction to Chapter 7 .....	2
7.2	NIMS G1 Observation Geometry Plot .....	3
7.3	NIMS Calibration Geometry Plot .....	4
7.4	Final G1 Playback Model .....	5-6
7.5	Recap of G1 Playback Events .....	7
7.6	Timeline of G1 Playback Events .....	8-9
7.7	G1 NIMS Anomaly Discussion .....	10-12
7.8	NIMS Ungarbling Model .....	13
7.9	NIMS Archived EDRs and CUBEs .....	14
7.10	NIMS Data Formats, Types, Labels and Access ..	15-16
7.11	Understanding the NIMS Mask .....	17

## Introduction to Chapter 7

This chapter is a report on the NIMS data return for the G1 orbit. Due to the low downlink data rates available for Galileo Jupiter Operations and other unforeseen and unpredictable events during the G1 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 G1 orbit was the first time that NIMS data were returned using phase2 CDS playback software. Two main factors dictated the playback of NIMS G1 data. First, the CDS playback software was still under development and not ready for playback of NIMS MPW or LPU data at the start of G1 playback. Second, the NIMS processor was (and still is) prone to halting due to radiation hits to the NIMS phase2 RAM code. The first problem was resolved during G1 playback. The second problem continued to be a problem, but certain measures were taken in later orbits to lessen the effects due to the halting of the NIMS processor.

In this orbit we learned that the NIMS software is prone to radiation 'hits' that presumably alter the RAM code, usually causing the NIMS processor to halt. In G1 the NIMS RAM took at least two 'hits'. The first 'hit' did not halt the processor but caused the data structure in RAM to get out of phase with the spacecraft timing so that the data were returned in a 'garbled' state. Data during this time period were almost completely recoverable. The second 'hit' halted the NIMS processor.

The plots on the pages 3 and 4 show the geometry of the NIMS G1 observations using a north trajectory pole projection. The 'returned' observations are in Bold characters and the 'non-returned' in gray.

The spreadsheets on pages 5 and 6 summarize the 'final' playback model for the 'returned' data.

The text on page 7 give a 'recap' of the G1 playback events which affected which observations were returned.

A Timeline of G1 playback events is on pages 8 and 9.

