NIMS GUIDE TO THE G7 ORBIT

Original: April 1997

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Foreword to the Revised Edition

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

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

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

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

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

Acknowledgements

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

Foreword

This document serves as a guide to the G7 Orbit for the NIMS Team. The aim of this guide is to provide detailed information on the various NIMS G7 observations and calibrations. Also included in this document is background information on the G7 orbit. This guide was produced before the start of the G7 orbit. After analysis of the NIMS G7 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 G7 orbit. Chapter 2 gives an overview of the G7 orbit and summarizes the NIMS science objectives for the G7 orbit using tables, spreadsheets and timelines. Chapter 3 contains diagrams of various aspects of spacecraft geometry for the G7 orbit. Chapter 4 summarizes the NIMS G7 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 G7 orbit.

For more information on the G7 orbit, please refer to the Galileo Orbit Planning guide and the Galileo Orbit Activity Plan for the G7 Orbit. Both of these documents are produced by the Galileo Project.

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

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Chapter 1 - Introduction

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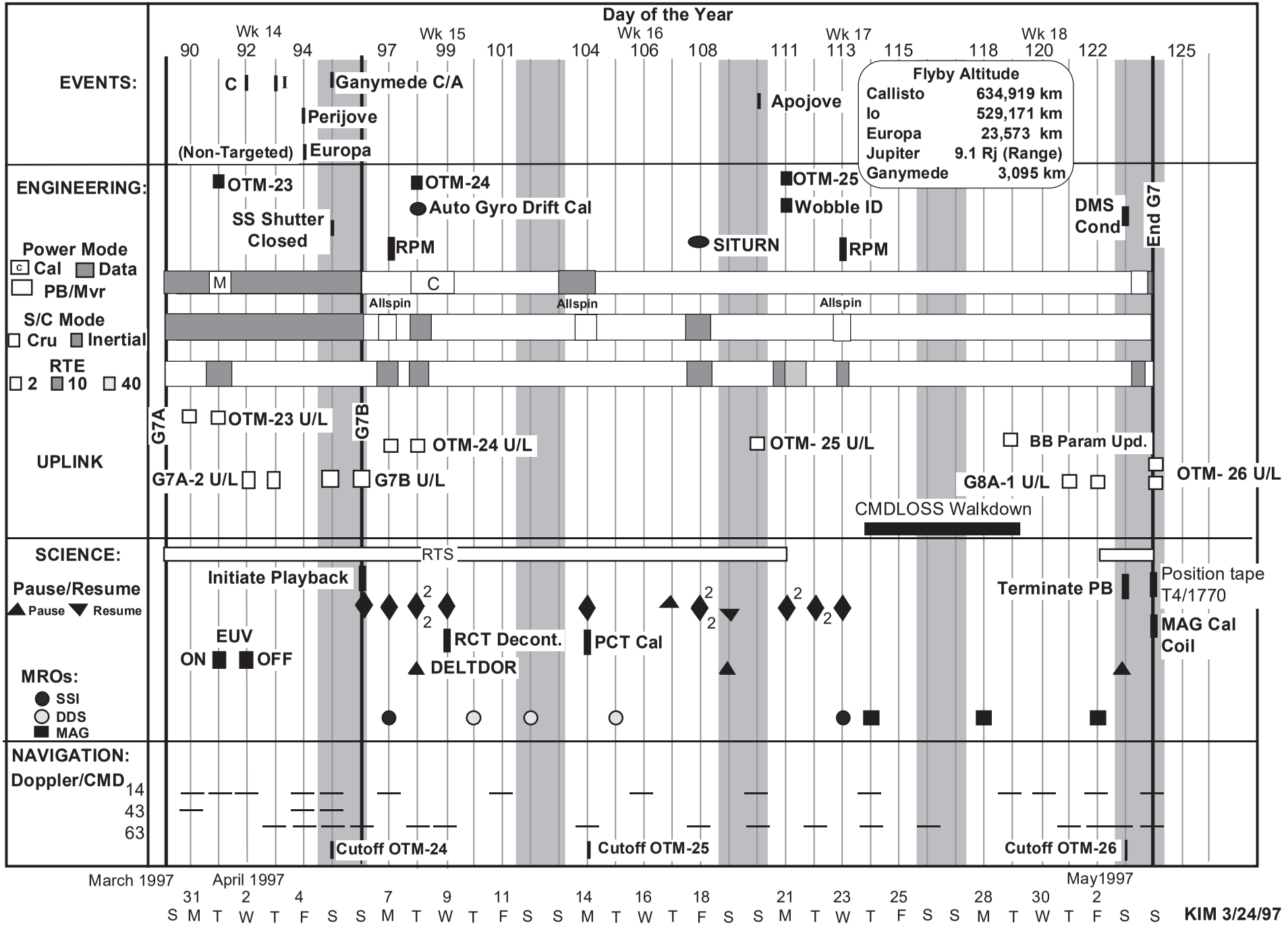
Introduction

This G7 orbit is the seventh of eleven orbits in Galileo's Tour of the Jovian system. This orbit has a targetted satellite flyby of Ganymede. NIMS will make observations of Jupiter, Io, Europa, Ganymede and Callisto in this orbit. NIMS will also perform some calibrations in this orbit.

There are 15 autonomous reloads of the NIMS RAM code from CDS planned during the G7A encounter period with checksums of the NIMS RAM code before each reload. These reloads are in response to the on-going flight-anomalies where the NIMS RAM code takes some bit hits and halts the instrument during when the spacecraft is close to Jupiter. NIMS NIMS will also return realtime data on a daily basis during the G7A encounter period as a means of monitoring the instrument's status. NIMS personnel will also monitior the NIMS engineering telemetry data on a regular schedule to track the instrument's status.

The G7 orbit is divided into 3 sequence loads: two Encounter Loads (G7A1 and G7A2) and one Orbital Cruise Load (G7B). The Encounter Load was spit into two segments to allow a tweak to the Europa flyby. Load G7A1 begins on D089 of 1997 (03/30/97) and ends on D093 of 1997 (04/03/97) and load G7A2 begins on D093 of 1997 and ends on D096 of 1997 (04/06/97). These loads contain the flybys of Jupiter, Europa, Io, Ganymede and Callisto. The Cruise Load, G7B, runs from D096 to D124. Playback of the recorded data takes place during the Cruise phase, G7B. A high-level overview timeline of the G7 orbit can be found on the following page and a summary timeline of the G7 encounter peiod can be found at the end of this chapter.

G7 Overview

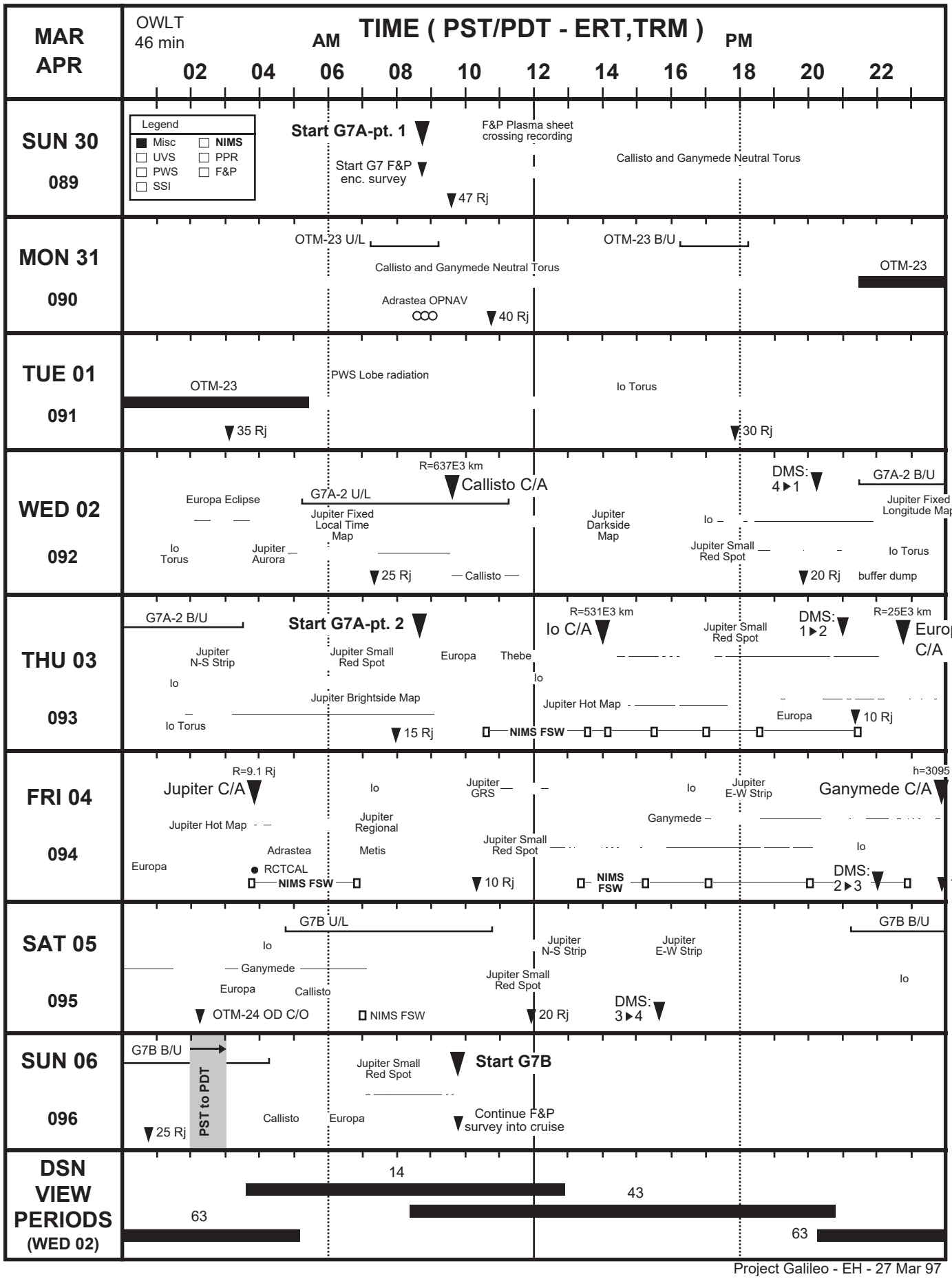

Day of the Year
Wk 14
Wk 15
Wk 16
Wk 17
Wk 18
90 92 94 97 99 101 104 106 108 111 113 115 118 120 122 125
EVENTS:
C
I
Ganymede C/A
Perijove
(Non-Targeted)
Europa
Apojove
Flyby Altitude
Callisto 634,919 km
Io 529,171 km
Europa 23,573 km
Jupiter 9.1 Rj (Range)
Ganymede 3,095 km
ENGINEERING:
OTM-23
SS Shutter Closed
OTM-24
Auto Gyro Drift Cal
RPM
SITURN
OTM-25
Wobble ID
RPM
DMS Cond
End G7
Power Mode
Cal
Data
PB/Mvr
M
C
Allspin
Allspin
Allspin
S/C Mode
Cru
Inertial
RTE
2
10
40
G7A
G7B
UPLINK
OTM-23 U/L
OTM-24 U/L
OTM- 25 U/L
BB Param Upd.
OTM- 26 U/L
G7A-2 U/L
G7B U/L
G8A-1 U/L
CMDLOSS Walkdown
SCIENCE:
RTS
Pause/Resume
Pause
Resume
Initiate Playback
Terminate PB
Position tape T4/1770
EUV
ON
OFF
RCT Decont.
PCT Cal
DELTDOR
MAG Cal Coil
MROs:
SSI
DDS
MAG
NAVIGATION:
Doppler/CMD
14
43
63
Cutoff OTM-24
Cutoff OTM-25
Cutoff OTM-26
March 1997
April 1997
May1997
31 2 4 7 9 11 14 16 18 21 23 25 28 30 2
S M T W T F S S M T W T F S S M T W T F S S M T W T F S S
KIM 3/24/97

Introduction

The following table lists the major events during G7, including NIMS Real Time observations, in UTC.

03/30/97	97-089/16:00:00	G7 Encounter Start
04/02/97	97-092/14:43:34	NIMS R/T Jupiter Aurora
04/02/97	97-092/16:52:00	Callisto Closest Approach
04/03/97	97-093/17:39:19	NIMS R/T Health 01
04/03/97	97-093/17:45:23	NIMS RAM Reload 01
04/03/97	97-093/18:11:41	NIMS R/T Health 02
04/03/97	97-093/20:42:20	NIMS RAM Reload 02
04/03/97	97-093/21:11:00	Io Closest Approach
04/03/97	97-093/21:20:45	NIMS RAM Reload 03
04/03/97	97-093/22:00:11	NIMS R/T Hot Spot 01
04/03/97	97-093/22:36:35	NIMS RAM Reload 04
04/03/97	97-093/23:22:05	NIMS R/T Hot Spot 02
04/04/97	97-094/00:10:37	NIMS RAM Reload 05
04/04/97	97-094/00:51:04	NIMS R/T Hot Spot 03
04/04/97	97-094/01:44:39	NIMS RAM Reload 06
04/04/97	97-094/04:36:33	NIMS RAM Reload 07
04/04/97	97-094/06:00:00	Europa Closest Approach
04/04/97	97-094/10:48:38	NIMS R/T Health 03
04/04/97	97-094/10:54:42	NIMS RAM Reload 08
04/04/97	97-094/11:04:38	Jupiter Closest Approach (PJ7)
04/04/97	97-094/13:57:43	NIMS RAM Reload 09
04/04/97	97-094/20:25:59	NIMS R/T Health 04
04/04/97	97-094/21:27:39	NIMS RAM Reload 10
04/04/97	97-094/22:22:15	NIMS RAM Reload 11
04/04/97	97-094/23:14:50	NIMS R/T Health 05
04/05/97	97-095/00:14:29	NIMS RAM Reload 12
04/05/97	97-095/03:13:27	NIMS RAM Reload 13
04/05/97	97-095/04:09:04	NIMS R/T Health 06
04/05/97	97-095/06:06:21	NIMS RAM Reload 14
04/05/97	97-095/07:11:01	Ganymede Closest Approach (G7)
04/05/97	97-095/14:09:40	NIMS RAM Reload 15
04/06/97	97-096/11:56:01	NIMS R/T Health 07
04/06/97	97-096/15:14:12	NIMS R/T Health 08
04/06/97	97-096/16:00:00	Start G7 Playback
04/08/97	97-098/17:16:11	NIMS R/T RCT CAL
04/13/97	97-103/20:49:39	NIMS R/T PCT CAL
05/01/97	97-121/00:54:21	NIMS R/T OPCAL
05/04/97	97-124/16:00:00	End G7 Playback

GANYMEDE - ORBIT 7 ENCOUNTER SUMMARY



Project Galileo - EH - 27 Mar 97

Chapter 2 - Orbit Overview

Contents

Introduction to Chapter 2

This chapter gives an overview of the NIMS observations in the G7 Orbit.

The text on pages 3, 4 and 5 summarizes the NIMS science objectives for G7. The NIMS calibrations are discussed on page 6. Early data return and G7 playback are also discussed on page 6.

The table on pages 7, 8 and 9 is a time-ordered listing of the NIMS Oapels for G7.

The plot on page 10 shows the geometry of the NIMS G7 observations using a north trajectory pole view projection. The plots on pages 11 and 12 show the geometry of the NIMS Satellite and Jupiter observations. The plot on page 13 shows the geometry of the NIMS G7 calibrations. The plot on page 14 shows the geometry of the NIMS RAM Reloads and MROs.

The spreadsheet on pages 15 through 16 summarizes the various inputs for the NIMS G7 Observations. The spreadsheet on pages 17 through 25 summarizes the resource usage for the NIMS G7 observations.

The table on pages 26 through 29 lists various NIMS G7 observing parameters: target latitude/longitude, range, cone angle, incidence angle (light), emission angle (view) and phase angle.

The tapemap on pages 30 through 34 shows the placement of the G7 observations on the spacecraft's tape recorder. The NIMS observation names are written with a larger type.

The timeline on pages 35 through 39 shows the preliminary G7 playback schedule.

The NIMS E6 mosaic designs are summarized on pages 40 through 46 in time-order.

Ganymede Science

There are five observations of Ganymede in G7. The first and last observations, at ~7 hours before and after closest approach, are part of NIMS Ganymede global mapping campaign. Both observations are at spatial resolution of ~100 km/NIMSel and have spectral resolution of 204 wavelengths. They cover west longitudes 260 to 12 degrees and 230 to 270 degrees, respectively. These two observations investigate the surface mineralogy and distribution of compositional units in a global context. These observations will be used to compare with the other satellites to look for similarity and differences. The third observation will study a bright region (BRITRL) in the trailing hemisphere at 11 km/NIMSel and 408 wavelengths. This observation will help to decompose the global observation spectra by providing spectra information on endmember from bright albedo surface units and will also be used to study the effects of radiation bombardment on the trailing hemisphere. The fourth observation is to observe a dark rayed crater called Kittu at 5 km/NIMsel and 204 wavelengths. It will provide data for studies of the modification of material from the impact crater, the mineralogy of the impactor, and the modification to surrounding area. These two observations occur within the hour before Ganymede closest approach. The fifth observation is a joint activity (HILAT) with UVS to study the North high latitude region for radiation effects on the surface composition.

Io Science

The Io monitoring campaign continues in the G7 orbit. It consists of CHEMIS, THRMAL, and VOLCAN observations. These observations are to study temporal variations of volcanic activities on Io, and they cover a wide range of longitudes. The CHEMIS observations concentrate on Io's dayside looking for chemical changes such as SO2 distribution. The THRMAL observations are designed to monitor Io's nightside in search of hot spots, thermal anomalies, and auroral effects. The VOLCAN observations monitor variations in volcanic activity of Loki, Pele, and Kanehekili. There is one high spectral (408 wavelengths) global observation of Io's dayside at closest approach. These observations occur from 16 hours before to 1 day and 8 hours after Io closest approach.

NIMS G7 SCIENCE OVERVIEW

Europa Science

There are two Europa observations for G7. The first one is at 7 hours before closest approach, and it is part of a global mosaic campaign over the course of the mission to map the entire Europa surface. This observation is centered on the Flexus Linea region and covers longitude 120 to 210 west longitude. The spatial resolution is ~80 km/NIMSel and the wavelength resolution 204 wavelengths. The objective is to search for mineralogical differences, to understand their relationships to the linea terrain, and to look for differences between trailing and leading hemispheres. The second observation is to search for mineralogical differences and understand the origin of the Tyre Macula circular feature or possible impact crater. This observation has a spatial resolution of ~13 km/NIMSel with spectral resolution of 408 wavelengths, (of which 301 wavelengths will be played back) and it is centered around Europa closest approach. Because of bits to ground constraints, only the Tyre Macula observation will be played back.

Callisto Science

There is one Callisto observation in the G7 orbit at about 2 hours after closest approach. This obsrvation is part of the NIMS Callisto global mapping campaign and covers 0 to 140 degrees west longitude (Valhalla is in this range) at 14 degrees phase (the lowest phase angle in the entire tour) with spatial resolution of 320 km/NIMSel and spectral resolution of 408 wavelengths. The objective is to investigate Callisto's surface mineralogy and determine the distribution of compositional units.

Jupiter Science

This orbit concentrates on the Northern hemisphere of Jupiter, with observations spanning latitudes from the Equator to 48 degrees North. The objectives are to assess the 3-dimensional cloud structure over this region as well as the abundance of trace species, water, ammonia, and phosphine within the primary feature of the North Tropical Zone near 14 degrees North Planetographic latitude, 65 degrees West longitude. (It is hoped that a Barge-like feature may show up at this position). This target is observed at 5 degrees phase angle (twice at 28 degrees phase during the FEAP41 OAPels, twice at 87 degrees during the FEAP66 OAPels, twice at 135 degrees during the FEA130 OAPel, once at 142 degrees during the FEA146 OAPels, and once during 153 degrees phase during the PFB15001 OAPel.) (Note the unexpected OAPel prefix of this last OAPel). During the FEAP observations, additional 1 X 1 areas to the East and West of the nominal 1 X 1 target are observed. Nightside spectral maps at 2.7 and 5.0 micrometers, as well as a dayside sub-spectral map are, also acquired of the 1 X 1 nominal feature. Finally, additional observations of this latitude, but not longitude, are acquired during the FEX002 (2 degrees phase), FEX108 (108 degrees phase), FEZ157 (157 degrees phase) observations at 160 degrees West longitude.

Additional Northern hemisphere territories are observed during the PFTB/PFB, PFC, and PFTD OAPels. The seven PFTB/PFB OAPels examine one of the two "Little Red Spots" (LRS) near 43 degrees North latitude (note exception: PFB15001 observes the 14 degree North feature; the proper 153 degree Little Red Spot observation is now acquired during FEA15003). This LRS is observed at 28, 87, 135, 142 and 153 degrees phase angles. PFC OAPels observe the North Temperate Zone at 20 degrees North latitude, 65 degrees West longitude, i.e., the tier just to the North of the primary feature track. Three OAPels span 3 phase angles (87, 146 and 152 degrees). The PFTD OAPel acquired near the bright limb during the 28 degree phase angle opportunity targets the 28 degree latitude range just to the North at the PFC tier.

One Thermal North/South spectral map is acquired, centered at 71 degrees longitude to coincide with the PPR hotspot target. Only about 25 percent of this pole-to-pole observation is scheduled to be transmitted to Earth, returning information on the distribution of water and phosphine between the equator and 30 degrees North latitude.

Three Real-Time full spectral, 4-mirror position observations of the hotspot latitude (6.5 degrees North) are also acquired, located at 50, 90 and 124 degrees longitudes. There is also a HOTMAP 5-micron spectral map observation centered at 6.5 degrees North, 120 degrees West. Finally, three 13-RIM-long Auroral observations are acquired in real-time riding along with UVS. These are centered at 60 degrees North, 92 West (nightside) 70 North, 150 West (dayside) and 60 degrees North, 160 degrees West (dayside).

Calibration

There are eight NIMS calibration observations in G7: one starcal, three darkcals, two RCT cals, one PCT cal and 1 OPCAL. The starcal (STRCAL) looks at the star Vega. The darkcal observations (DRKCAL) measure dark levels in three gain states. The RCT cals (RCTRLT) calibrate NIMS in the thermal bands. The PCT cal (PCTCAL) calibrates NIMS in the visible bands. THE OPCAL calibrates the NIMS grating.

Early Data Return

There are 15 realtime NIMS observations in G7: 8 instrument health checks of 3 wavelengths (HEALTH), 1 408 wavelength Jupiter Aurora observation (AURMAP, 17 Rims), 3 408 wavelength Jupiter Hotspot observations (RTHOTS), 1 PCT Calibration, 1 RCT Calibration and 1 OPCAL. The times for when these realtime observations will be returned can be found on page 1-04 of the NIMS Guide, but these realtime observations are subject to buffer dump to tape.

G7 Playback

G7 playback is split into two passes through the tape.

G7 Time-Ordered Listing

OAPEL	Start (UTC)	End (UTC)	Duration
G7NNCHOPON01-	97-092/12:12:55	97-092/12:17:58	000/00:05:03
G7NNSTRCAL01-	97-092/12:23:01	97-092/12:30:06	000/00:07:04
G7JNAURMAP01+	97-092/14:43:34	97-092/18:40:10	000/03:56:36
G7CNGLOBAL01-	97-092/18:44:13	97-092/18:52:18	000/00:08:05
G7HNDARK__01-	97-093/04:36:43	97-093/04:42:47	000/00:06:04
G7INCHEMIS01-	97-093/05:08:04	97-093/05:15:09	000/00:07:04
G7INCHEMIS02-	97-093/09:13:46	97-093/09:17:49	000/00:04:02
G7INTHRMAL02-	97-093/09:17:49	97-093/09:20:51	000/00:03:02
G7NNHEALTH01-	97-093/17:39:19	97-093/17:44:23	000/00:05:03
G7NNNIMSLD01-	97-093/17:45:23	97-093/17:55:30	000/00:10:06
G7INCHEMIS03-	97-093/17:56:31	97-093/18:04:36	000/00:08:05
G7INTHRMAL03-	97-093/18:04:36	97-093/18:07:38	000/00:03:02
G7INVOLCAN01-	97-093/18:07:38	97-093/18:10:40	000/00:03:02
G7NNHEALTH02-	97-093/18:11:41	97-093/18:16:44	000/00:05:03
G7NNNIMSLD02-	97-093/20:42:20	97-093/20:52:27	000/00:10:06
G7INVOLCAN02-	97-093/20:53:27	97-093/20:59:31	000/00:06:04
G7INTHRMAL04-	97-093/20:59:31	97-093/21:02:33	000/00:03:02
G7INHRSPEC01-	97-093/21:02:33	97-093/21:07:37	000/00:05:03
G7NNNIMSLD03-	97-093/21:20:45	97-093/21:30:52	000/00:10:06
G7JNPFC04101-	97-093/21:31:53	97-093/21:37:57	000/00:06:04
G7JNFEAP4101-	97-093/21:52:06	97-093/21:59:11	000/00:07:04
G7JNRTHOTS01-	97-093/22:00:11	97-093/22:05:15	000/00:05:03
G7INVOLCAN03-	97-093/22:30:31	97-093/22:36:35	000/00:06:04
G7NNNIMSLD04-	97-093/22:36:35	97-093/22:45:41	000/00:09:06
G7INVOLCAN04-	97-093/22:45:41	97-093/22:50:45	000/00:05:03
G7JNFEASUB01-	97-093/22:50:45	97-093/23:00:51	000/00:10:06
G7JNFEAP4102-	97-093/23:04:54	97-093/23:14:00	000/00:09:06
G7JNPFTB4101-	97-093/23:15:01	97-093/23:22:05	000/00:07:04
G7JNRTHOTS02-	97-093/23:22:05	97-093/23:28:09	000/00:06:04
G7NNNIMSLD05-	97-094/00:10:37	97-094/00:20:44	000/00:10:06
G7JNPFTB4102-	97-094/00:21:45	97-094/00:29:50	000/00:08:05
G7JNPFTD4101-	97-094/00:41:58	97-094/00:50:03	000/00:08:05

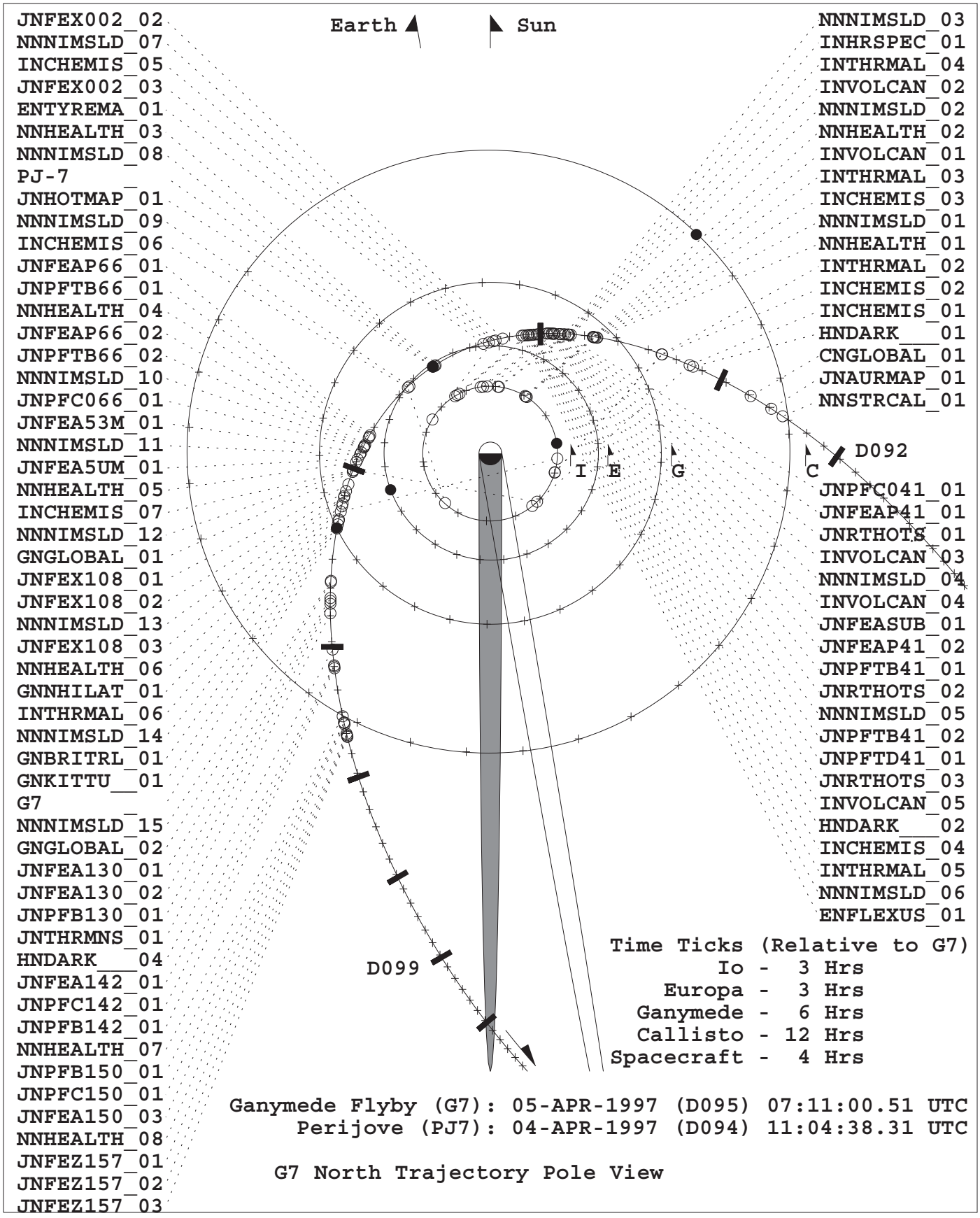
G7 Time-Ordered Listing

OAPEL	Start (UTC)	End (UTC)	Duration
G7JNRTHOTS03-	97-094/00:51:04	97-094/00:56:07	000/00:05:03
G7INVOLCAN05-	97-094/00:59:09	97-094/01:04:13	000/00:05:03
G7HNDARK__02-	97-094/01:11:17	97-094/01:17:21	000/00:06:04
G7INCHEMIS04-	97-094/01:17:21	97-094/01:26:27	000/00:09:06
G7INTHRMAL05-	97-094/01:27:28	97-094/01:34:33	000/00:07:04
G7NNNIMSLD06-	97-094/01:44:39	97-094/01:54:46	000/00:10:06
G7ENFLEXUS01-	97-094/01:55:47	97-094/02:23:05	000/00:27:18
G7JNFEX00202-	97-094/03:53:04	97-094/04:19:21	000/00:26:17
G7NNNIMSLD07-	97-094/04:36:33	97-094/04:46:39	000/00:10:06
G7INCHEMIS05-	97-094/04:49:41	97-094/04:57:47	000/00:08:05
G7JNFEX00203-	97-094/05:16:59	97-094/05:23:03	000/00:06:04
G7ENTYREMA01-	97-094/05:49:21	97-094/06:10:35	000/00:21:14
G7NNHEALTH03-	97-094/10:48:38	97-094/10:53:41	000/00:05:03
G7NNNIMSLD08-	97-094/10:54:42	97-094/11:04:49	000/00:10:06
G7JNHOTMAP01-	97-094/11:05:49	97-094/11:35:09	000/00:29:19
G7NNNIMSLD09-	97-094/13:57:43	97-094/14:07:49	000/00:10:06
G7INCHEMIS06-	97-094/14:08:50	97-094/14:16:55	000/00:08:05
G7JNFEAP6601-	97-094/20:06:46	97-094/20:13:51	000/00:07:04
G7JNPFTB6601-	97-094/20:17:53	97-094/20:24:58	000/00:07:04
G7NNHEALTH04-	97-094/20:25:59	97-094/20:31:02	000/00:05:03
G7JNFEAP6602-	97-094/21:13:30	97-094/21:20:35	000/00:07:04
G7JNPFTB6602-	97-094/21:22:36	97-094/21:29:41	000/00:07:04
G7NNNIMSLD10-	97-094/21:27:39	97-094/21:37:46	000/00:10:06
G7JNPFC06601-	97-094/21:33:43	97-094/21:40:48	000/00:07:04
G7JNFEA53M01-	97-094/22:06:04	97-094/22:21:14	000/00:15:10
G7NNNIMSLD11-	97-094/22:22:15	97-094/22:32:22	000/00:10:06
G7JNFEA5UM01-	97-094/22:54:36	97-094/23:03:42	000/00:09:06
G7NNHEALTH05-	97-094/23:14:50	97-094/23:19:53	000/00:05:03
G7INCHEMIS07-	97-095/00:11:27	97-095/00:15:30	000/00:04:02
G7NNNIMSLD12-	97-095/00:14:29	97-095/00:23:35	000/00:09:06
G7GNGLOBAL01-	97-095/00:23:35	97-095/01:04:02	000/00:40:26
G7JNFEX10801-	97-095/01:51:33	97-095/02:10:46	000/00:19:12
G7JNFEX10802-	97-095/02:39:05	97-095/02:46:09	000/00:07:04

G7 Time-Ordered Listing

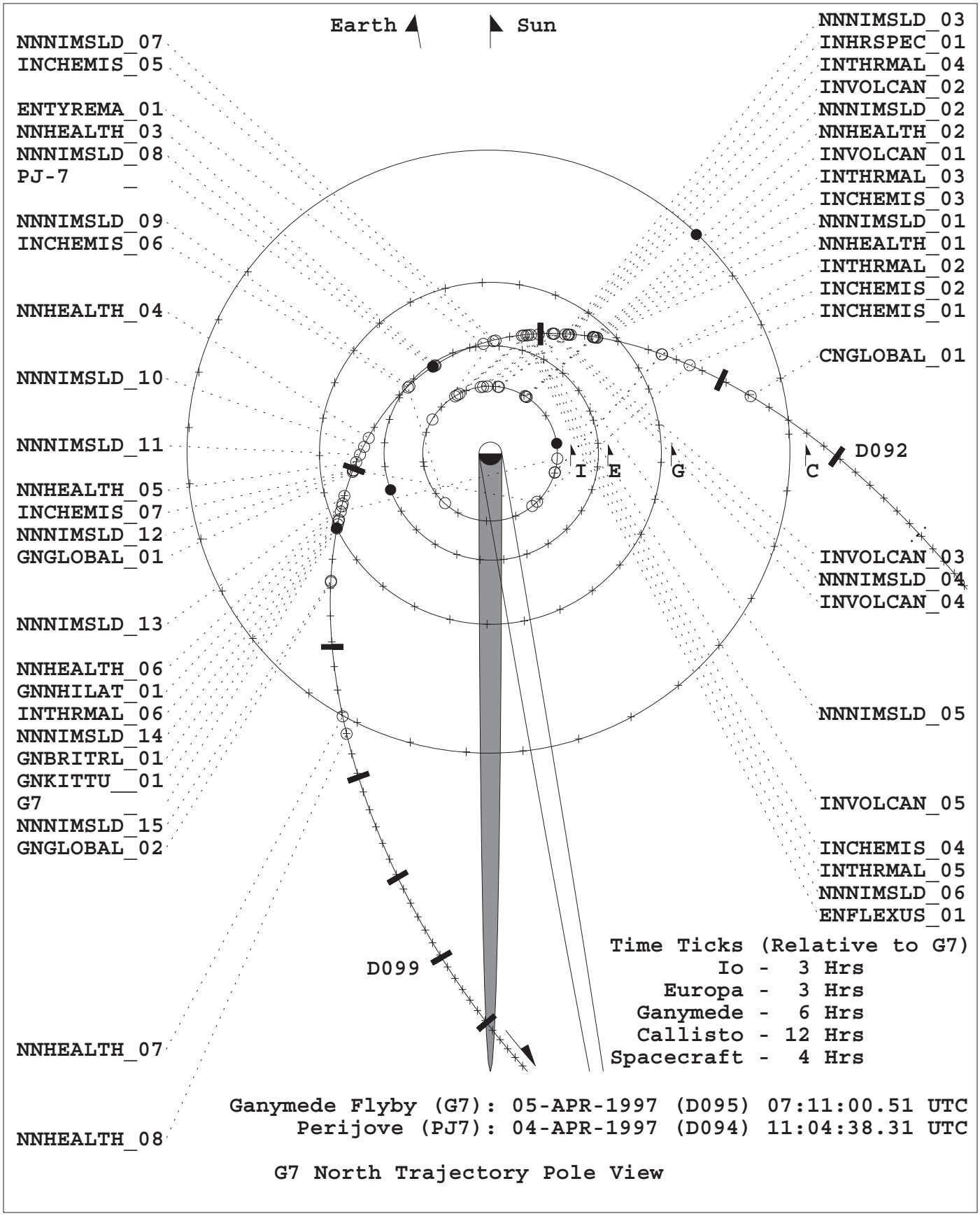
OAPEL	Start (UTC)	End (UTC)	Duration
G7NNNIMSLD13-	97-095/03:13:27	97-095/03:23:34	000/00:10:06
G7JNFEX10803-	97-095/03:24:35	97-095/03:38:44	000/00:14:09
G7NNHEALTH06-	97-095/04:09:04	97-095/04:14:07	000/00:05:03
G7GNNHILAT01-	97-095/04:29:17	97-095/05:03:40	000/00:34:22
G7INTHRMAL06-	97-095/05:07:43	97-095/05:15:48	000/00:08:05
G7NNNIMSLD14-	97-095/06:06:21	97-095/06:16:28	000/00:10:06
G7GNBRITRL01-	97-095/06:16:28	97-095/06:25:34	000/00:09:06
G7GNKITTU_01-	97-095/06:41:45	97-095/06:54:53	000/00:13:08
G7JNAWGWIN03	97-095/09:53:51	97-095/19:26:58	000/09:33:06
G7NNNIMSLD15-	97-095/14:09:40	97-095/14:19:46	000/00:10:06
G7GNGLOBAL02-	97-095/14:20:47	97-095/14:32:55	000/00:12:08
G7JNFEA13001-	97-095/16:36:16	97-095/16:42:20	000/00:06:04
G7JNFEA13002-	97-095/17:01:33	97-095/17:07:37	000/00:06:04
G7JNPFB13001-	97-095/17:26:50	97-095/17:32:54	000/00:06:04
G7JNTHRMNS01-	97-095/18:49:44	97-095/19:20:04	000/00:30:19
G7JNAWGWIN04	97-095/19:28:48	97-096/15:58:58	000/20:30:10
G7HNDARK__04-	97-096/00:26:27	97-096/00:32:31	000/00:06:04
G7JNFEA14201-	97-096/03:00:08	97-096/03:06:12	000/00:06:04
G7JNPFC14201-	97-096/03:12:16	97-096/03:18:20	000/00:06:04
G7JNPFB14201-	97-096/03:29:27	97-096/03:35:31	000/00:06:04
G7NNHEALTH07-	97-096/11:56:01	97-096/12:01:05	000/00:05:03
G7JNPFB15001-	97-096/13:05:47	97-096/13:11:51	000/00:06:04
G7JNPFC15001-	97-096/13:12:52	97-096/13:18:56	000/00:06:04
G7JNFEA15003-	97-096/13:28:02	97-096/13:34:06	000/00:06:04
G7NNHEALTH08-	97-096/15:14:12	97-096/15:19:15	000/00:05:03
G7JNFEZ15701-	97-096/15:30:23	97-096/15:36:27	000/00:06:04
G7JNFEZ15702-	97-096/15:42:31	97-096/15:48:35	000/00:06:04
G7JNFEZ15703-	97-096/15:51:37	97-096/15:57:41	000/00:06:04
G7NNCHOPOF01-	97-096/16:08:48	97-096/16:18:55	000/00:10:06
G7NNRCTRLT01-	97-098/17:16:11	97-099/06:31:56	000/13:15:44
G7NNPCTRLT01-	97-103/20:49:39	97-104/04:08:28	000/07:18:49
G7NNOPCAL_01-	97-121/00:54:21	97-121/01:16:36	000/00:22:14

NIMS G7 OBSERVATIONS



NIMS - FEL - 03/07/97

NIMS G7 SATELLITE OBSERVATIONS

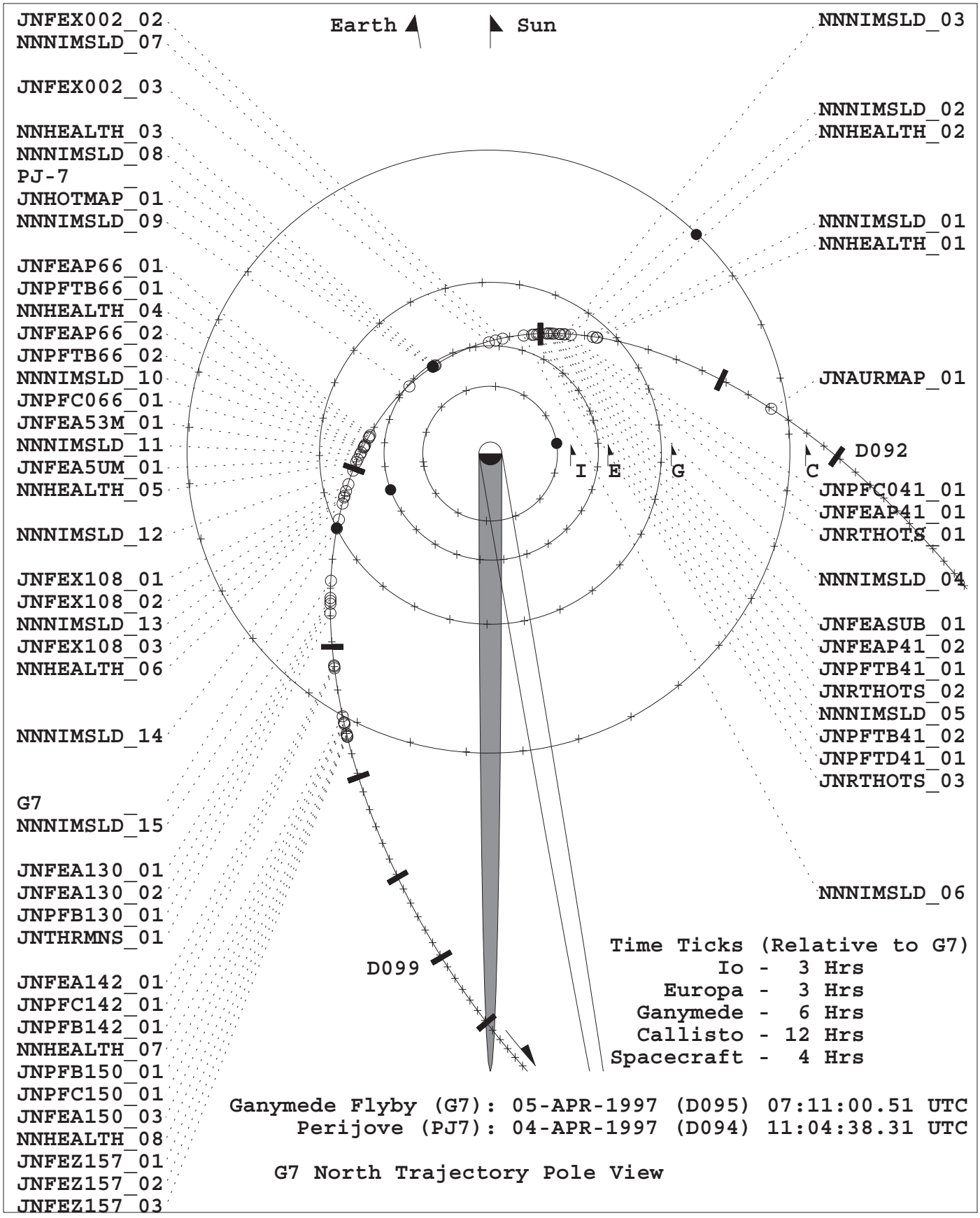


Ganymede Flyby (G7): 05-APR-1997 (D095) 07:11:00.51 UTC
Perijove (PJ7): 04-APR-1997 (D094) 11:04:38.31 UTC