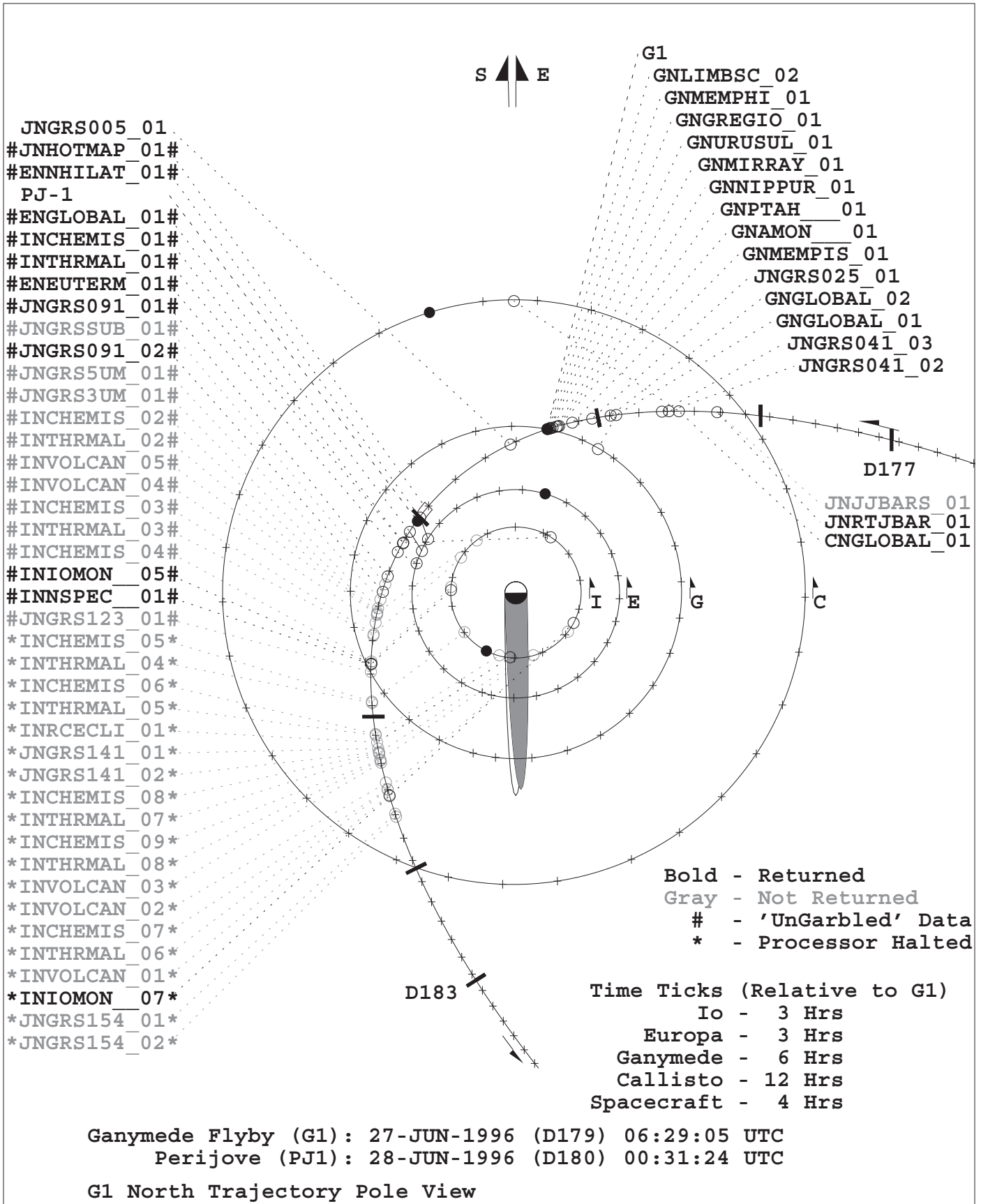
The text on pages 10 to 12 describe the G1 NIMS Anomaly in which the NIMS data were returned in a 'garbled' state.

The text on page 13 gives a description of the NIMS 'ungarbling' model.

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 G1 OBSERVATIONS

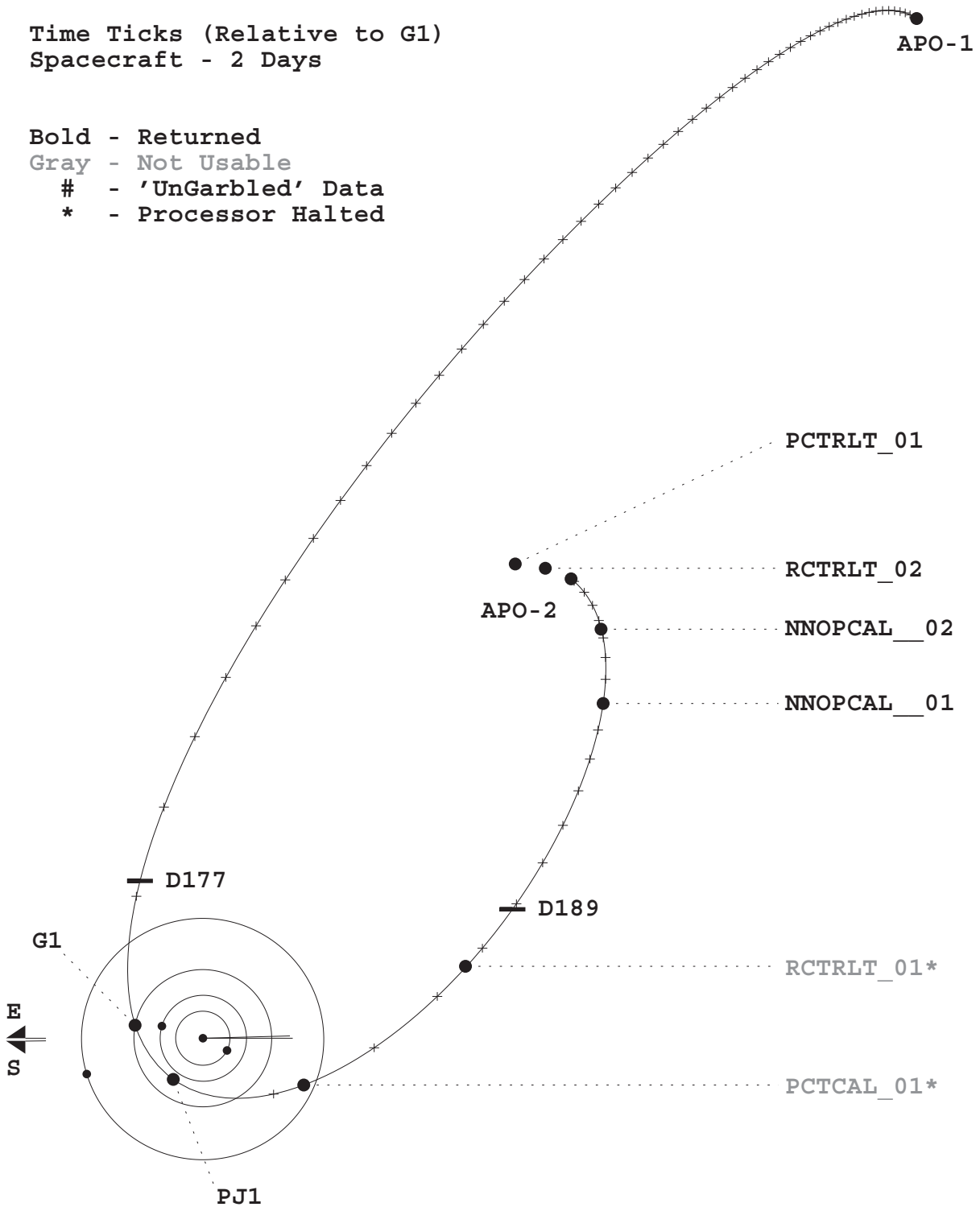


# NIMS G1 CALIBRATIONS

Ganymede Flyby (G1): 27-JUN-1996 (D179) 06:29:05 UTC  
 Perijove (PJ1): 28-JUN-1996 (D180) 00:31:24 UTC