G7 North Trajectory Pole View

NIMS - FEL - 03/07/97

NIMS G7 JUPITER OBSERVATIONS

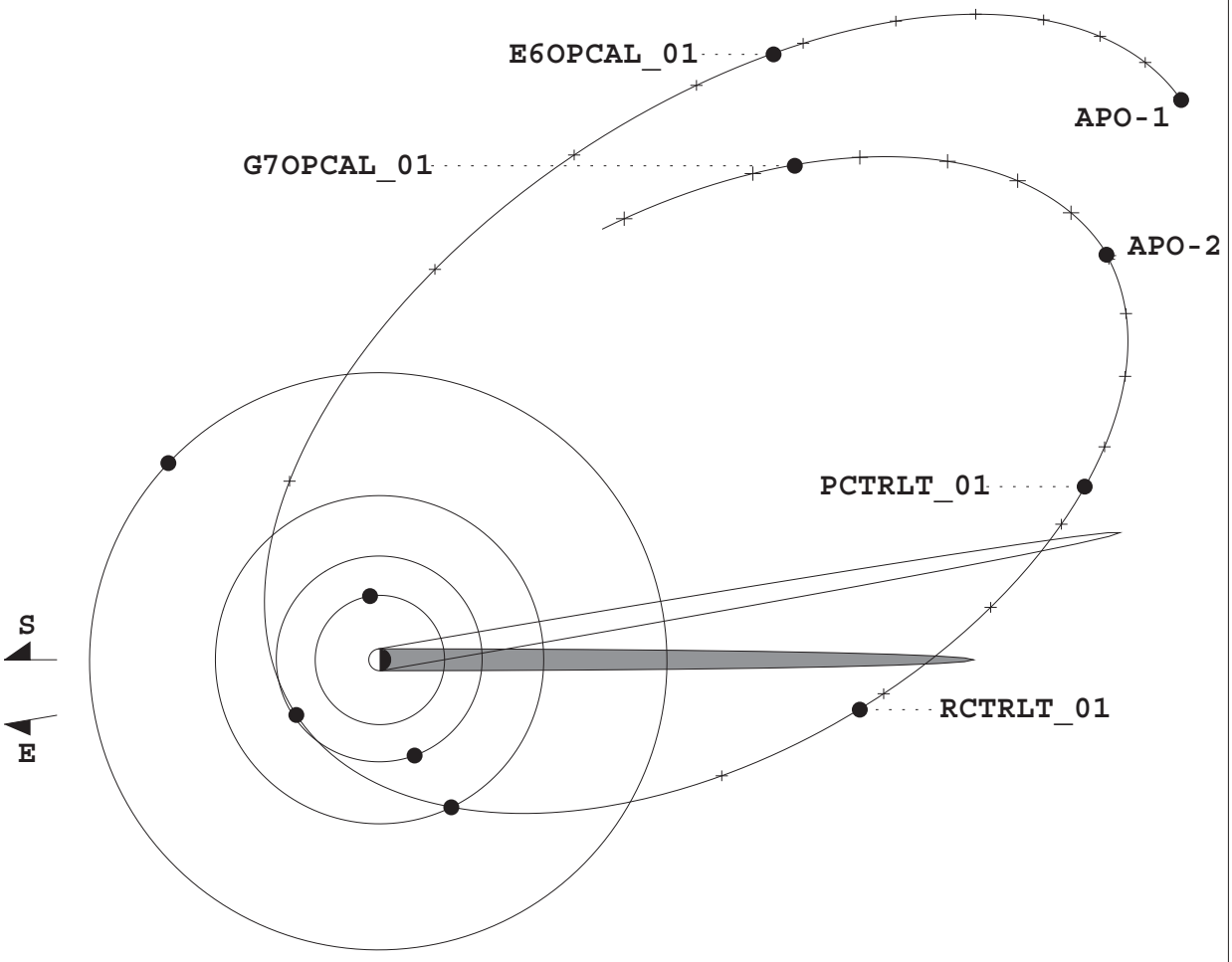


NIMS - FEL - 03/07/97

NIMS G7 CALIBRATIONS

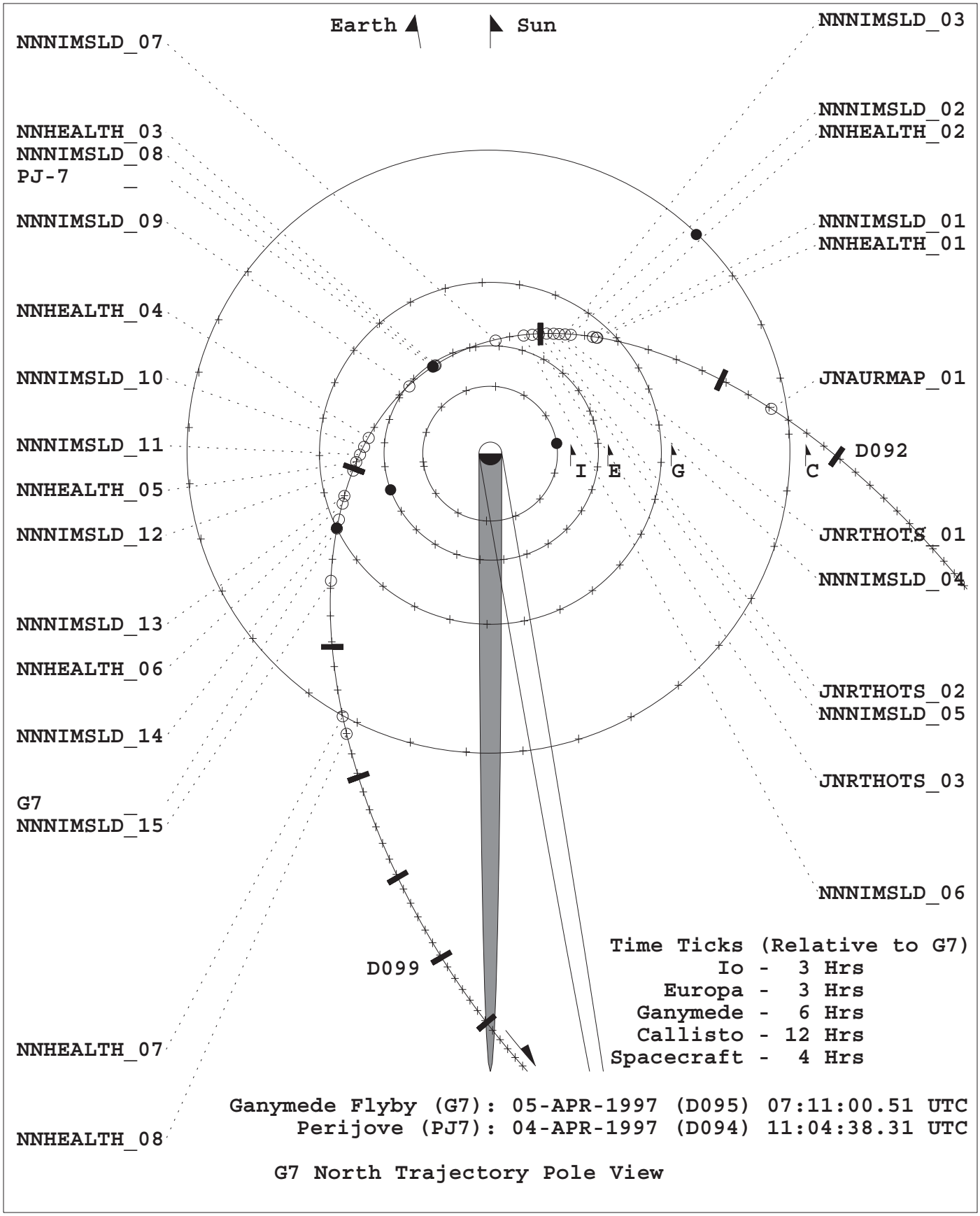
Ganymede Flyby (G7): 05-APR-1997 (D095) 07:11:01 UTC
Perijove (PJ7): 04-APR-1997 (D094) 11:04:38 UTC

Time Ticks (Relative to G7)
Spacecraft - 2 Days



G7 North Trajectory Pole View, Apoapsis to Apoapsis

NIMS G7 RAM RELOADS



NIMS - FEL - 03/07/97

NIMS G7 INPUTS

Activity ID	Observation Title	Record Table	Playback Table	Mode	Gain	Grating Start	Grating Offset	Record Format	PSID
G7NNCHOPON01	NIMS Chopper Turn on to Reference								DA
G7NNSTRCAL01	NIMS STAR CALIBRATION	G7SXM17	G7SXM17	XM	4	0	4	MPW	DB
G7JNAURMAP01	NIMS AURORA MAP	G7JLM408		LM	2	0	4	R/T	DC
G7CNGLOBAL01	Callisto Global Coverage	G7CLM442	G7CLM384	LM	4	0	4	MPW	DD
G7HNDARK 01	Dark Observation	G7DRK34	G7DRK32	LM	4	0	4	LPU	DI
G7INCHEMIS01	MONITORING OF IO'S DAYSIDE	G7ILM244B	G7ILM102B	LM	2	0	4	LPU	DE
G7INCHEMIS02	MONITORING OF IO'S DAYSIDE	G7ILM244B	G7ILM102B	LM	2	0	4	LPU	DG
G7INTHRMAL02	MONITORING OF IO'S NIGHTSIDE	G7ILMDK244B	G7ILMDK102B	LM	4	0	4	LPU	DH
G7NNHEALTH01	Health Observation	G7RCVY3		LM	2	0	4	R/T	KC
G7NNNIMSLD01	NIMS Reload								
G7INCHEMIS03	MONITORING OF IO'S DAYSIDE	G7ILM442	G7ILM102B	LM	2	0	4	MPW	DJ
G7INTHRMAL03	MONITORING OF IO'S NIGHTSIDE	G7ILM442	G7ILMDK102B	LM	4	0	4	MPW	DL
G7INVOLCAN01	MONITORING OF SELECTED VOLCANIC REGION	G7ILM442	G7ILMDK102B	LM	4	0	4	MPW	DN
G7NNHEALTH02	Health Observation	G7RCVY3		LM	2	0	4	R/T	KD
G7NNNIMSLD02	NIMS Reload								
G7INVOLCAN02	MONITORING OF SELECTED VOLCANIC REGION	G7ILMDK244B	G7ILMDK102B	LM	4	0	4	LPU	DU
G7INTHRMAL04	MONITORING OF IO'S NIGHTSIDE	G7ILM442	G7ILMDK102B	LM	4	0	4	MPW	DV
G7INHRSPEC01	MONITORING OF IO'S DAYSIDE	G7ILM442	G7ILM384	LM	2	0	4	MPW	DW
G7NNNIMSLD03	NIMS Reload								
G7JNPFC04101	Jupiter Feature Track 41 deg phase pt	G7JFT68C	G7JFT25A	SM	2	1	4	LPU	DK
G7JNFEAP4101	Jupiter Ftr and Prtl Trk 41 deg part 1	G7JFT68C	G7JFT25A	SM	2	1	4	LPU	DM
G7JNRTHOTS01	Jupiter Hotspot Real-Time Observation	G7JLM408		LM	2	0	4	R/T	FT
G7INVOLCAN03	MONITORING OF SELECTED VOLCANIC REGION	G7ILMDK244B	G7ILMDK102B	LM	4	0	4	LPU	DY
G7NNNIMSLD04	NIMS Reload								
G7INVOLCAN04	MONITORING OF SELECTED VOLCANIC REGION	G7ILMDK244B	G7ILMDK102B	LM	4	0	4	LPU	DZ
G7JNFEASUB01	Jupiter Campaign Feature sub-spectra	G7JSB253A	G7JSB80A	LM	2	0	4	LPU	DO
G7JNFEAP4102	Jupiter Ftr and Prtl Trk 41 deg part 2	G7JFT68C	G7JFT04A	SM	2	1	4	LPU	DP
G7JNPFTB4101	Jupiter Partial Ftr. Trk. B 41 deg prt	G7JFT68C	G7JFT25A	SM	2	1	4	LPU	DQ
G7JNRTHOTS02	Jupiter Hotspot Real-Time Observation	G7JLM408		LM	2	0	4	R/T	FW
G7NNNIMSLD05	NIMS Reload								
G7JNPFTB4102	Jupiter Partial Ftr Trk B 41 deg prt 2	G7JFT68C	G7JFT04A	SM	2	1	4	LPU	DR
G7JNPFTD4101	Jupiter Partial Ftr Trk B 41 deg prt 3	G7JFT68C	G7JFT25A	SM	2	1	4	LPU	DT
G7JNRTHOTS03	Jupiter Hotspot Real-Time Observation	G7JLM408		LM	2	0	4	R/T	FY
G7INVOLCAN05	MONITORING OF SELECTED VOLCANIC REGION	G7ILM442	G7ILMDK102B	LM	4	0	4	MPW	EA

NIMS G7 INPUTS

Activity ID	Observation Title	Record Table	Playback Table	Mode	Gain	Grating Start	Grating Offset	Record Format	PSID
G7HNDARK_02	Dark Observation	G7DRK34	G7DRK32	LM	2	0	4	LPU	DS
G7INCHEMIS04	MONITORING OF IO'S DAYSIDE	G7ILM244B	G7ILM102B	LM	2	0	4	LPU	EB
G7INTHRMAL05	MONITORING OF IO'S NIGHTSIDE	G7ILMDK244B	G7ILMDK102B	LM	4	0	4	LPU	EC
G7NNNIMSLD06	NIMS Reload								
G7ENFLEXUS01	Europa Global Mosaic Campaign	G7ELM244B	G7ELM228B	LM	3,2,4	0	4	LPU	DX
G7JNFEX00202	Jupiter Feature Track 2 deg phase pt 2	G7JFT68C	G7JFT04A	SM	2	1	4	MPW	EE
G7NNNIMSLD07	NIMS Reload								
G7INCHEMIS05	MONITORING OF IO'S DAYSIDE	G7ILM244B	G7ILM228B	LM	2	0	4	LPU	EF
G7JNFEX00203	Jupiter Feature Track 2 deg phase pt 3	G7JFT68A	G7JFT04A	SM	2	1	4	LPU	EG
G7ENTYREMA01	Europa Tyre Macula Region	G7ELM442	G7ELM301	LM	2	0	4	MPW	EH
G7NNHEALTH03	Health Observation	G7RCVY3		LM	2	0	4	R/T	KE
G7NNNIMSLD08	NIMS Reload								
G7JNHOTMAP01	NIMS Jupiter Hotmap Observation	G7JHT238A	G7JHT72A	LM	2	0	4	LPU	FR
G7NNNIMSLD09	NIMS Reload								
G7INCHEMIS06	MONITORING OF IO'S DAYSIDE	G7ILM244B	G7ILM228B	LM	2	0	4	LPU	EI
G7JNFEAP6601	Jupiter Ftr and Prtl Trk 66 deg prt 1	G7JFT68C	G7JFT25A	SM	2	1	4	LPU	EJ
G7JNPFTB6601	Jupiter Partial Ftr Trk B 66 deg prt 1	G7JFT68C	G7JFT25A	SM	2	1	4	LPU	EK
G7NNHEALTH04	Health Observation	G7RCVY3		LM	2	0	4	R/T	KF
G7NNNIMSLD10	NIMS Reload								
G7JNFEAP6602	Jupiter Feature Track 66 deg phase pt	G7JFT68C	G7JFT04A	SM	2	1	4	LPU	EL
G7JNPFTB6602	Jupiter Partial Ftr Trk B 66 deg prt 2	G7JFT68C	G7JFT04A	SM	2	1	4	LPU	EM
G7JNPFC06601	Jupiter Ftr Trk 66 deg phase pt 3	G7JFT68C	G7JFT25A	SM	2	1	4	LPU	EN
G7JNFEA53M01	Jupiter Campaign Feature 5 and 3 um Ma	G7J35160	G7J35100	LM	4	0	4	LPU	EO
G7NNNIMSLD11	NIMS Reload								
G7JNFEA5UM01	Jupiter Feature Track 5 Micron Map 2	G7J5M253B	G7J5M80B	LM	4	0	4	MPW	EP
G7NNHEALTH05	Health Observation	G7RCVY3		LM	2	0	4	R/T	KG
G7INCHEMIS07	MONITORING OF IO'S DAYSIDE	G7ILM244B	G7ILM102B	LM	2	0	4	LPU	ER
G7NNNIMSLD12	NIMS Reload								
G7GNGLOBAL01	GANYMEDE GLOBAL SURFACE MAP	G7GLM244G	G7GLM192	LM	3	0	4	LPU	ES
G7JNFEX10801	Jupiter Feature Track 108 deg phse prt 1	G7JFT68C	G7JFT04A	SM	2	1	4	MPW	ET
G7JNFEX10802	Jupiter Feature Track 108 deg phse prt 2	G7JFT68C	G7JFT04A	SM	2	1	4	LPU	EU
G7NNNIMSLD13	NIMS Reload								
G7JNFEX10803	Jupiter Feature Track 108 deg phse prt 3	G7JFT68C	G7JFT04A	SM	2	1	4	LPU	EV
G7NNHEALTH06	Health Observation	G7RCVY3		LM	2	0	4	R/T	KH

NIMS G7 INPUTS

Activity ID	Observation Title	Record Table	Playback Table	Mode	Gain	Grating Start	Grating Offset	Record Format	PSID
G7GNNHILAT01	Ganymede North High Latitude Region Map	G7GLM245H	G7GLM192	LM	3	0	4	LPU	LA
G7INTHRMAL06	MONITORING OF IO'S NIGHTSIDE	G7ILMDK244B	G7ILMDK102B	LM	4	0	4	LPU	EW
G7NNNIMSLD14	NIMS Reload								
G7GNBRITRL01	BRIGHT ENDMEMBER FROM TRAIL HEMISPHERE	G7GLM442	G7GLM384	LM	3	0	4	MPW	EX
G7GNKITTU 01	Dark Rayed crater KITTU	G7GLM442	G7GLM192	LM	3	0	4	MPW	EY
G7NNNIMSLD15	NIMS Reload								
G7GNGLOBAL02	GANYMEDE GLOBAL SURFACE MAP	G7GLM442	G7GLM192	LM	3	0	4	MPW	FC
G7JNFEA13001	Jupiter Feature Track 130 deg phase prt 1	G7JFT68B	G7JFT04A	SM	2	1	4	LPU	EZ
G7JNFEA13002	Jupiter Feature Track 130 deg phase prt 2	G7JFT68B	G7JFT15A	SM	2	1	4	LPU	FA
G7JNPFB13001	Jupiter Feature Track 130 deg phase prt 3	G7JFT68B	G7JFT15A	SM	2	1	4	LPU	FB
G7JNTHRMNS01	Jupiter Thermal North South Stripe	G7J5M253B	G7J5M80B	LM	4	0	4	LPU	FD
G7HNDARK_04	Dark Observation	G7DRK34	G7DRK32	LM	3	0	4	LPU	FE
G7JNFEA14201	Jupiter Feature Track 142 deg phase prt 1	G7JFT68C	G7JFT04A	SM	2	1	4	LPU	FF
G7JNPFC14201	Jupiter Feature Track 142 deg phase prt 2	G7JFT68C	G7JFT04A	SM	2	1	4	LPU	FG
G7JNPFB14201	Jupiter Feature Track 142 deg phase prt 3	G7JFT68C	G7JFT04A	SM	2	1	4	LPU	FH
G7NNHEALTH07	Health Observation	G7RCVY3		LM	2	0	4	R/T	KI
G7JNPFB15001	Jupiter Feature Track 150 deg phase prt 1	G7JFT68C	G7JFT04A	SM	2	1	4	LPU	FI
G7JNPFC15001	Jupiter Feature Track 150 deg phase prt 2	G7JFT68C	G7JFT04A	SM	2	1	4	LPU	FJ
G7JNFEA15003	Jupiter Feature Track 150 deg phase prt 3	G7JFT68C	G7JFT04A	SM	2	1	4	LPU	FK
G7NNHEALTH08	Health Observation	G7RCVY3		LM	2	0	4	R/T	KJ
G7JNFEZ15701	Jupiter Feature Track 157 deg phase prt 1	G7JFT68C	G7JFT04A	SM	2	1	4	LPU	FL
G7JNFEZ15702	Jupiter Feature Track 157 deg phase prt 2	G7JFT68C	G7JFT04A	SM	2	1	4	LPU	FM
G7JNFEZ15703	Jupiter Feature Track 157 deg phase prt 3	G7JFT68C	G7JFT04A	SM	2	1	4	LPU	FN
G7NNCHOPOF01	NIMS Chopper Turn Off								FJ
G7NNRCTRLT01	NIMS RCT Calibration	G7RCT252		LM	1	0	4	R/T	XE
G7NNPCTRLT01	NIMS PCT Calibration	G7PCT252		LM	4	0	4	R/T	FA
G7NNOPCAL 01	NIMS OPCAL	G7OPCAL120		LM	4	0	4	R/T	DN

G7 NIMS RESOURCES

Activity ID	Mode	Record Format	Obs. Cost (tracks)	Obs. Cost (ticks)	Wave-lengths return	Record Time (sec)	PB Time (sec)	Sel Bits of Tape sBOT (Mbits)	Total Bits of Tape BOT (Mbit)	Mode cycle time (sec)
G7NNSTRCAL01-	XM	MPW	0.0050	35	17	36.67	36.67	0.42	0.42	0.333
G7JNAURMAP01+	LM	R/T			408					
G7CNGLOBAL01-	LM	MPW	0.0365	254	384	286.67	58.79	0.68	3.30	8.667
G7HNDARK__01-	LM	LPU	0.0023	16	32	60.67	60.67	0.37	0.37	8.667
G7INCHEMIS01-	LM	LPU	0.0047	33	102	131.33	131.33	0.81	0.81	8.667
G7INCHEMIS02-	LM	LPU	0.0051	36	102	144.67	0.00	0.00	0.89	8.667
G7INTHRMAL02-	LM	LPU	0.0026	18	102	68.00	0.00	0.00	0.42	8.667
G7NNHEALTH01-	LM	R/T			3					8.667
G7INCHEMIS03-	LM	MPW	0.0251	175	102	196.67	0.00	0.00	2.27	8.667
G7INTHRMAL03-	LM	MPW	0.0100	70	102	76.67	0.00	0.00	0.88	8.667
G7INVOLCAN01-	LM	MPW	0.0100	70	102	76.67	0.00	0.00	0.88	8.667
G7NNHEALTH02-	LM	R/T			3					8.667
G7INVOLCAN02-	LM	LPU	0.0034	24	102	93.33	0.00	0.00	0.58	8.667
G7INTHRMAL04-	LM	MPW	0.0152	106	102	118.00	0.00	0.00	1.36	8.667
G7INHRSPEC01-	LM	MPW	0.0228	159	384	178.00	178.00	2.05	2.05	8.667
G7JNPFC04101-	SM	LPU	0.0036	25	25	100	100	0.62	0.62	2.33
G7JNFEAP4101-	SM	LPU	0.0104	72	25	300	300	1.85	1.85	2.33
G7JNRTHOTS01-	LM	R/T			408					
G7INVOLCAN03-	LM	LPU	0.0029	20	102	76.67	0.00	0.00	0.47	8.667
G7INVOLCAN04-	LM	LPU	0.0023	16	102	60.67	0.00	0.00	0.37	8.667
G7JNFEASUB01-	LM	LPU	0.0125	87	80	364	320	1.97	2.25	8.667
G7JNFEAP4102-	SM	LPU	0.0104	72	4	300	300	1.85	1.85	2.33
G7JNPFTB4101-	SM	LPU	0.0075	52	25	213.33	213.33	1.32	1.32	2.33
G7JNRTHOTS02-	LM	R/T			408					
G7JNPFTB4102-	SM	LPU	0.0075	52	4	213.33	213.33	1.32	1.32	2.33
G7JNPFTD4101-	SM	LPU	0.0075	52	25	213.33	213.33	1.32	1.32	2.33
G7JNRTHOTS03-	LM	R/T			408					
G7INVOLCAN05-	LM	MPW	0.0080	56	102	60.67	0.00	0.00	0.70	8.667
G7HNDARK__02-	LM	LPU	0.0023	16	32	60.67	60.67	0.37	0.37	8.667
G7INCHEMIS04-	LM	LPU	0.0102	71	102	294.67	0.00	0.00	1.82	8.667
G7INTHRMAL05-	LM	LPU	0.0047	33	102	131.33	0.00	0.00	0.81	8.667
G7ENFLEXUS01-	LM	LPU	0.0462	322	228	1366.00	60.67	0.37	8.43	8.667
G7JNFEX00202-	SM	MPW	0.0130	90	4	100	100	1.15	1.15	2.33
G7INCHEMIS05-	LM	LPU	0.0105	73	228	303.34	242.67	1.50	1.87	8.667
G7JNFEX00203-	SM	LPU	0.0036	25	4	100	100	0.62	0.62	2.33

G7 NIMS RESOURCES

Activity ID	Mode	Record Format	Obs. Cost (tracks)	Obs. Cost (ticks)	Wave-lengths return	Record Time (sec)	PB Time (sec)	Sel Bits of Tape sBOT (Mbits)	Total Bits of Tape BOT (Mbit)	Mode cycle time (sec)
G7ENTYREMA01-	LM	MPW	0.1243	867	301	984.00	979.67	11.29	11.34	8.667
G7NNHEALTH03-	LM	R/T			3					8.667
G7JNHOTMAP01-	LM	LPU	0.0267	186	72	786	667	4.11	4.85	8.667
G7INCHEMIS06-	LM	LPU	0.0084	59	228	242.67	242.67	1.50	1.50	8.667
G7JNFEAP6601-	SM	LPU	0.0104	72	25	300	300	1.85	1.85	2.33
G7JNPFTB6601-	SM	LPU	0.0075	52	25	213.33	213.33	1.32	1.32	2.33
G7NNHEALTH04-	LM	R/T			3					8.667
G7JNFEAP6602-	SM	LPU	0.0104	72	4	300	300	1.85	1.85	2.33
G7JNPFTB6602-	SM	LPU	0.0075	52	4	213.33	213.33	1.32	1.32	2.33
G7JNPFC06601-	SM	LPU	0.0104	72	25	300	300	1.85	1.85	2.33
G7JNFEA53M01-	LM	LPU	0.0288	201	100	849.338	320	1.97	5.24	8.667
G7JNFEA5UM01-	LM	MPW	0.0462	322	80	364	300	3.46	4.19	8.667
G7NNHEALTH05-	LM	R/T			3					8.667
G7INCHEMIS07-	LM	LPU	0.0064	45	102	182.00	0.00	0.00	1.12	8.667
G7GNGLOBAL01-	LM	LPU	0.0725	506	192	2150.67	1564.33	9.65	13.27	8.667
G7JNFEX10801-	SM	MPW	0.0130	90	4	100	100	1.15	1.15	2.33
G7JNFEX10802-	SM	LPU	0.0036	25	4	100	100	0.62	0.62	2.33
G7JNFEX10803-	SM	LPU	0.0036	25	4	100	100	0.62	0.62	2.33
G7NNHEALTH06-	LM	R/T			3					8.667
G7GNNHILAT01-	LM	LPU	0.0467	326	192	1382.67	835.67	5.15	8.53	8.667
G7INTHRMAL06-	LM	LPU	0.0065	45	102	184.67	184.67	1.14	1.14	8.667
G7GNBRITRL01-	LM	MPW	0.0362	253	384	284.67	284.67	3.28	3.28	8.667
G7GNKITTU_01-	LM	MPW	0.0886	618	192	700.67	700.67	8.07	8.07	8.667
G7GNGLOBAL02-	LM	MPW	0.0544	380	192	429.33	429.33	4.95	4.95	8.667
G7JNFEA13001-	SM	LPU	0.0036	25	4	100	100	0.62	0.62	2.33
G7JNFEA13002-	SM	LPU	0.0036	25	15	100	100	0.62	0.62	2.33
G7JNPFB13001-	SM	LPU	0.0036	25	15	100	100	0.62	0.62	2.33
G7JNTHRMNS01-	LM	LPU	0.0530	370	80	1570	300	1.85	9.68	8.667
G7HNDARK__04-	LM	LPU	0.0023	16	32	60.67	60.67	0.37	0.37	8.667
G7JNFEA14201-	SM	LPU	0.0036	25	4	100	100	0.62	0.62	2.33
G7JNPFC14201-	SM	LPU	0.0036	25	4	100	100	0.62	0.62	2.33
G7JNPFB14201-	SM	LPU	0.0036	25	4	100	100	0.62	0.62	2.33
G7NNHEALTH07-	LM	R/T			3					8.667
G7JNPFB15001-	SM	LPU	0.0036	25	4	100	100	0.62	0.62	2.33
G7JNPFC15001-	SM	LPU	0.0036	25	4	100	100	0.62	0.62	2.33

G7 NIMS RESOURCES

Activity ID	Mode	Record Format	Obs. Cost (tracks)	Obs. Cost (ticks)	Wave-lengths return	Record Time (sec)	PB Time (sec)	Sel Bits of Tape sBOT (Mbits)	Total Bits of Tape BOT (Mbit)	Mode cycle time (sec)
G7JNFEA15003-	SM	LPU	0.0036	25	4	100	100	0.62	0.62	2.33
G7NNHEALTH08-	LM	R/T			3					8.667
G7JNFEZ15701-	SM	LPU	0.0036	25	4	100	100	0.62	0.62	2.33
G7JNFEZ15702-	SM	LPU	0.0036	25	4	100	100	0.62	0.62	2.33
G7JNFEZ15703-	SM	LPU	0.0036	25	4	100	100	0.62	0.62	2.33
G7NNRCTRLT01-	LM	R/T			252					
G7NNPCTRLT01	LM	R/T			252					
G7NNOPCAL_01	LM	R/T			120					
Total			1.017						136.855	
Allocated										
Oversubscribed										

G7 NIMS RESOURCES

Activity ID	AACS Mbits (Comp. 2.5)	RT BTG Thold (Mbits)	Comp	Playback BTG (Mbits) (4% Ohead)	Data Reduct Factor (sBOT/BTG)	BTG (Mbits) SWG	BTG (Mbits) AWG	Pass
G7NNSTRCAL01-	0.0021	0	2.00	0.1947	2.2		0.1947	1
G7JNAURMAP01+		0.636						
G7CNGLOBAL01-	0.0034	2	2.10	0.2580	2.6	0.2580		2
G7HNDARK__01-	0.0035	0	2.00	0.0233	16.1		0.0233	1
G7INCHEMIS01-	0.0076	2	1.20	0.2679	3.0	0.2679		1
G7INCHEMIS02-	0.0000	2	1.20	0.0000		0.0000		1
G7INTHRMAL02-	0.0000	2	2.00	0.0000		0.0000		1
G7NNHEALTH01-		0.001						
G7INCHEMIS03-	0.0000	2	1.20	0.0000		0.0000		1
G7INTHRMAL03-	0.0000	2	2.00	0.0000		0.0000		1
G7INVOLCAN01-	0.0000	2	3.60	0.0000		0.0000		1
G7NNHEALTH02-		0.001						
G7INVOLCAN02-	0.0000	2	3.60	0.0000		0.0000		1
G7INTHRMAL04-	0.0000	2	2.00	0.0000		0.0000		1
G7INHRSPEC01-	0.0103	2	1.25	1.3123	1.6	1.3123		1,2
G7JNPFC04101-	0.0058	0	1.80	0.1240	5.0		0.1240	1
G7JNFEAP4101-	0.0173	0	2.00	0.3348	5.5		0.3348	2
G7JNRTHOTS01-		0.016						
G7INVOLCAN03-	0.0000	2	3.60	0.0000		0.0000		1
G7INVOLCAN04-	0.0000	2	3.60	0.0000		0.0000		1
G7JNFEASUB01-	0.0184	0	1.80	0.3413	5.8		0.3413	1
G7JNFEAP4102-	0.0173	0	1.80	0.0595	31.1		0.0595	2
G7JNPFTB4101-	0.0123	0	1.80	0.2645	5.0		0.2645	1
G7JNRTHOTS02-		0.016						
G7JNPFTB4102-	0.0123	0	1.80	0.0423	31.1		0.0423	1
G7JNPFTD4101-	0.0123	0	1.80	0.2645	5.0		0.2645	1
G7JNRTHOTS03-		0.016						
G7INVOLCAN05-	0.0000	2	3.60	0.0000		0.0000		1
G7HNDARK__02-	0.0035	0	2.00	0.0233	16.1		0.0233	1
G7INCHEMIS04-	0.0000	2	1.20	0.0000		0.0000		2
G7INTHRMAL05-	0.0000	2	2.00	0.0000		0.0000		1
G7ENFLEXUS01-	0.0035	0	1.30	0.2554	1.5	0.2554		1
G7JNFEX00202-	0.0058	0	1.80	0.0198	58.1		0.0198	1
G7INCHEMIS05-	0.0140	2	1.20	1.1065	1.4	1.1065		1
G7JNFEX00203-	0.0058	0	1.80	0.0198	31.1		0.0198	1

G7 NIMS RESOURCES

Activity ID	AACS Mbits (Comp. 2.5)	RT BTG (Mbits)	Thold	Comp	Playback BTG (Mbits) (4% Ohead)	Data Reduct Factor (sBOT/BTG)	BTG (Mbits) SWG	BTG (Mbits) AWG	Pass
G7ENTYREMA01-	0.0564		0	1.30	5.4437	2.1	5.4437		1,2
G7NNHEALTH03-		0.001							
G7JNHOTMAP01-			0	1.30	0.8866	4.6		0.8866	1
G7INCHEMIS06-	0.0140		2	1.20	1.1065	1.4	1.1065		1
G7JNFEAP6601-	0.0173		0	1.80	0.3720	5.0		0.3720	1
G7JNPFTB6601-	0.0123		0	1.80	0.2645	5.0		0.2645	1
G7NNHEALTH04-		0.001							
G7JNFEAP6602-	0.0173		0	1.80	0.0595	31.1		0.0595	1
G7JNPFTB6602-	0.0123		0	1.80	0.0423	31.1		0.0423	1
G7JNPFC06601-	0.0173		0	1.80	0.3720	5.0		0.3720	1
G7JNFEA53M01-	0.0184		0	1.30	0.5907	3.3		0.5907	2
G7JNFEA5UM01-	0.0173		0	1.30	0.4431	7.8		0.4431	1
G7NNHEALTH05-		0.001							
G7INCHEMIS07-	0.0000		2	1.20	0.0000		0.0000		1
G7GNGLOBAL01-	0.0901		0	2.20	3.2764	2.9	3.2764		1,2
G7JNFEX10801-	0.0058		0	1.80	0.0198	58.1		0.0198	1
G7JNFEX10802-	0.0058		0	1.80	0.0198	31.1		0.0198	1
G7JNFEX10803-	0.0058		0	1.80	0.0198	31.1		0.0198	1
G7NNHEALTH06-		0.001							
G7GNNHILAT01-	0.0481		0	1.30	2.9620	1.7	2.9620		1
G7INTHRMAL06-	0.0106		0	2.00	0.2260	5.0	0.2260		1
G7GNBRITRL01-	0.0164		0	1.70	1.5432	2.1	1.5432		2
G7GNKITTU_01-	0.0404		0	1.70	1.8992	4.3	1.8992		1,2
G7GNGLOBAL02-	0.0247		0	2.15	0.9201	5.4	0.9201		2
G7JNFEA13001-	0.0058		0	1.80	0.0198	31.1		0.0198	1
G7JNFEA13002-	0.0058		0	1.80	0.0744	8.3		0.0744	1
G7JNPFB13001-	0.0058		0	1.80	0.0744	8.3		0.0744	1
G7JNTHRMNS01-	0.0173		0	1.30	0.4431	4.2		0.4431	1
G7HNDARK__04-	0.0035		0	2.00	0.0233	16.1		0.0233	1
G7JNFEA14201-	0.0058		0	1.80	0.0198	31.1		0.0198	1
G7JNPFC14201-	0.0058		0	1.80	0.0198	31.1		0.0198	1
G7JNPFB14201-	0.0058		0	1.80	0.0198	31.1		0.0198	1
G7NNHEALTH07-		0.001							
G7JNPFB15001-	0.0058		0	1.80	0.0198	31.1		0.0198	1
G7JNPFC15001-	0.0058		0	1.80	0.0198	31.1		0.0198	2

G7 NIMS RESOURCES

Activity ID	AACS Mbits (Comp. 2.5)	RT BTG (Mbits)	Thold	Comp	Playback BTG (Mbits) (4% Ohead)	Data Reduct Factor (sBOT/BTG)	BTG (Mbits) SWG	BTG (Mbits) AWG	Pass
G7JNFEA15003-	0.0058		0	1.80	0.0198	31.1		0.0198	1
G7NNHEALTH08-		0.001							
G7JNFEZ15701-	0.0058		0	1.80	0.0198	31.1		0.0198	1
G7JNFEZ15702-	0.0058		0	1.80	0.0198	31.1		0.0198	2
G7JNFEZ15703-	0.0058		0	1.80	0.0198	31.1		0.0198	1
G7NNRCTRLT01-		0.040						0.0400	
G7NNPCTRLT01		0.120						0.1200	
G7NNOPCAL_01		0.014						0.0140	
Total		0.866	0	2.00	26.193		20.5773	5.7895	
Allocated							20.7020	5.5110	
Oversubscribed							-0.1247	0.2785	

NIMS G7 OBSERVING GEOMETRY

OAPEL	Latitude (deg)	Longitude (deg)	Range (km)	Cone (deg)	Light (deg)	View (deg)	Phase (deg)
G7NNSTRCAL01	----------	----------	-------	115	----------	----------	----------
G7JNAURMAP01	60	184	1700K	92	110 to 115	76 to 81	77
G7CNGLOBAL01	-90 to +90	30 to 150	640K	168	3 to 111	2 to 90	20
G7INCHEMIS01	-90 to +90	119 to 356	1348K	122	60 to 104	90	---------
G7INCHEMIS02	-90 to +90	22 to 201	1027K	129	56 to 114	58 to 90	41
G7INTHRMAL02	-90 to +90	201	1023K	129	107 to 119	90	---------
G7INCHEMIS03	-90 to +90	101 to 234	561K	124	2 to 90	3 to 90	46
G7INTHRMAL03	-90 to +90	219 to 281	560K	124	74 to 136	28 to 90	46
G7INVOLCAN01	-90 to +90	234 to 282	559K	124	88 to 136	42 to 90	46
G7INVOLCAN02	-90 to +90	244 to 30	530K	119	75 to 140	24 to 90	51
G7INTHRMAL04	-90 to +90	240 to 311	530K	119	70 to 141	20 to 90	51
G7INHRSPEC01	-90 to +90	131 to 260	530K	119	2 to 89	4 to 90	51
G7JNPFC04101	17 to 22	60 to 70	823K	142	62 to 73	38 to 48	28
G7JNFEAP4101	10 to 20	60 to 89	813K	142	49 to 80	24 to 55	27
G7JNRTHOTS01	12	50	795K	141	37	15	29
G7INVOLCAN03	-90 to +90	262 to 325	534K	119	79 to 142	27 to 90	52

NIMS G7 OBSERVING GEOMETRY

OAPEL	Latitude (deg)	Longitude (deg)	Range (km)	Cone (deg)	Light (deg)	View (deg)	Phase (deg)
G7INVOLCAN04	-90 to +90	279 to 311	536K	119	93 to 126	42 to 75	52
G7JNFEASUB01	10 to 20	61 to 69	772K	143	18 to 27	16 to 22	27
G7JNFEAP4102	10 to 20	60 to 82	768K	143	14 to 31	16 to 30	27
G7JNPFTB4101	35 to 55	75 to 86	780K	145	43 to 53	43 to 53	26
G7JNRTHOTS02	6.5	90	758K	146	27	8	25
G7JNPFTB4102	35 to 55	69 to 91	766K	147	42 to 57	53 to 72	24
G7JNPFTD4101	20 to 40	49 to 82	774K	147	40 to 69	60 to 90	24
G7JNRTHOTS03	6.5	124	723K	150	9	16	20
G7INVOLCAN05	90 to +90	286 to 343	556K	121	82 to 139	32 to 90	49
G7INCHEMIS04	90 to +90	165 to 297	559K	122	2 to 89	2 to 90	49
G7INTHRMAL05	90 to +90	278 to 347	561K	122	69 to 138	21 to 90	48
G7ENFLEXUS01	50 to 50	158 to 208	82K to 90K	149	2 to 47	2 to 40	21
G7JNFEX00202	0 to 20	273 to 283	676K	169	45 to 56	44 to 55	2
G7INCHEMIS05	90 to +90	184 to 345	600K	132	2 to 108	5 to 90	37
G7JNFEX00203	10 to 20	275 to 281	631K	171	15 to 15	16 to 16	2
G7ENTYREMA01	25 to 45	134 to 152	24K	129 to 143	45 to 59	31 to 40	47 to 61

NIMS G7 OBSERVING GEOMETRY

OAPEL	Latitude (deg)	Longitude (deg)	Range (km)	Cone (deg)	Light (deg)	View (deg)	Phase (deg)
G7JNHOTMAP01	7 to 7	114 to 127	588K	152	8 to 26	15 to 35	37
G7INCHEMIS06	-90 to +90	27 to 359	746K	171	10 to 93	7 to 90	17
G7JNFEAP6601	10 to 20	50 to 100	711K to 764K	103	15 to 52	37 to 90	85
G7JNPFTB6601	35 to 55	66 to 104	733K to 768K	103	45 to 55	60 to 90	86
G7JNFEAP6602	10 to 20	59 to 82	725K to 734K	101	55 to 80	17 to 37	88
G7JNPFTB6602	35 to 55	74 to 88	745K to 757K	101	68 to 76	47 to 60	88
G7JNPFC06601	17 to 23	60 to 82	736K	101	67 to 91	21 to 31	88
G7JNFEA53M01	10 to 18	62 to 68	745K to 756K	101	100 to 113	18 to 30	88
G7JNFEA5UM01	10 to 18	60 to 69	780K to 794K	100	128 to 140	42 to 54	89
G7INCHEMIS07	-90 to +90	51 to 231	1151K	110	45 to 109	90	----------
G7GNGLOBAL01	-90 to +90	0 to 360	185K to 206K	109	4 to 101	2 to 90	61
G7JNFEX10801	10 to 18	260 to 291	879K to 916K	83	21 to 49	61 to 92	106
G7JNFEX10802	10 to 18	272 to 285	888K to 901K	81	51 to 65	46 to 60	108
G7JNFEX10803	10 to 18	274 to 283	895K to 899K	81	80 to 89	24 to 33	109
G7GNNHILAT01	30 to 90	0 to 360	655K to 780K	108	51 to 104	35 to 70	62
G7INTHRMAL06	-90 to +90	71 to 249	1391K	87	84 to 116	90	----------

NIMS G7 OBSERVING GEOMETRY

OAPEL	Latitude (deg)	Longitude (deg)	Range (km)	Cone (deg)	Light (deg)	View (deg)	Phase (deg)
G7GNBRITRL01	25 to 30	293 to 305	22K to 24K	96	27 to 29	64 to 75	73
G7GNKITTU_01	-2 to +2	333 to 340	8K to 13K	74 to 90	35 to 43	41 to 69	81 to 98
G7GNGLOBAL02	-60 to +50	229 to 284	222K	70	35 to 86	40 to 90	120
G7JNFEA13001	10 to 17	42 to 76	1330K	55	47 to 80	57 to 90	134
G7JNFEA13002	10 to 18	55 to 90	1344K	54	48 to 83	54 to 90	135
G7JNPFB13001	40 to 50	61 to 94	1354K	54	67 to 91	60 to 83	135
G7JNTHRMNS01	-90 to +90	3 to 134	1385K	54	87 to 140	4 to 91	135
G7JNFEA14201	10 to 18	43 to 82	1626K	44	57 to 96	52 to 90	145
G7JNPFC14201	10 to 30	51 to 89	1634K	44	59 to 95	54 to 90	146
G7JNPFB14201	35 to 50	60 to 98	1645K	44	66 to 95	63 to 90	145
G7JNPFB15001	10 to 20	40 to 80	1896K	36	65 to 104	51 to 90	153
G7JNPFC15001	14 to 30	44 to 84	1900K	36	66 to 104	52 to 90	153
G7JNFEA15003	32 to 55	52 to 93	1911K	36	71 to 102	62 to 90	153
G7JNFEZ15701	5 to 25	125 to 166	1958K	35	66 to 107	50 to 90	155
G7JNFEZ15702	5 to 25	139 to 174	1966K	35	66 to 100	56 to 90	155
G7JNFEZ15703	5 to 25	139 to 174	1972K	35	66 to 100	56 to 90	155