Time Ticks (Relative to G1)  
 Spacecraft - 2 Days

**Bold** - Returned  
 Gray - Not Usable  
 # - 'UnGarbled' Data  
 \* - Processor Halted



G1 North Trajectory Pole View, Apoapsis to Apoapsis



# NIMS G1 DATA RETURN

August 30, 1996

Activity ID	Observation Title	Mode	Gain	Record Format	NIMS Edit Table	NIMS PB Table	Extra Det	Grating Start	Grating Offset
G1JNRTJBAR01-	R/T Jupiter Jail Bars	LM	2	R/T	G1JFE408			0	4
G1CNGLOBAL01-	Callisto Global Composition Map	LM	4	LPU	G1CLM245	G1CLM228	11,12	0	4
G1JNGRS04102-	GRS 41 Phase #2	SM	2	LPU	G1JFT68C	G1JFT23A		1	4
G1JNGRS04103-	GRS 41 Phase #3	SM	2	LPU	G1JFT68C	G1JFT23A		1	4
G1GNGLOBAL01-	GANYMEDE GLOBAL SURFACE MAP, part 1	LM	2	LPU	G1GLM245D	G1GLM228D	5,6	0	4
G1GNGLOBAL02-	GANYMEDE GLOBAL SURFACE MAP, part 2				G1GLM245D	G1GLM228D			
G1JNGRS02501-	GRS 25 Phase #1	SM	2	LPU	G1JFT68A	G1JFT19C		1	4
G1GNMEMPIS01-	Memphis Facula Furrows/Palimpsest	LM	3	LPU	G1GLM245F	G1GLM228F	13,14	0	4
G1GNAMON 01-	AMON Bright rayed crater/groove terrain	LM	2	LPU	G1GLM245E	G1GLM228E	3,4	0	4
G1GNPTAH 01-	RAYED CRATER PTAH	LM	2	LPU	G1GLM245C	G1GLM228C	6,7	0	4
G1GNIPPUR01-	NIPPUR SULCUS (furrows/dark/groove)	LM	3	LPU	G1GLM245B	G1GLM228B	7,8	0	4
G1GNMIRRAY01-	Mir a dark rayed crater	LM	3	LPU	G1GLM245A	G1GLM228A	11,12	0	4
G1GNURUSUL01*	NIMS ride with SSI on Urus sulcus	SM	3	IM4	G1GSM119	G1GSM102		0	4
G1NGREGIO01*	NIMS ride with SSI on Galileo Regio	SM	3	IM4	G1GSM119	G1GSM102		0	4
G1GNMEMPHI01*	NIMS ride with SSI on Memphis	SM	3	HIS	G1GSM119	G1GSM102		0	4
G1GNLIMBSC02*	Limb Scan for atmosphere	XS	4	MPW	G1GXS17	G1GXS17		1	4
G1JNGRS00501-	GRS 5 Phase #1	SM	2	LPU	G1JFT68A	G1JFT19C		1	4
G1JNHOTMAP01-	HOTMAP	LM	2	LPU	G1JHT238A	G1JHT238A		0	4
G1ENNHILAT01-	EUROPA NORTH HIGH LATITUDE COVERAGE	LM	2,3	LPU	G1ELM245	G1ELM228	6,7	0	4
G1ENGLOBAL01*	Europa coordinated science NIMS/SSI	XM	2	HCA	G1EXM17	G1EXM17		0	4
G1INCHEMIS01-	MONITORING OF IO'S DAYSIDE	LM	2	LPU	G1ILM245	G1ILM228	9,10	0	4
G1INTHRMAL01-	MONITORING OF IO'S NIGHTSIDE	XM	2	LPU	G1IXM10	G1IXM10		21	4
G1ENEUTERM01*	Europa Terminator SSI ride-along	XM	2	IM4	G1EXM10	G1EXM10		21	4
G1JNGRS09101-	GRS 91 Phase #1	SM	2	LPU	G1JFT68A	G1JFT68A		1	4
G1JNGRS09102-	GRS 91 Phase #2	SM	2	LPU	G1JFT68A	G1JFT68A		1	4
G1INIOMON 05-	R/T Io Monitoring	XM	2	R/T	G1IXM8RT			21	4
G1INNSPEC 01-	NIGHTSIDE SPECTRA AT HIGH RESOLUTION	LM	4	MPW	G1ILM442	G1ILM408		0	4
G1NNNOPCAL01	R/T Opcal 01	LM	4	R/T	G1OPCAL48			0	4
G1NNNOPCAL02	R/T Opcal 02	LM	4	R/T	G1OPCAL48			0	4
G1NNRCRTL02	R/T RCT Calibration	LM	1	R/T	G1RCT252			0	4
G1NNPCTRLT01	R/T PCT Calibration	LM	4	R/T	G1PCT252			0	4