Phase 2A Tapemap of g07a12g.tapemap-c
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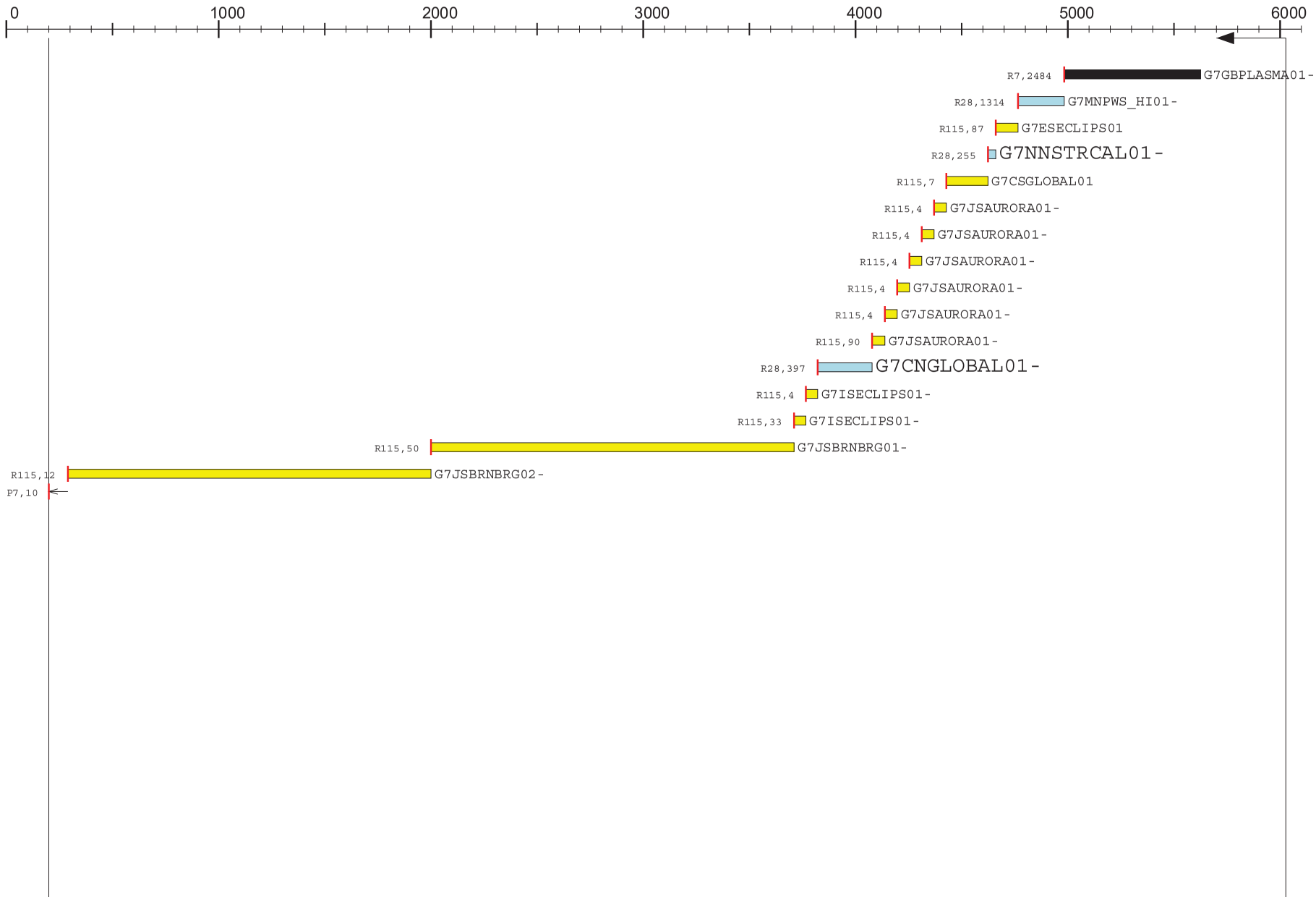
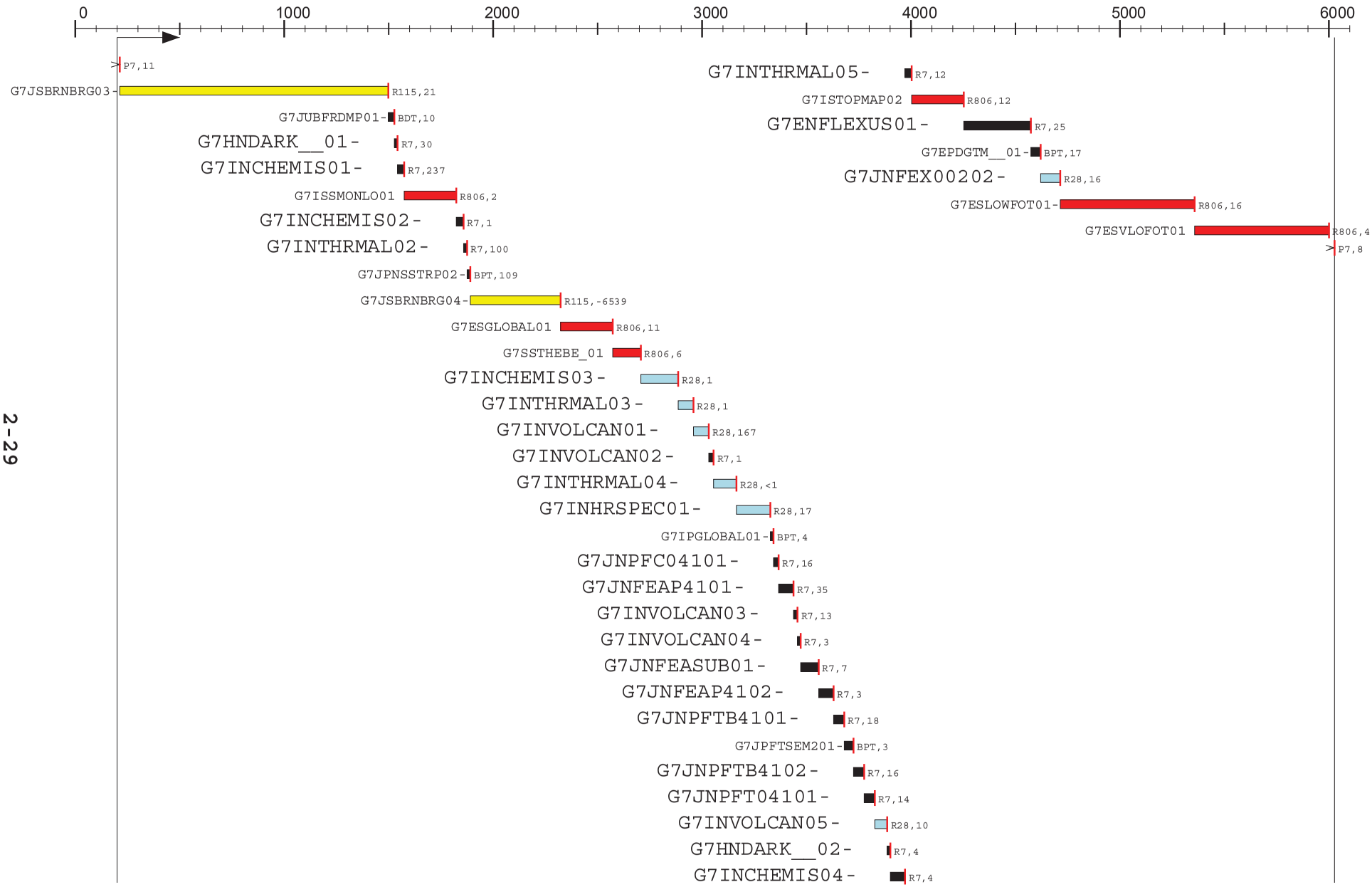
Track 4



J.Culwell, 31-Dec-96, v0.02

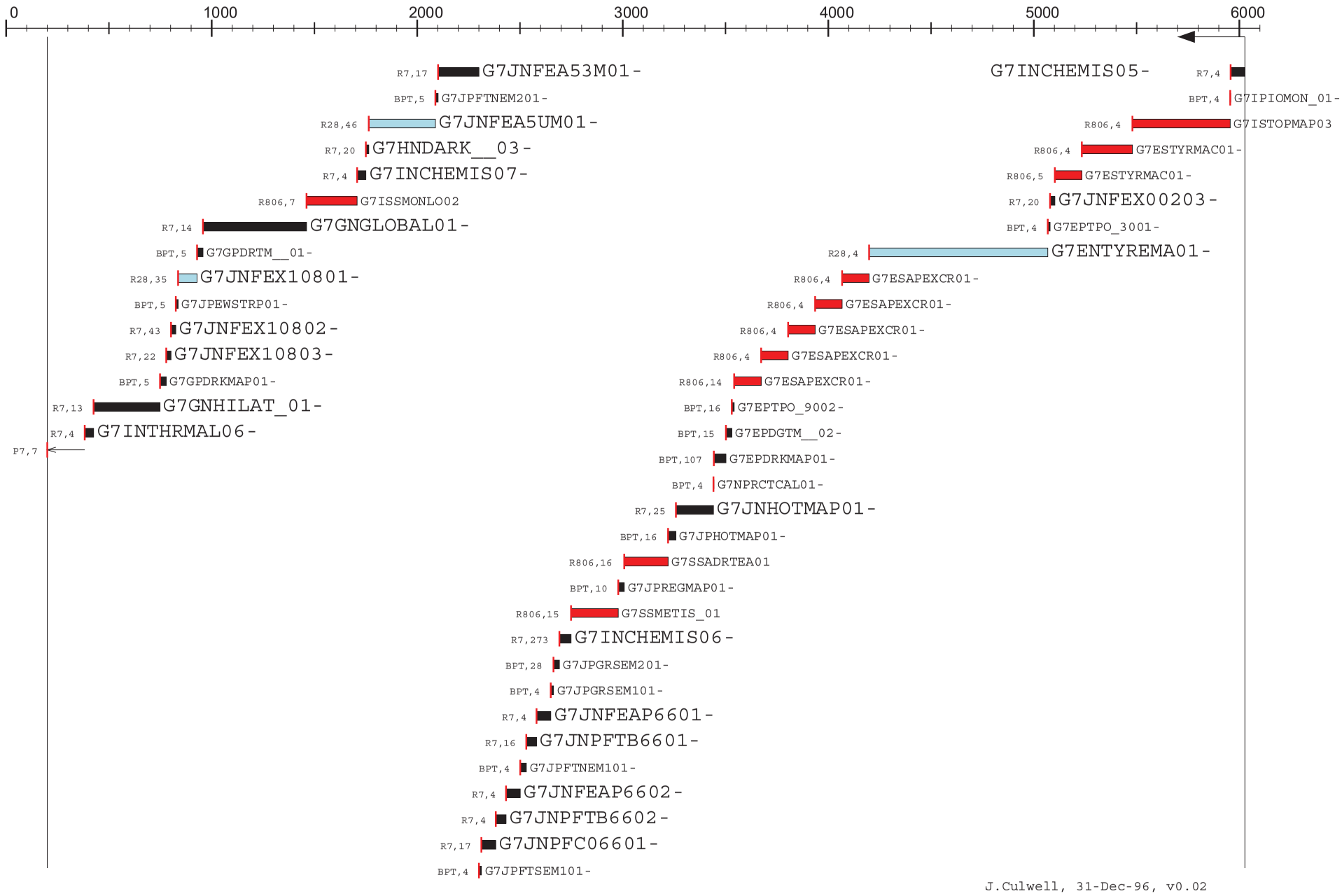
Phase 2A Tapemap of g07a12g.tapemap-c
Date: Thu Apr 3 16:14:09 1997 Page: 2

Track 1



J.Culwell, 31-Dec-96, v0.02

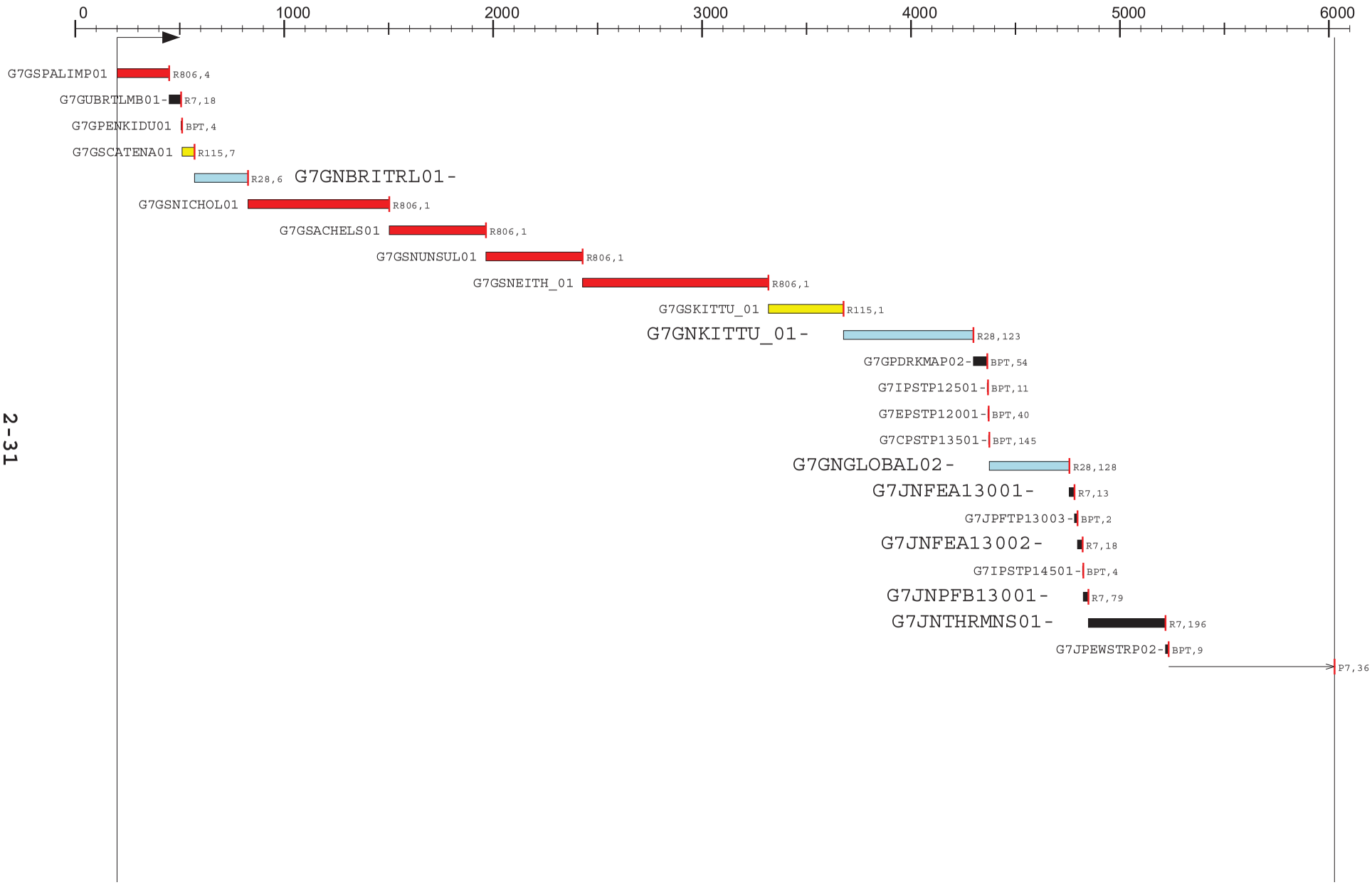
Track 2



J.Culwell, 31-Dec-96, v0.02

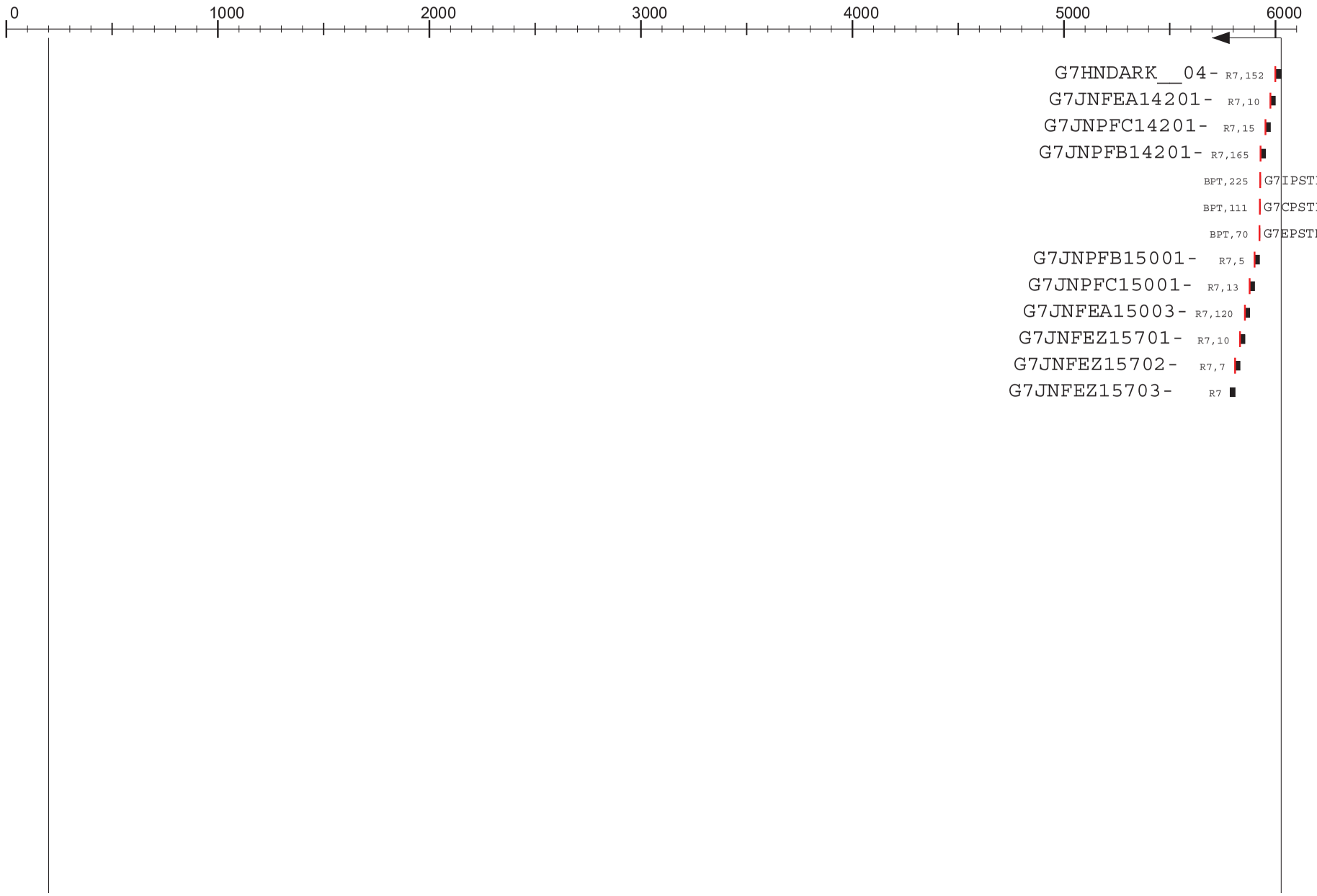
Phase 2A Tapemap of g07a12g.tapemap-c
Date: Thu Apr 3 16:14:09 1997 Page: 4

Track 3



J.Culwell, 31-Dec-96, v0.02

Track 4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3000
4000
5000
6000
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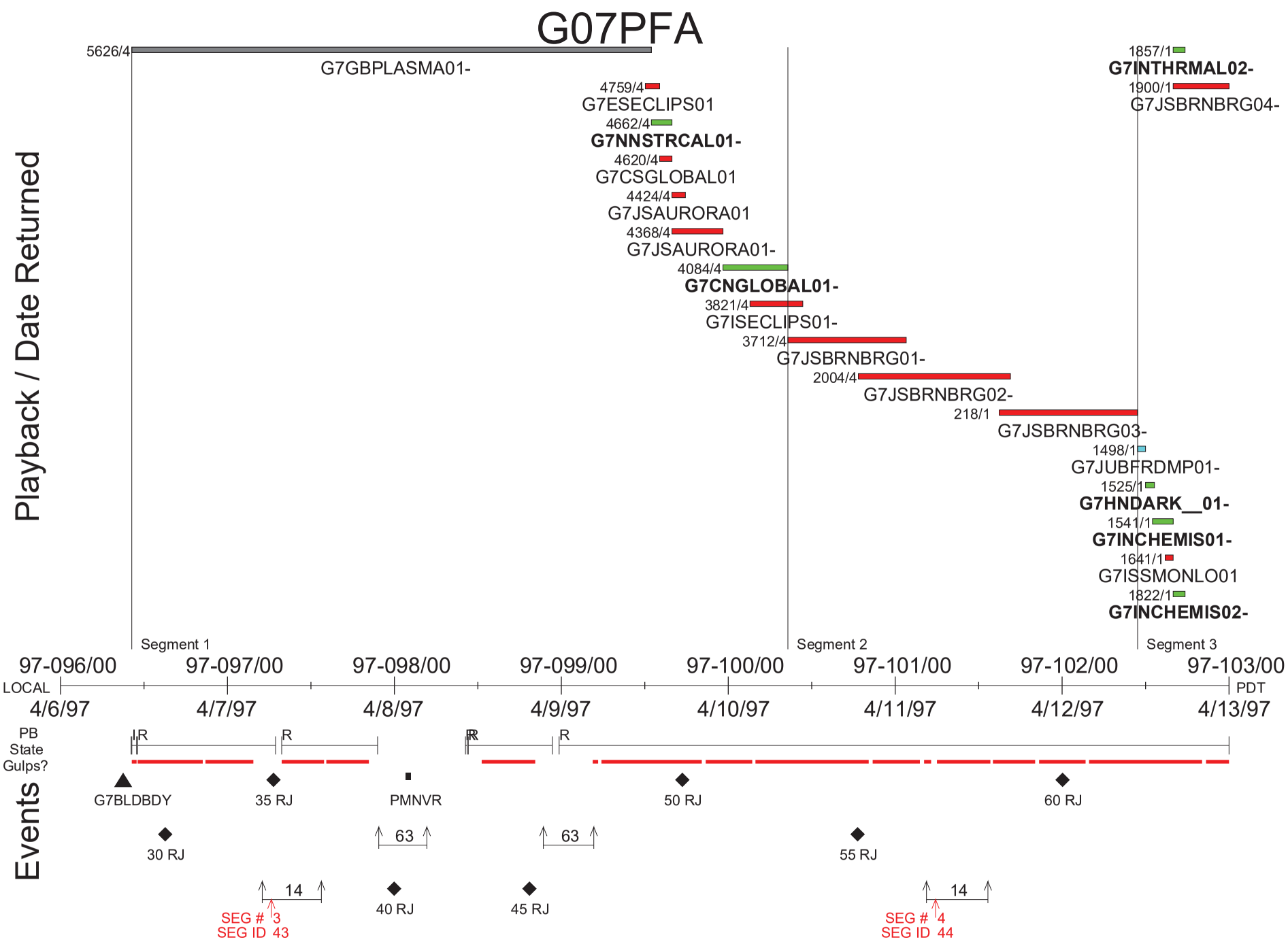
G7JNFPC14201- R7,15
G7JNFPB14201- R7,165
BPT,225 G7IPSTP15501-
BPT,111 G7CPSTP15501-
BPT,70 G7EPSTP13001-
G7JNFPB15001- R7,5
G7JNFPC15001- R7,13
G7JNFEA15003- R7,120
G7JNFEZ15701- R7,10
G7JNFEZ15702- R7,7
G7JNFEZ15703- R7
J.Culwell, 31-Dec-96, v0.02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4759/4
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4662/4
G7NNSTRCAL01-
4620/4
G7CSGLOBAL01
4424/4
G7JSAURORA01
4368/4
G7JSAURORA01-
4084/4
G7CNGLOBAL01-
3821/4
G7ISECLIPS01-
3712/4
G7JSBRNBRG01-
2004/4
G7JSBRNBRG02-
218/1
G7JSBRNBRG03-
1857/1
G7INTHRMAL02-
1900/1
G7JSBRNBRG04-
1498/1
G7JUBFRDMP01-
1525/1
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1541/1
G7INCHEMIS01-
1641/1
G7ISSMONLO01
1822/1
G7INCHEMIS02-
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Segment 2
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4/6/97
4/7/97
4/8/97
4/9/97
4/10/97
4/11/97
4/12/97
4/13/97
PB State Gulps?
R
Events
G7BLDBDY
35 RJ
PMNVR
50 RJ
60 RJ
30 RJ
63
63
55 RJ
14
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40 RJ
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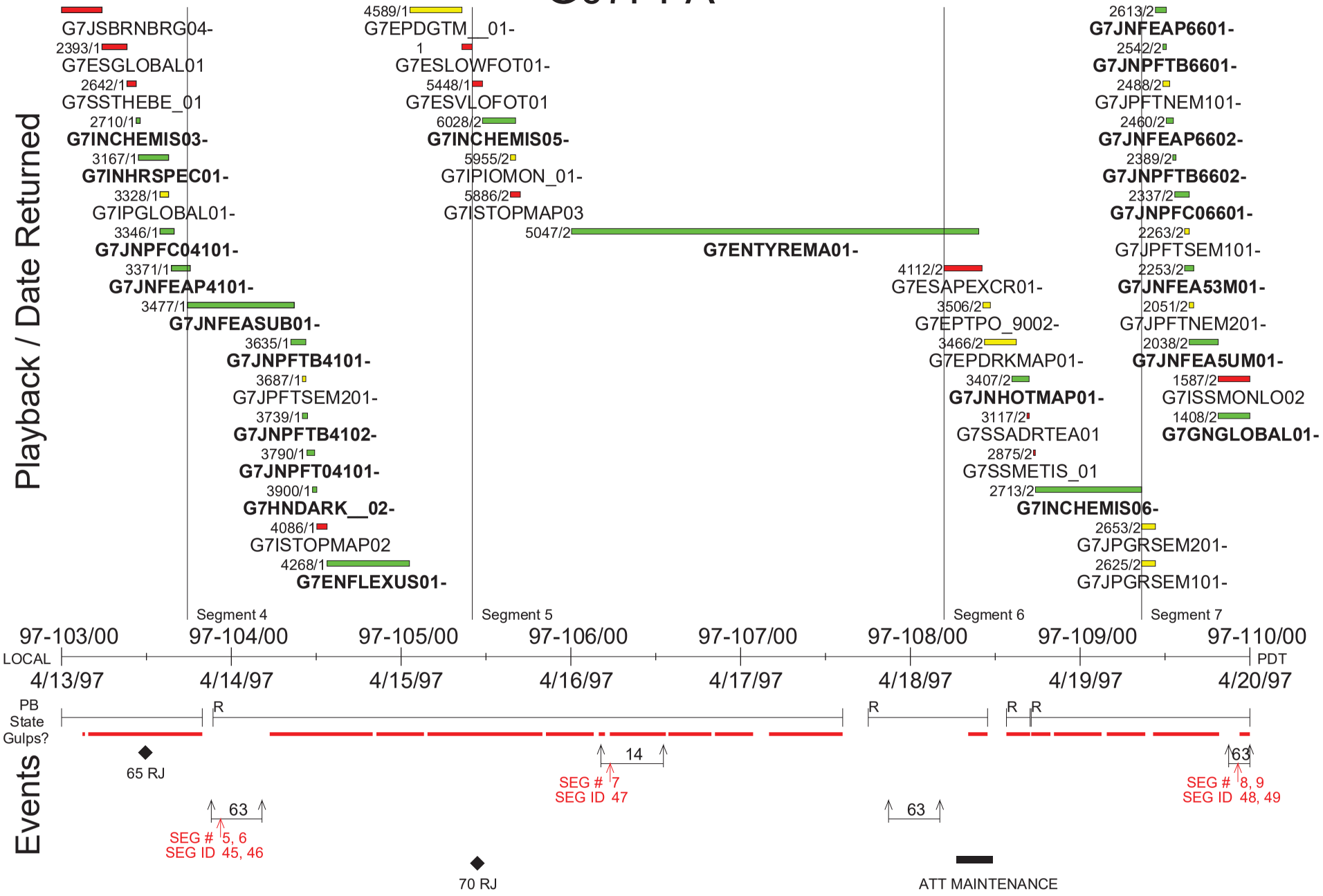
SEG # 4
SEG ID 44

G07PFA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3328/1
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3346/1
G7JNPFC04101-
3371/1
G7JNFEAP4101-
3477/1
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3635/1
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G7JNPFTB4102-
3790/1
G7JNPFT04101-
3900/1
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4086/1
G7ISTOPMAP02
4268/1
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5448/1
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6028/2
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5955/2
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5886/2
G7ISTOPMAP03
5047/2
G7ENTYREMA01-
4112/2
G7ESAPEXCR01-
3506/2
G7EPTPO_9002-
3466/2
G7EPDRKMAP01-
3407/2
G7JNHOTMAP01-
3117/2
G7SSADRTEA01
2875/2
G7SSMETIS_01
2713/2
G7INCHEMIS06-
2653/2
G7JPGRSEM201-
2625/2
G7JPGRSEM101-
2613/2
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1408/2
G7GNGLOBAL01-
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Segment 5
Segment 6
Segment 7
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PB State Gulps?
R
R
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Events
65 RJ
63
SEG # 5, 6
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SEG # 7
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70 RJ
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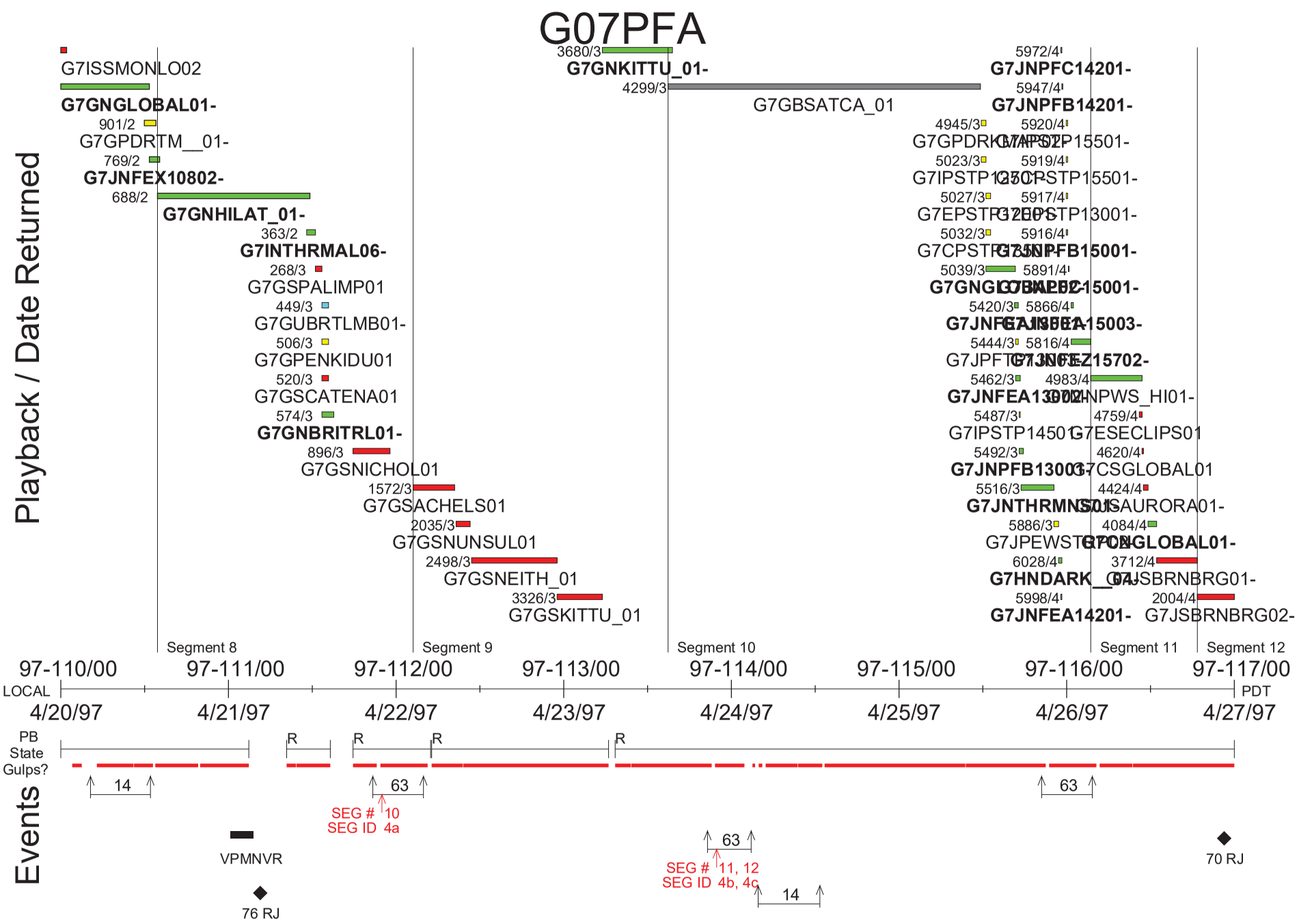
SEG ID 48, 49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363/2
G7INTHRMAL06-
268/3
G7GSPALIMP01
449/3
G7GUBRTLMB01-
506/3
G7GPENKIDU01
520/3
G7GSCATENA01
574/3
G7GNBRITRL01-
896/3
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1572/3
G7GSACHELS01
2035/3
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2498/3
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3326/3
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3680/3
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4299/3
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PB State Gulps?
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SEG ID 4b, 4c
70 RJ

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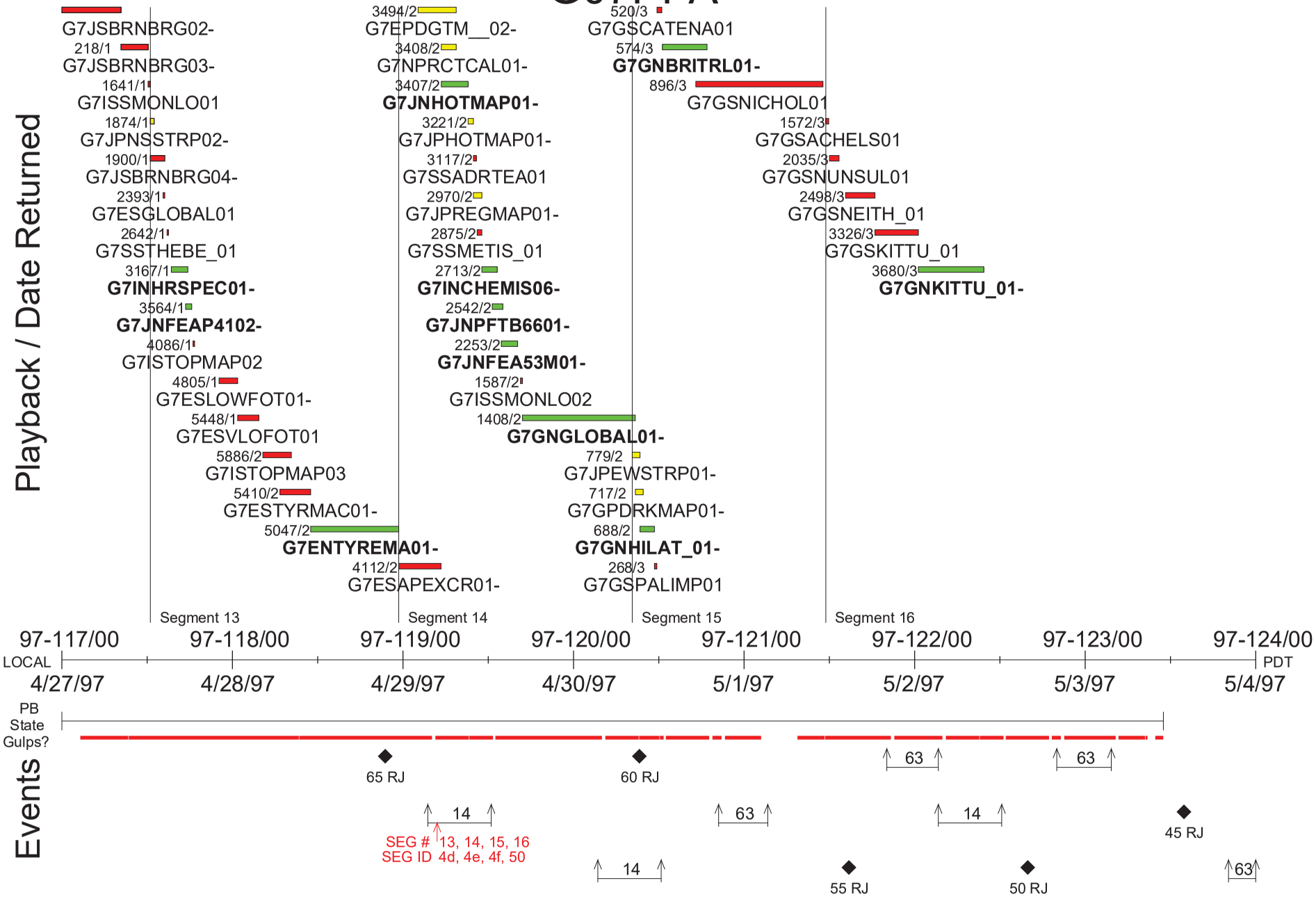
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2642/1
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G7JPHOTMAP01-
3117/2
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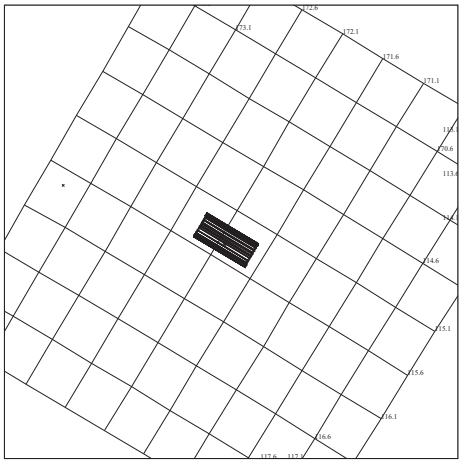
50 RJ
63

G7 NIMS A



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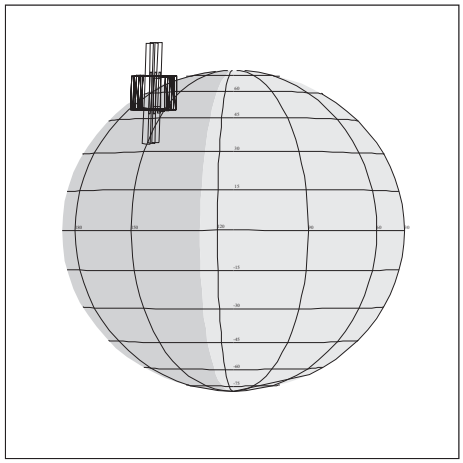

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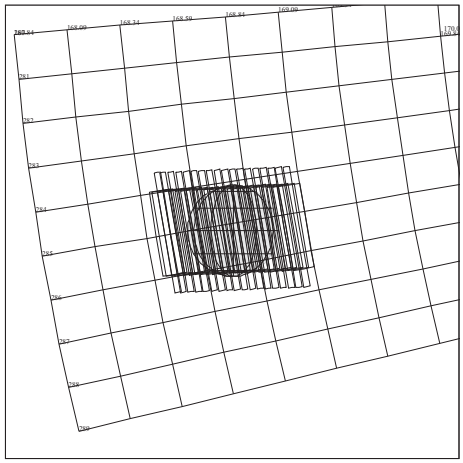

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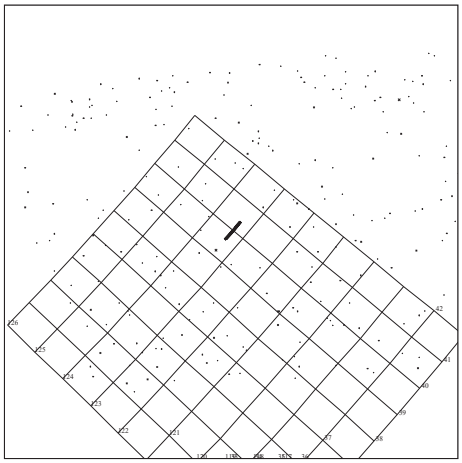

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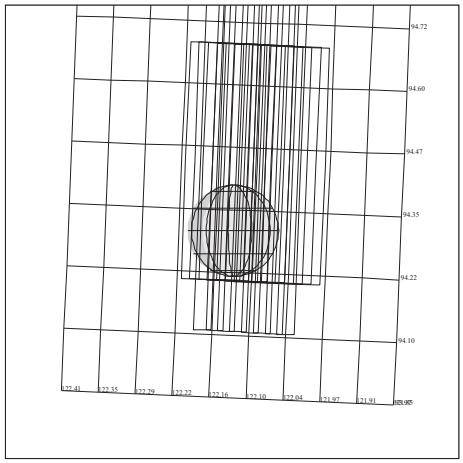
97-093/04:32:41



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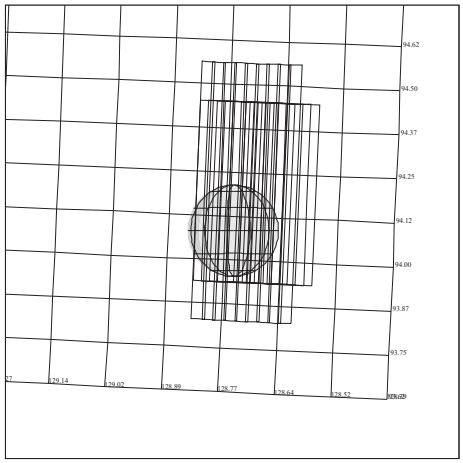
97-093/05:07:03



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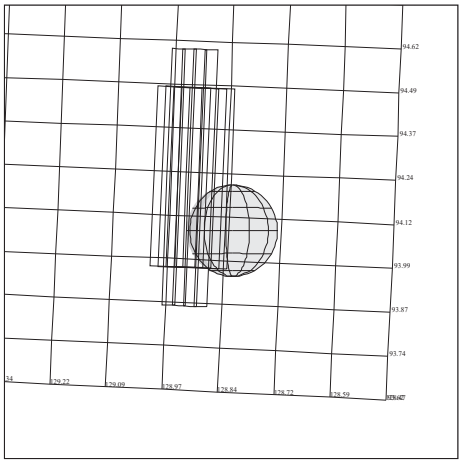
97-093/09:11:45



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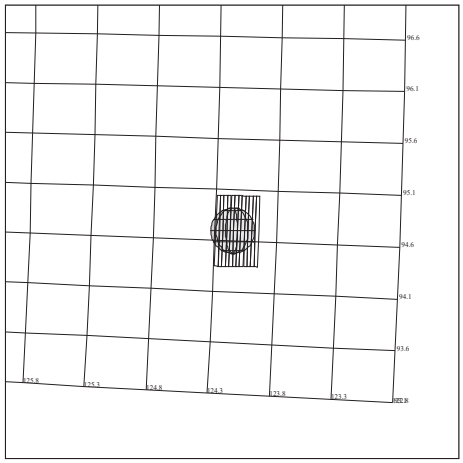

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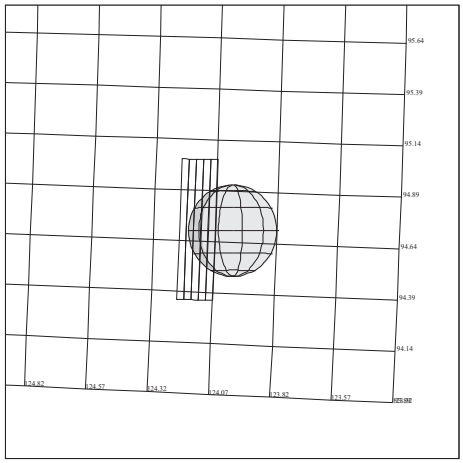

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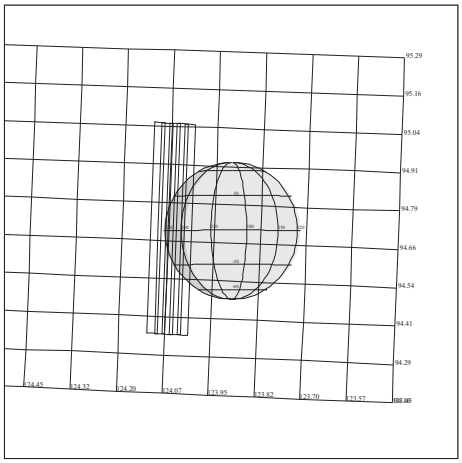
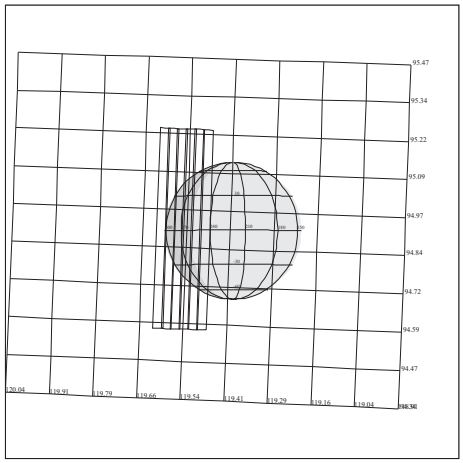
G7 NIMS B



G7INVOLCAN01
97-093/18:07:20



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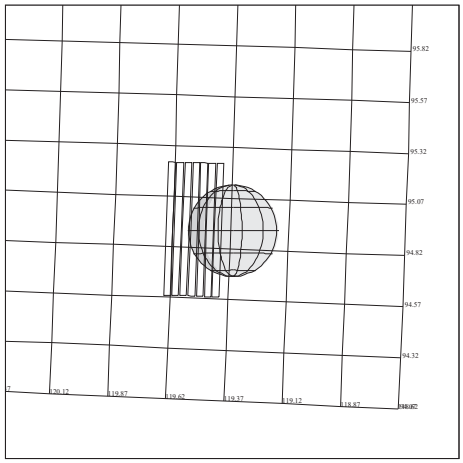

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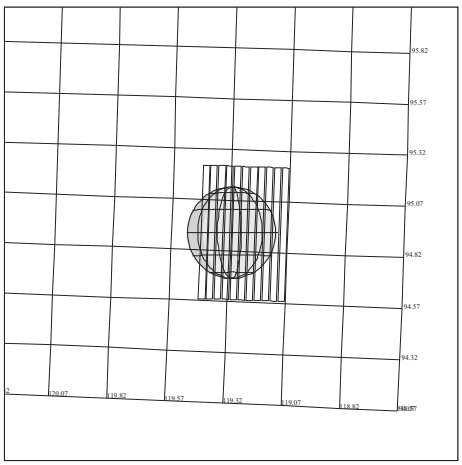
97-093/20:59:21



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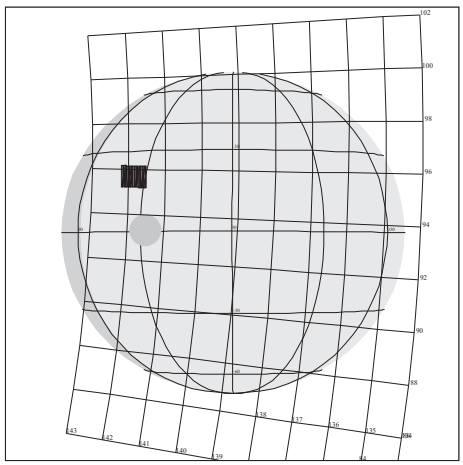

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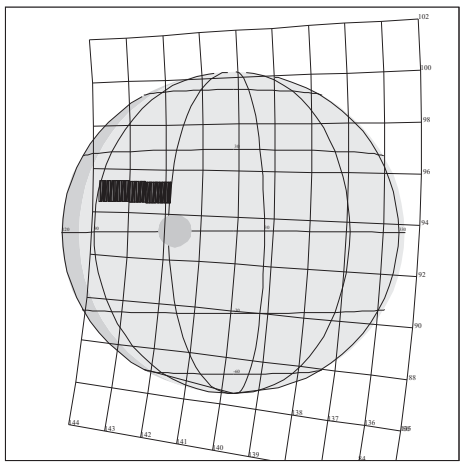
97-093/21:30:52



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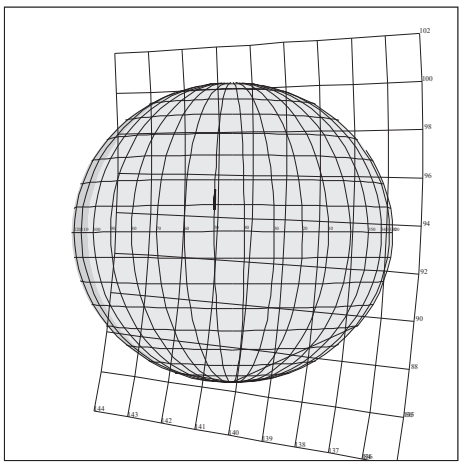

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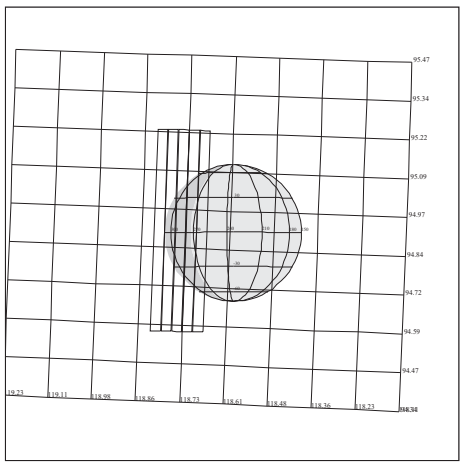

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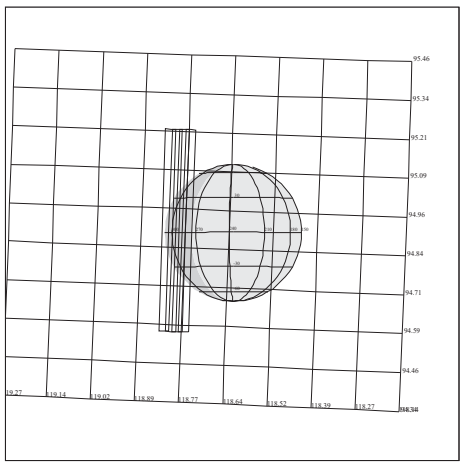

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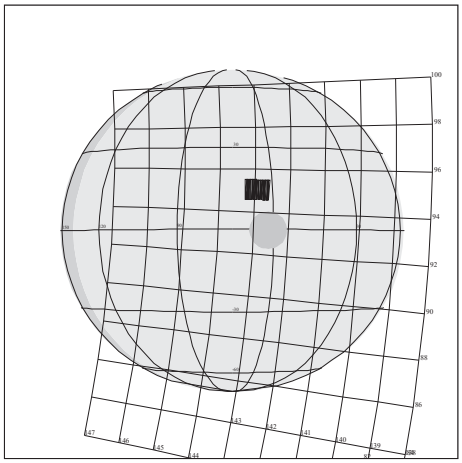
G7 NIMS C



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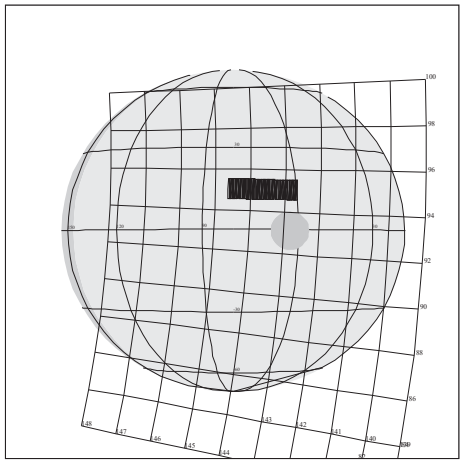

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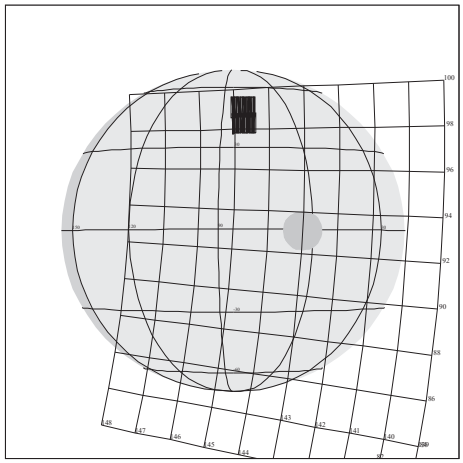

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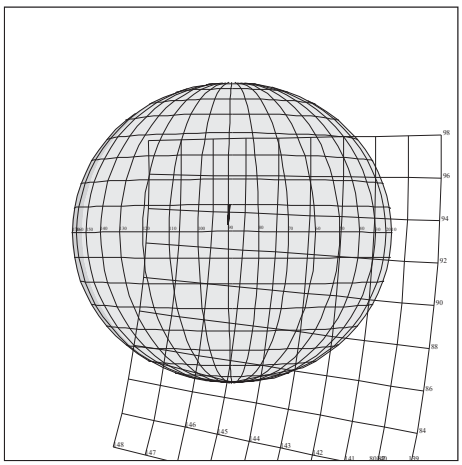

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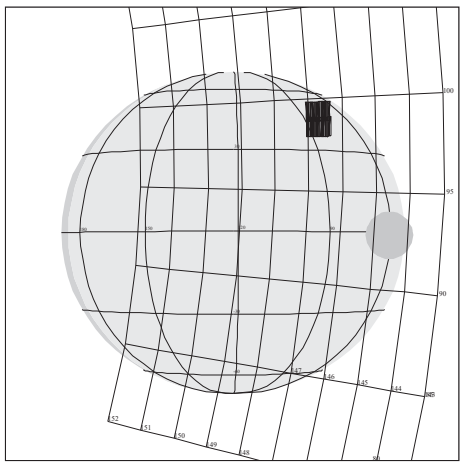

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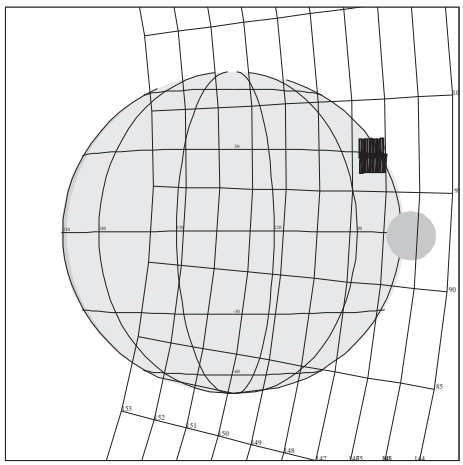

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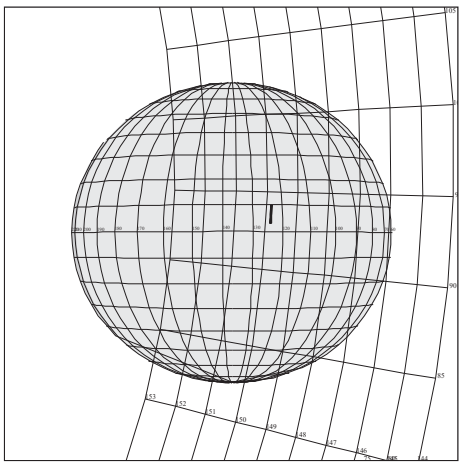

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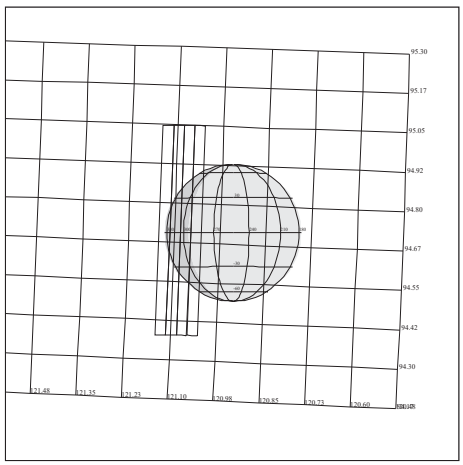

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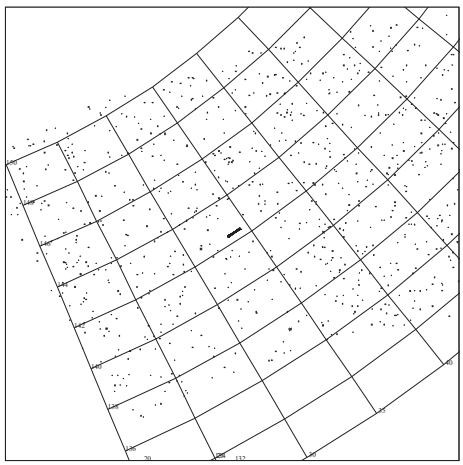

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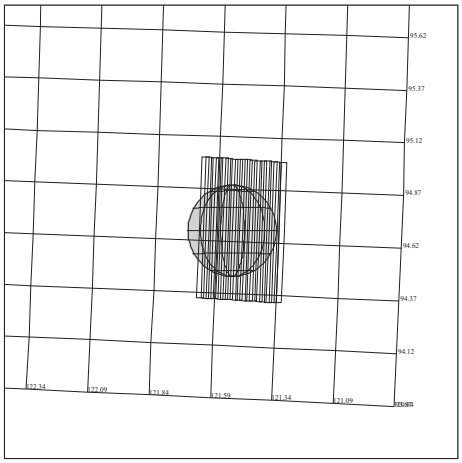
G7 NIMS D



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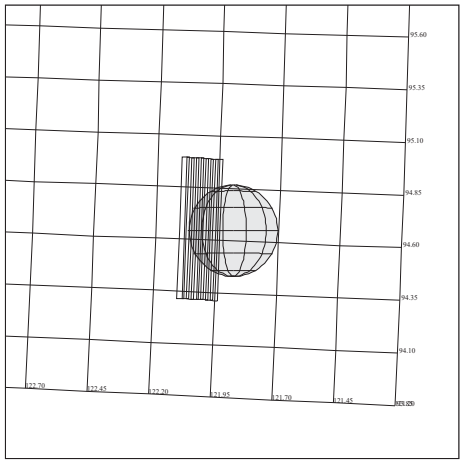

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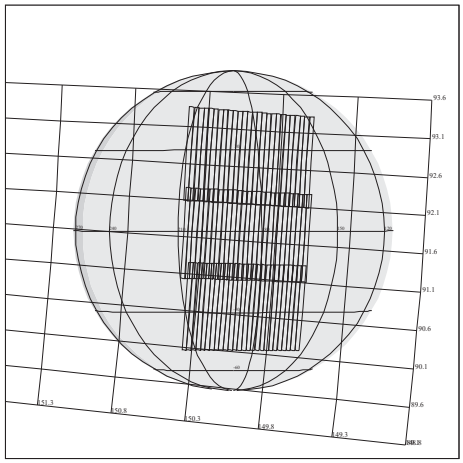
97-094/01:27:21



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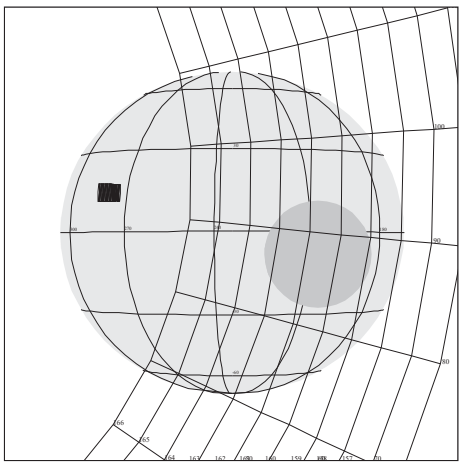

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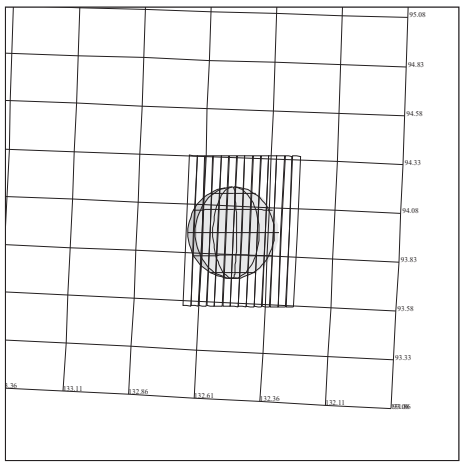

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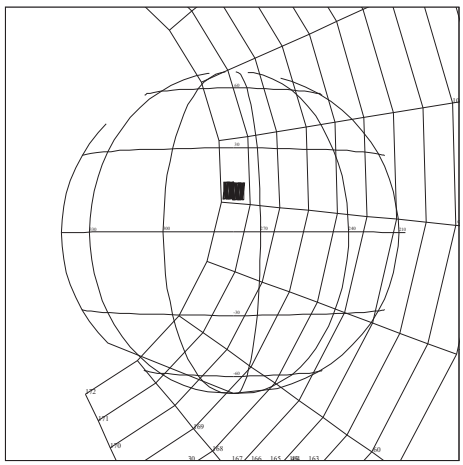

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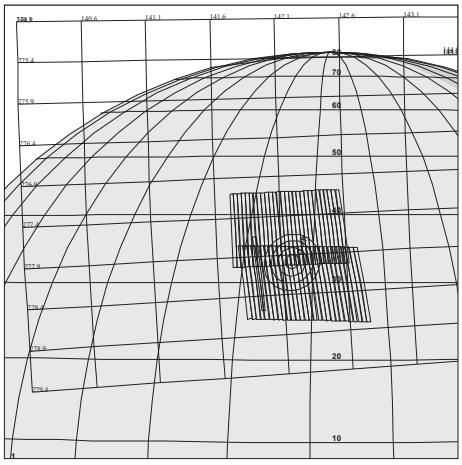

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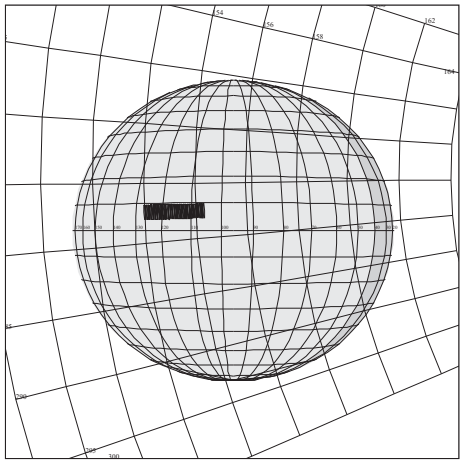

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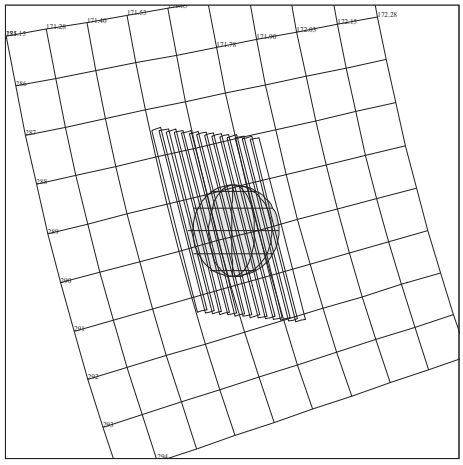
97-094/11:05:43



G7INCHEMIS06
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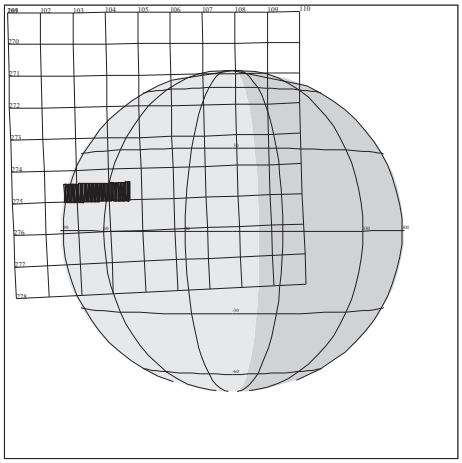
G7 NIMS E



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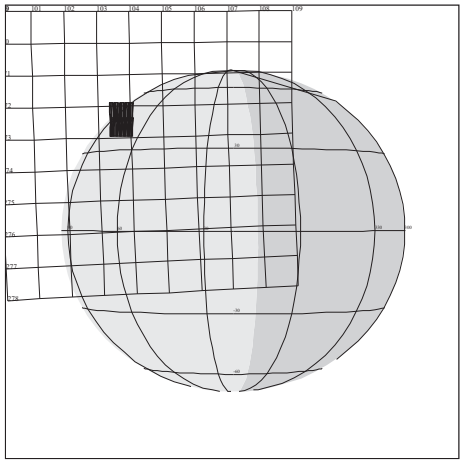

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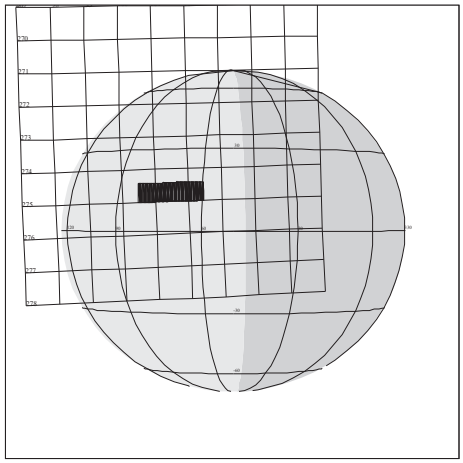

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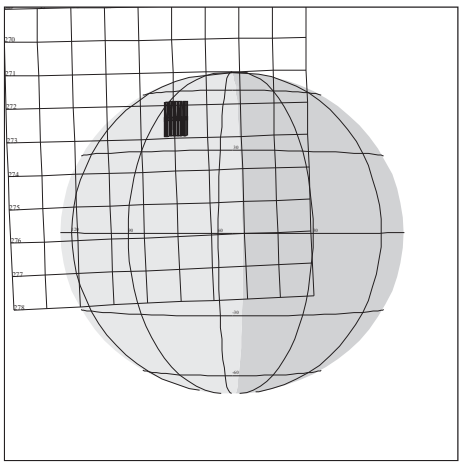

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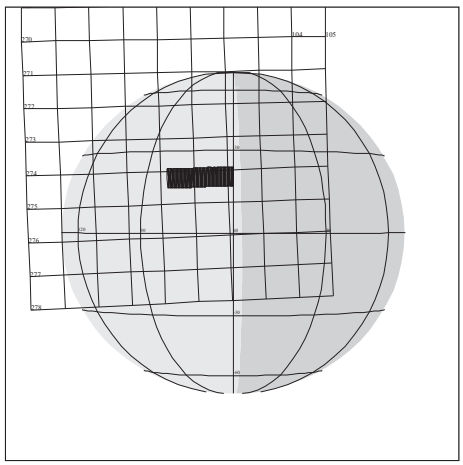

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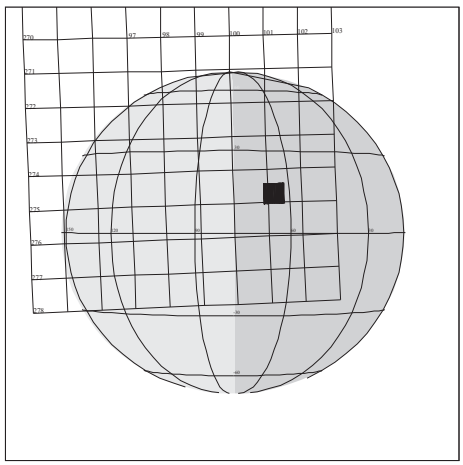

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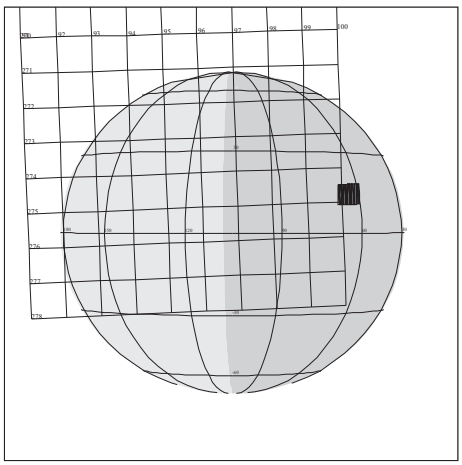

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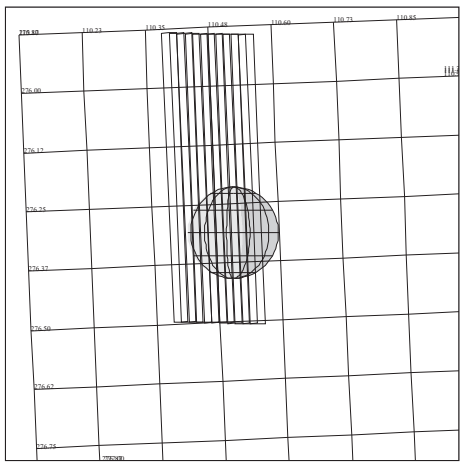

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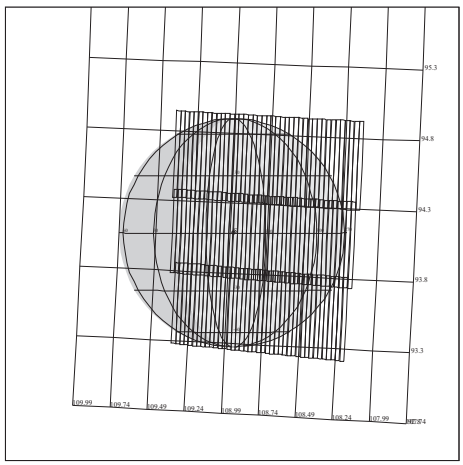

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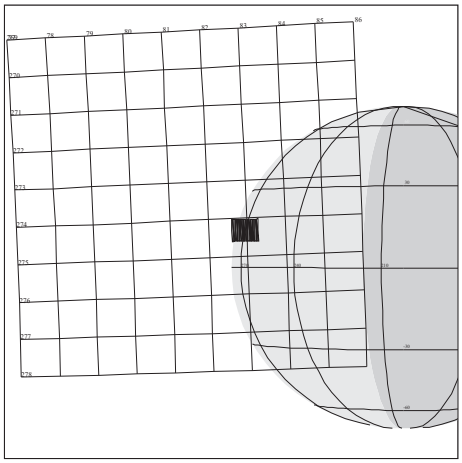
G7 NIMS F



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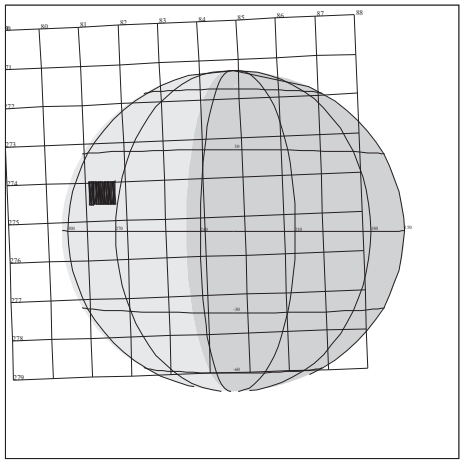

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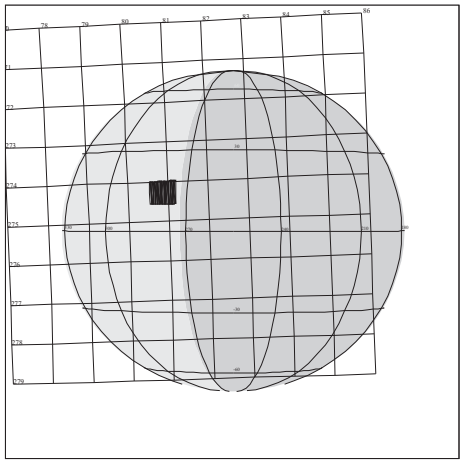

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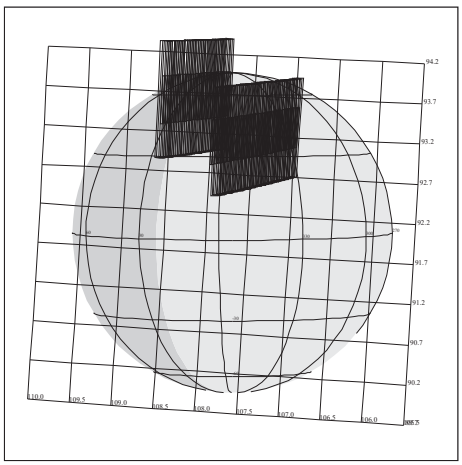

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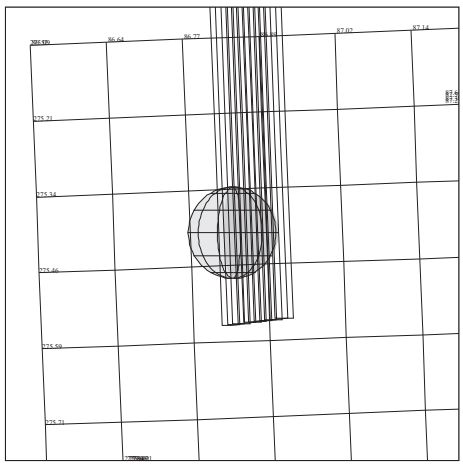

G7INTHRMAL06
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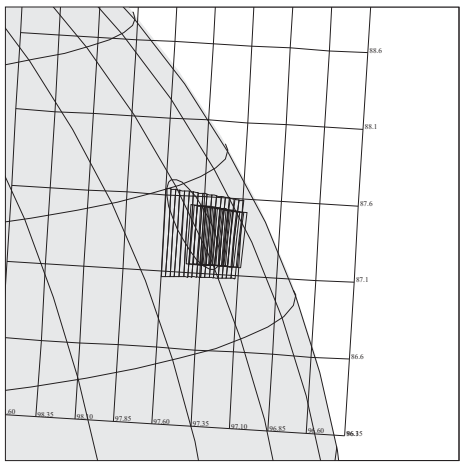

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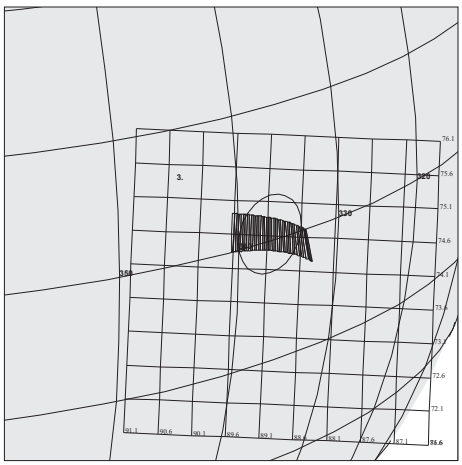

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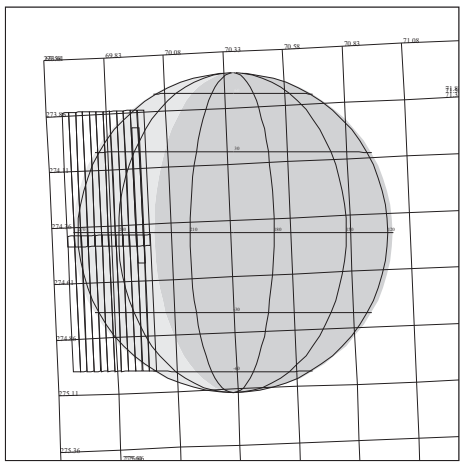

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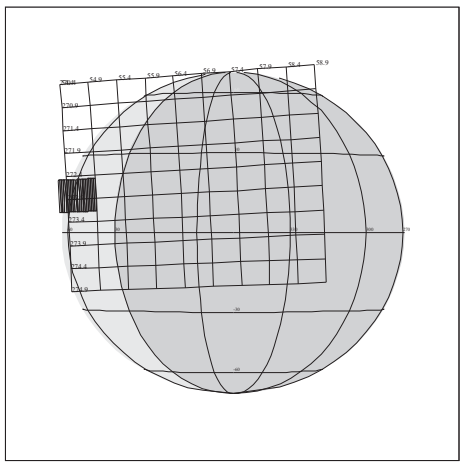

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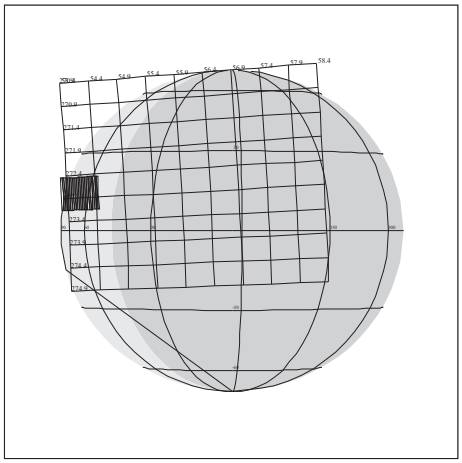
97-095/16:35:16

G7 NIMS G



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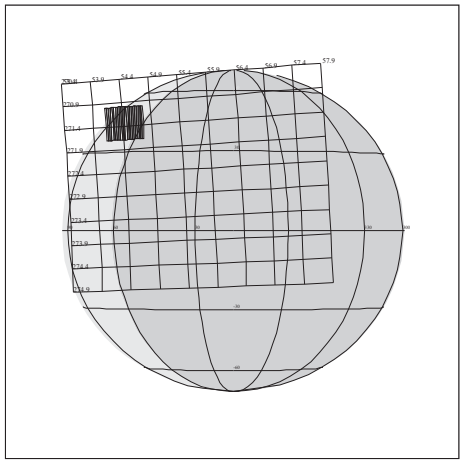

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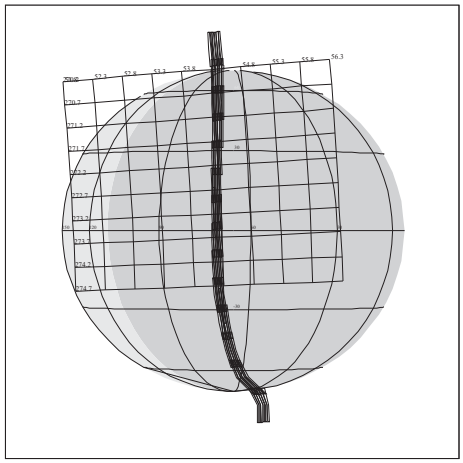

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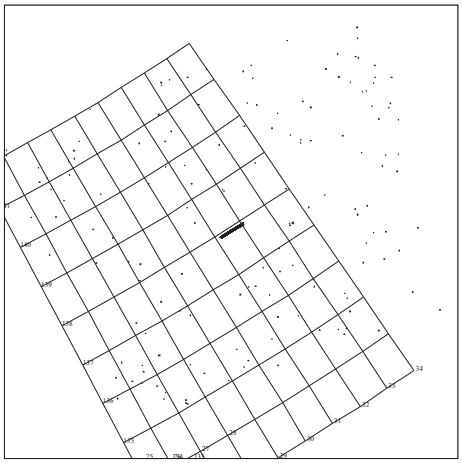
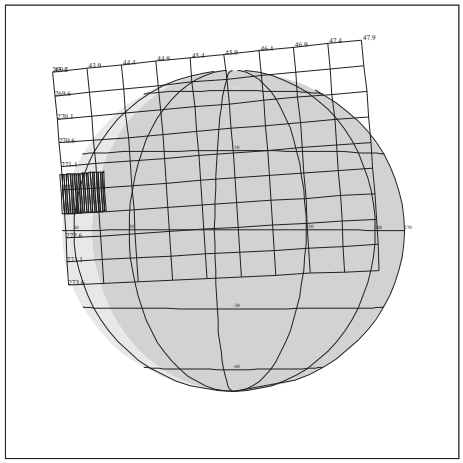


G7HNDARK__04
97-096/00:24:25



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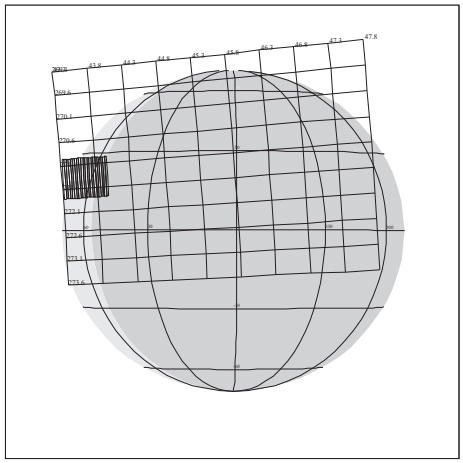

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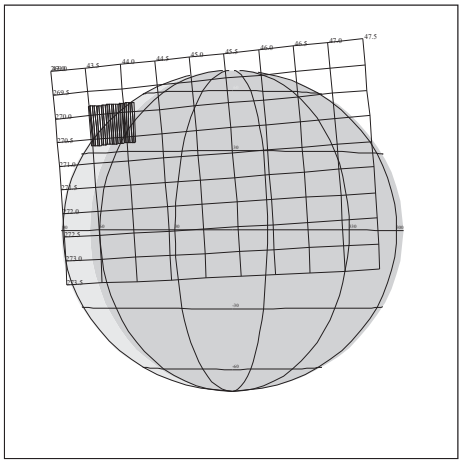

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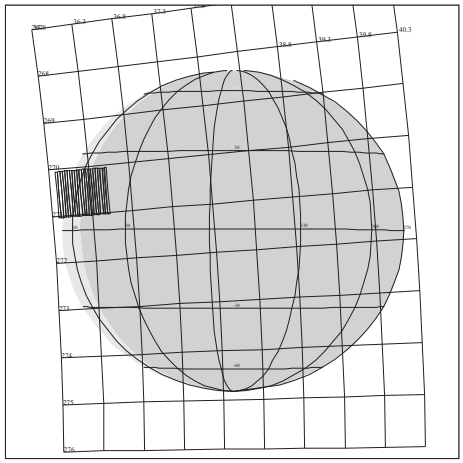

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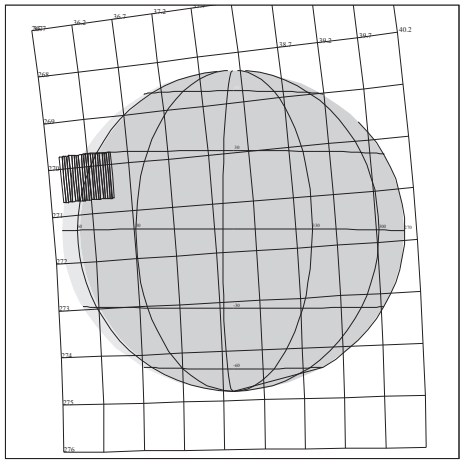

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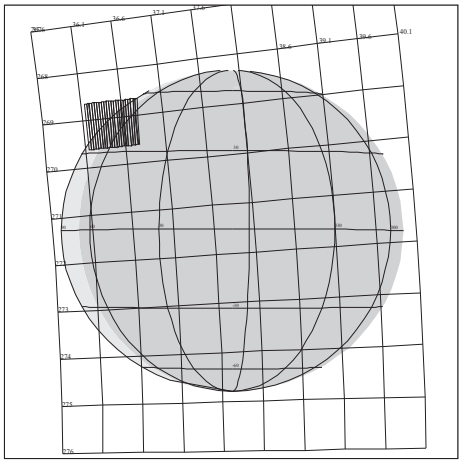
G7 NIMS H



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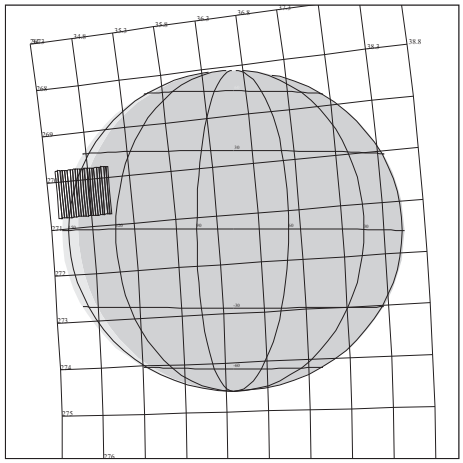

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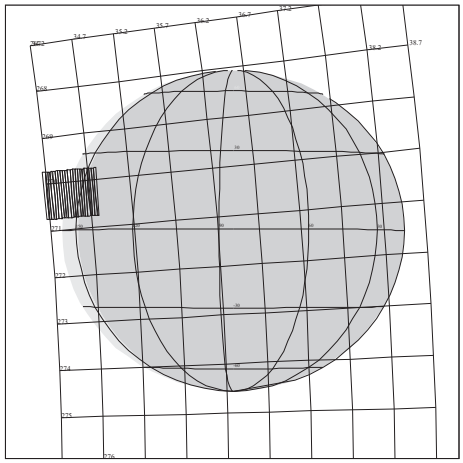

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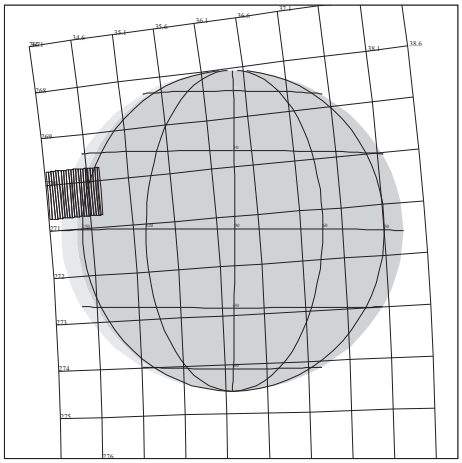


G7JNFEZ15703
97-096/15:50:36

Chapter 3 - Orbit Geometries

Contents

Introduction to Chapter 3

This chapter contains diagrams of various aspects of geometry for the G7 Orbit.

The figure on page 3 is a North Trajectory Pole View of the G7 Orbit from apoapsis to apoapsis.

The figure on page 4 is a North Trajectory Pole View of the G7 Orbit from +/- 5 days of Ganymede closest approach.

The figure on page 5 is a North Trajectory Pole View of the G7 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 South Trajectory Pole View of the G7 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).