1/13/04

J. Shirley

# NIMS G1 DATA RETURN

August 30, 1996

Activity ID	Obs. Cost	Obs. Cost	Number Returned	Observation Record	Observation Time (sec)	Playback Time (sec)	Observation Time (sec)	Bits of BOT (Mbit)	Selected Bits on Tape (sBOT, Mbit)	Mode (sec)	Comp (4% ahead)	Total Mbits	BTG Data Factor	Reduct Factor
	Tracks	Cost	Wavelengths	Time (sec)	Time (sec)	Time (sec)	Time (sec)	Time (sec)	Time (sec)	Time (sec)	Time (sec)	Time (sec)	Time (sec)	Time (sec)
G1JNRTJBAR01-			408											
G1CNGLOBAL01-	21	0.0030	228	82	80	0.51	0.49	8.667	3	0.146	3.38			
G1JNGRS04102-	154	0.0221	23	650	648	4.01	4.00	2.33	1.95	0.682	5.86			
G1JNGRS04103-	85	0.0122	23	354	352	2.18	2.17	2.33	1.95	0.371	5.86			
G1NGLOBAL01-	358	0.0513	228	1518	1518	9.36	9.36	8.667	2.17	3.828	2.45			
G1NGLOBAL02-			228	732	732	4.52	4.52	8.667	2.02	1.983	2.28			
G1JNGRS02501-	157	0.0225	19	660	660	4.07	4.07	2.33	2	0.560	7.27			
G1GNMEMPIS01-	116	0.0166	228	485	485	2.99	2.99	8.667	1.78	1.491	2.01			
G1GNAMON 01-	71	0.0102	228	296	294	1.83	1.81	8.667	2.03	0.792	2.29			
G1GNPTAH 01-	57	0.0082	228	235	233	1.45	1.44	8.667	1.87	0.682	2.11			
G1GNIPPUR01-	158	0.0227	228	667	665	4.11	4.10	8.667	1.73	2.103	1.95			
G1GNMIRRAY01-	127	0.0183	228	535	533	3.30	3.29	8.667	1.78	1.638	2.01			
G1GNURUSUL01*			102	33	33	0.38	0.38	2.33	1.71	0.176	2.16			
G1NGREGIO01*			102	36	34	0.41	0.39	2.33	1.68	0.184	2.13			
G1GNMEMPHI01*			102	45	45	0.52	0.52	2.33	1.61	0.255	2.04			
G1GNLIMBSC02*			17	181	181	2.09	2.09	0.1667	1.99	1.929	1.08			
G1JNGRS00501-	166	0.0238	19	700	700	4.32	4.32	2.33	2	0.594	7.27			
G1JNHOTMAP01-	619	0.0887	238	2633	2621	16.24	16.17	8.667	0.97	15.434	1.05			
G1ENNHILAT01-	426	0.0610	228	1808	1205	11.15	7.43	8.667	0.97	6.797	1.09			
G1ENGLOBAL01*			17	26	26	0.30	0.30	0.361	0.97	0.263	1.14			
G1INCHEMIS01-	16	0.0023	228	60	60	0.37	0.37	8.667	0.97	0.338	1.09			
G1INTHRMAL01-	4	0.0005	10	7	7	0.04	0.04	0.361	0.97	0.042	1.04			
G1ENEUTERM01*			10	9	8	0.10	0.09	0.361	0.97	0.048	1.94			
G1JNGRS09101-	77	0.0110	68	318	318	1.96	1.96	2.33	0.97	1.990	0.99			
G1JNGRS09102-	170	0.0243	68	716	150	4.42	0.93	2.33	0.97	0.939	0.99			
G1INIOMON 05-			8											
G1INNSPEC 01-	142	0.0204	408	159	159	1.83	1.83	8.667	0.97	1.605	1.14			
G1NNNOPCAL01-			48							44.869				
G1NNNOPCAL02-			48											
G1NNRCTRLT02			252											
G1NNPCTRLT01			252											

## Recap of G1 Playback Events

NIMS data playback during G1 was affected by a number of significant events, some of which occurred on board the spacecraft, and some of which occurred on Earth. There were at least four of these events that occurred on board the spacecraft:

1) Partway through the record sequence a radiation hit to the NIMS RAM altered its processing so that the resulting data were 'scrambled.'

2) Somewhat later in the sequence, additional radiation apparently caused the instrument software to stop working entirely. No permanent damage was incurred and a later reload of the instrument software brought things back to normal.

3) Partway through playback, through an unanticipated CDS software 'feature', one observation was played back using an incorrect wavelength selection.

4) Near the end of the playback process, the spacecraft went into 'safe' mode, and it was not possible to recover in time to complete playback of the remaining useful NIMS observations left on the tape.

Events on the ground that significantly affected NIMS G1 playback derived from the immaturity of the CDS software in connection with NIMS playback. In the weeks just prior to initiation of NIMS data return, there was concern that playback of NIMS observations in MPW mode might cause CDS software to crash, with the potential loss of data return from all instruments. Therefore it was decided to make two passes over the tape. In the first tape pass, no NIMS data were to be selected. In the second pass, NIMS data were selected, along with small amounts of data from other instruments.