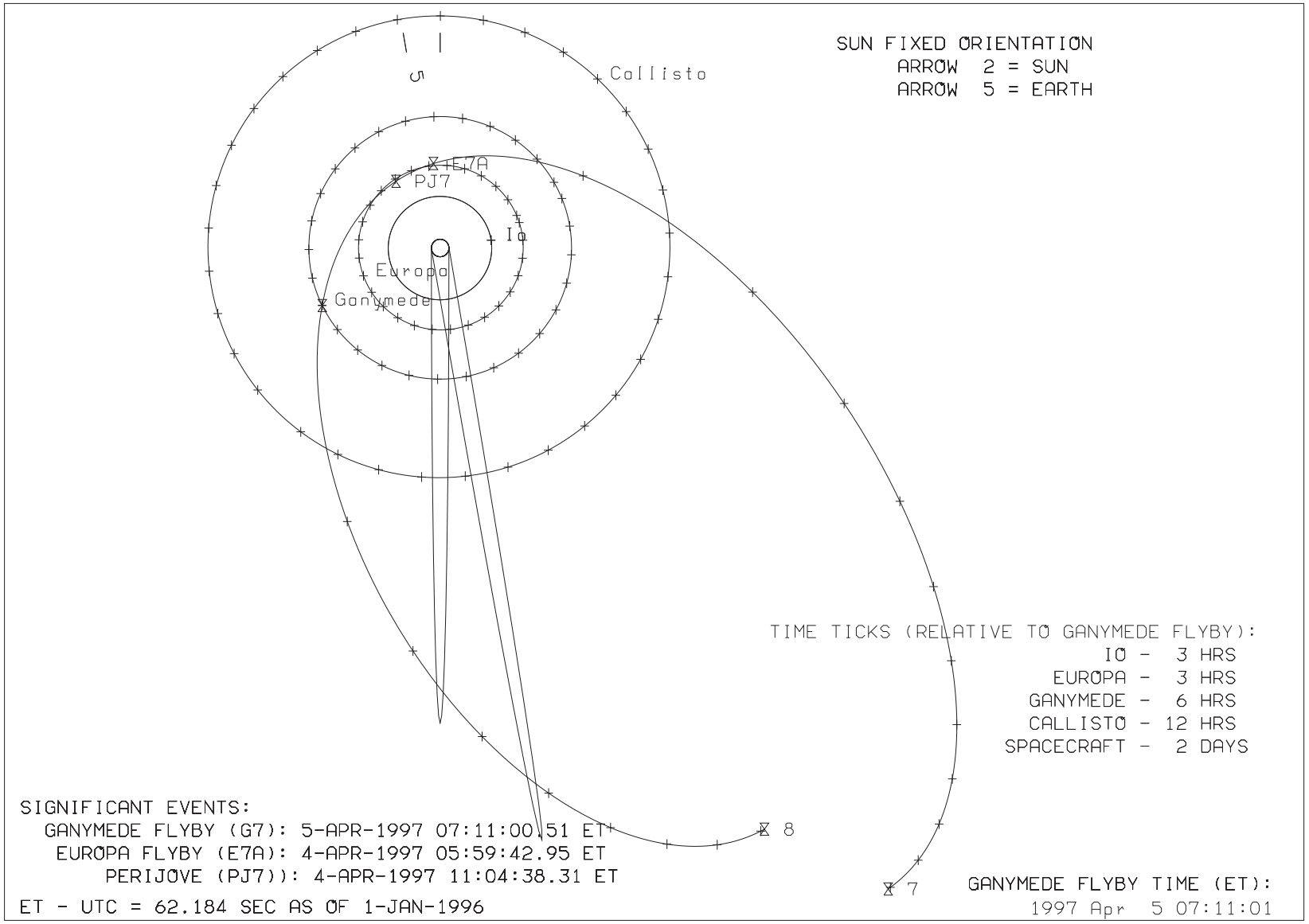
The figure on page 11 shows the Sun-Ganymede-S/C Angle (deg).

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

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

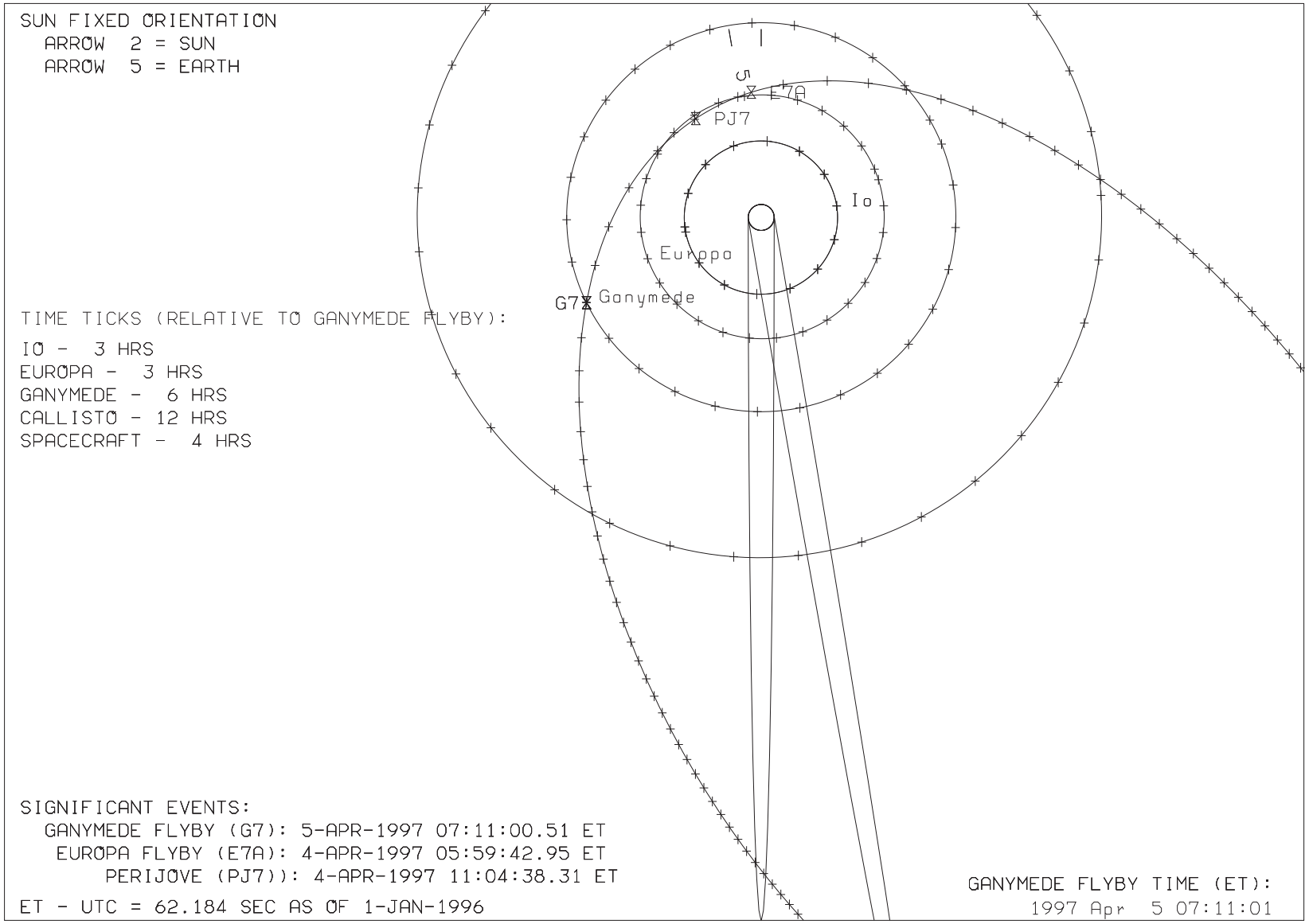
The figure on page 14 shows the Sun-Jupiter-S/C Angle (deg).

Jupiter 7: North Traj Pole View (G7 Apo to Apo)



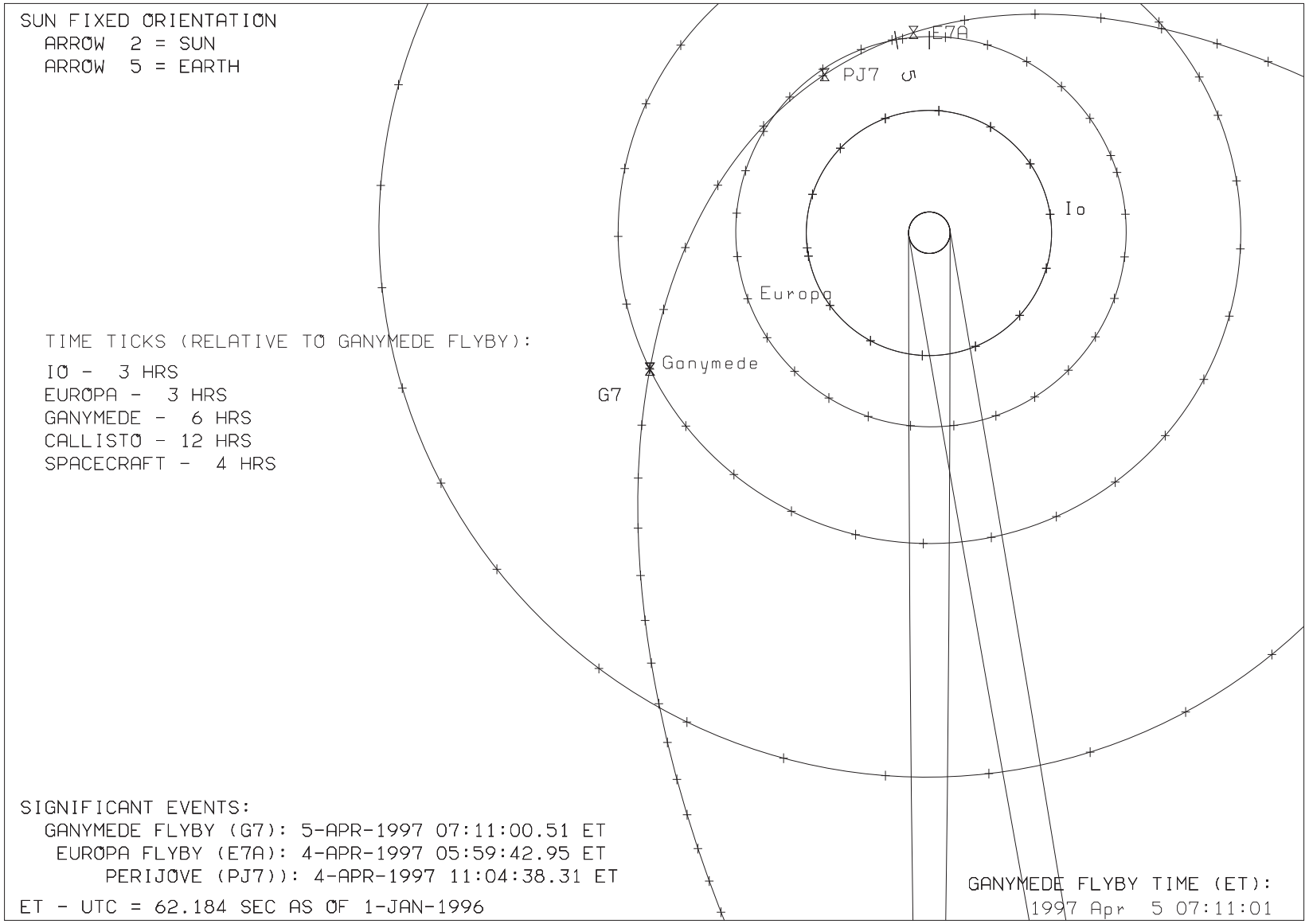
JLB 2/22/97

Jupiter 7: North Traj Pole View (G7 +/- 5 days)



JLB 2/22/97

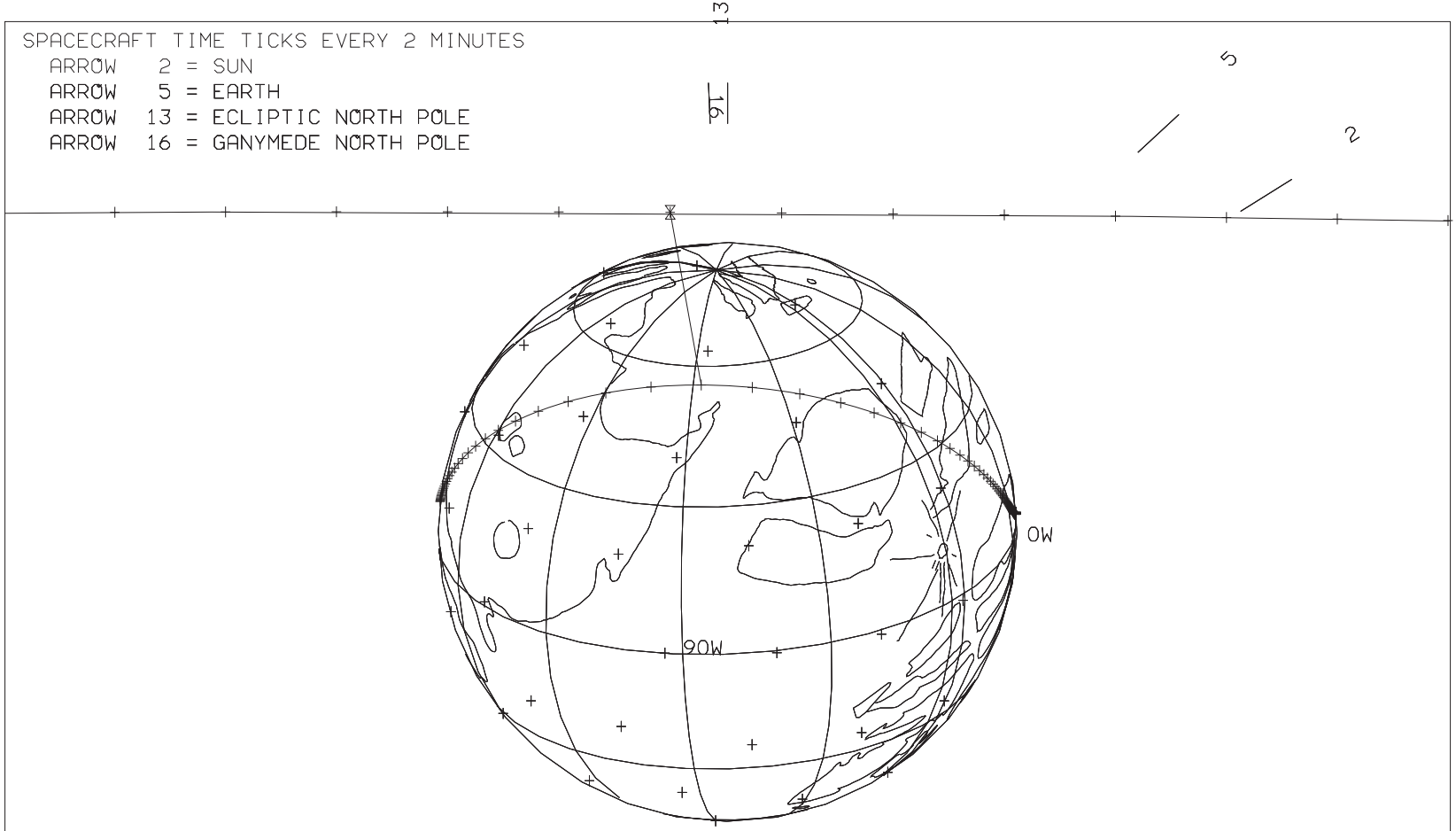
Jupiter 7: North Traj Pole View (G7 +/- 1 day)



JLB 2/22/97

GANYMEDE 7: 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



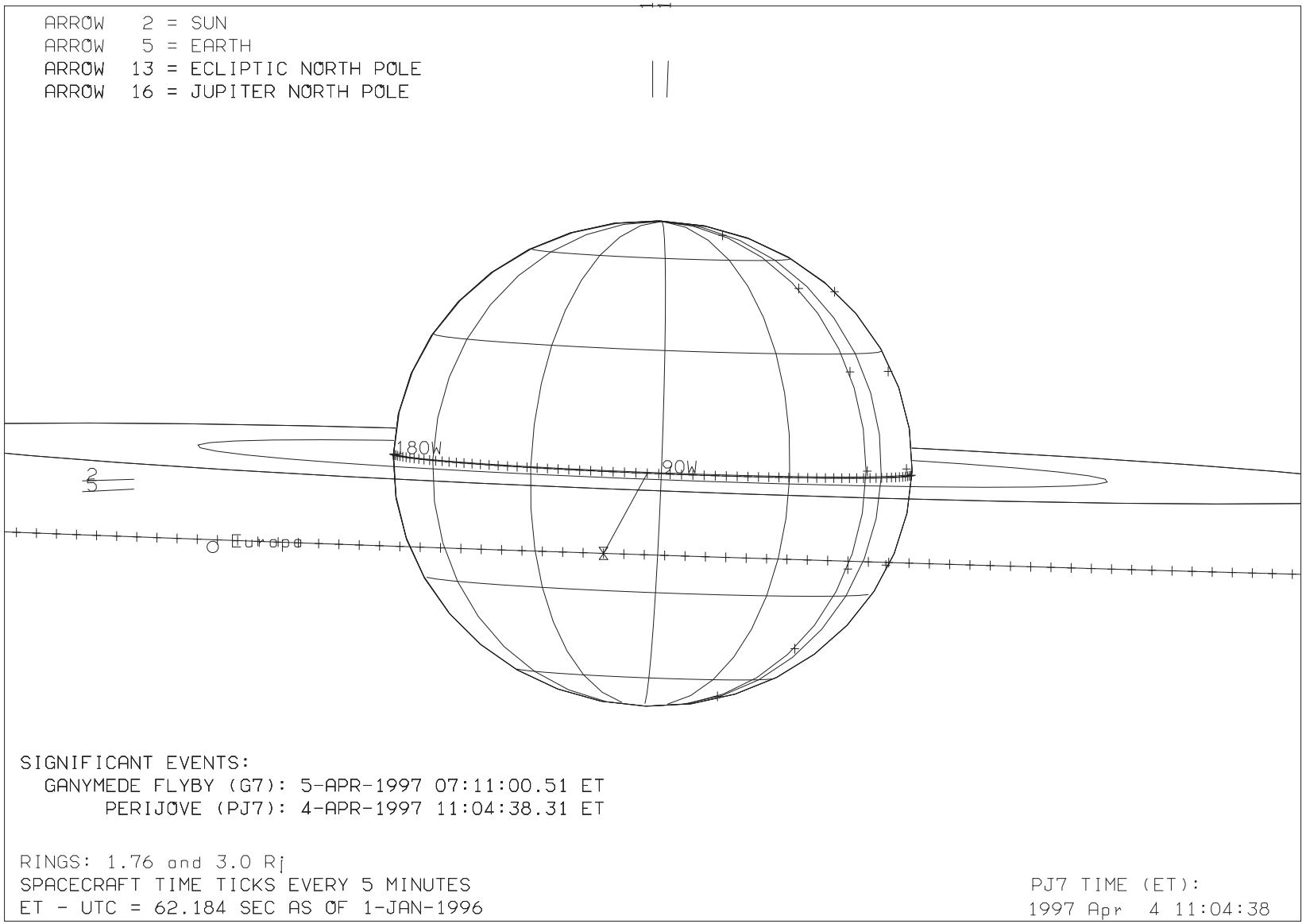
SIGNIFICANT EVENTS:
GANYMEDE FLYBY (G7): 5-APR-1997 07:11:00.51 ET
PERIJOVE (PJ7): 4-APR-1997 11:04:38.31 ET

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

GANYMEDE FLYBY TIME (ET):
1997 Apr 5 07:11:01

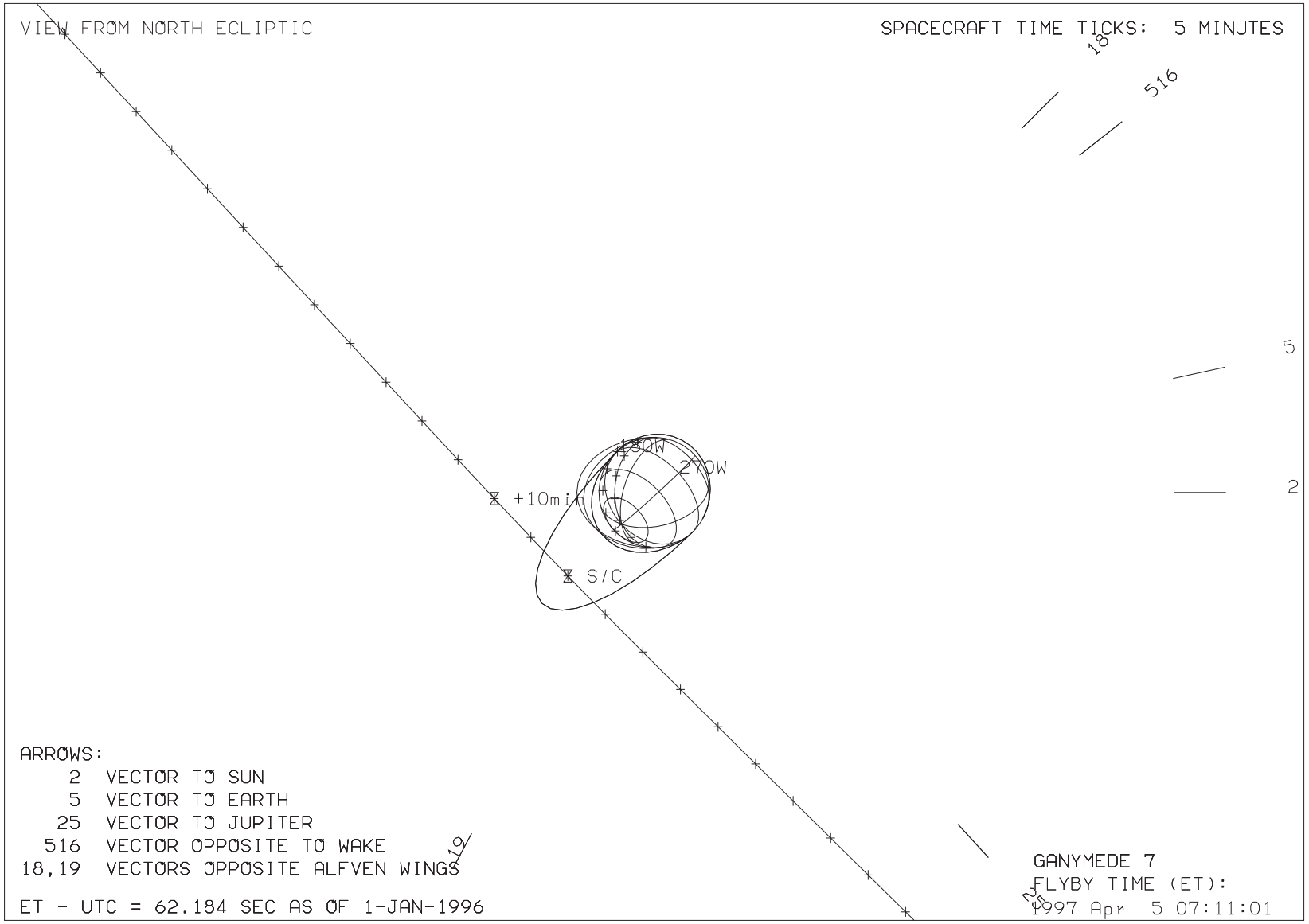
JLB 2/22/97

JUPITER 7: GROUNDTRACK AT CLOSEST APPROACH

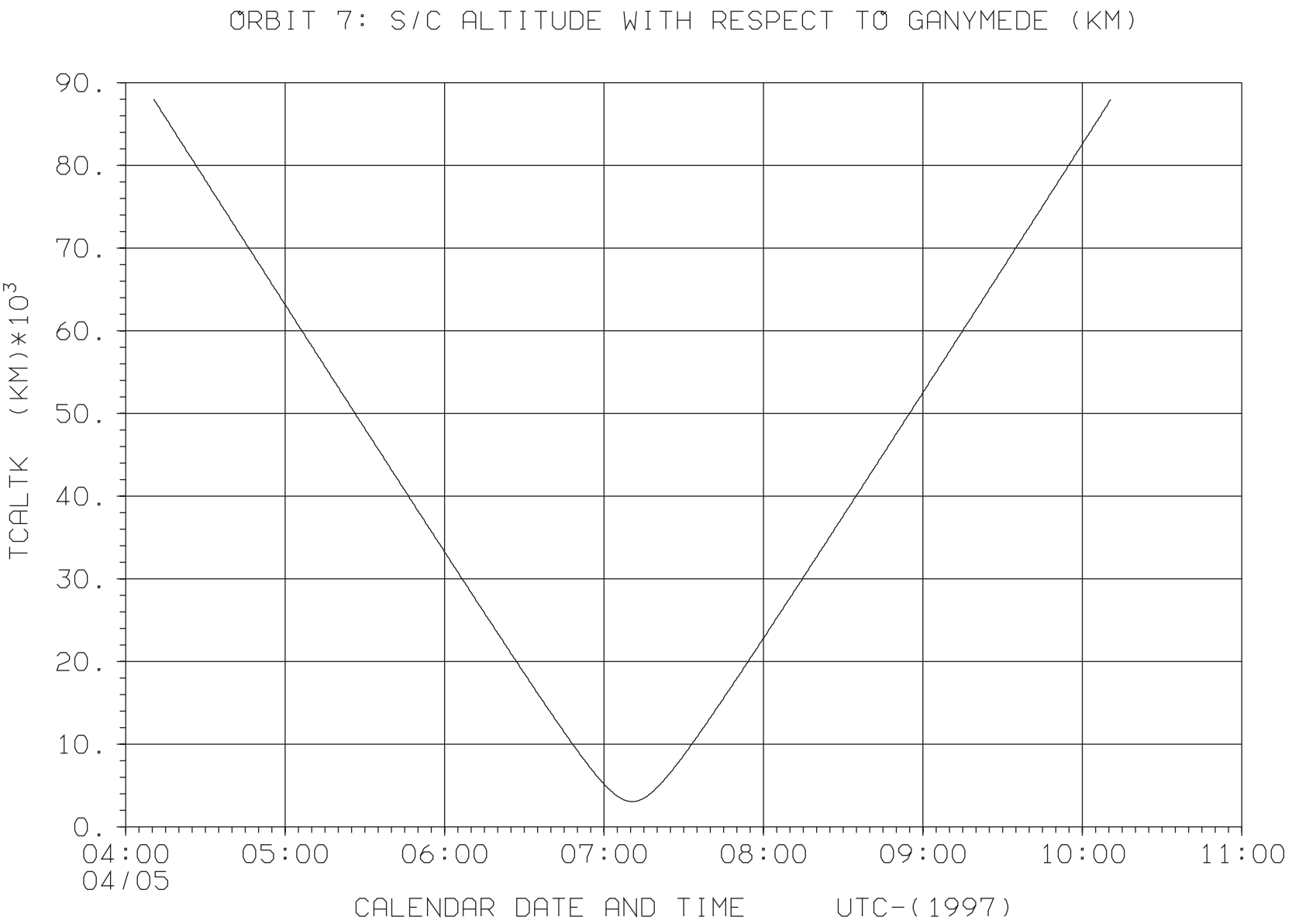


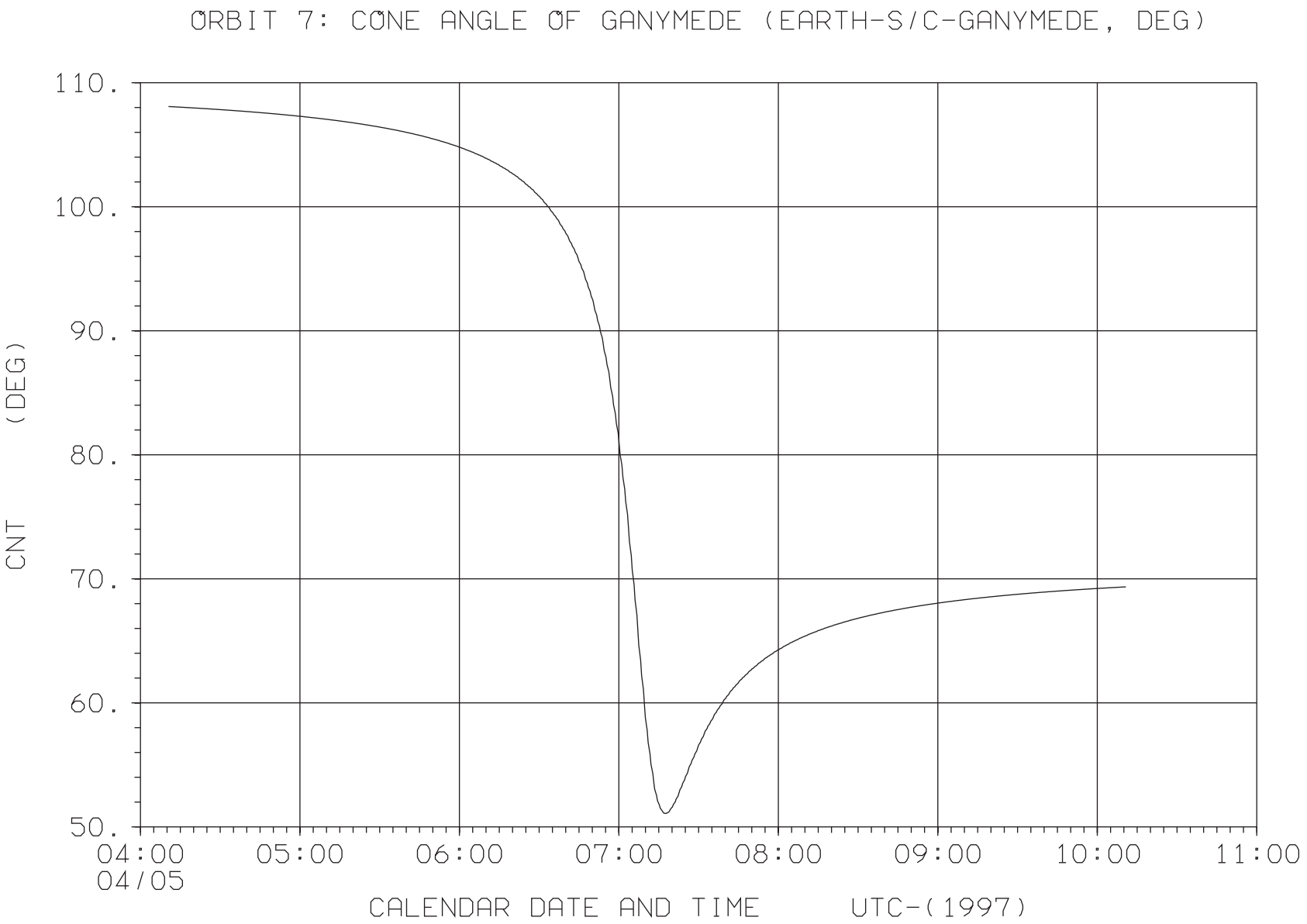
JLB 2/22/97

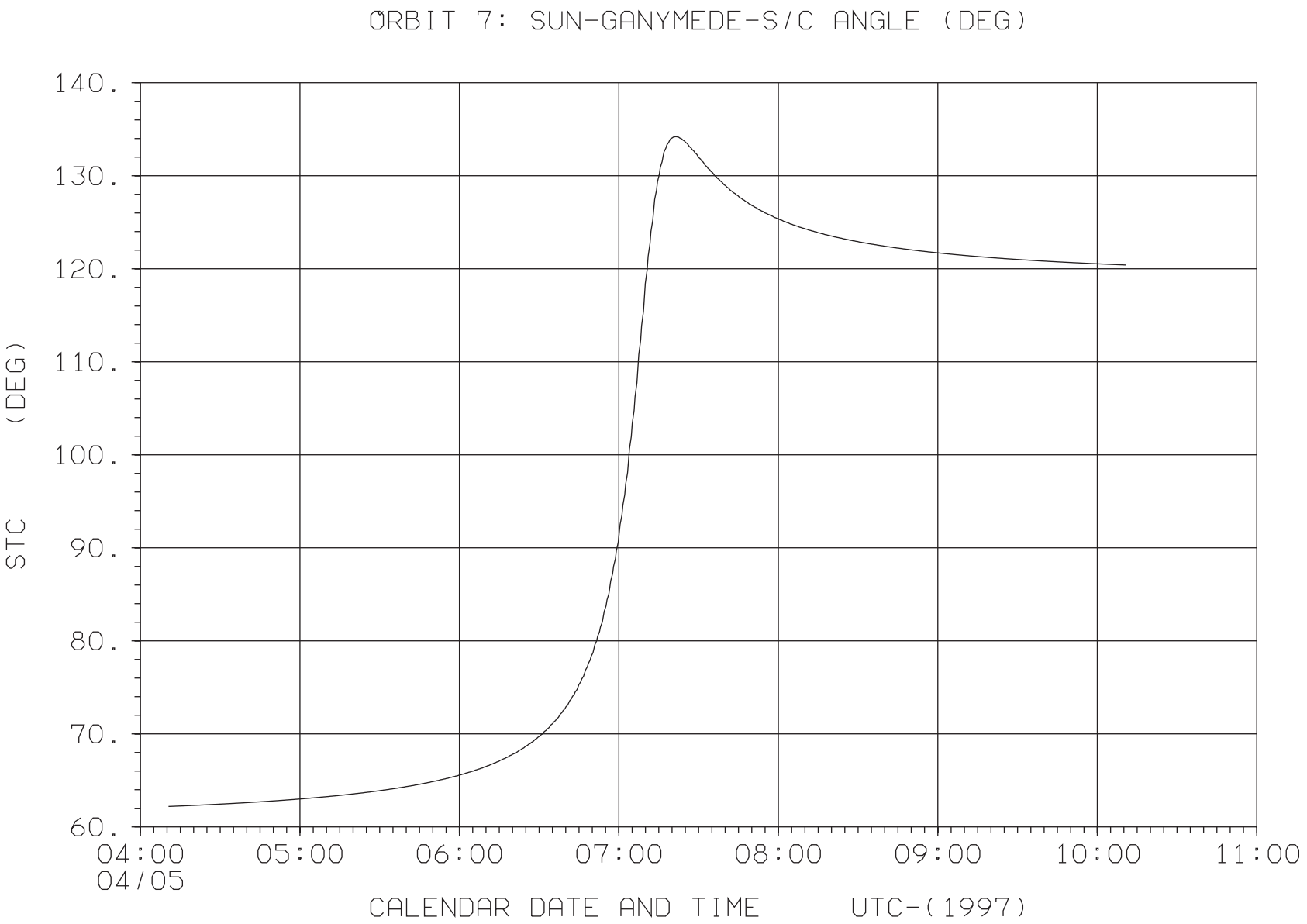
GANYMEDE 7: CLOSEST APPROACH (SOUTH TRAJ POLE VIEW)

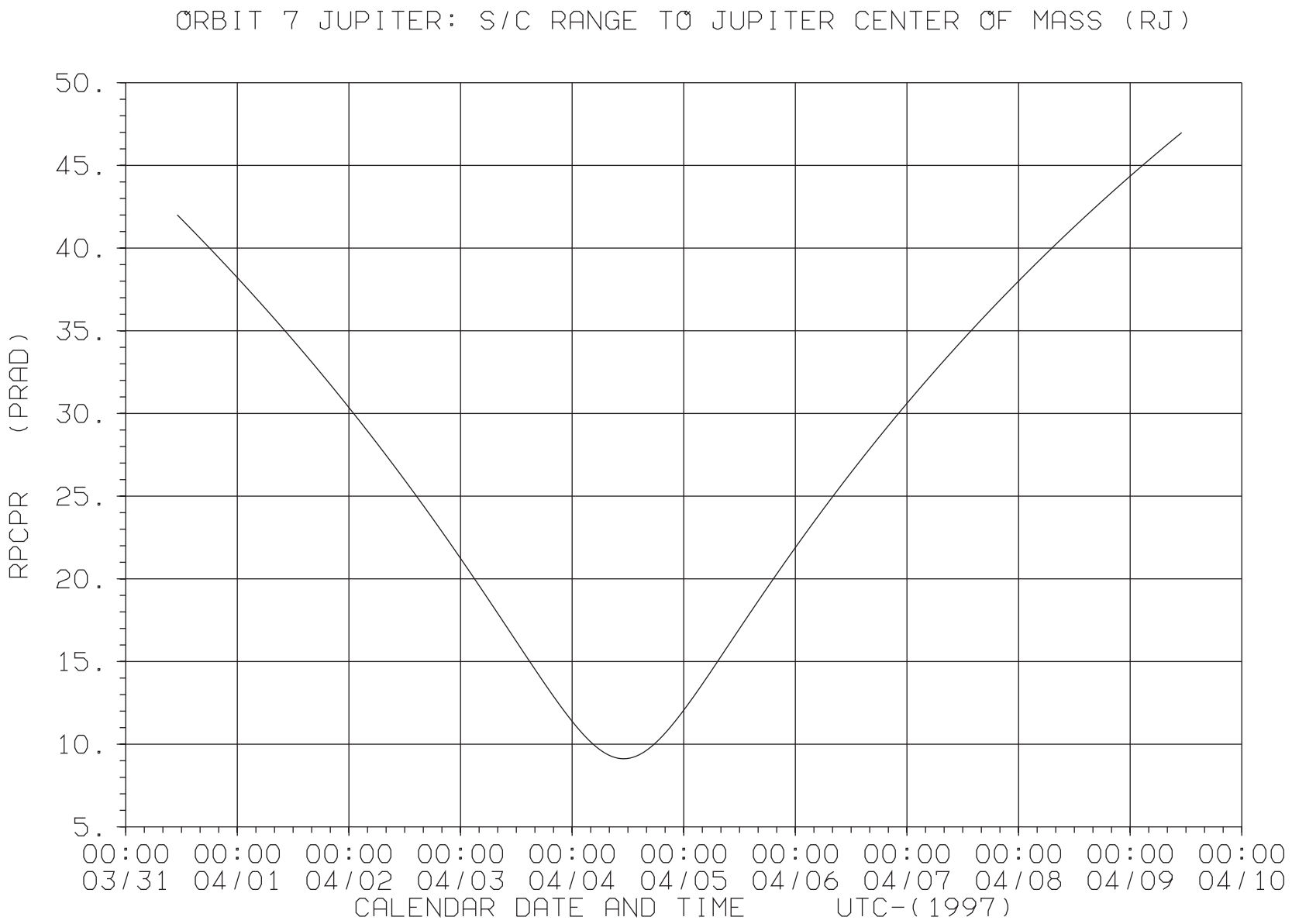


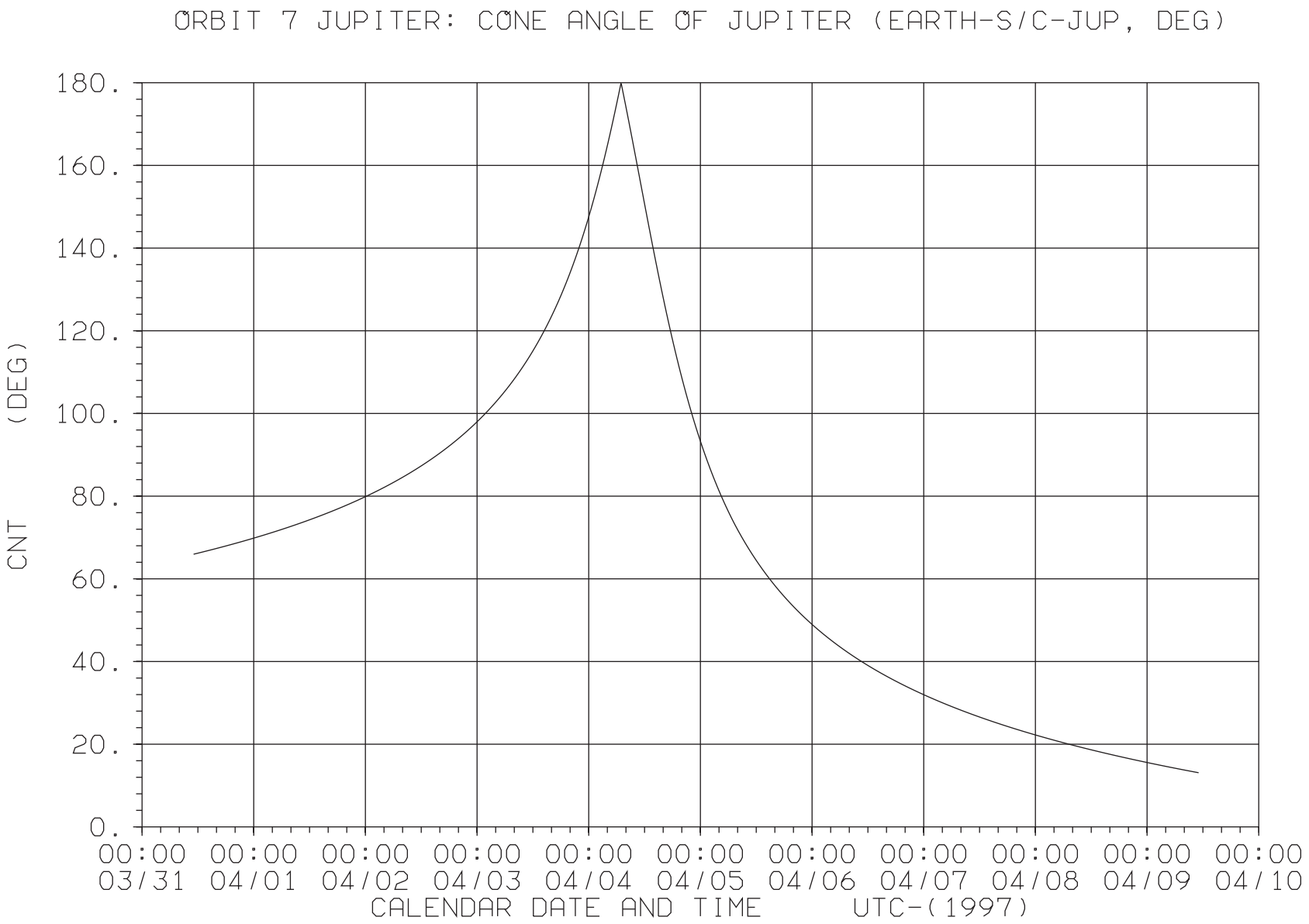
JLB 2/22/97

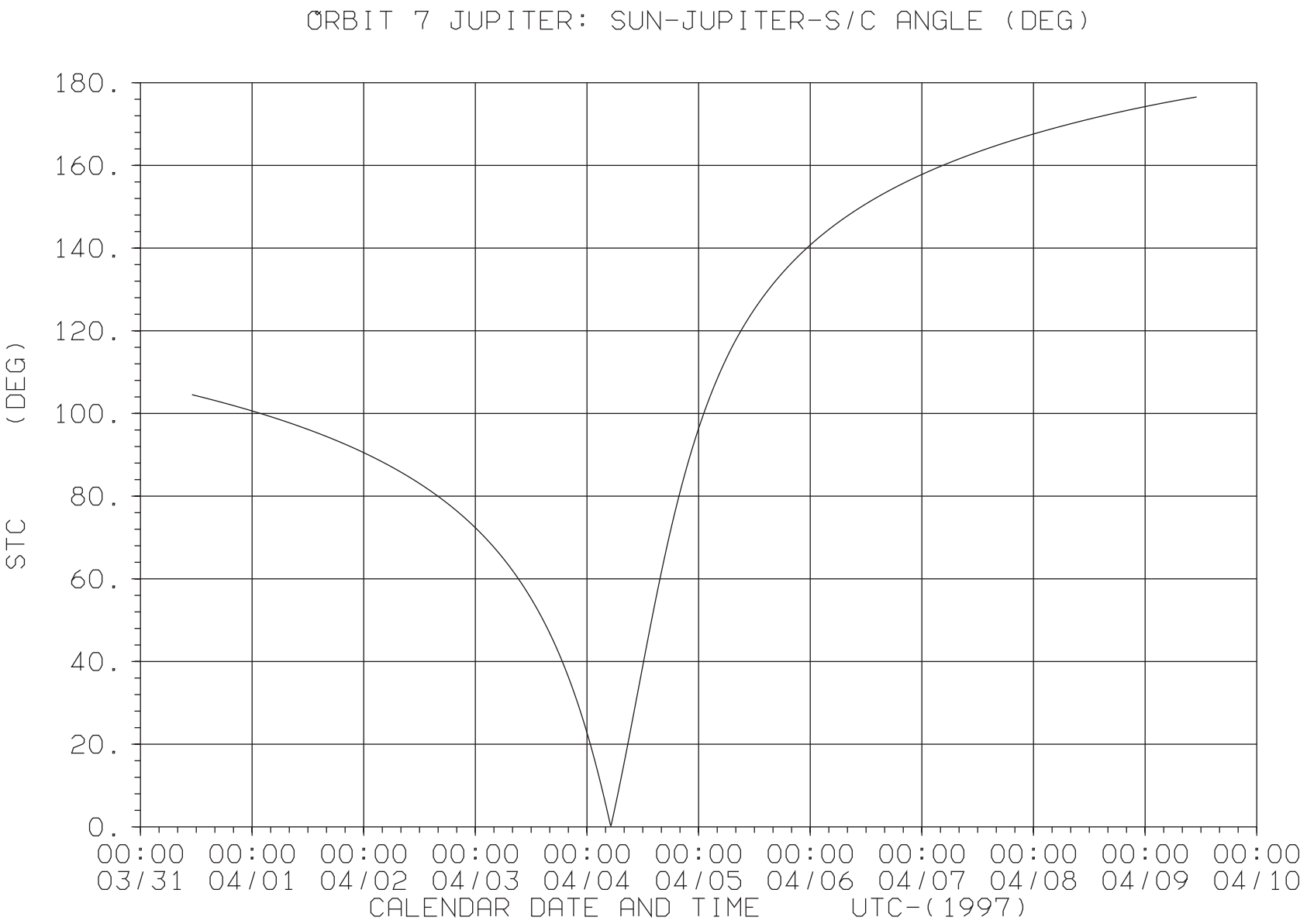

ORBIT 7: S/C ALTITUDE WITH RESPECT TO GANYMEDE (KM)
TCALTK (KM)*10^3
90.
80.
70.
60.
50.
40.
30.
20.
10.
0.
04:00
04/05
05:00
06:00
07:00
08:00
09:00
10:00
11:00
CALENDAR DATE AND TIME UTC-(1997)


ORBIT 7: CONE ANGLE OF GANYMEDE (EARTH-S/C-GANYMEDE, DEG)
110.
100.
90.
80.
70.
60.
50.
CNT (DEG)
04:00
04/05
05:00
06:00
07:00
08:00
09:00
10:00
11:00
CALENDAR DATE AND TIME UTC-(1997)


ORBIT 7: SUN-GANYMEDE-S/C ANGLE (DEG)
STC (DEG)
140.
130.
120.
110.
100.
90.
80.
70.
60.
04:00
04/05
05:00
06:00
07:00
08:00
09:00
10:00
11:00
CALENDAR DATE AND TIME UTC-(1997)


ORBIT 7 JUPITER: S/C RANGE TO JUPITER CENTER OF MASS (RJ)
RPCPR (PRAD)
50.
45.
40.
35.
30.
25.
20.
15.
10.
5.
00:00 03/31
00:00 04/01
00:00 04/02
00:00 04/03
00:00 04/04
00:00 04/05
00:00 04/06
00:00 04/07
00:00 04/08
00:00 04/09
00:00 04/10
CALENDAR DATE AND TIME UTC-(1997)


ORBIT 7 JUPITER: CONE ANGLE OF JUPITER (EARTH-S/C-JUP, DEG)
CNT (DEG)
180.
160.
140.
120.
100.
80.
60.
40.
20.
0.
00:00 03/31
00:00 04/01
00:00 04/02
00:00 04/03
00:00 04/04
00:00 04/05
00:00 04/06
00:00 04/07
00:00 04/08
00:00 04/09
00:00 04/10
CALENDAR DATE AND TIME UTC-(1997)


ORBIT 7 JUPITER: SUN-JUPITER-S/C ANGLE (DEG)
STC (DEG)
180.
160.
140.
120.
100.
80.
60.
40.
20.
0.
00:00 03/31
00:00 04/01
00:00 04/02
00:00 04/03
00:00 04/04
00:00 04/05
00:00 04/06
00:00 04/07
00:00 04/08
00:00 04/09
00:00 04/10
CALENDAR DATE AND TIME UTC-(1997)

Chapter 4 - NIMS Observation Summaries

Contents

Introduction to Chapter 4

This chapter summarizes the NIMS G7 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 G7 Sequence. The information in this summary is derived from the G7 SEFs (Spacecraft Event File) and PBTs (Playback Tables) with inputs from the NIMS Science Coordinators regarding the start time and duration of the NIMS observations. There are twelve columns of information in this table:

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

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

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

The NIMS Obstab (Observation Table) is a time-ordered listing of the NIMS obsrvation parameters for use by downlink data processing of the NIMS G7 data. It is also derived from the G7 SEFs and PBTs. Each Obstab entry is 512 bytes long but is presented here as 4 lines of 128 characters per entry.