After NIMS data return was well along, it was determined that MPW mode playback could cause no problems, but LPU mode could potentially cause CDS to crash. Although about a dozen LPU mode observations had been returned by that time, the project decided to not permit any additional NIMS LPU playback. Nine NIMS observations were affected, from JNGRS5UM01 to INCHEMIS04.

G1 Playback Events Timeline (06-19-96 to 08-25-96)

- Wed 06-19: First playback update cycle begins. NIMS downlink allocation is 47 Mbits.
- Thu 06-20: NIMS allocation increases by 10.2 Mbits due to successful JOCD (Galileo Probe data) playback.
- Sun 06-23: G1 Encounter starts.
- Wed 06-26: Playback table update. All recorded wavelengths are planned to be returned for almost all observations. Total Mbtg is 56.5 and allocation is 58.0.
- Thu 06-27: DMS (Tape Recorder) constraints force changes to 18 of 55 observations; deselect times moved onto valid data (loss of 3 minor frames per observation).
- Fri 06-28: Perijove. The NIMS HOTMAP observation is truncated about 10 minutes early by commands from the ground to avoid possible DMS problem. The first NIMS instrument anomaly begins scrambling data written to the tape recorder (but this is not known until much later). The second NIMS instrument anomaly results in stoppage of the instrument (but this is not known until later).
- Mon 07-01: Problems with CDS software 'Playback Manager' cause the project to decide to NOT play back any NIMS data during July; a separate NIMS tape playback pass is approved. Early image return (pass 1) begins with 9 SSI images selected for playback.
- Mon 07-08: Non-NIMS playback begins after termination of early image return.
- Tue 07-16: NIMS anomaly investigation determines that observations after G1JNGRS12301 are not recoverable. NIMS has excess playback capability and donates 2 Mbits to SSI.
- Wed 07-17: Playback Table update: Observations after GRS12301 deleted; G1INNNSPEC retained to help diagnose the first NIMS instrument anomaly.
- Thu 07-25: Delivered NIMS playback table includes G1JNJJBARS which was recorded in MPW mode.
- Sun 07-28: Anticipation of possible problems with CDS software MPW playback force deletion of JJBARS from playback table while software patch is tested.
- Thu 08-01: NIMS data playback begins.
- Wed 08-07: Playback Table update. CHEMIS05 (Io) observation added back for anomaly diagnosis purposes and to use downlink bits since total allocation of about 55 Mbits has not changed.

G1 Playback Events Timeline (06-19-96 to 08-25-96)

- Fri 08-09: First NIMS instrument anomaly causes problems with playback. Data compression for the bit-shifted 'scrambled' data reverts to backup mode beginning with the large G1JNHOTMAP observation. Estimated compression was 2.0, actual compression becomes 0.97. An 'emergency' playback table update is required to employ the next available uplink window. Remaining NIMS observations must be cut by more than 60%. Three large atmospheres observations are deleted (GRSSUB01, GRS5UM01, GRS3UM01). Wavelengths returned for GRS09102 are reduced from 68 to 4. The G1ENNHILAT01 observation is cut by 33%, and one Io observation (CHEMIS05) is deleted. A cushion of 5 Mbits (to enable later playback of JJBARS) is requested. Delivered table includes 16.2 Mbits.
- Wed 08-14: Playback Table updated. Fourth pass through tape to recover JJBARS is approved. Available allocation allows reinstatement of some atmospheres bits (5 micron map 80 wavelengths).
- Fri 08-16: A potential CDS software problem with LPU mode playback is found. As a result, project declared that LPU was unsafe to use for playback.
- Mon 08-19: New playback table required immediately with no LPU mode observations included. The new table however includes 7 newly-generated observations (playback of data recorded automatically during SSI image capture, i.e. SSI ride-along).
- Wed 08-21: Playback is terminated by commands from the ground when it is discovered that the new, updated table has not been correctly loaded, and an old one is being executed. As a result part of GRS09102 comes down with 68 wavelengths instead of the specified 4.
- Thu 08-22: Playback is initiated with correct table in memory. The Io NNSPEC observation at 408 wavelengths is returned but late-addition SSI ride-alongs do not play back as expected.
- Thu 08-25: Spacecraft goes into SAFE mode before initiation of playback of JJBARS. Diagnosis and recovery take time and no additional G1 data playback is possible. Spacecraft safing is later determined to be caused by the presence of too many delayed-action commands (DACs) in the buffer.