Sequence:	G07A1-ARF	Created: 4/9/97	Begin: 97-089/16:00:00 Finish: 97-093/15:55:00

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1	97	89	15:59:59.933		DMS:	: READY	RDY, TRACK 4, REV, TIC 5623.00 +/-	4O0	4	0	3,891,247	11:0
2	**97**	**89**	**16:00:00.000**	**20A3EX**	**37HR**	**Initial Condition**	**Replacement Heaters OFF**	**4O0**	**4**	**0**	**3,891,247**	**11:1**
3	**97**	**89**	**16:00:00.000**	**20A3EY**	**37C1PR**	**Initial Condition**	**Optics Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**3,891,247**	**11:1**
4	**97**	**89**	**16:00:00.000**	**20A3EZ**	**37C2PR**	**Initial Condition**	**Optics Heater 2 OFF (primary relay)**	**4O0**	**4**	**0**	**3,891,247**	**11:1**
5	**97**	**89**	**16:00:00.000**	**20A3FA**	**37F1PR**	**Initial Condition**	**Radiator Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,891,247**	**11:1**
6	**97**	**89**	**16:00:00.000**	**20A3FB**	**37F2PR**	**Initial Condition**	**Shield Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,891,247**	**11:1**
7	**97**	**89**	**16:00:00.000**	**20A3FD**	**40HRPR**	**Initial Condition**	**RCT Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,891,247**	**11:1**
8	**97**	**89**	**16:00:00.000**	**20A3FE**	**40T1PR**	**Initial Condition**	**PCT Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**3,891,247**	**11:1**
9	**97**	**89**	**16:00:00.000**	**20A3FF**	**40T2R**	**Initial Condition**	**PCT Heater 2 OFF**	**4O0**	**4**	**0**	**3,891,247**	**11:1**
10	**97**	**89**	**16:00:00.000**	**20A3EW**	**37A**	**Initial Condition**	**NIMS Power ON**	**4O0**	**4**	**0**	**3,891,247**	**11:1**
11	**97**	**89**	**16:00:51.933**	**432JA6B**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**4O0**	**4**	**0**	**3,891,247**	**89:0**
12	97	89	16:00:52.600	432JA431A6A	6RCDSL	DDSDSL,PLSDSL,EP	Record Deselect (DDS o	4O0	4	0	3,891,247	90:0
13	**97**	**89**	**16:00:53.266**	**432JA6D**	**6RTSL2**	**NIMNCG,AACSEL,RT**	**AACS SELECT**	**4O0**	**4**	**0**	**3,891,248**	**00:0**
14	97	89	16:00:53.266	432JA6C	6RTSL1		R/T Select of DDS and	4O0	4	0	3,891,248	00:0
15	97	89	16:01:47.933	488AA6A	6TMSED	NORM,BL4	Sci, Eng, and D/L Chan	4O0	4	0	3,891,248	82:0
16	97	89	16:01:59.933	432OA6A	6RTSL1		R/T Select of DDS and	4O0	4	0	3,891,249	09:0
17	97	89	16:04:59.933	418SA6B	6BUFHI	10	MUB Buffer high water	4O0	4	0	3,891,252	06:0
18	97	89	16:04:59.933	418SA6A	6BUFLO	2	MUB Buffer low water m	4O0	4	0	3,891,252	06:0
19	97	89	16:10:19.933	488AA6B	6TMSED	NORM,BL6	Sci, Eng, and D/L Chan	4O0	4	0	3,891,257	31:0
20	97	89	16:59:59.933	488AA6C	6TMSED	NORM,IL6	Sci, Eng, and D/L Chan	4O0	4	0	3,891,306	42:0
21	97	89	17:00:00.600	282NA432A431A6A	6RCDSL	DDSNCG,PLSDSL,EP	Record Deselect (DDS o	4O0	4	0	3,891,306	43:0
22	97	89	17:00:01.266	282NA432A6A	6RTSL1		R/T Select of DDS and	4O0	4	0	3,891,306	44:0
23	97	89	17:18:43.266	165BA4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4O0	4	0	3,891,324	89:0
24	97	89	17:18:43.933	165BA4B	7SCAN	NORM,230.632999,	Check S/P Position	4O0	4	0	3,891,324	90:0
25	97	89	17:48:27.933	488AA6D	6TMSED	NORM,IL7	Sci, Eng, and D/L Chan	4O0	4	0	3,891,354	36:0
26	97	89	18:49:32.600	175BB422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4O0	4	0	3,891,414	73:0
27	97	89	18:49:39.933	282NB431A6A	6RCSEL	DDSNCG,PLSSEL,EP	Record Select (DDS onl	4O0	4	0	3,891,414	84:0
28	97	89	18:49:40.466		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC *5624.41 +/-	4O0	4	0	3,891,414	84:8
29	97	89	18:49:41.866		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *5624.29 +/-	4O0	4	0	3,891,414	86:9
30	97	89	18:49:41.866		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC 5624.29 +/-	4O0	4	0	3,891,414	86:9
31	97	89	18:49:41.933	175BB176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	4O0	4	0	3,891,414	87:0
32	97	89	18:49:44.600	431OB6A	6RCSEL	DDSNCG,PLSNCG,EP	Record Select (DDS onl	4O0	4	0	3,891,415	00:0
33	97	89	19:35:16.600	432OX431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	4O0	4	0	3,891,460	03:0
34	97	89	19:35:17.266	432OX6A	6RTSL1		R/T Select of DDS and	4O0	4	0	3,891,460	04:0
35	97	89	19:35:20.600	282NC431A6A	6RCDSL	DDSNCG,PLSDSL,EP	Record Deselect (DDS o	4O0	4	0	3,891,460	09:0
36	97	89	19:35:26.600		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *4981.00 +/-	4O0	4	0	3,891,460	18:0
37	97	89	19:35:26.600	175BB422A6B	6DMSC	RDY,0	DMS Control Tape stop	4O0	4	0	3,891,460	18:0
38	97	89	19:36:09.933	282NC432A431A6A	6RCDSL	DDSNCG,PLSDSL,EP	Record Deselect (DDS o	4O0	4	0	3,891,460	83:0
39	97	89	19:36:10.600	282NC432A6A	6RTSL1		R/T Select of DDS and	4O0	4	0	3,891,460	84:0
40	97	89	20:00:59.933	444UA443A4B	**7MODE**	**INT**	AACS INERTIAL MODE	4O0	4	0	3,891,485	43:0
41	97	89	21:14:59.933	488AA6E	6TMSED	NORM,HL7	Sci, Eng, and D/L Chan	4O0	4	0	3,891,558	60:0
42	97	89	21:18:56.600	488AB6A	6TMSED	FILL,HL7	Sci, Eng, and D/L Chan	4O0	4	0	3,891,562	51:0
43	97	89	21:38:29.933	488AB6B	6TMSED	NORM,HL7	Sci, Eng, and D/L Chan	4O0	4	0	3,891,581	82:0
44	97	90	00:50:51.933	488AB6C	6TMSED	NORM,HL6	Sci, Eng, and D/L Chan	4O0	4	0	3,891,772	14:0
45	97	90	01:29:59.933	488AB6D	6TMSED	NORM,EL6	Sci, Eng, and D/L Chan	4O0	4	0	3,891,810	78:0
46	97	90	01:30:00.600	282ND432A431A6A	6RCDSL	DDSNCG,PLSDSL,EP	Record Deselect (DDS o	4O0	4	0	3,891,810	79:0
47	97	90	01:30:01.266	282ND432A6A	6RTSL1		R/T Select of DDS and	4O0	4	0	3,891,810	80:0
48	97	90	02:05:31.933	488AB6E	6TMSED	NORM,EL5	Sci, Eng, and D/L Chan	4O0	4	0	3,891,846	00:0
49	97	90	03:00:59.933	488AC6A	6TMSED	NORM,EL4	Sci, Eng, and D/L Chan	4O0	4	0	3,891,900	78:0
50	97	90	03:45:47.933	488AC6B	6TMSED	NORM,EL2	Sci, Eng, and D/L Chan	4O0	4	0	3,891,945	15:0
51	97	90	04:09:15.933	488AC6C	6TMSED	NORM,EL3	Sci, Eng, and D/L Chan	4O0	4	0	3,891,968	34:0
52	97	90	04:49:47.933	488AC6D	6TMSED	NORM,EL4	Sci, Eng, and D/L Chan	4O0	4	0	3,892,008	42:0
53	97	90	05:29:59.933	488AC6E	6TMSED	NORM,DL4	Sci, Eng, and D/L Chan	4O0	4	0	3,892,048	20:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
54	97	90	09:32:25.266	165BB4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4O0	4	0	3,892,287	89:0
55	97	90	09:32:25.933	165BB4B	7SCAN	NORM,221.816999,	Check S/P Position	4O0	4	0	3,892,287	90:0
56	97	90	11:08:59.933	488AD6A	6TMSED	FILL,DL4	Sci, Eng, and D/L Chan	4O0	4	0	3,892,383	45:0
57	97	90	11:15:55.933	488AD6B	6TMSED	FILL,DL2	Sci, Eng, and D/L Chan	4O0	4	0	3,892,390	32:0
58	97	90	11:29:02.600	488AD6C	6TMSED	NORM,DL2	Sci, Eng, and D/L Chan	4O0	4	0	3,892,403	29:0
59	97	90	11:35:07.933	488AD6D	6TMSED	NORM,DL3	Sci, Eng, and D/L Chan	4O0	4	0	3,892,409	31:0
60	97	90	12:28:27.933	488AD6E	6TMSED	NORM,DL4	Sci, Eng, and D/L Chan	4O0	4	0	3,892,462	08:0
61	97	90	12:53:17.933	488AE6A	6TMSED	FILL,DL4	Sci, Eng, and D/L Chan	4O0	4	0	3,892,486	59:0
62	97	90	13:21:57.266	488AE6B	6TMSED	NORM,DL4	Sci, Eng, and D/L Chan	4O0	4	0	3,892,514	90:0
63	97	90	15:39:28.600	176KA6A	6TMREC	ORT	OPNAV - REAL TIME Record Mode Change	4O0	4	0	3,892,651	00:0
64	97	90	15:45:31.266	165QA4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4O0	4	0	3,892,656	89:0
65	97	90	15:45:31.933	165QA4B	7SCAN	NORM,197.300999,	Check S/P Position	4O0	4	0	3,892,656	90:0
66	97	90	15:59:59.933	488AE6C	6TMSED	NORM,GL4	Sci, Eng, and D/L Chan	4O0	4	0	3,892,671	27:0
67	97	90	16:00:00.600	282NE432A431A6A	6RCDSL	DDSNCG,PLSDSL,EP	Record Deselect (DDS o	4O0	4	0	3,892,671	28:0
68	97	90	16:00:01.266	282NE432A6A	6RTSL1		R/T Select of DDS and	4O0	4	0	3,892,671	29:0
69	97	90	16:00:41.266	165QB4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4O0	4	0	3,892,671	89:0
70	97	90	16:00:41.933	165QB4B	7SCAN	NORM,197.405998,	Check S/P Position	4O0	4	0	3,892,671	90:0
71	97	90	16:15:51.266	165QC4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4O0	4	0	3,892,686	89:0
72	97	90	16:15:51.933	165QC4B	7SCAN	NORM,197.552999,	Check S/P Position	4O0	4	0	3,892,686	90:0
73	97	90	16:18:51.933	488AE6D	6TMSED	NORM,GL6	Sci, Eng, and D/L Chan	4O0	4	0	3,892,689	87:0
74	97	90	17:34:43.200	165BR4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4O0	4	0	3,892,764	89:0
75	97	90	17:34:43.866	165BR4B	7SCAN	NORM,221.816999,	Check S/P Position	4O0	4	0	3,892,764	90:0
76	97	90	17:48:27.866	488AE6E	6TMSED	NORM,GL7	Sci, Eng, and D/L Chan	4O0	4	0	3,892,778	52:0
77	97	90	19:30:51.866	488AF6A	6TMSED	NORM,GL6	Sci, Eng, and D/L Chan	4O0	4	0	3,892,879	77:0
78	97	90	19:42:25.866	488AF6B	6TMSED	FILL,GL6	Sci, Eng, and D/L Chan	4O0	4	0	3,892,891	26:0
79	97	90	19:59:59.866	488AF6C	6TMSED	FILL,EL6	Sci, Eng, and D/L Chan	4O0	4	0	3,892,908	60:0
80	97	90	20:00:00.533	282NF432A431A6A	6RCDSL	DDSNCG,PLSDSL,EP	Record Deselect (DDS o	4O0	4	0	3,892,908	61:0
81	97	90	20:00:01.200	282NF432A6A	6RTSL1		R/T Select of DDS and	4O0	4	0	3,892,908	62:0
82	97	90	20:04:15.200	488AF6D	6TMSED	NORM,EL6	Sci, Eng, and D/L Chan	4O0	4	0	3,892,912	79:0
83	97	91	02:01:15.866	488AG6A	6TMSED	NORM,EL4	Sci, Eng, and D/L Chan	4O0	4	0	3,893,265	87:0
84	97	91	02:59:59.866	488AG6B	6TMSED	NORM,CL4	Sci, Eng, and D/L Chan	4O0	4	0	3,893,324	04:0
85	97	91	03:22:19.866	488AG6C	6TMSED	NORM,CL3	Sci, Eng, and D/L Chan	4O0	4	0	3,893,346	12:0
86	97	91	03:41:31.866	488AG6D	6TMSED	NORM,CL2	Sci, Eng, and D/L Chan	4O0	4	0	3,893,365	11:0
87	97	91	04:09:15.866	488AG6E	6TMSED	NORM,CL3	Sci, Eng, and D/L Chan	4O0	4	0	3,893,392	50:0
88	97	91	04:23:05.200	20KA4A	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	4O0	4	0	3,893,406	20:0
89	97	91	04:29:59.866	41WC99A	**POWER**	**PWR MODE change**	Change to Maneuver/Playback Mode	4O0	4	0	3,893,413	05:0
90	**97**	**91**	**04:30:03.866**	**41WC3K**	**37F2PR**	**1**	**Shield Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,893,413**	**11:0**
91	**97**	**91**	**04:30:13.866**	**41WC3L**	**37F2PR**	**2**	**Shield Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,893,413**	**26:0**
92	**97**	**91**	**04:32:23.866**	**41WC3G**	**40T1P**	**1**	**PCT Heater 1 ON (primary relay)**	**4O0**	**4**	**0**	**3,893,415**	**39:0**
93	**97**	**91**	**04:32:33.866**	**41WC3H**	**40T1P**	**2**	**PCT Heater 1 ON (primary relay)**	**4O0**	**4**	**0**	**3,893,415**	**54:0**
94	**97**	**91**	**04:32:43.866**	**41WC3I**	**40T2**	**1**	**PCT Heater 2 ON**	**4O0**	**4**	**0**	**3,893,415**	**69:0**
95	**97**	**91**	**04:32:53.866**	**41WC3J**	**40T2**	**2**	**PCT Heater 2 ON**	**4O0**	**4**	**0**	**3,893,415**	**84:0**
96	97	91	04:32:59.866	488AH6A	6TMSED	NORM,CH3	Sci, Eng, and D/L Chan	4O0	4	0	3,893,416	02:0
97	97	91	04:49:47.866	488AH6B	6TMSED	NORM,CH4	Sci, Eng, and D/L Chan	4O0	4	0	3,893,432	58:0
98	97	91	04:49:59.866	474AA416A4B	**7MODE**	**INT**	AACS INERTIAL MODE	4O0	4	0	3,893,432	76:0
99	97	91	04:51:59.866	474AA416A4D	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	4O0	4	0	3,893,434	74:0
100	97	91	04:56:13.866	474AA416A4E	7BURN	Z,55.1569,-28.02	ALERT -- Thruster fire	4O0	4	0	3,893,439	00:0
101	97	91	05:08:13.200	488AH6C	6TMSED	FILL,CH4	Sci, Eng, and D/L Chan	4O0	4	0	3,893,450	78:0
102	97	91	05:21:43.200	474AA416A4G	7BURN	T,55.1569,-28.02	ALERT -- Thruster fire	4O0	4	0	3,893,464	19:0
103	97	91	05:36:52.533	488AH6D	6TMSED	NORM,CH4	Sci, Eng, and D/L Chan	4O0	4	0	3,893,479	18:0
104	97	91	11:00:59.866	488AI6A	6TMSED	NORM,CH2	Sci, Eng, and D/L Chan	4O0	4	0	3,893,799	69:0
105	97	91	11:28:43.866	488AI6B	6TMSED	NORM,CH3	Sci, Eng, and D/L Chan	4O0	4	0	3,893,827	17:0
106	97	91	12:30:35.866	488AI6C	6TMSED	NORM,CH4	Sci, Eng, and D/L Chan	4O0	4	0	3,893,888	34:0
107	97	91	12:39:59.866	41WD99A	**POWER**	**PWR MODE change**	Change to Data Taking Mode	4O0	4	0	3,893,897	61:0
108	**97**	**91**	**12:40:03.866**	**41WD3K**	**37F2PR**	**1**	**Shield Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,893,897**	**67:0**