## NIMS Anomaly Report - G1 Sequence

### Facts:

0. NIMS realtime provided flawless data of G1RTJBAR01 at SCLK 3496232. Perijove occurred at about SCLK 3498679 - a possible highest radiation event. We will have no information on data quality between SCLK 3496232 and SCLK 3499671 (IOMON05) until NIMS playback is started.
1. An anomaly was detected in realtime data for IOMON05 on Friday, June 28 at about 11am. IOMON05 started execution at SCLK 3499671:84. Data from this observation appear semi-systematic and may be recoverable in full or in part.
2. An anomaly was found the the realtime data for IOMON07 on Saturday, June 29 at about 10am. IOMON07 started execution at 3500756:84. This data does not appear recoverable.
3. Engineering channel S-1931 appeared normal on 8am Saturday morning (2 sequential values the same, which was normal). S-1932 also looked normal on Saturday morning, since the value had changed from Friday morning (Workstation software problems prevented seeing the history of values between Friday and Saturday - which would have shown a possible problem in channel S-1932). S-1932 had a repeating value of 13 on

SCLK 3499905:43 SCET 180T21:10:21 ERT 180T21:48:50  
SCLK 3499938:40 SCET 180T21:43:41 ERT 180T22:21:51

(the next update was received 9 hours later). It is probable that the instrument program stopped running sometime after SCLK 3499738 (which was reported through the instrument at SCLK 3499740:58). (S-1931 and S-1932 are watchdog timers which report the last two bytes of the s/c RIM).

4. Observations after CPU stoppage and which are presumably lost include:

G1INCHEMIS05  
G1INTHRMAL05  
G1INRCECLIO1  
G1JNGRS14101  
G1JNGRS14102  
G1INCHEMIS08  
G1INTHRMAL07  
G1INVOLCAN03  
G1INVOLCAN02  
G1INCHEMIS07  
G1INTHRMAL06  
G1INVOLCAN01  
G1INIOMON\_07  
G1JNGRS15401  
G1JNGRS15402  
G1NNPCTCAL01  
G1NNRCTRLT01

10 Io observations, 4 Jupiter GRS observations, 1 PCT calibration, 1 RCT calibration.

## NIMS Anomaly Report - G1 Sequence

5. A memory readout of the entire instrument RAM was radiated on Day 185/04:37 and executed successfully. Mismatches occurred at locations

1036 STACK POINTER MAINTENANCE  
103A STACK POINTER MAINTENANCE  
114C DARK CYCLE PROGRAM COUNTER  
140F 3RD MIRROR POSITION JUMBLE  
1430 3RD MIRROR POSITION JUMBLE  
1432 3RD MIRROR POSITION JUMBLE  
1440 3RD MIRROR POSITION JUMBLE  
15B6-BD FORMATTER RESET

(STACK IS LOCATED AT 15FF)

The final cause of failure is almost certainly stack underflow, which clobbered 15B6-BD.

None of the above locations are near a known danger area for READ-DISTURB problems of the TCC244 chip. The variable storage area, 14C0-1597 and 15BE-15FF, COULD have had read-disturb problems, but it is not simple to know what values should be there.

6. No unusual thermal events were seen.

### Observations:

1. A non-fatal instrument software error occurred at least 200 rims before the watchdog timer failed. Since stack errors are nearly always immediately fatal, then a less serious software modification must have occurred first. This could be interpreted as either two events or a single event which eventually lead to failure.

2. The instrument has been operating since day 122 with no failures - including during the IFL. It was reloaded on day 145 as a part of the IFL sequence. Realtime data received from the first Jupiter observation, G1JNRTJBAR01 (3496232) was flawless. This could be interpreted as 58 or more days of operation with no failure.

3. It is difficult to reconstruct the events and data with realtime data alone, because of the paucity of timing information contained in the realtime data.

4. Possible sources of program failure include Read/disturb, SEU (single event upset), CDS writing on NIMS, spare interrupts, critical instrument timing, or software error.