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters		Description	GCM	GO	GS	RIM	MF I
109	**97**	**91**	**12:40:13.866**	**41WD3L**	**37F2PR**		**2**	**Shield Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,893,897:82:0**	
110	**97**	**91**	**12:40:23.866**	**41WD3A**	**40T1PR**		**1**	**PCT Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**3,893,898:06:0**	
111	**97**	**91**	**12:40:33.866**	**41WD3B**	**40T1PR**		**2**	**PCT Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**3,893,898:21:0**	
112	**97**	**91**	**12:40:43.866**	**41WD3C**	**40T2R**		**1**	**PCT Heater 2 OFF**	**4O0**	**4**	**0**	**3,893,898:36:0**	
113	**97**	**91**	**12:40:53.866**	**41WD3D**	**40T2R**		**2**	**PCT Heater 2 OFF**	**4O0**	**4**	**0**	**3,893,898:51:0**	
114	97	91	12:48:10.533	488AI6D	6TMSED	FILL,CH4		Sci, Eng, and D/L Chan	4O0	4	0	3,893,905:69:0	
115	97	91	12:48:59.866	488AI6E	6TMSED	FILL,CL4		Sci, Eng, and D/L Chan	4O0	4	0	3,893,906:52:0	
116	97	91	12:49:59.200	432OZ431A6A	6RCDSL	DDSNCG,PLSNCG,EP		Record Deselect (DDS o	4O0	4	0	3,893,907:50:0	
117	97	91	12:49:59.866	432OZ6A	6RTSL1			R/T Select of DDS and	4O0	4	0	3,893,907:51:0	
118	97	91	12:50:25.200	431ZL6A	6RCDSL	DDSNCG,PLSNCG,EP		Record Deselect (DDS o	4O0	4	0	3,893,907:89:0	
119	97	91	12:54:33.200	20ZM6A	6EUVON				4O0	4	0	3,893,912:06:0	
120	97	91	12:55:29.866	431ZM6A	6RCSEL	DDSNCG,PLSNCG,EP		Record Select (DDS onl	4O0	4	0	3,893,913:00:0	
121	97	91	12:59:48.533	175NC422A6A	6DMSC	R28,0		DMS Control Tape runup 28.8kbp	4O0	4	0	3,893,917:24:0	
122	97	91	12:59:56.400		DMS:	: *RUNUP		R28, TRACK *4, *REV, TIC *4982.35 +/-	4O0	4	0	3,893,917:35:8	
123	97	91	12:59:59.866	488AJ6A	6TMSED	FILL,EL4		Sci, Eng, and D/L Chan	4O0	4	0	3,893,917:41:0	
124	97	91	13:00:00.400		DMS:	**: *RECORD**		R28, TRACK 4, REV, TIC *4980.85 +/-	4O0	4	0	3,893,917:41:8	
125	97	91	13:00:00.400		DMS:	: *AT_SPD		R28, TRACK 4, REV, TIC 4980.85 +/-	4O0	4	0	3,893,917:41:8	
126	97	91	13:00:00.533	175NC176A6A	6TMREC	MPP		28.8 KBPS PWS RECORD Record Mode Change	4O0	4	0	3,893,917:42:0	
127	97	91	13:00:31.866	165BC4A	7TMOT	DIS,TMC		Disable IVP - Target Motion	4O0	4	0	3,893,917:89:0	
128	97	91	13:00:32.533	165BC4B	7SCAN	NORM,221.787998,		Check S/P Position	4O0	4	0	3,893,917:90:0	
129	97	91	13:04:07.866		DMS:	**: *RUNDOWN**		R28, TRACK 4, REV, TIC *4763.35 +/-	4O0	4	0	3,893,921:49:0	
130	97	91	13:04:07.866	175NC422A6B	6DMSC	RDY,0		DMS Control Tape stop	4O0	4	0	3,893,921:49:0	
131	97	91	13:16:49.200	488AJ6B	6TMSED	NORM,EL4		Sci, Eng, and D/L Chan	4O0	4	0	3,893,934:08:0	
132	97	91	15:59:39.866	488AJ6C	6TMSED	NORM,EL6		Sci, Eng, and D/L Chan	4O0	4	0	3,894,095:13:0	
133	97	91	16:59:59.866	488AJ6D	6TMSED	NORM,GL6		Sci, Eng, and D/L Chan	4O0	4	0	3,894,154:74:0	
134	97	91	17:00:00.533	282NI432A431A6A	6RCDSL	DDSNCG,PLSDSL,EP		Record Deselect (DDS o	4O0	4	0	3,894,154:75:0	
135	97	91	17:00:01.200	282NI432A6A	6RTSL1			R/T Select of DDS and	4O0	4	0	3,894,154:76:0	
136	97	91	17:44:11.866	488AJ6E	6TMSED	NORM,GL7		Sci, Eng, and D/L Chan	4O0	4	0	3,894,198:48:0	
137	97	91	21:13:39.866	488AK6A	6TMSED	FILL,GL7		Sci, Eng, and D/L Chan	4O0	4	0	3,894,405:63:0	
138	97	91	21:33:12.533	488AK6B	6TMSED	NORM,GL7		Sci, Eng, and D/L Chan	4O0	4	0	3,894,425:02:0	
139	97	91	23:59:59.800	488AK6C	6TMSED	NORM,EL7		Sci, Eng, and D/L Chan	4O0	4	0	3,894,570:18:0	
140	97	92	00:00:00.466	282NJ432A431A6A	6RCDSL	DDSNCG,PLSDSL,EP		Record Deselect (DDS o	4O0	4	0	3,894,570:19:0	
141	97	92	00:00:01.133	282NJ432A6A	6RTSL1			R/T Select of DDS and	4O0	4	0	3,894,570:20:0	
142	97	92	00:06:03.800	488AK6D	6TMSED	NORM,EL6		Sci, Eng, and D/L Chan	4O0	4	0	3,894,576:18:0	
143	97	92	01:56:59.800	488AK6E	6TMSED	NORM,EL5		Sci, Eng, and D/L Chan	4O0	4	0	3,894,685:83:0	
144	97	92	02:12:13.800	165BD4A	7TMOT	DIS,TMC		Disable IVP - Target Motion	4O0	4	0	3,894,700:89:0	
145	97	92	02:12:14.466	165BD4B	7SCAN	NORM,226.068998,		Check S/P Position	4O0	4	0	3,894,700:90:0	
146	97	92	02:52:27.800	488AL6A	6TMSED	NORM,EL4		Sci, Eng, and D/L Chan	4O0	4	0	3,894,740:70:0	
147	97	92	03:41:31.800	488AL6B	6TMSED	NORM,EL2		Sci, Eng, and D/L Chan	4O0	4	0	3,894,789:27:0	
148	97	92	04:11:23.800	488AL6C	6TMSED	NORM,EL3		Sci, Eng, and D/L Chan	4O0	4	0	3,894,818:76:0	
149	97	92	04:29:59.800	488AL6D	6TMSED	NORM,DL3		Sci, Eng, and D/L Chan	4O0	4	0	3,894,837:21:0	
150	97	92	04:49:47.800	488AL6E	6TMSED	NORM,DL4		Sci, Eng, and D/L Chan	4O0	4	0	3,894,856:74:0	
151	97	92	08:14:12.466	165CA4A	7TMOT	DIS,TMC		Disable IVP - Target Motion	4O0	4	0	3,895,058:89:0	
152	97	92	08:14:13.133	165CA4B	7SCAN	NORM,234.269999,		Check S/P Position	4O0	4	0	3,895,058:90:0	
153	97	92	08:43:31.800	165CB4A	7TMOT	DIS,TMC		Disable IVP - Target Motion	4O0	4	0	3,895,087:89:0	
154	97	92	08:43:32.466	165CB4B	7SCAN	NORM,234.976999,		Check S/P Position	4O0	4	0	3,895,087:90:0	
155	97	92	09:51:16.466	165CC4A	7TMOT	DIS,TMC		Disable IVP - Target Motion	4O0	4	0	3,895,154:89:0	
156	97	92	09:51:17.133	165CC4B	7SCAN	NORM,236.653999,		Check S/P Position	4O0	4	0	3,895,154:90:0	
157	97	92	10:53:57.800	165ID4A	7TMOT	DIS,TMC		Disable IVP - Target Motion	4O0	4	0	3,895,216:89:0	
158	97	92	10:53:58.466	165ID4B	7SCAN	NORM,237.875,-21		Check S/P Position	4O0	4	0	3,895,216:90:0	
159	97	92	10:57:55.800	118ID	**SMOS**	GS			4O0	4	0	3,895,220:82:0	
160	97	92	10:58:05.800	118ID110A111A4A	7STRP	0.003,0.0,182,0,		Slew =,1.01	4O0	4	0	3,895,221:06:0	
161	97	92	10:58:53.133	175ID422A6A	6DMSC	R115,0		DMS Control Tape runup 115.2kb	4O0	4	0	3,895,221:77:0	
162	97	92	10:59:01.000		DMS:	: *RUNUP		R115, TRACK *4, *REV, TIC *4764.47 +/-	4O0	4	0	3,895,221:88:8	
163	97	92	10:59:05.000		DMS:	**: *RECORD**		R115, TRACK 4, REV, TIC *4758.17 +/-	4O0	4	0	3,895,222:03:8	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
164	97	92	10:59:05.000		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC 4758.17 +/-	4O0	4	0	3,895,222:03:8	
165	97	92	10:59:05.133	175ID176A6A	6TMREC	HMA	115.2 KBPS IMAGE(1-400)RECORD Record Mode	4O0	4	0	3,895,222:04:0	
166	97	92	10:59:06.466	118ID11A	**SMOS**	GE		4O0	4	0	3,895,222:06:0	
167	97	92	10:59:33.133	175ID422A6B	6DMSC	RDY,0	DMS Control Tape stop	4O0	4	0	3,895,222:46:0	
168	97	92	10:59:33.133		DMS:	**: *RUNDOWN**	R115, TRACK 4, REV, TIC *4659.26 +/-	4O0	4	0	3,895,222:46:0	
169	97	92	11:07:06.466	165CD4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4O0	4	0	3,895,229:89:0	
170	97	92	11:07:07.133	165CD4B	7SCAN	NORM,238.530998,	Check S/P Position	4O0	4	0	3,895,229:90:0	
171	97	92	11:07:23.800	488AM6A	6TMSED	NORM,DL2	Sci, Eng, and D/L Chan	4O0	4	0	3,895,230:24:0	
172	97	92	11:36:25.800	165CE4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4O0	4	0	3,895,258:89:0	
173	97	92	11:36:26.466	165CE4B	7SCAN	NORM,239.266998,	Check S/P Position	4O0	4	0	3,895,258:90:0	
174	97	92	11:37:15.800	488AM6B	6TMSED	NORM,DL3	Sci, Eng, and D/L Chan	4O0	4	0	3,895,259:73:0	
175	**97**	**92**	**12:12:55.067**	**G7NNCHOPON01-**		**-----START------**		**4O0**	**4**	**0**	**: :**	
176	**97**	**92**	**12:16:49.133**	**125DA4A**	**37IST**	**1,0,0,OFF,0,0,0**	**Chopper ON, Sync, 63Hz (Ref)**	**460**	**4**	**0**	**3,895,298:84:0**	
177	97	92	12:16:49.133	125DA	NIMSINIT	GS	##### GROUP START INIT	460	4	0	3,895,298:84:0	
178	**97**	**92**	**12:17:49.800**	**125DA4B**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**4R0**	**4**	**0**	**3,895,299:84:0**	
179	**97**	**92**	**12:18:50.466**	**125DA4C**	**37MB**	**0,0,0,0,0,0**	**Selects mirror (spatial) edit table**	**4R0**	**4**	**0**	**3,895,300:84:0**	
180	97	92	12:18:50.466	125DA11A	NIMSINIT	GE	##### GROUP END INIT	4R0	4	0	3,895,300:84:0	
181	**97**	**92**	**12:18:59.067**	**G7NNCHOPON01-**		**-----STOP-------**		**4R0**	**4**	**0**	**: :**	
182	**97**	**92**	**12:22:01.067**	**G7NNSTRCAL01-**		**-----START------**		**4R0**	**4**	**0**	**: :**	
183	97	92	12:22:56.466	165DB4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R0	4	0	3,895,304:89:0	
184	97	92	12:22:57.133	165DB4B	7SCAN	NORM,278.692997,	Check S/P Position	4R0	4	0	3,895,304:90:0	
185	97	92	12:24:54.466	125DB11A	NIMSINIT	GE	##### GROUP END INIT	4R0	4	0	3,895,306:84:0	
186	**97**	**92**	**12:24:54.466**	**125DB4A**	**37IST**	**0,2,0,OFF,0,1,1**	**Gain State 4**	**4R0**	**4**	**0**	**3,895,306:84:0**	
187	97	92	12:24:54.466	125DB	NIMSINIT	GS	##### GROUP START INIT	4R0	4	0	3,895,306:84:0	
188	**97**	**92**	**12:25:55.133**	**127DB4A**	**37IOP**	**7,0**	**Fixed Map, Grating Start Position =00**	**4R7**	**4**	**0**	**3,895,307:84:0**	
189	97	92	12:25:55.133	127DB	NIMSTAB	GS	%%%%% GROUP START TAB	4R7	4	0	3,895,307:84:0	
190	**97**	**92**	**12:25:55.800**	**127DB4B**	**37ETB**	**07,C7,19,FF,FF,0**	**Loads wavelength edit table**	**4R7**	**4**	**0**	**3,895,307:85:0**	
191	97	92	12:26:03.800	127DB11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R7	4	0	3,895,308:06:0	
192	97	92	12:26:45.133	175DB422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	4R7	4	0	3,895,308:68:0	
193	97	92	12:26:51.133	117DB	**CSMOS**	GS	***** GROUP START CSMOS	4R7	4	0	3,895,308:77:0	
194	97	92	12:26:53.000		DMS:	: *RUNUP	R28, TRACK *4, *REV, TIC *4659.67 +/-	4R7	4	0	3,895,308:79:8	
195	97	92	12:26:57.000		DMS:	**: *RECORD**	R28, TRACK 4, REV, TIC *4658.17 +/-	4R7	4	0	3,895,308:85:8	
196	97	92	12:26:57.000		DMS:	: *AT_SPD	R28, TRACK 4, REV, TIC 4658.17 +/-	4R7	4	0	3,895,308:85:8	
197	97	92	12:26:57.133	175DB176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	4R7	4	0	3,895,308:86:0	
198	97	92	12:27:00.466	117DB105A106A4A	**7STRP**	**0.004,0.0,0,0,0,**	**Slew =,0.76**	4R7	4	0	3,895,309:00:0	
199	**97**	**92**	**12:27:00.481**	**G7NNSTRCAL01-**	**NIMPBK**	**301DA**	**NIMS STAR CALIBRATION**	**4R7**	**4**	**0**	**: :**	
200	97	92	12:27:09.133	117DB105A106A4B	**7STRP**	**-0.004,0.00015,0**	**Slew =,2.01**	4R7	4	0	3,895,309:13:0	
201	97	92	12:27:14.466	117DB105A106A4C	**7STRP**	**0.004,0.0,0,0,0,**	**Slew =,0.76**	4R7	4	0	3,895,309:21:0	
202	97	92	12:27:23.133	117DB105A106A4D	**7STRP**	**-0.004,0.00015,0**	**Slew =,2.01**	4R7	4	0	3,895,309:34:0	
203	97	92	12:27:28.466	117DB105A106A4E	**7STRP**	**0.004,0.0,0,0,0,**	**Slew =,0.76**	4R7	4	0	3,895,309:42:0	
204	97	92	12:27:37.133	117DB11A	**CSMOS**	GE	***** GROUP END CSMOS	4R7	4	0	3,895,309:55:0	
205	**97**	**92**	**12:27:37.147**	**G7NNSTRCAL01-**	**DESELC**	**300DA**	**NIMS STAR CALIBRATION**	**4R7**	**4**	**0**	**: :**	
206	97	92	12:27:38.466		DMS:	**: *RUNDOWN**	R28, TRACK 4, REV, TIC *4621.73 +/-	4R7	4	0	3,895,309:57:0	
207	97	92	12:27:38.466	175DB422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R7	4	0	3,895,309:57:0	
208	97	92	12:27:59.800	165BE4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R7	4	0	3,895,309:89:0	
209	97	92	12:28:00.466	165BE4B	7SCAN	NORM,221.262999,	Check S/P Position	4R7	4	0	3,895,309:90:0	
210	**97**	**92**	**12:30:06.400**	**G7NNSTRCAL01-**		**-----STOP-------**		**4R7**	**4**	**0**	**: :**	
211	97	92	12:34:51.800	488AM6C	6TMSED	NORM,DL4	Sci, Eng, and D/L Chan	4R7	4	0	3,895,316:70:0	
212	97	92	12:43:01.133	488AM6D	6TMSED	FILL,DL4	Sci, Eng, and D/L Chan	4R7	4	0	3,895,324:76:0	
213	97	92	13:10:27.800	165BF4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R7	4	0	3,895,351:89:0	
214	97	92	13:10:28.466	165BF4B	7SCAN	NORM,221.859999,	Check S/P Position	4R7	4	0	3,895,351:90:0	
215	97	92	13:11:40.466	488AM6E	6TMSED	NORM,DL4	Sci, Eng, and D/L Chan	4R7	4	0	3,895,353:16:0	
216	97	92	14:12:08.466	165BG4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R7	4	0	3,895,412:89:0	
217	97	92	14:12:09.133	165BG4B	7SCAN	NORM,221.262999,	Check S/P Position	4R7	4	0	3,895,412:90:0	
218	97	92	14:43:29.133	165AA4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R7	4	0	3,895,443:89:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
219	97	92	14:43:29.800	165AA4B	7SCAN	NORM,222.865,-16	Check S/P Position	4R7	4	0	3,895,443:90:0	
220	**97**	**92**	**14:43:34.400**	**G7JNAURMAP01+**		**-----START------**		**4R7**	**4**	**0**	**: :**	
221	97	92	14:59:59.800	488AN6A	6TMSED	NORM,EL4	Sci, Eng, and D/L Chan	4R7	4	0	3,895,460:28:0	
222	97	92	15:15:50.466	165AB4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R7	4	0	3,895,475:89:0	
223	97	92	15:15:51.133	165AB4B	7SCAN	NORM,221.318998,	Check S/P Position	4R7	4	0	3,895,475:90:0	
224	97	92	15:59:39.800	488AN6B	6TMSED	NORM,EL6	Sci, Eng, and D/L Chan	4R7	4	0	3,895,519:29:0	
225	97	92	16:38:45.133	165IA4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R7	4	0	3,895,557:89:0	
226	97	92	16:38:45.800	165IA4B	7SCAN	NORM,321.421997,	Check S/P Position	4R7	4	0	3,895,557:90:0	
227	97	92	16:42:43.800	175IA422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	4R7	4	0	3,895,561:83:0	
228	97	92	16:42:51.666		DMS:	: *RUNUP	R115, TRACK *4, *REV, TIC *4622.84 +/-	4R7	4	0	3,895,562:03:8	
229	97	92	16:42:55.666		DMS:	**: *RECORD**	R115, TRACK 4, REV, TIC *4616.54 +/-	4R7	4	0	3,895,562:09:8	
230	97	92	16:42:55.666		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC 4616.54 +/-	4R7	4	0	3,895,562:09:8	
231	97	92	16:42:55.800	175IA176A6A	6TMREC	HIM	115.2 KBPS SSI + NIMS RECORD Record Mode	4R7	4	0	3,895,562:10:0	
232	97	92	16:43:49.800	175IA422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R7	4	0	3,895,563:00:0	
233	97	92	16:43:49.800		DMS:	**: *RUNDOWN**	R115, TRACK 4, REV, TIC *4426.23 +/-	4R7	4	0	3,895,563:00:0	
234	97	92	16:47:51.133	165AC4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R7	4	0	3,895,566:89:0	
235	97	92	16:47:51.800	165AC4B	7SCAN	NORM,224.667999,	Check S/P Position	4R7	4	0	3,895,566:90:0	
236	97	92	16:50:53.133	165AC4C	7VECT		Inert vect update UTC	4R7	4	0	3,895,569:89:0	
237	97	92	16:50:53.800	165AC4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	4R7	4	0	3,895,569:90:0	
238	97	92	16:50:58.466	175JF422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	4R7	4	0	3,895,570:06:0	
239	97	92	16:51:06.333		DMS:	: *RUNUP	R115, TRACK *4, *REV, TIC *4426.65 +/-	4R7	4	0	3,895,570:17:8	
240	97	92	16:51:10.333		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC 4420.35 +/-	4R7	4	0	3,895,570:23:8	
241	97	92	16:51:10.333		DMS:	**: *RECORD**	R115, TRACK 4, REV, TIC *4420.35 +/-	4R7	4	0	3,895,570:23:8	
242	97	92	16:51:10.466	175JF176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	4R7	4	0	3,895,570:24:0	
243	97	92	16:51:25.133	175JF422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R7	4	0	3,895,570:46:0	
244	97	92	16:51:25.133		DMS:	**: *RUNDOWN**	R115, TRACK 4, REV, TIC *4368.31 +/-	4R7	4	0	3,895,570:46:0	
245	97	92	16:52:51.133	125DC	NIMSINIT	GS	##### GROUP START INIT	4R7	4	0	3,895,571:84:0	
246	**97**	**92**	**16:52:51.133**	**125DC4A**	**37IST**	**0,2,0,OFF,0,1,0**	**Gain State 2**	**2R7**	**4**	**0**	**3,895,571:84:0**	
247	**97**	**92**	**16:53:51.800**	**125DC4B**	**37MB**	**1E,0F,0,0,0,0**	**Selects mirror (spatial) edit table**	**2R7**	**4**	**0**	**3,895,572:84:0**	
248	97	92	16:53:51.800	125DC11A	NIMSINIT	GE	##### GROUP END INIT	2R7	4	0	3,895,572:84:0	
249	97	92	16:54:52.466	127DC	NIMSTAB	GS	%%%%% GROUP START TAB	2R7	4	0	3,895,573:84:0	
250	**97**	**92**	**16:54:52.466**	**127DC4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**3,895,573:84:0**	
251	**97**	**92**	**16:54:53.133**	**127DC4B**	**37ETB**	**04,C4,35,FF,FF**	**Loads wavelength edit table**	**2R3**	**4**	**0**	**3,895,573:85:0**	
252	97	92	16:55:01.133	127DC11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	3,895,574:06:0	
253	**97**	**92**	**16:55:17.133**	**432DA6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**	**NIMS R/T SELECT**	**2R3**	**4**	**0**	**3,895,574:30:0**	
254	97	92	16:56:01.800	175JG422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2R3	4	0	3,895,575:06:0	
255	97	92	16:56:09.666		DMS:	: *RUNUP	R115, TRACK *4, *REV, TIC *4368.73 +/-	2R3	4	0	3,895,575:17:8	
256	97	92	16:56:13.666		DMS:	**: *RECORD**	R115, TRACK 4, REV, TIC *4362.43 +/-	2R3	4	0	3,895,575:23:8	
257	97	92	16:56:13.666		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC 4362.43 +/-	2R3	4	0	3,895,575:23:8	
258	97	92	16:56:13.800	175JG176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	3,895,575:24:0	
259	97	92	16:56:28.466	175JG422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,895,575:46:0	
260	97	92	16:56:28.466		DMS:	**: *RUNDOWN**	R115, TRACK 4, REV, TIC *4310.40 +/-	2R3	4	0	3,895,575:46:0	
261	97	92	16:59:55.800	125LI	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	3,895,578:84:0	
262	97	92	16:59:55.800	125LI11A	NIMSINIT	GE	##### GROUP END INIT	2R3	4	0	3,895,578:84:0	
263	**97**	**92**	**16:59:55.800**	**125LI4A**	**37MB**	**1D,17,0,0,0,0**	**Selects mirror (spatial) edit table**	**2R3**	**4**	**0**	**3,895,578:84:0**	
264	97	92	17:01:05.133	175JH422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2R3	4	0	3,895,580:06:0	
265	97	92	17:01:13.000		DMS:	: *RUNUP	R115, TRACK *4, *REV, TIC *4310.81 +/-	2R3	4	0	3,895,580:17:8	
266	97	92	17:01:17.000		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC 4304.51 +/-	2R3	4	0	3,895,580:23:8	
267	97	92	17:01:17.000		DMS:	**: *RECORD**	R115, TRACK 4, REV, TIC *4304.51 +/-	2R3	4	0	3,895,580:23:8	
268	97	92	17:01:17.133	175JH176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	3,895,580:24:0	
269	97	92	17:01:31.800	175JH422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,895,580:46:0	
270	97	92	17:01:31.800		DMS:	**: *RUNDOWN**	R115, TRACK 4, REV, TIC *4252.48 +/-	2R3	4	0	3,895,580:46:0	
271	**97**	**92**	**17:02:20.466**	**432DB6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**2R3**	**4**	**0**	**3,895,581:28:0**	
272	**97**	**92**	**17:02:57.800**	**125LA4A**	**37MB**	**1B,1B,0,0,0,0**	**Selects mirror (spatial) edit table**	**2R3**	**4**	**0**	**3,895,581:84:0**	
273	97	92	17:02:57.800	125LA	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	3,895,581:84:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
274	97	92	17:02:57.800	125LA11A	NIMSINIT	GE	##### GROUP END INIT	2R3	4	0	3,895,581	84:0
275	97	92	17:05:59.800	125LB	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	3,895,584	84:0
276	97	92	17:05:59.800	125LB11A	NIMSINIT	GE	##### GROUP END INIT	2R3	4	0	3,895,584	84:0
277	**97**	**92**	**17:05:59.800**	**125LB4A**	**37MB**	**17,1D,0,0,0,0**	**Selects mirror (spatial) edit table**	**2R3**	**4**	**0**	**3,895,584**	**84:0**
278	97	92	17:06:08.466	175JI422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2R3	4	0	3,895,585	06:0
279	97	92	17:06:16.333		DMS:	: *RUNUP	R115, TRACK *4, *REV, TIC *4252.89 +/-	2R3	4	0	3,895,585	17:8
280	97	92	17:06:20.333		DMS:	**: *RECORD**	R115, TRACK 4, REV, TIC *4246.59 +/-	2R3	4	0	3,895,585	23:8
281	97	92	17:06:20.333		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC 4246.59 +/-	2R3	4	0	3,895,585	23:8
282	97	92	17:06:20.466	175JI176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	3,895,585	24:0
283	97	92	17:06:35.133		DMS:	**: *RUNDOWN**	R115, TRACK 4, REV, TIC *4194.56 +/-	2R3	4	0	3,895,585	46:0
284	97	92	17:06:35.133	175JI422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,895,585	46:0
285	97	92	17:11:11.800	175JJ422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2R3	4	0	3,895,590	06:0
286	97	92	17:11:19.666		DMS:	: *RUNUP	R115, TRACK *4, *REV, TIC *4194.98 +/-	2R3	4	0	3,895,590	17:8
287	97	92	17:11:23.666		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC 4188.68 +/-	2R3	4	0	3,895,590	23:8
288	97	92	17:11:23.666		DMS:	**: *RECORD**	R115, TRACK 4, REV, TIC *4188.68 +/-	2R3	4	0	3,895,590	23:8
289	97	92	17:11:23.800	175JJ176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	3,895,590	24:0
290	97	92	17:11:38.466	175JJ422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,895,590	46:0
291	97	92	17:11:38.466		DMS:	**: *RUNDOWN**	R115, TRACK 4, REV, TIC *4136.65 +/-	2R3	4	0	3,895,590	46:0
292	97	92	17:16:15.133	175IK422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2R3	4	0	3,895,595	06:0
293	97	92	17:16:23.000		DMS:	: *RUNUP	R115, TRACK *4, *REV, TIC *4137.06 +/-	2R3	4	0	3,895,595	17:8
294	97	92	17:16:27.000		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC 4130.76 +/-	2R3	4	0	3,895,595	23:8
295	97	92	17:16:27.000		DMS:	**: *RECORD**	R115, TRACK 4, REV, TIC *4130.76 +/-	2R3	4	0	3,895,595	23:8
296	97	92	17:16:27.133	175IK176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	3,895,595	24:0
297	97	92	17:16:42.466		DMS:	**: *RUNDOWN**	R115, TRACK 4, REV, TIC *4076.39 +/-	2R3	4	0	3,895,595	47:0
298	97	92	17:16:42.466	175IK422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,895,595	47:0
299	97	92	17:19:11.800	165AD4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,895,597	89:0
300	97	92	17:19:12.466	165AD4B	7SCAN	NORM,224.997999,	Check S/P Position	2R3	4	0	3,895,597	90:0
301	97	92	17:39:55.800	488AN6C	6TMSED	NORM,EL7	Sci, Eng, and D/L Chan	2R3	4	0	3,895,618	44:0
302	97	92	17:49:31.800	165AE4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,895,627	89:0
303	97	92	17:49:32.466	165AE4B	7SCAN	NORM,223.068998,	Check S/P Position	2R3	4	0	3,895,627	90:0
304	**97**	**92**	**17:56:33.133**	**125LD4A**	**37MB**	**0F,1E,0,0,0,0**	**Selects mirror (spatial) edit table**	**2R3**	**4**	**0**	**3,895,634**	**84:0**
305	97	92	17:56:33.133	125LD11A	NIMSINIT	GE	##### GROUP END INIT	2R3	4	0	3,895,634	84:0
306	97	92	17:56:33.133	125LD	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	3,895,634	84:0
307	**97**	**92**	**17:57:58.466**	**432JO6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**	**NIMS R/T SELECT**	**2R3**	**4**	**0**	**3,895,636**	**30:0**
308	**97**	**92**	**18:02:37.133**	**125LE4A**	**37MB**	**17,1D,0,0,0,0**	**Selects mirror (spatial) edit table**	**2R3**	**4**	**0**	**3,895,640**	**84:0**
309	97	92	18:02:37.133	125LE	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	3,895,640	84:0
310	97	92	18:02:37.133	125LE11A	NIMSINIT	GE	##### GROUP END INIT	2R3	4	0	3,895,640	84:0
311	**97**	**92**	**18:04:01.133**	**432JP6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**2R3**	**4**	**0**	**3,895,642**	**28:0**
312	97	92	18:05:39.133	125LF	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	3,895,643	84:0
313	97	92	18:05:39.133	125LF11A	NIMSINIT	GE	##### GROUP END INIT	2R3	4	0	3,895,643	84:0
314	**97**	**92**	**18:05:39.133**	**125LF4A**	**37MB**	**1B,1B,0,0,0,0**	**Selects mirror (spatial) edit table**	**2R3**	**4**	**0**	**3,895,643**	**84:0**
315	**97**	**92**	**18:08:41.133**	**125LG4A**	**37MB**	**1D,17,0,0,0,0**	**Selects mirror (spatial) edit table**	**2R3**	**4**	**0**	**3,895,646**	**84:0**
316	97	92	18:08:41.133	125LG	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	3,895,646	84:0
317	97	92	18:08:41.133	125LG11A	NIMSINIT	GE	##### GROUP END INIT	2R3	4	0	3,895,646	84:0
318	97	92	18:19:51.800	165AF4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,895,657	89:0
319	97	92	18:19:52.466	165AF4B	7SCAN	NORM,224.641998,	Check S/P Position	2R3	4	0	3,895,657	90:0
320	**97**	**92**	**18:24:51.800**	**125LH4A**	**37MB**	**1E,0F,0,0,0,0**	**Selects mirror (spatial) edit table**	**2R3**	**4**	**0**	**3,895,662**	**84:0**
321	97	92	18:24:51.800	125LH	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	3,895,662	84:0
322	97	92	18:24:51.800	125LH11A	NIMSINIT	GE	##### GROUP END INIT	2R3	4	0	3,895,662	84:0
323	**97**	**92**	**18:26:17.133**	**432JQ6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**	**NIMS R/T SELECT**	**2R3**	**4**	**0**	**3,895,664**	**30:0**
324	97	92	18:30:55.800	125LM	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	3,895,668	84:0
325	**97**	**92**	**18:30:55.800**	**125LM4A**	**37MB**	**1D,17,0,0,0,0**	**Selects mirror (spatial) edit table**	**2R3**	**4**	**0**	**3,895,668**	**84:0**
326	97	92	18:30:55.800	125LM11A	NIMSINIT	GE	##### GROUP END INIT	2R3	4	0	3,895,668	84:0
327	**97**	**92**	**18:32:19.800**	**432JR6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**2R3**	**4**	**0**	**3,895,670**	**28:0**
328	97	92	18:33:57.800	125LO	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	3,895,671	84:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
329	**97**	**92**	**18:33:57.800**	**125LO4A**	**37MB**	**1B,1B,0,0,0,0**	**Selects mirror (spatial) edit table**	**2R3**	**4**	**0**	**3,895,671:84:0**	
330	97	92	18:33:57.800	125LO11A	NIMSINIT	GE	##### GROUP END INIT	2R3	4	0	3,895,671:84:0	
331	97	92	18:36:59.800	125LP	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	3,895,674:84:0	
332	**97**	**92**	**18:36:59.800**	**125LP4A**	**37MB**	**17,1D,0,0,0,0**	**Selects mirror (spatial) edit table**	**2R3**	**4**	**0**	**3,895,674:84:0**	
333	97	92	18:36:59.800	125LP11A	NIMSINIT	GE	##### GROUP END INIT	2R3	4	0	3,895,674:84:0	
334	97	92	18:40:01.800	125FJ	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	3,895,677:84:0	
335	**97**	**92**	**18:40:01.800**	**125FJ4A**	**37MB**	**0,0,0,0,0,0**	**Selects mirror (spatial) edit table**	**2R3**	**4**	**0**	**3,895,677:84:0**	
336	97	92	18:40:01.800	125FJ11A	NIMSINIT	GE	##### GROUP END INIT	2R3	4	0	3,895,677:84:0	
337	**97**	**92**	**18:40:10.400**	**G7JNAURMAP01+**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**	
338	**97**	**92**	**18:43:12.466**	**G7CNGLOBAL01-**		**-----START------**		**2R3**	**4**	**0**	**: :**	
339	97	92	18:44:07.800	165DD4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,895,681:89:0	
340	97	92	18:44:08.466	165DD4B	7SCAN	NORM,328.592999,	Check S/P Position	2R3	4	0	3,895,681:90:0	
341	**97**	**92**	**18:46:05.800**	**125DD4A**	**37IST**	**0,2,0,OFF,0,1,1**	**Gain State 4**	**4R3**	**4**	**0**	**3,895,683:84:0**	
342	97	92	18:46:05.800	125DD	NIMSINIT	GS	##### GROUP START INIT	4R3	4	0	3,895,683:84:0	
343	97	92	18:46:05.800	125DD11A	NIMSINIT	GE	##### GROUP END INIT	4R3	4	0	3,895,683:84:0	
344	97	92	18:47:06.466	127DD	NIMSTAB	GS	%%%%% GROUP START TAB	4R3	4	0	3,895,684:84:0	
345	**97**	**92**	**18:47:07.133**	**127DD4A**	**37ETB**	**04,C4,35,FF,FF**	**Loads wavelength edit table**	**4R3**	**4**	**0**	**3,895,684:85:0**	
346	97	92	18:47:11.800	175DD422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	4R3	4	0	3,895,685:01:0	
347	97	92	18:47:15.133	117DD	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	3,895,685:06:0	
348	97	92	18:47:15.133	127DD11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	3,895,685:06:0	
349	97	92	18:47:19.666		DMS:	: *RUNUP	R28, TRACK *4, *REV, TIC *4076.80 +/-	4R3	4	0	3,895,685:12:8	
350	97	92	18:47:23.666		DMS:	: *AT_SPD	R28, TRACK 4, REV, TIC 4075.30 +/-	4R3	4	0	3,895,685:18:8	
351	97	92	18:47:23.666		DMS:	**: *RECORD**	R28, TRACK 4, REV, TIC *4075.30 +/-	4R3	4	0	3,895,685:18:8	
352	97	92	18:47:23.800	175DD176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	4R3	4	0	3,895,685:19:0	
353	97	92	18:47:24.466	117DD105A106A4A	**7STRP**	**0.0057,0.0005,0,**	**Slew =,0.02**	4R3	4	0	3,895,685:20:0	
354	**97**	**92**	**18:48:09.133**	**G7CNGLOBAL01-**	**NIMPBK**	**301DC**	**CALLISTO GLOBAL COVERAGE**	**4R3**	**4**	**0**	**: :**	
355	**97**	**92**	**18:51:13.133**	**G7CNGLOBAL01-**	**DESELC**	**300DC**	**CALLISTO GLOBAL COVERAGE**	**4R3**	**4**	**0**	**: :**	
356	97	92	18:52:11.133	117DD11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	3,895,689:86:0	
357	97	92	18:52:13.133	165AG4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,895,689:89:0	
358	97	92	18:52:13.800	165AG4B	7SCAN	NORM,226.268,-19	Check S/P Position	4R3	4	0	3,895,689:90:0	
359	97	92	18:52:15.133	175DD422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,895,690:01:0	
360	97	92	18:52:15.133		DMS:	**: *RUNDOWN**	R28, TRACK 4, REV, TIC *3819.13 +/-	4R3	4	0	3,895,690:01:0	
361	**97**	**92**	**18:52:18.466**	**G7CNGLOBAL01-**		**-----STOP-------**		**4R3**	**4**	**0**	**: :**	
362	97	92	18:56:07.800	117AH	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	3,895,693:77:0	
363	97	92	18:56:17.133	117AH105A106A4A	7STRP	0.0,0.0,0,0,0,0,	Slew =,1.01	4R3	4	0	3,895,694:00:0	
364	97	92	19:19:31.133	431YL6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	4R3	4	0	3,895,716:89:0	
365	97	92	19:22:41.133	20YC6A	6HICON			4R3	4	0	3,895,720:10:0	
366	97	92	19:23:35.133	431YM6A	6RCSEL	DDSNCG,PLSNCG,EP	Record Select (DDS onl	4R3	4	0	3,895,721:00:0	
367	97	92	19:25:36.466	117AH105A106A4B	7STRP	0.009,0.0,0,0,0,	Slew =12.01	4R3	4	0	3,895,723:00:0	
368	97	92	19:26:37.133	117AH105A106A4C	7STRP	0.0,0.0,0,0,0,0,	Slew =,1.01	4R3	4	0	3,895,724:00:0	
369	97	92	19:29:59.800	488AN6D	6TMSED	NORM,FL7	Sci, Eng, and D/L Chan	4R3	4	0	3,895,727:31:0	
370	97	92	19:33:59.800	432OB6A	6RTSL1		R/T Select of DDS and	4R3	4	0	3,895,731:27:0	
371	97	92	19:55:56.466	117AH105A106A4D	7STRP	0.009,0.0,0,0,0,	Slew =12.01	4R3	4	0	3,895,753:00:0	
372	97	92	19:56:27.800	488AN6E	6TMSED	NORM,FL6	Sci, Eng, and D/L Chan	4R3	4	0	3,895,753:47:0	
373	97	92	19:56:57.133	117AH105A106A4E	7STRP	0.0,0.0,0,0,0,0,	Slew =,1.01	4R3	4	0	3,895,754:00:0	
374	97	92	20:26:16.466	117AH11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	3,895,783:00:0	
375	97	92	21:07:07.800	488AO6A	6TMSED	FILL,FL6	Sci, Eng, and D/L Chan	4R3	4	0	3,895,823:37:0	
376	97	92	21:28:57.133	488AO6B	6TMSED	NORM,FL6	Sci, Eng, and D/L Chan	4R3	4	0	3,895,844:90:0	
377	97	93	00:14:59.800	488AO6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4R3	4	0	3,896,009:19:0	
378	97	93	00:45:05.800	165CG4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,896,038:89:0	
379	97	93	00:45:06.466	165CG4B	7SCAN	NORM,245.737999,	Check S/P Position	4R3	4	0	3,896,038:90:0	
380	97	93	01:24:31.800	165IF4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,896,077:89:0	
381	97	93	01:24:32.466	165IF4B	7SCAN	NORM,246.643,-23	Check S/P Position	4R3	4	0	3,896,077:90:0	
382	97	93	01:28:39.800	118IF	**SMOS**	GS		4R3	4	0	3,896,082:06:0	
383	97	93	01:29:30.466	118IF110A111A4A	7STRP	0.0035,0.0,46,0,	Slew =,3.51	4R3	4	0	3,896,082:82:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
384	97	93	01:29:45.800	118IF110A111A4B	7STRP	-0.00315,0.0034,	Slew =,3.51	4R3	4	0	3,896,083	14:0
385	97	93	01:30:01.133	118IF110A111A4C	7STRP	0.0035,0.0,46,0,	Slew =,3.51	4R3	4	0	3,896,083	37:0
386	97	93	01:30:11.133	175IF422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	4R3	4	0	3,896,083	52:0
387	97	93	01:30:16.466	118IF11A	**SMOS**	GE		4R3	4	0	3,896,083	60:0
388	97	93	01:30:19.000		DMS:	: *RUNUP	R115, TRACK *4, *REV, TIC *3820.24 +/-	4R3	4	0	3,896,083	63:8
389	97	93	01:30:23.000		DMS:	**: *RECORD**	R115, TRACK 4, REV, TIC *3813.94 +/-	4R3	4	0	3,896,083	69:8
390	97	93	01:30:23.000		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC 3813.94 +/-	4R3	4	0	3,896,083	69:8
391	97	93	01:30:23.133	175IF176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	4R3	4	0	3,896,083	70:0
392	97	93	01:30:37.133		DMS:	**: *RUNDOWN**	R115, TRACK 4, REV, TIC *3764.26 +/-	4R3	4	0	3,896,084	00:0
393	97	93	01:30:37.133	175IF422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,896,084	00:0
394	97	93	01:31:36.466	165JE4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,896,084	89:0
395	97	93	01:31:37.133	165JE4B	7SCAN	NORM,246.907,-23	Check S/P Position	4R3	4	0	3,896,084	90:0
396	97	93	01:33:43.133	118JE	**SMOS**	GS		4R3	4	0	3,896,087	06:0
397	97	93	01:34:33.800	118JE110A111A4A	7STRP	0.0035,0.0,46,0,	Slew =,3.51	4R3	4	0	3,896,087	82:0
398	97	93	01:34:49.133	118JE110A111A4B	7STRP	-0.00315,0.0034,	Slew =,3.51	4R3	4	0	3,896,088	14:0
399	97	93	01:35:04.466	118JE110A111A4C	7STRP	0.0035,0.0,46,0,	Slew =,3.51	4R3	4	0	3,896,088	37:0
400	97	93	01:35:14.466	175JE422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	4R3	4	0	3,896,088	52:0
401	97	93	01:35:19.800	118JE11A	**SMOS**	GE		4R3	4	0	3,896,088	60:0
402	97	93	01:35:22.333		DMS:	: *RUNUP	R115, TRACK *4, *REV, TIC *3764.67 +/-	4R3	4	0	3,896,088	63:8
403	97	93	01:35:26.333		DMS:	**: *RECORD**	R115, TRACK 4, REV, TIC *3758.37 +/-	4R3	4	0	3,896,088	69:8
404	97	93	01:35:26.333		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC 3758.37 +/-	4R3	4	0	3,896,088	69:8
405	97	93	01:35:26.466	175JE176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	4R3	4	0	3,896,088	70:0
406	97	93	01:35:40.466	175JE422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,896,089	00:0
407	97	93	01:35:40.466		DMS:	**: *RUNDOWN**	R115, TRACK 4, REV, TIC *3708.68 +/-	4R3	4	0	3,896,089	00:0
408	97	93	01:56:59.800	488AO6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4R3	4	0	3,896,110	08:0
409	97	93	02:06:59.800	165JA4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,896,119	89:0
410	97	93	02:07:00.466	165JA4B	7SCAN	NORM,232.629999,	Check S/P Position	4R3	4	0	3,896,119	90:0
411	97	93	02:08:51.133	175JA422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	4R3	4	0	3,896,121	74:0
412	97	93	02:08:54.466	118JA	**SMOS**	GS		4R3	4	0	3,896,121	79:0
413	97	93	02:08:59.000		DMS:	: *RUNUP	R115, TRACK *4, *REV, TIC *3709.10 +/-	4R3	4	0	3,896,121	85:8
414	97	93	02:09:03.000		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC 3702.80 +/-	4R3	4	0	3,896,122	00:8
415	97	93	02:09:03.000		DMS:	**: *RECORD**	R115, TRACK 4, REV, TIC *3702.80 +/-	4R3	4	0	3,896,122	00:8
416	97	93	02:09:03.133	175JA176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	4R3	4	0	3,896,122	01:0
417	97	93	02:09:04.466	118JA110A111A4A	7STRP	0.0,-0.007,46,0,	Slew =,3.51	4R3	4	0	3,896,122	03:0
418	97	93	02:09:50.466	118JA110A111B4A	7STRP	0.007,0.021003,0	Slew =0,5.0	4R3	4	0	3,896,122	72:0
419	97	93	02:10:05.800	118JA110A111B4B	7STRP	0.0,-0.007,46,0,	Slew =,3.51	4R3	4	0	3,896,123	04:0
420	97	93	02:10:51.800	118JA110A111A4B	7STRP	-0.007,0.021003,	Slew =0,5.0	4R3	4	0	3,896,123	73:0
421	97	93	02:11:07.133	118JA110A111A4C	7STRP	0.0,-0.007,46,0,	Slew =,3.51	4R3	4	0	3,896,124	05:0
422	97	93	02:11:53.133	118JA110A111B4C	7STRP	0.007,0.021003,0	Slew =0,5.0	4R3	4	0	3,896,124	74:0
423	97	93	02:12:08.466	118JA110A111B4D	7STRP	0.0,-0.007,46,0,	Slew =,3.51	4R3	4	0	3,896,125	06:0
424	97	93	02:12:54.466	118JA110A111A4D	7STRP	-0.007,0.021003,	Slew =0,5.0	4R3	4	0	3,896,125	75:0
425	97	93	02:13:09.800	118JA110A111A4E	7STRP	0.0,-0.007,46,0,	Slew =,3.51	4R3	4	0	3,896,126	07:0
426	97	93	02:13:55.800	118JA110A111B4E	7STRP	0.007,0.021003,0	Slew =0,5.0	4R3	4	0	3,896,126	76:0
427	97	93	02:14:11.133	118JA110A111B4F	7STRP	0.0,-0.007,46,0,	Slew =,3.51	4R3	4	0	3,896,127	08:0
428	97	93	02:14:57.133	118JA110A111A4F	7STRP	-0.007,0.021003,	Slew =0,5.0	4R3	4	0	3,896,127	77:0
429	97	93	02:15:12.466	118JA110A111A4G	7STRP	0.0,-0.007,46,0,	Slew =,3.51	4R3	4	0	3,896,128	09:0
430	97	93	02:15:58.466	118JA110A111B4G	7STRP	0.007,0.021003,0	Slew =0,5.0	4R3	4	0	3,896,128	78:0
431	97	93	02:16:13.800	118JA110A111B4H	7STRP	0.0,-0.007,46,0,	Slew =,3.51	4R3	4	0	3,896,129	10:0
432	97	93	02:16:59.800	118JA11A	**SMOS**	GE		4R3	4	0	3,896,129	79:0
433	97	93	02:17:06.466	165AJ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,896,129	89:0
434	97	93	02:17:07.133	165AJ4B	7SCAN	NORM,232.511999,	Check S/P Position	4R3	4	0	3,896,129	90:0
435	97	93	02:17:07.800		DMS:	**: *RUNDOWN**	R115, TRACK 4, REV, TIC *1998.42 +/-	4R3	4	0	3,896,130	00:0
436	97	93	02:17:07.800	175JA422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,896,130	00:0
437	97	93	02:17:59.133	117AA	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	3,896,130	77:0
438	97	93	02:18:08.466	117AA105A106A4A	7STRP	0.0,0.0,0,0,0,0,	Slew =,0.02	4R3	4	0	3,896,131	00:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
439	97	93	02:19:39.133	117AA105A106A4B	7STRP	-0.00005,-0.007,	Slew =12.01	4R3	4	0	3,896,132	45:0
440	97	93	02:20:09.800	117AA105A106A4C	7STRP	0.0,0.0,0,0,0,0,	Slew =,0.02	4R3	4	0	3,896,133	00:0
441	97	93	02:21:40.466	117AA105A106A4D	7STRP	-0.00005,-0.007,	Slew =12.01	4R3	4	0	3,896,134	45:0
442	97	93	02:22:11.133	117AA105A106A4E	7STRP	0.0,0.0,0,0,0,0,	Slew =,0.02	4R3	4	0	3,896,135	00:0
443	97	93	02:23:41.800	117AA105A106A4F	7STRP	-0.00005,-0.007,	Slew =12.01	4R3	4	0	3,896,136	45:0
444	97	93	02:24:12.466	117AA105A106A4G	7STRP	0.0,0.0,0,0,0,0,	Slew =,0.02	4R3	4	0	3,896,137	00:0
445	97	93	02:25:43.133	117AA105A106B4A	7STRP	0.008,0.021253,0	Slew =12.01	4R3	4	0	3,896,138	45:0
446	97	93	02:26:13.800	117AA105A106B4B	7STRP	0.0,0.0,0,0,0,0,	Slew =,0.02	4R3	4	0	3,896,139	00:0
447	97	93	02:27:44.466	117AA105A106C4A	7STRP	-0.0005,-0.007,0	Slew =12.01	4R3	4	0	3,896,140	45:0
448	97	93	02:28:15.133	117AA105A106C4B	7STRP	0.0,0.0,0,0,0,0,	Slew =,0.02	4R3	4	0	3,896,141	00:0
449	97	93	02:29:45.800	117AA105A106C4C	7STRP	-0.0005,-0.007,0	Slew =12.01	4R3	4	0	3,896,142	45:0
450	97	93	02:30:16.466	117AA105A106C4D	7STRP	0.0,0.0,0,0,0,0,	Slew =,0.02	4R3	4	0	3,896,143	00:0
451	97	93	02:31:47.133	117AA105A106C4E	7STRP	-0.0005,-0.007,0	Slew =12.01	4R3	4	0	3,896,144	45:0
452	97	93	02:32:17.800	117AA105A106C4F	7STRP	0.0,0.0,0,0,0,0,	Slew =,0.02	4R3	4	0	3,896,145	00:0
453	97	93	02:33:48.466	117AA11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	3,896,146	45:0
454	97	93	02:33:54.466	165AK4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,896,146	54:0
455	97	93	02:33:55.133	165AK4B	7SCAN	NORM,232.514999,	Check S/P Position	4R3	4	0	3,896,146	55:0
456	97	93	02:37:31.800	488AO6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4R3	4	0	3,896,150	16:0
457	97	93	03:05:38.466	165JB4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,896,177	89:0
458	97	93	03:05:39.133	165JB4B	7SCAN	NORM,232.721998,	Check S/P Position	4R3	4	0	3,896,177	90:0
459	97	93	03:07:29.800	175JB422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	4R3	4	0	3,896,179	74:0
460	97	93	03:07:33.133	118JB	**SMOS**	GS		4R3	4	0	3,896,179	79:0
461	97	93	03:07:37.666		DMS:	: *RUNUP	R115, TRACK *4, *REV, TIC *1998.84 +/-	4R3	4	0	3,896,179	85:8
462	97	93	03:07:41.666		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC 1992.54 +/-	4R3	4	0	3,896,180	00:8
463	97	93	03:07:41.666		DMS:	**: *RECORD**	R115, TRACK 4, REV, TIC *1992.54 +/-	4R3	4	0	3,896,180	00:8
464	97	93	03:07:41.800	175JB176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	4R3	4	0	3,896,180	01:0
465	97	93	03:07:43.133	118JB110A111A4A	7STRP	-0.003,-0.007,46	Slew =,3.51	4R3	4	0	3,896,180	03:0
466	97	93	03:08:29.133	118JB110A111B4A	7STRP	0.016001,0.02100	Slew =0,5.0	4R3	4	0	3,896,180	72:0
467	97	93	03:08:44.466	118JB110A111B4B	7STRP	-0.003,-0.007,46	Slew =,3.51	4R3	4	0	3,896,181	04:0
468	97	93	03:09:30.466	118JB110A111A4B	7STRP	0.002,0.021003,0	Slew =0,5.0	4R3	4	0	3,896,181	73:0
469	97	93	03:09:45.800	118JB110A111A4C	7STRP	-0.003,-0.007,46	Slew =,3.51	4R3	4	0	3,896,182	05:0
470	97	93	03:10:31.800	118JB110A111B4C	7STRP	0.016001,0.02100	Slew =0,5.0	4R3	4	0	3,896,182	74:0
471	97	93	03:10:47.133	118JB110A111B4D	7STRP	-0.003,-0.007,46	Slew =,3.51	4R3	4	0	3,896,183	06:0
472	97	93	03:11:33.133	118JB110A111A4D	7STRP	0.002,0.021003,0	Slew =0,5.0	4R3	4	0	3,896,183	75:0
473	97	93	03:11:48.466	118JB110A111A4E	7STRP	-0.003,-0.007,46	Slew =,3.51	4R3	4	0	3,896,184	07:0
474	97	93	03:12:34.466	118JB110A111B4E	7STRP	0.016001,0.02100	Slew =0,5.0	4R3	4	0	3,896,184	76:0
475	97	93	03:12:49.800	118JB110A111B4F	7STRP	-0.003,-0.007,46	Slew =,3.51	4R3	4	0	3,896,185	08:0
476	97	93	03:13:35.800	118JB110A111A4F	7STRP	0.002,0.021003,0	Slew =0,5.0	4R3	4	0	3,896,185	77:0
477	97	93	03:13:51.133	118JB110A111A4G	7STRP	-0.003,-0.007,46	Slew =,3.51	4R3	4	0	3,896,186	09:0
478	97	93	03:14:37.133	118JB110A111B4G	7STRP	0.016001,0.02100	Slew =0,5.0	4R3	4	0	3,896,186	78:0
479	97	93	03:14:52.466	118JB110A111B4H	7STRP	-0.003,-0.007,46	Slew =,3.51	4R3	4	0	3,896,187	10:0
480	97	93	03:15:38.466	118JB11A	**SMOS**	GE		4R3	4	0	3,896,187	79:0
481	97	93	03:15:45.133	165AL4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,896,187	89:0
482	97	93	03:15:45.800	165AL4B	7SCAN	NORM,232.654999,	Check S/P Position	4R3	4	0	3,896,187	90:0
483	97	93	03:15:46.466		DMS:	**: *RUNDOWN**	R115, TRACK 4, REV, TIC * 288.16 +/-	4R3	4	0	3,896,188	00:0
484	97	93	03:15:46.466	175JB422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,896,188	00:0
485	97	93	03:16:37.800	117AC	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	3,896,188	77:0
486	97	93	03:16:47.133	117AC105A106A4A	7STRP	0.0,0.0,0,0,0,0,	Slew =,0.02	4R3	4	0	3,896,189	00:0
487	97	93	03:18:17.800	117AC105A106A4B	7STRP	-0.00325,-0.007,	Slew =12.01	4R3	4	0	3,896,190	45:0
488	97	93	03:18:48.466	117AC105A106A4C	7STRP	0.0,0.0,0,0,0,0,	Slew =,0.02	4R3	4	0	3,896,191	00:0
489	97	93	03:20:19.133	117AC105A106A4D	7STRP	-0.00325,-0.007,	Slew =12.01	4R3	4	0	3,896,192	45:0
490	97	93	03:20:49.800	117AC105A106A4E	7STRP	0.0,0.0,0,0,0,0,	Slew =,0.02	4R3	4	0	3,896,193	00:0
491	97	93	03:22:20.466	117AC105A106A4F	7STRP	-0.00325,-0.007,	Slew =12.01	4R3	4	0	3,896,194	45:0
492	97	93	03:22:51.133	117AC105A106A4G	7STRP	0.0,0.0,0,0,0,0,	Slew =,0.02	4R3	4	0	3,896,195	00:0
493	97	93	03:24:21.800	117AC105A106B4A	7STRP	0.016251,0.02125	Slew =12.01	4R3	4	0	3,896,196	45:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
494	97	93	03:24:52.466	117AC105A106B4B	7STRP	0.0,0.0,0,0,0,0,	Slew =,0.02	4R3	4	0	3,896,197:00:0	
495	97	93	03:26:23.133	117AC105A106C4A	7STRP	-0.00325,-0.007,	Slew =12.01	4R3	4	0	3,896,198:45:0	
496	97	93	03:26:53.800	117AC105A106C4B	7STRP	0.0,0.0,0,0,0,0,	Slew =,0.02	4R3	4	0	3,896,199:00:0	
497	97	93	03:28:24.466	117AC105A106C4C	7STRP	-0.00325,-0.007,	Slew =12.01	4R3	4	0	3,896,200:45:0	
498	97	93	03:28:48.466	465KE6A	6DTRN	CMD,6DTRN,465KE6	DMS TRACK TURNAROUND	4R3	4	0	3,896,200:81:0	
499	97	93	03:28:55.133	117AC105A106C4D	7STRP	0.0,0.0,0,0,0,0,	Slew =,0.02	4R3	4	0	3,896,201:00:0	
500	97	93	03:30:25.800	117AC105A106C4E	7STRP	-0.00325,-0.007,	Slew =12.01	4R3	4	0	3,896,202:45:0	
501	97	93	03:30:56.466	117AC105A106C4F	7STRP	0.0,0.0,0,0,0,0,	Slew =,0.02	4R3	4	0	3,896,203:00:0	
502	97	93	03:32:27.133	117AC11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	3,896,204:45:0	
503	97	93	03:32:29.800	165AM4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,896,204:49:0	
504	97	93	03:32:30.466	165AM4B	7SCAN	NORM,233.141998,	Check S/P Position	4R3	4	0	3,896,204:50:0	
505	97	93	03:37:15.800	488AP6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4R3	4	0	3,896,209:23:0	
506	97	93	03:47:07.133		DMS:	: *SLEW-TIC	P7, TRACK 1, FWD, TIC 201.62 +/-	4R3	4	0	3,896,219:00:0	
507	97	93	03:47:07.133	465KD6A	6DMST	213	DMS Slew to TIC	4R3	4	0	3,896,219:00:0	
508	97	93	03:59:13.800	165JC4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,896,230:89:0	
509	97	93	03:59:14.466	165JC4B	7SCAN	NORM,232.289999,	Check S/P Position	4R3	4	0	3,896,230:90:0	
510	97	93	04:00:05.800	175JC422A6A	6DMSC	R115,1	DMS Control	4R3	4	0	3,896,231:76:0	
511	97	93	04:00:07.800	118JC	**SMOS**	GS		4R3	4	0	3,896,231:79:0	
512	97	93	04:00:12.466		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 213.00 +/-	4R3	4	0	3,896,231:86:0	
513	97	93	04:00:16.466	175JC176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	4R3	4	0	3,896,232:01:0	
514	97	93	04:00:16.466		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC * 219.30 +/-	4R3	4	0	3,896,232:01:0	
515	97	93	04:00:16.466		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 219.30 +/-	4R3	4	0	3,896,232:01:0	
516	97	93	04:00:17.800	118JC110A111A4A	7STRP	-0.001,-0.007,46	Slew =,3.51	4R3	4	0	3,896,232:03:0	
517	97	93	04:00:33.133	118JC110A111B4A	7STRP	0.006,0.017002,0	Slew =0,5.0	4R3	4	0	3,896,232:26:0	
518	97	93	04:00:48.466	118JC110A111B4B	7STRP	-0.001,-0.007,46	Slew =,3.51	4R3	4	0	3,896,232:49:0	
519	97	93	04:01:03.800	118JC110A111B4C	7STRP	0.006,0.017002,0	Slew =0,5.0	4R3	4	0	3,896,232:72:0	
520	97	93	04:01:19.133	118JC110A111B4D	7STRP	-0.001,-0.007,46	Slew =,3.51	4R3	4	0	3,896,233:04:0	
521	97	93	04:01:34.466	118JC110A111A4B	7STRP	-0.009,-0.013001	Slew =0,5.0	4R3	4	0	3,896,233:27:0	
522	97	93	04:01:49.800	118JC110A111A4C	7STRP	-0.001,-0.007,46	Slew =,3.51	4R3	4	0	3,896,233:50:0	
523	97	93	04:02:05.133	118JC110A111B4E	7STRP	0.006,0.017002,0	Slew =0,5.0	4R3	4	0	3,896,233:73:0	
524	97	93	04:02:20.466	118JC110A111B4F	7STRP	-0.001,-0.007,46	Slew =,3.51	4R3	4	0	3,896,234:05:0	
525	97	93	04:02:35.800	118JC110A111B4G	7STRP	0.006,0.017002,0	Slew =0,5.0	4R3	4	0	3,896,234:28:0	
526	97	93	04:02:51.133	118JC110A111B4H	7STRP	-0.001,-0.007,46	Slew =,3.51	4R3	4	0	3,896,234:51:0	
527	97	93	04:03:06.466	118JC110A111A4D	7STRP	-0.009,-0.013001	Slew =0,5.0	4R3	4	0	3,896,234:74:0	
528	97	93	04:03:21.800	118JC110A111A4E	7STRP	-0.001,-0.007,46	Slew =,3.51	4R3	4	0	3,896,235:06:0	
529	97	93	04:03:37.133	118JC110A111B4I	7STRP	0.006,0.017002,0	Slew =0,5.0	4R3	4	0	3,896,235:29:0	
530	97	93	04:03:52.466	118JC110A111B4J	7STRP	-0.001,-0.007,46	Slew =,3.51	4R3	4	0	3,896,235:52:0	
531	97	93	04:04:07.800	118JC110A111B4K	7STRP	0.006,0.017002,0	Slew =0,5.0	4R3	4	0	3,896,235:75:0	
532	97	93	04:04:23.133	118JC110A111B4L	7STRP	-0.001,-0.007,46	Slew =,3.51	4R3	4	0	3,896,236:07:0	
533	97	93	04:04:38.466	118JC110A111A4F	7STRP	-0.009,-0.013001	Slew =0,5.0	4R3	4	0	3,896,236:30:0	
534	97	93	04:04:53.800	118JC110A111A4G	7STRP	-0.001,-0.007,46	Slew =,3.51	4R3	4	0	3,896,236:53:0	
535	97	93	04:05:09.133	118JC110A111B4M	7STRP	0.006,0.017002,0	Slew =0,5.0	4R3	4	0	3,896,236:76:0	
536	97	93	04:05:24.466	118JC110A111B4N	7STRP	-0.001,-0.007,46	Slew =,3.51	4R3	4	0	3,896,237:08:0	
537	97	93	04:05:39.800	118JC110A111B4O	7STRP	0.006,0.017002,0	Slew =0,5.0	4R3	4	0	3,896,237:31:0	
538	97	93	04:05:55.133	118JC110A111B4P	7STRP	-0.001,-0.007,46	Slew =,3.51	4R3	4	0	3,896,237:54:0	
539	97	93	04:06:10.466	118JC11A	**SMOS**	GE		4R3	4	0	3,896,237:77:0	
540	97	93	04:06:19.800		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *1496.64 +/-	4R3	4	0	3,896,238:00:0	
541	97	93	04:06:19.800	175JC422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,896,238:00:0	
542	97	93	04:12:22.466	165AN4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,896,243:89:0	
543	97	93	04:12:23.133	165AN4B	7SCAN	NORM,232.358,-20	Check S/P Position	4R3	4	0	3,896,243:90:0	
544	97	93	04:13:15.133	117AE	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	3,896,244:77:0	
545	97	93	04:13:24.466	117AE105A106A4A	7STRP	0.0,0.0,0,0,0,0,	Slew =,0.02	4R3	4	0	3,896,245:00:0	
546	97	93	04:14:55.133	117AE105A106A4B	7STRP	0.004,0.007,0,0,	Slew =12.01	4R3	4	0	3,896,246:45:0	
547	97	93	04:15:25.800	117AE105A106A4C	7STRP	0.0,0.0,0,0,0,0,	Slew =,0.02	4R3	4	0	3,896,247:00:0	
548	97	93	04:16:56.466	117AE105A106A4D	7STRP	0.004,0.007,0,0,	Slew =12.01	4R3	4	0	3,896,248:45:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
549	97	93	04:17:27.133	117AE105A106A4E	7STRP	0.0,0.0,0,0,0,0,	Slew =,0.02	4R3	4	0	3,896,249:00:0	
550	97	93	04:18:57.800	117AE105A106B4A	7STRP	0.007,0.007,0,0,	Slew =12.01	4R3	4	0	3,896,250:45:0	
551	97	93	04:19:28.466	117AE105A106B4B	7STRP	0.0,0.0,0,0,0,0,	Slew =,0.02	4R3	4	0	3,896,251:00:0	
552	97	93	04:20:59.133	117AE105A106B4C	7STRP	0.007,0.007,0,0,	Slew =12.01	4R3	4	0	3,896,252:45:0	
553	97	93	04:21:29.800	117AE105A106B4D	7STRP	0.0,0.0,0,0,0,0,	Slew =,0.02	4R3	4	0	3,896,253:00:0	
554	97	93	04:23:00.466	117AE105A106C4A	7STRP	0.01,0.005,0,0,0	Slew =12.01	4R3	4	0	3,896,254:45:0	
555	97	93	04:23:31.133	117AE105A106C4B	7STRP	0.0,0.0,0,0,0,0,	Slew =,0.02	4R3	4	0	3,896,255:00:0	
556	97	93	04:25:01.800	117AE11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	3,896,256:45:0	
557	97	93	04:25:04.466	165AO4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,896,256:49:0	
558	97	93	04:25:05.133	165AO4B	7SCAN	NORM,234.259998,	Check S/P Position	4R3	4	0	3,896,256:50:0	
559	97	93	04:27:33.800	411AA6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	3,896,259:00:0	
560	97	93	04:27:40.466		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 1497.64 +/-	4R3	4	0	3,896,259:10:0	
561	97	93	04:27:41.866		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 1497.76 +/-	4R3	4	0	3,896,259:12:1	
562	97	93	04:27:41.866		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *1497.76 +/-	4R3	4	0	3,896,259:12:1	
563	97	93	04:27:43.800	411AA6B	6TMREC	BDT	7.68 KBPS BUFFER DUMP TO TAPE Record Mode	4R3	4	0	3,896,259:15:0	
564	97	93	04:29:45.133	411AA6C	6TMREC	**NRC**	NO RECORD Record Mode Change	4R3	4	0	3,896,261:15:0	
565	97	93	04:29:45.800	411AA6D	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,896,261:16:0	
566	97	93	04:29:45.800		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *1526.81 +/-	4R3	4	0	3,896,261:16:0	
567	**97**	**93**	**04:32:41.067**	**G7HNDARK__01-**		**-----START------**		**4R3**	**4**	**0**	**: :**	
568	97	93	04:33:35.133	176DA6A	6TMREC	**NRC**	NO RECORD Record Mode Change	4R3	4	0	3,896,264:87:0	
569	97	93	04:36:38.466	165DI4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,896,267:89:0	
570	97	93	04:36:39.133	165DI4B	7SCAN	NORM,281.73,-66.	Check S/P Position	4R3	4	0	3,896,267:90:0	
571	97	93	04:39:07.800	488AP6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4R3	4	0	3,896,270:40:0	
572	97	93	04:39:37.133	127DI	NIMSTAB	GS	%%%%% GROUP START TAB	4R3	4	0	3,896,270:84:0	
573	**97**	**93**	**04:39:37.800**	**127DI4A**	**37ETB**	**07,C7,05,FF,FF,3**	**Loads wavelength edit table**	**4R3**	**4**	**0**	**3,896,270:85:0**	
574	97	93	04:39:45.800	127DI11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	3,896,271:06:0	
575	97	93	04:40:31.133	175DI422A6A	6DMSC	R7,1	DMS Control Tape runup 7.68kbp	4R3	4	0	3,896,271:74:0	
576	97	93	04:40:37.800		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 1526.87 +/-	4R3	4	0	3,896,271:84:0	
577	97	93	04:40:39.133	175DI176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	4R3	4	0	3,896,271:86:0	
578	97	93	04:40:39.200		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 1526.99 +/-	4R3	4	0	3,896,271:86:1	
579	97	93	04:40:39.200		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *1526.99 +/-	4R3	4	0	3,896,271:86:1	
580	**97**	**93**	**04:40:42.445**	**G7HNDARK__01-**	**NIMPBK**	**301DD**	**DARK OBSERVATION**	**4R3**	**4**	**0**	**: :**	
581	**97**	**93**	**04:41:42.445**	**G7HNDARK__01-**	**DESELC**	**300DD**	**DARK OBSERVATION**	**4R3**	**4**	**0**	**: :**	
582	97	93	04:41:44.466	175DI422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,896,273:02:0	
583	97	93	04:41:44.466	175DI6A	6TMREC	**NRC**	NO RECORD Record Mode Change	4R3	4	0	3,896,273:02:0	
584	97	93	04:41:44.466		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *1542.29 +/-	4R3	4	0	3,896,273:02:0	
585	**97**	**93**	**04:42:47.734**	**G7HNDARK__01-**		**-----STOP-------**		**4R3**	**4**	**0**	**: :**	
586	**97**	**93**	**05:07:03.733**	**G7INCHEMIS01-**		**-----START------**		**4R3**	**4**	**0**	**: :**	
587	97	93	05:07:59.066	165DE4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,896,298:89:0	
588	97	93	05:07:59.733	165DE4B	7SCAN	NORM,255.622999,	Check S/P Position	4R3	4	0	3,896,298:90:0	
589	97	93	05:09:57.066	125DE11A	NIMSINIT	GE	##### GROUP END INIT	4R3	4	0	3,896,300:84:0	
590	97	93	05:09:57.066	125DE	NIMSINIT	GS	##### GROUP START INIT	4R3	4	0	3,896,300:84:0	
591	**97**	**93**	**05:09:57.066**	**125DE4A**	**37IST**	**0,2,0,OFF,0,1,0**	**Gain State 2**	**2R3**	**4**	**0**	**3,896,300:84:0**	
592	97	93	05:10:57.733	127DE	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	3,896,301:84:0	
593	**97**	**93**	**05:10:58.400**	**127DE4A**	**37ETB**	**07,C7,02,05,80,0**	**Loads wavelength edit table**	**2R3**	**4**	**0**	**3,896,301:85:0**	
594	97	93	05:11:06.400	127DE11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	3,896,302:06:0	
595	97	93	05:11:51.733	175DE422A6A	6DMSC	R7,1	DMS Control Tape runup 7.68kbp	2R3	4	0	3,896,302:74:0	
596	97	93	05:11:53.733	117DE	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	3,896,302:77:0	
597	97	93	05:11:58.400		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 1542.35 +/-	2R3	4	0	3,896,302:84:0	
598	97	93	05:11:59.733	175DE176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R3	4	0	3,896,302:86:0	
599	97	93	05:11:59.800		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *1542.47 +/-	2R3	4	0	3,896,302:86:1	
600	97	93	05:11:59.800		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 1542.47 +/-	2R3	4	0	3,896,302:86:1	
601	97	93	05:12:03.066	117DE105A106A4A	**7STRP**	**0.0039,0.0,0,0,0**	**Slew =,0.03**	2R3	4	0	3,896,303:00:0	
602	**97**	**93**	**05:12:03.111**	**G7INCHEMIS01-**	**NIMPBK**	**301DE**	**MONITORING OF IO'S DAYSIDE**	**2R3**	**4**	**0**	**: :**	
603	**97**	**93**	**05:14:13.777**	**G7INCHEMIS01-**	**DESELC**	**300DE**	**MONITORING OF IO'S DAYSIDE**	**2R3**	**4**	**0**	**: :**	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
604	97	93	05:14:14.400	117DE11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	3,896,305	15:0
605	97	93	05:14:15.733	175DE6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	3,896,305	17:0
606	97	93	05:14:15.733	175DE422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,896,305	17:0
607	97	93	05:14:15.733		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *1574.33 +/-	2R3	4	0	3,896,305	17:0
608	**97**	**93**	**05:15:09.067**	**G7INCHEMIS01-**		**-----STOP-------**		**2R3**	**4**	**0**	**:**	**:**
609	97	93	05:20:50.400	488AP6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	2R3	4	0	3,896,311	63:0
610	97	93	05:52:54.400	488AP6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2R3	4	0	3,896,343	37:0
611	97	93	05:55:30.400	165AP4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,896,345	89:0
612	97	93	05:55:31.066	165AP4B	7SCAN	NORM,240.32,-22.	Check S/P Position	2R3	4	0	3,896,345	90:0
613	97	93	05:59:59.733	488AP6E	6TMSED	NORM,CL3	Sci, Eng, and D/L Chan	2R3	4	0	3,896,350	38:0
614	97	93	06:28:52.400	165AQ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,896,378	89:0
615	97	93	06:28:53.066	165AQ4B	7SCAN	NORM,241.193998,	Check S/P Position	2R3	4	0	3,896,378	90:0
616	97	93	07:00:13.066	165BH4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,896,409	89:0
617	97	93	07:00:13.733	165BH4B	7SCAN	NORM,221.306999,	Check S/P Position	2R3	4	0	3,896,409	90:0
618	97	93	09:07:37.066	165IB4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,896,535	89:0
619	97	93	09:07:37.733	165IB4B	7SCAN	NORM,262.815998,	Check S/P Position	2R3	4	0	3,896,535	90:0
620	97	93	09:11:33.066	118IB	**SMOS**	GS		2R3	4	0	3,896,539	79:0
621	97	93	09:11:43.066	118IB110A111A4A	7STRP	0.00385,0.0,26,0	Slew =,3.51	2R3	4	0	3,896,540	03:0
622	**97**	**93**	**09:11:45.067**	**G7INCHEMIS02-**		**-----START------**		**2R3**	**4**	**0**	**:**	**:**
623	97	93	09:11:51.733	118IB110A111A4B	7STRP	-0.00375,0.0039,	Slew =,3.51	2R3	4	0	3,896,540	16:0
624	97	93	09:11:57.066	175IB422A6A	6DMSC	R806,1	DMS Control	2R3	4	0	3,896,540	24:0
625	97	93	09:12:00.400	118IB110A111A4C	7STRP	0.00385,0.0,26,0	Slew =,3.51	2R3	4	0	3,896,540	29:0
626	97	93	09:12:03.733		DMS:	: *RUNUP	R806, TRACK 1, FWD, TIC 1574.39 +/-	2R3	4	0	3,896,540	34:0
627	97	93	09:12:08.400	175IB176A6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	2R3	4	0	3,896,540	41:0
628	97	93	09:12:09.000		DMS:	**: *RECORD**	R806, TRACK 1, FWD, TIC *1640.39 +/-	2R3	4	0	3,896,540	41:9
629	97	93	09:12:09.000		DMS:	: *AT_SPD	R806, TRACK 1, FWD, TIC 1640.39 +/-	2R3	4	0	3,896,540	41:9
630	97	93	09:12:09.066	118IB11A	**SMOS**	GE		2R3	4	0	3,896,540	42:0
631	97	93	09:12:15.733		DMS:	**: *RUNDOWN**	R806, TRACK 1, FWD, TIC *1806.09 +/-	2R3	4	0	3,896,540	52:0
632	97	93	09:12:15.733	175IB422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,896,540	52:0
633	97	93	09:12:37.066	125DG	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	3,896,540	84:0
634	97	93	09:12:37.066	125DG11A	NIMSINIT	GE	##### GROUP END INIT	2R3	4	0	3,896,540	84:0
635	**97**	**93**	**09:12:37.066**	**125DG4A**	**37IST**	**0,2,0,OFF,0,1,0**	**Gain State 2**	**2R3**	**4**	**0**	**3,896,540**	**84:0**
636	97	93	09:13:37.733	127DG	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	3,896,541	84:0
637	**97**	**93**	**09:13:38.400**	**127DG4A**	**37ETB**	**07,C7,02,05,80,0**	**Loads wavelength edit table**	**2R3**	**4**	**0**	**3,896,541**	**85:0**
638	97	93	09:13:41.066	165DG4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,896,541	89:0
639	97	93	09:13:41.733	165DG4B	7SCAN	NORM,262.866997,	Check S/P Position	2R3	4	0	3,896,541	90:0
640	97	93	09:13:46.400	127DG11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	3,896,542	06:0
641	97	93	09:14:31.733	175DG422A6A	6DMSC	R7,1	DMS Control Tape runup 7.68kbp	2R3	4	0	3,896,542	74:0
642	97	93	09:14:33.733	117DG	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	3,896,542	77:0
643	97	93	09:14:38.400		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 1817.59 +/-	2R3	4	0	3,896,542	84:0
644	97	93	09:14:39.733	175DG176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R3	4	0	3,896,542	86:0
645	97	93	09:14:39.800		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *1817.71 +/-	2R3	4	0	3,896,542	86:1
646	97	93	09:14:39.800		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 1817.71 +/-	2R3	4	0	3,896,542	86:1
647	97	93	09:14:43.066	117DG105A106A4A	**7STRP**	**0.0043,0.0,0,0,0**	**Slew =,0.03**	2R3	4	0	3,896,543	00:0
648	**97**	**93**	**09:14:43.102**	**G7INCHEMIS02-**	**NIMPBK**	**301DG**	**MONITORING OF IO'S DAYSIDE**	**2R3**	**4**	**0**	**:**	**:**
649	**97**	**93**	**09:17:07.102**	**G7INCHEMIS02-**	**DESELC**	**300DG**	**MONITORING OF IO'S DAYSIDE**	**2R3**	**4**	**0**	**:**	**:**
650	97	93	09:17:07.733	117DG11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	3,896,545	35:0
651	97	93	09:17:09.066		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *1852.69 +/-	2R3	4	0	3,896,545	37:0
652	97	93	09:17:09.066	175DG422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,896,545	37:0
653	97	93	09:17:09.066	175DG6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	3,896,545	37:0
654	**97**	**93**	**09:17:29.067**	**G7INCHEMIS02-**		**-----STOP-------**		**2R3**	**4**	**0**	**:**	**:**
655	**97**	**93**	**09:17:35.733**	**G7INTHRMAL02-**		**-----START------**		**2R3**	**4**	**0**	**:**	**:**
656	**97**	**93**	**09:17:40.400**	**125DH4A**	**37IST**	**0,2,0,OFF,0,1,1**	**Gain State 4**	**4R3**	**4**	**0**	**3,896,545**	**84:0**
657	97	93	09:17:40.400	127DH	NIMSTAB	GS	%%%%% GROUP START TAB	4R3	4	0	3,896,545	84:0
658	97	93	09:17:40.400	125DH11A	NIMSINIT	GE	##### GROUP END INIT	4R3	4	0	3,896,545	84:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
659	97	93	09:17:40.400	125DH	NIMSINIT	GS	##### GROUP START INIT	4R3	4	0	3,896,545:84:0	
660	**97**	**93**	**09:17:41.066**	**127DH4A**	**37ETB**	**07,C7,03,81,00,0**	**Loads wavelength edit table**	**4R3**	**4**	**0**	**3,896,545:85:0**	
661	97	93	09:17:43.733	165DH4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,896,545:89:0	
662	97	93	09:17:44.400	165DH4B	7SCAN	NORM,263.156998,	Check S/P Position	4R3	4	0	3,896,545:90:0	
663	97	93	09:17:49.066	127DH11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	3,896,546:06:0	
664	97	93	09:18:34.400	175DH422A6A	6DMSC	R7,1	DMS Control Tape runup 7.68kbp	4R3	4	0	3,896,546:74:0	
665	97	93	09:18:36.400	117DH	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	3,896,546:77:0	
666	97	93	09:18:41.066		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 1852.75 +/-	4R3	4	0	3,896,546:84:0	
667	97	93	09:18:42.400	175DH176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	4R3	4	0	3,896,546:86:0	
668	97	93	09:18:42.466		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *1852.87 +/-	4R3	4	0	3,896,546:86:1	
669	97	93	09:18:42.466		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 1852.87 +/-	4R3	4	0	3,896,546:86:1	
670	97	93	09:18:45.733	117DH105A106A4A	**7STRP**	**0.002,0.0,0,0,0,**	**Slew =,0.03**	4R3	4	0	3,896,547:00:0	
671	97	93	09:19:53.733	117DH11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	3,896,548:11:0	
672	97	93	09:19:55.066	175DH422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,896,548:13:0	
673	97	93	09:19:55.066	175DH6A	6TMREC	**NRC**	NO RECORD Record Mode Change	4R3	4	0	3,896,548:13:0	
674	97	93	09:19:55.066		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *1869.89 +/-	4R3	4	0	3,896,548:13:0	
675	97	93	09:20:45.733	165BI4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,896,548:89:0	
676	97	93	09:20:46.400	165BI4B	7SCAN	NORM,221.306999,	Check S/P Position	4R3	4	0	3,896,548:90:0	
677	**97**	**93**	**09:20:51.067**	**G7INTHRMAL02-**		**-----STOP-------**		**4R3**	**4**	**0**	**: :**	
678	97	93	10:42:39.733	165GE4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,896,629:89:0	
679	97	93	10:42:40.400	165GE4B	7SCAN	NORM,245.834,-26	Check S/P Position	4R3	4	0	3,896,629:90:0	
680	97	93	10:46:34.400	117GE	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	3,896,633:77:0	
681	97	93	10:46:43.733	117GE105A106A4A	7STRP	0.006,0.120689,0	Slew =,0.11	4R3	4	0	3,896,634:00:0	
682	97	93	10:46:43.733	176GE6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	4R3	4	0	3,896,634:00:0	
683	97	93	10:52:27.733	488AQ6A	6TMSED	NORM,CL2	Sci, Eng, and D/L Chan	4R3	4	0	3,896,639:61:0	
684	97	93	11:00:47.733		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 1869.95 +/-	4R3	4	0	3,896,647:83:0	
685	97	93	11:00:49.133		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC *1870.07 +/-	4R3	4	0	3,896,647:85:1	
686	97	93	11:01:05.733		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *1873.96 +/-	4R3	4	0	3,896,648:19:0	
687	97	93	11:01:25.733		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *1878.65 +/-	4R3	4	0	3,896,648:49:0	
688	97	93	11:06:57.066	176GE6B	6TMREC	**NRC**	NO RECORD Record Mode Change	4R3	4	0	3,896,654:00:0	
689	97	93	11:06:57.066	117GE11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	3,896,654:00:0	
690	97	93	11:07:05.733		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 1878.71 +/-	4R3	4	0	3,896,654:13:0	
691	97	93	11:07:07.133		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC *1878.83 +/-	4R3	4	0	3,896,654:15:1	
692	97	93	11:07:09.066		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *1879.28 +/-	4R3	4	0	3,896,654:18:0	
693	97	93	11:07:21.066		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *1882.09 +/-	4R3	4	0	3,896,654:36:0	
694	97	93	11:20:11.733	488AQ6B	6TMSED	NORM,CL3	Sci, Eng, and D/L Chan	4R3	4	0	3,896,667:09:0	
695	97	93	11:45:47.733	488AQ6C	6TMSED	NORM,CL4	Sci, Eng, and D/L Chan	4R3	4	0	3,896,692:38:0	
696	97	93	12:37:53.066	488AQ6D	6TMSED	FILL,CL4	Sci, Eng, and D/L Chan	4R3	4	0	3,896,743:85:0	
697	97	93	12:53:05.733	165JD4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,896,758:89:0	
698	97	93	12:53:06.400	165JD4B	7SCAN	NORM,249.258999,	Check S/P Position	4R3	4	0	3,896,758:90:0	
699	97	93	12:56:59.733	175JD422A6A	6DMSC	R115,1	DMS Control	4R3	4	0	3,896,762:76:0	
700	97	93	12:57:01.733	118JD	**SMOS**	GS		4R3	4	0	3,896,762:79:0	
701	97	93	12:57:06.400		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 1882.15 +/-	4R3	4	0	3,896,762:86:0	
702	97	93	12:57:10.400		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *1888.45 +/-	4R3	4	0	3,896,763:01:0	
703	97	93	12:57:10.400		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 1888.45 +/-	4R3	4	0	3,896,763:01:0	
704	97	93	12:57:10.400	175JD176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	4R3	4	0	3,896,763:01:0	
705	97	93	12:57:11.733	118JD110A111A4A	7STRP	-0.0015,-0.007,4	Slew =,3.51	4R3	4	0	3,896,763:03:0	
706	97	93	12:57:57.733	118JD110A111A4B	7STRP	0.011501,0.02100	Slew =0,5.0	4R3	4	0	3,896,763:72:0	
707	97	93	12:58:13.066	118JD110A111A4C	7STRP	-0.0015,-0.007,4	Slew =,3.51	4R3	4	0	3,896,764:04:0	
708	97	93	12:58:59.066	118JD11A	**SMOS**	GE		4R3	4	0	3,896,764:73:0	
709	97	93	12:59:11.066		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *2312.67 +/-	4R3	4	0	3,896,765:00:0	
710	97	93	12:59:11.066	175JD422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,896,765:00:0	
711	97	93	13:06:32.400	488AQ6E	6TMSED	NORM,CL4	Sci, Eng, and D/L Chan	4R3	4	0	3,896,772:25:0	
712	97	93	13:09:16.400	165AR4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,896,774:89:0	
713	97	93	13:09:17.066	165AR4B	7SCAN	NORM,250.141998,	Check S/P Position	4R3	4	0	3,896,774:90:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
714	97	93	13:13:11.066	117AG	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	3,896,778:77:0	
715	97	93	13:13:20.400	117AG105A106A4A	7STRP	0.0,0.0,0,0,0,0,	Slew =,1.01	4R3	4	0	3,896,779:00:0	
716	97	93	13:42:39.733	117AG105A106A4B	7STRP	0.018502,0.0,0,0	Slew =12.01	4R3	4	0	3,896,808:00:0	
717	97	93	13:43:40.400	117AG105A106A4C	7STRP	0.0,0.0,0,0,0,0,	Slew =,1.01	4R3	4	0	3,896,809:00:0	
718	97	93	14:12:59.733	117AG105A106A4D	7STRP	0.018502,0.0,0,0	Slew =12.01	4R3	4	0	3,896,838:00:0	
719	97	93	14:14:00.400	117AG105A106A4E	7STRP	0.0,0.0,0,0,0,0,	Slew =,1.01	4R3	4	0	3,896,839:00:0	
720	97	93	14:29:59.733	481AB4A	7VECT		Inert vect update UTC	4R3	4	0	3,896,854:74:0	
721	97	93	14:43:19.733	117AG105A106A4F	7STRP	0.018502,0.0,0,0	Slew =12.01	4R3	4	0	3,896,868:00:0	
722	97	93	14:44:20.400	117AG105A106A4G	7STRP	0.0,0.0,0,0,0,0,	Slew =,1.01	4R3	4	0	3,896,869:00:0	
723	97	93	15:13:39.733	117AG105A106A4H	7STRP	0.018502,0.0,0,0	Slew =12.01	4R3	4	0	3,896,898:00:0	
724	97	93	15:14:40.400	117AG105A106A4I	7STRP	0.0,0.0,0,0,0,0,	Slew =,1.01	4R3	4	0	3,896,899:00:0	
725	97	93	15:43:59.733	117AG11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	3,896,928:00:0	
726	97	93	15:54:59.733		DMS:	: READY	RDY, TRACK 1, FWD, TIC 2313.67 +/-	4R3	4	0	3,896,938:80:0	
727	**97**	**93**	**15:55:00.000**	**20A3EX**	**37HR**	**Final Condition**	**Replacement Heaters OFF**	**4R3**	**4**	**0**	**3,896,938:80:4**	
728	**97**	**93**	**15:55:00.000**	**20A3EW**	**37A**	**Final Condition**	**NIMS Power ON**	**4R3**	**4**	**0**	**3,896,938:80:4**	
729	**97**	**93**	**15:55:00.000**	**20A3EZ**	**37C2PR**	**Final Condition**	**Optics Heater 2 OFF (primary relay)**	**4R3**	**4**	**0**	**3,896,938:80:4**	
730	**97**	**93**	**15:55:00.000**	**20A3FA**	**37F1PR**	**Final Condition**	**Radiator Flash Heater OFF (primary relay)**	**4R3**	**4**	**0**	**3,896,938:80:4**	
731	**97**	**93**	**15:55:00.000**	**20A3FB**	**37F2PR**	**Final Condition**	**Shield Flash Heater OFF (primary relay)**	**4R3**	**4**	**0**	**3,896,938:80:4**	
732	**97**	**93**	**15:55:00.000**	**20A3FD**	**40HRPR**	**Final Condition**	**RCT Heater OFF (primary relay)**	**4R3**	**4**	**0**	**3,896,938:80:4**	
733	**97**	**93**	**15:55:00.000**	**20A3EY**	**37C1PR**	**Final Condition**	**Optics Heater 1 OFF (primary relay)**	**4R3**	**4**	**0**	**3,896,938:80:4**	
734	**97**	**93**	**15:55:00.000**	**20A3FE**	**40T1PR**	**Final Condition**	**PCT Heater 1 OFF (primary relay)**	**4R3**	**4**	**0**	**3,896,938:80:4**	
735	**97**	**93**	**15:55:00.000**	**20A3FF**	**40T2R**	**Final Condition**	**PCT Heater 2 OFF**	**4R3**	**4**	**0**	**3,896,938:80:4**	