The read/disturb locations are not near the RAM program locations which changed. However, the variable area could contain suspect locations.

SEUs are not a common event on this spacecraft. If two events are required to explain the instrument behavior, there is a decreased probability that an SEU alone explains the problem.



## NIMS Anomaly Report - G1 Sequence

CDS writing to NIMS is technically possible - but is regarded as unlikely.

No spare interrupts were detected by other subsystems.

The instrument timing is critically dependent on the phase lock to 63 hz, and can be temperature sensitive. No extraordinary temperature excursions were noted. In general, the phase II software has significant timing margin.

Software error is always a possibility. However, this software has been executed frequently for more than a year, and no errors have been detected. It also executed for around 60 days in flight with no errors. There is a residual possibility that the level of commanding and activity in the flight sequence caused the problem, since this particular string of sequence events has not been tested with the instrument on the ground. The sequence has been re-examined for commanding errors, none has been found.

The most straightforward, and least testable hypothesis is that an SEU occurred.

### Testing:

1. Reload the instrument, perform weekly checksums
2. Perform an opcal prior to and after the RCT cal (which is scheduled for early August).
3. Checksum before G2
4. Run the NIMS G1 commanding sequence on the testbed with the engineering model.

### Error avoidance for G2:

Reload NIMS software frequently during G2 encounter (dangerous unless loaded from CDS). If done once, could better protect the PCT and Io observations, which, once again, are at the end of the sequence.

Pre-approve memory readouts and memory loads during the active period.

Institute 24 hour monitoring of watchdog timer

Add checksums to sequence, since watchdog parameters have variable frequency and are not a reliable check for data corruption.

Add short realtime observations to sequence to monitor data quality. This can be small enough to have unmeasurable impact on MUB loading, but would have significant (CA 2-300 byte total over encounter) impact on CDS bytes.

### G1 recovery.

It is important to recover the photometric calibration. The various trials and tribulations of the s/c have prevented any form of this calibration since Gaspra. G1 and G1 cruise have a nearly unique opportunity, since the off-sun angle is less than 5 degrees (it is above 8 after otm 9 and for G2). The observation requires that the spacecraft be placed in all-spin.



## NIMS Ungarbling Process

At least two NIMS anomalies occurred during the G1 encounter. Beginning with the G1JNHOTMAP01 observation, near Galileo's closest approach to Jupiter, NIMS data appeared 'garbled', though in a systematic way which gave hopes of recovery. Sometime after the G1INNSPEC01 observation, the data were still garbled, but no longer in a systematic way. Subsequent analysis concluded that the phase 2 NIMS RAM software had halted at that point, presumably due to radiation, but that CDS was still picking up garbage out of the NIMS buffer. (A later reload of the RAM software restored functionality.)

The data acquired between the first and second anomalies was mostly reconstructed, based on an analysis of the RAM processing and the systematic appearance of the data. It was concluded that radiation most likely altered a variable in the RAM so that the formatter (\*) lost synch with the code. An algorithm was developed involving bit shifts and byte order re-arrangements, based on the assumption that the formatter was one step ahead of the code (in a cycle of 4 steps, one for each mirror position in an RTI). Since the 'ungarbled' data appeared plausible to NIMS scientists (especially off-limb data which could be assumed to be dark) and since there was a reasonable scenario for the behavior of the RAM software, the NIMS team feels justified in distributing the ungarbled data with a high probability that it is correct.

The description above assumes that all wavelengths were selected, as in the G1INNSPEC01 observation. In such cases, the original data could be completely reconstructed, except for a couple of bits at one end of the observation. But when wavelength editing in the instrument was selected, as in G1JNHOTMAP01 and most of the other garbled observations, this was not entirely true. Due to the interaction of the garbling mechanism and the wavelength editing code, and depending on the edit pattern selected, data from some wavelengths lost two bits of significance, and data from some others were entirely lost.

(\*) See the NIMS instrument paper and VOLINFO.TXT on the EDR CD-ROM for background to this discussion, and for further details of the algorithm and limitations on the accuracy of some of the ungarbled data.

## 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 with the suffix JPG or GIF to denote its graphics format.

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.