			Sequence:	G07A2-ARF		Created: 5/13/97	Begin: 97-093/15:55:00 Finish: 97-096/16:00:00				
Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
1	97	93	15:54:59.733		DMS:	: READY	RDY, TRACK 1, FWD, TIC 2312.00 +/-	4R3	4	0	3,896,938:80:0
2	**97**	**93**	**15:55:00.000**	**20A3EW**	**37A**	**Initial Condition**	**NIMS Power ON**	**4R3**	**4**	**0**	**3,896,938:80:4**
3	**97**	**93**	**15:55:00.000**	**20A3FB**	**37F2PR**	**Initial Condition**	**Shield Flash Heater OFF (primary relay)**	**4R3**	**4**	**0**	**3,896,938:80:4**
4	**97**	**93**	**15:55:00.000**	**20A3FD**	**40HRPR**	**Initial Condition**	**RCT Heater OFF (primary relay)**	**4R3**	**4**	**0**	**3,896,938:80:4**
5	**97**	**93**	**15:55:00.000**	**20A3FF**	**40T2R**	**Initial Condition**	**PCT Heater 2 OFF**	**4R3**	**4**	**0**	**3,896,938:80:4**
6	**97**	**93**	**15:55:00.000**	**20A3FE**	**40T1PR**	**Initial Condition**	**PCT Heater 1 OFF (primary relay)**	**4R3**	**4**	**0**	**3,896,938:80:4**
7	**97**	**93**	**15:55:00.000**	**20A3EX**	**37HR**	**Initial Condition**	**Replacement Heaters OFF**	**4R3**	**4**	**0**	**3,896,938:80:4**
8	**97**	**93**	**15:55:00.000**	**20A3EY**	**37C1PR**	**Initial Condition**	**Optics Heater 1 OFF (primary relay)**	**4R3**	**4**	**0**	**3,896,938:80:4**
9	**97**	**93**	**15:55:00.000**	**20A3EZ**	**37C2PR**	**Initial Condition**	**Optics Heater 2 OFF (primary relay)**	**4R3**	**4**	**0**	**3,896,938:80:4**
10	**97**	**93**	**15:55:00.000**	**20A3FA**	**37F1PR**	**Initial Condition**	**Radiator Flash Heater OFF (primary relay)**	**4R3**	**4**	**0**	**3,896,938:80:4**
11	97	93	15:55:23.733	488AS6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4R3	4	0	3,896,939:25:0
12	97	93	15:59:59.733	488AS6B	6TMSED	NORM,GL6	Sci, Eng, and D/L Chan	4R3	4	0	3,896,943:75:0
13	97	93	16:00:00.400	282NK432A431A6A	6RCDSL	DDSNCG,PLSDSL,EP	Record Deselect (DDS o	4R3	4	0	3,896,943:76:0
14	97	93	16:00:01.066	282NK432A6A	6RTSL1		R/T Select of DDS and	4R3	4	0	3,896,943:77:0
15	97	93	16:20:22.400	165BJ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,896,963:89:0
16	97	93	16:20:23.066	165BJ4B	7SCAN	NORM,233.348,-23	Check S/P Position	4R3	4	0	3,896,963:90:0
17	97	93	17:38:13.733	165IC4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,897,040:89:0
18	97	93	17:38:14.400	165IC4B	7SCAN	NORM,274.655998,	Check S/P Position	4R3	4	0	3,897,040:90:0
19	**97**	**93**	**17:39:19.733**	**G7NNHEALTH01-**		**-----START------**		**4R3**	**4**	**0**	**: :**
20	97	93	17:39:55.733	488AS6C	6TMSED	NORM,GL7	Sci, Eng, and D/L Chan	4R3	4	0	3,897,042:60:0
21	**97**	**93**	**17:40:11.733**	**125KC4A**	**37IST**	**0,2,0,OFF,0,1,0**	**Gain State 2**	**4R3**	**4**	**0**	**3,897,042:84:0**
22	97	93	17:40:11.733	125KC	NIMSINIT	GS	##### GROUP START INIT	4R3	4	0	3,897,042:84:0
23	97	93	17:40:11.733	125KC11A	NIMSINIT	GE	##### GROUP END INIT	4R3	4	0	3,897,042:84:0
24	97	93	17:41:12.400	127KC	NIMSTAB	GS	%%%%% GROUP START TAB	4R3	4	0	3,897,043:84:0
25	**97**	**93**	**17:41:13.066**	**127KC4A**	**37ETB**	**07,C7,02,80,44,3**	**Loads wavelength edit table**	**4R3**	**4**	**0**	**3,897,043:85:0**
26	97	93	17:41:21.066	127KC11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	3,897,044:06:0
27	**97**	**93**	**17:41:37.066**	**432EE6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**	**NIMS R/T SELECT**	**4R3**	**4**	**0**	**3,897,044:30:0**
28	97	93	17:42:07.733	175IC422A6A	6DMSC	R806,1	DMS Control	4R3	4	0	3,897,044:76:0
29	97	93	17:42:14.400		DMS:	: *RUNUP	R806, TRACK 1, FWD, TIC 2312.00 +/-	4R3	4	0	3,897,044:86:0
30	97	93	17:42:19.066	175IC176A6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	4R3	4	0	3,897,045:02:0
31	97	93	17:42:19.666		DMS:	: *AT_SPD	R806, TRACK 1, FWD, TIC 2378.00 +/-	4R3	4	0	3,897,045:02:9
32	97	93	17:42:19.666		DMS:	**: *RECORD**	R806, TRACK 1, FWD, TIC *2378.00 +/-	4R3	4	0	3,897,045:02:9
33	97	93	17:42:26.400	175IC422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,897,045:13:0
34	97	93	17:42:26.400		DMS:	**: *RUNDOWN**	R806, TRACK 1, FWD, TIC *2543.70 +/-	4R3	4	0	3,897,045:13:0
35	**97**	**93**	**17:42:36.400**	**432EF6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**4R3**	**4**	**0**	**3,897,045:28:0**
36	**97**	**93**	**17:44:23.067**	**G7NNHEALTH01-**		**-----STOP-------**		**4R3**	**4**	**0**	**: :**
37	**97**	**93**	**17:45:23.733**	**G7NNNIMSLD01-**		**-----START------**		**4R3**	**4**	**0**	**: :**
38	**97**	**93**	**17:46:24.400**	**20EB6A**	**6CKSUM**	**NIMS**	**NIMS,1000,14BC**	**4R3**	**4**	**0**	**3,897,049:06:0**
39	**97**	**93**	**17:47:25.066**	**20EB5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**260**	**4**	**0**	**3,897,050:06:0**
40	**97**	**93**	**17:48:25.733**	**20EB5B**	**37MRL**		**Memory Realocate (software operates from R**	**260**	**4**	**0**	**3,897,051:06:0**
41	97	93	17:49:21.066	165IE4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	260	4	0	3,897,051:89:0
42	97	93	17:49:21.733	165IE4B	7SCAN	NORM,275.382,-24	Check S/P Position	260	4	0	3,897,051:90:0
43	**97**	**93**	**17:49:26.400**	**20EB6B**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**260**	**4**	**0**	**3,897,052:06:0**
44	**97**	**93**	**17:50:27.066**	**20EB6C**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**260**	**4**	**0**	**3,897,053:06:0**
45	**97**	**93**	**17:51:27.733**	**20EB5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**3,897,054:06:0**
46	**97**	**93**	**17:52:28.400**	**20EB5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**3,897,055:06:0**
47	97	93	17:53:17.066	118IE	**SMOS**	GS		260	4	0	3,897,055:79:0
48	97	93	17:53:23.733	165IE4C	7VECT		Inert vect update UTC	260	4	0	3,897,055:89:0
49	97	93	17:53:24.400	165IE4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	260	4	0	3,897,055:90:0
50	97	93	17:53:27.066	118IE110A111A4A	7STRP	0.0005,0.0,26,0,	Slew =,3.51	260	4	0	3,897,056:03:0
51	**97**	**93**	**17:53:29.066**	**20EB4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**3,897,056:06:0**
52	97	93	17:53:32.400	175IE422A6A	6DMSC	R806,1	DMS Control	2R0	4	0	3,897,056:11:0
53	97	93	17:53:39.066		DMS:	: *RUNUP	R806, TRACK 1, FWD, TIC 2555.20 +/- 1	2R0	4	0	3,897,056:21:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
54	97	93	17:53:43.733	175IE176A6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	2R0	4	0	3,897,056:28:0	
55	97	93	17:53:44.333		DMS:	**: *RECORD**	R806, TRACK 1, FWD, TIC *2621.20 +/- 1	2R0	4	0	3,897,056:28:9	
56	97	93	17:53:44.333		DMS:	: *AT_SPD	R806, TRACK 1, FWD, TIC 2621.20 +/- 1	2R0	4	0	3,897,056:28:9	
57	97	93	17:53:44.400	118IE11A	**SMOS**	GE		2R0	4	0	3,897,056:29:0	
58	97	93	17:53:46.400		DMS:	**: *RUNDOWN**	R806, TRACK 1, FWD, TIC *2672.06 +/- 1	2R0	4	0	3,897,056:32:0	
59	97	93	17:53:46.400	175IE422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R0	4	0	3,897,056:32:0	
60	**97**	**93**	**17:54:29.733**	**20EB4B**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**3,897,057:06:0**	
61	**97**	**93**	**17:55:30.400**	**G7INCHEMIS03-**		**-----START------**		**2R3**	**4**	**0**	**: :**	
62	**97**	**93**	**17:55:30.400**	**G7NNNIMSLD01-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**	
63	97	93	17:56:25.733	165DJ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,897,058:89:0	
64	97	93	17:56:26.400	165DJ4B	7SCAN	NORM,257.744999,	Check S/P Position	2R3	4	0	3,897,058:90:0	
65	97	93	17:59:24.400	127DJ	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	3,897,061:84:0	
66	**97**	**93**	**17:59:25.066**	**127DJ4A**	**37ETB**	**04,C4,35,FF,FF**	**Loads wavelength edit table**	**2R3**	**4**	**0**	**3,897,061:85:0**	
67	97	93	17:59:33.066	127DJ11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	3,897,062:06:0	
68	97	93	18:00:15.733	175DJ422A6A	6DMSC	R28,1	DMS Control	2R3	4	0	3,897,062:70:0	
69	97	93	18:00:20.400	117DJ	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	3,897,062:77:0	
70	97	93	18:00:22.400		DMS:	: *RUNUP	R28, TRACK 1, FWD, TIC 2683.56 +/- 1	2R3	4	0	3,897,062:80:0	
71	97	93	18:00:26.400	175DJ176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	2R3	4	0	3,897,062:86:0	
72	97	93	18:00:26.400		DMS:	**: *RECORD**	R28, TRACK 1, FWD, TIC *2685.06 +/- 1	2R3	4	0	3,897,062:86:0	
73	97	93	18:00:26.400		DMS:	: *AT_SPD	R28, TRACK 1, FWD, TIC 2685.06 +/- 1	2R3	4	0	3,897,062:86:0	
74	97	93	18:00:29.733	117DJ105A106A4A	**7STRP**	**0.0039,0.0,0,0,0**	**Slew =,0.02**	2R3	4	0	3,897,063:00:0	
75	97	93	18:03:46.400	117DJ11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	3,897,066:22:0	
76	97	93	18:03:47.733		DMS:	**: *RUNDOWN**	R28, TRACK 1, FWD, TIC *2862.02 +/- 1	2R3	4	0	3,897,066:24:0	
77	97	93	18:03:47.733	175DJ422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,897,066:24:0	
78	**97**	**93**	**18:03:59.733**	**G7INCHEMIS03-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**	
79	**97**	**93**	**18:04:09.733**	**G7INTHRMAL03-**		**-----START------**		**2R3**	**4**	**0**	**: :**	
80	97	93	18:04:27.733	125DL	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	3,897,066:84:0	
81	97	93	18:04:27.733	125DL11A	NIMSINIT	GE	##### GROUP END INIT	2R3	4	0	3,897,066:84:0	
82	97	93	18:04:27.733	127DL	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	3,897,066:84:0	
83	**97**	**93**	**18:04:27.733**	**125DL4A**	**37IST**	**0,2,0,OFF,0,1,1**	**Gain State 4**	**4R3**	**4**	**0**	**3,897,066:84:0**	
84	**97**	**93**	**18:04:28.400**	**127DL4A**	**37ETB**	**04,C4,35,FF,FF**	**Loads wavelength edit table**	**4R3**	**4**	**0**	**3,897,066:85:0**	
85	97	93	18:04:31.066	165DL4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,897,066:89:0	
86	97	93	18:04:31.733	165DL4B	7SCAN	NORM,257.875,-24	Check S/P Position	4R3	4	0	3,897,066:90:0	
87	97	93	18:04:36.400	127DL11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	3,897,067:06:0	
88	97	93	18:05:19.066	175DL422A6A	6DMSC	R28,1	DMS Control	4R3	4	0	3,897,067:70:0	
89	97	93	18:05:23.733	117DL	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	3,897,067:77:0	
90	97	93	18:05:25.733		DMS:	: *RUNUP	R28, TRACK 1, FWD, TIC 2862.32 +/- 1	4R3	4	0	3,897,067:80:0	
91	97	93	18:05:29.733	175DL176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	4R3	4	0	3,897,067:86:0	
92	97	93	18:05:29.733		DMS:	**: *RECORD**	R28, TRACK 1, FWD, TIC *2863.82 +/- 1	4R3	4	0	3,897,067:86:0	
93	97	93	18:05:29.733		DMS:	: *AT_SPD	R28, TRACK 1, FWD, TIC 2863.82 +/- 1	4R3	4	0	3,897,067:86:0	
94	97	93	18:05:33.066	117DL105A106A4A	**7STRP**	**0.0015,0.0,0,0,0**	**Slew =,0.02**	4R3	4	0	3,897,068:00:0	
95	97	93	18:06:49.733	117DL11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	3,897,069:24:0	
96	97	93	18:06:51.066		DMS:	**: *RUNDOWN**	R28, TRACK 1, FWD, TIC *2935.30 +/- 1	4R3	4	0	3,897,069:26:0	
97	97	93	18:06:51.066	175DL422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,897,069:26:0	
98	**97**	**93**	**18:07:00.400**	**G7INTHRMAL03-**		**-----STOP-------**		**4R3**	**4**	**0**	**: :**	
99	**97**	**93**	**18:07:20.400**	**G7INVOLCAN01-**		**-----START------**		**4R3**	**4**	**0**	**: :**	
100	97	93	18:07:29.733	127DN	NIMSTAB	GS	%%%%% GROUP START TAB	4R3	4	0	3,897,069:84:0	
101	**97**	**93**	**18:07:30.400**	**127DN4A**	**37ETB**	**04,C4,35,FF,FF**	**Loads wavelength edit table**	**4R3**	**4**	**0**	**3,897,069:85:0**	
102	97	93	18:07:33.066	165DN4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,897,069:89:0	
103	97	93	18:07:33.733	165DN4B	7SCAN	NORM,257.911999,	Check S/P Position	4R3	4	0	3,897,069:90:0	
104	97	93	18:07:38.400	127DN11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	3,897,070:06:0	
105	97	93	18:08:21.066	175DN422A6A	6DMSC	R28,1	DMS Control	4R3	4	0	3,897,070:70:0	
106	97	93	18:08:25.733	117DN	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	3,897,070:77:0	
107	97	93	18:08:27.733		DMS:	: *RUNUP	R28, TRACK 1, FWD, TIC 2935.60 +/- 1	4R3	4	0	3,897,070:80:0	
108	97	93	18:08:31.733	175DN176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	4R3	4	0	3,897,070:86:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
109	97	93	18:08:31.733		DMS:	**: *RECORD**	R28, TRACK 1, FWD, TIC *2937.10 +/- 1	4R3	4	0	3,897,070:86:0
110	97	93	18:08:31.733		DMS:	: *AT_SPD	R28, TRACK 1, FWD, TIC 2937.10 +/- 1	4R3	4	0	3,897,070:86:0
111	97	93	18:08:35.066	117DN105A106A4A	**7STRP**	**-0.00225,0.0,0,0**	**Slew =,0.03**	4R3	4	0	3,897,071:00:0
112	97	93	18:09:51.733	117DN11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	3,897,072:24:0
113	97	93	18:09:53.066		DMS:	**: *RUNDOWN**	R28, TRACK 1, FWD, TIC *3008.58 +/- 1	4R3	4	0	3,897,072:26:0
114	97	93	18:09:53.066	175DN422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,897,072:26:0
115	**97**	**93**	**18:10:40.400**	**G7INVOLCAN01-**		**-----STOP-------**		**4R3**	**4**	**0**	**: :**
116	**97**	**93**	**18:10:47.067**	**G7NNHEALTH02-**		**-----START------**		**4R3**	**4**	**0**	**: :**
117	**97**	**93**	**18:11:32.400**	**125KD4A**	**37IST**	**0,2,0,OFF,0,1,0**	**Gain State 2**	**2R3**	**4**	**0**	**3,897,073:84:0**
118	97	93	18:11:32.400	125KD11A	NIMSINIT	GE	##### GROUP END INIT	2R3	4	0	3,897,073:84:0
119	97	93	18:11:32.400	125KD	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	3,897,073:84:0
120	97	93	18:12:33.066	127KD	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	3,897,074:84:0
121	**97**	**93**	**18:12:33.733**	**127KD4A**	**37ETB**	**07,C7,02,80,44,3**	**Loads wavelength edit table**	**2R3**	**4**	**0**	**3,897,074:85:0**
122	97	93	18:12:41.733	127KD11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	3,897,075:06:0
123	**97**	**93**	**18:12:57.733**	**432EH6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**	**NIMS R/T SELECT**	**2R3**	**4**	**0**	**3,897,075:30:0**
124	**97**	**93**	**18:13:57.066**	**432EI6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**2R3**	**4**	**0**	**3,897,076:28:0**
125	**97**	**93**	**18:16:44.400**	**G7NNHEALTH02-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**
126	97	93	19:52:11.733	488AS6D	6TMSED	NORM,GL6	Sci, Eng, and D/L Chan	2R3	4	0	3,897,173:43:0
127	**97**	**93**	**20:42:20.400**	**G7NNNIMSLD02-**		**-----START------**		**2R3**	**4**	**0**	**: :**
128	**97**	**93**	**20:43:21.066**	**20EC6A**	**6CKSUM**	**NIMS**	**NIMS,1000,14BC**	**2R3**	**4**	**0**	**3,897,224:06:0**
129	**97**	**93**	**20:44:21.733**	**20EC5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**2R3**	**4**	**0**	**3,897,225:06:0**
130	**97**	**93**	**20:45:22.400**	**20EC5B**	**37MRL**		**Memory Realocate (software operates from R**	**2R3**	**4**	**0**	**3,897,226:06:0**
131	**97**	**93**	**20:46:23.066**	**20EC6B**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**2R3**	**4**	**0**	**3,897,227:06:0**
132	**97**	**93**	**20:47:23.733**	**20EC6C**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**2R3**	**4**	**0**	**3,897,228:06:0**
133	**97**	**93**	**20:48:24.400**	**20EC5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**3,897,229:06:0**
134	**97**	**93**	**20:49:25.066**	**20EC5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**3,897,230:06:0**
135	**97**	**93**	**20:50:25.733**	**20EC4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**3,897,231:06:0**
136	**97**	**93**	**20:51:26.400**	**20EC4B**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**3,897,232:06:0**
137	**97**	**93**	**20:52:27.067**	**G7NNNIMSLD02-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**
138	**97**	**93**	**20:53:14.400**	**G7INVOLCAN02-**		**-----START------**		**2R3**	**4**	**0**	**: :**
139	97	93	20:53:22.400	165DU4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,897,233:89:0
140	97	93	20:53:23.066	165DU4B	7SCAN	NORM,253.001999,	Check S/P Position	2R3	4	0	3,897,233:90:0
141	**97**	**93**	**20:55:20.400**	**125DU4A**	**37IST**	**0,2,0,OFF,0,1,1**	**Gain State 4**	**4R3**	**4**	**0**	**3,897,235:84:0**
142	97	93	20:55:20.400	125DU11A	NIMSINIT	GE	##### GROUP END INIT	4R3	4	0	3,897,235:84:0
143	97	93	20:55:20.400	125DU	NIMSINIT	GS	##### GROUP START INIT	4R3	4	0	3,897,235:84:0
144	97	93	20:56:21.066	127DU	NIMSTAB	GS	%%%%% GROUP START TAB	4R3	4	0	3,897,236:84:0
145	**97**	**93**	**20:56:21.066**	**127DU4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**4R3**	**4**	**0**	**3,897,236:84:0**
146	**97**	**93**	**20:56:21.733**	**127DU4B**	**37ETB**	**07,C7,03,81,00,0**	**Loads wavelength edit table**	**4R3**	**4**	**0**	**3,897,236:85:0**
147	97	93	20:56:29.733	127DU11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	3,897,237:06:0
148	97	93	20:57:15.066	175DU422A6A	6DMSC	R7,1	DMS Control Tape runup 7.68kbp	4R3	4	0	3,897,237:74:0
149	97	93	20:57:17.066	117DU	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	3,897,237:77:0
150	97	93	20:57:21.733		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 3008.88 +/- 1	4R3	4	0	3,897,237:84:0
151	97	93	20:57:23.066	175DU176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	4R3	4	0	3,897,237:86:0
152	97	93	20:57:23.133		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 3009.00 +/- 1	4R3	4	0	3,897,237:86:1
153	97	93	20:57:23.133		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *3009.00 +/- 1	4R3	4	0	3,897,237:86:1
154	97	93	20:57:26.400	117DU105A106A4A	**7STRP**	**-0.00275,0.0,0,0**	**Slew =,0.03**	4R3	4	0	3,897,238:00:0
155	97	93	20:58:59.733	117DU11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	3,897,239:49:0
156	97	93	20:59:01.066	175DU6A	6TMREC	**NRC**	NO RECORD Record Mode Change	4R3	4	0	3,897,239:51:0
157	97	93	20:59:01.066		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *3031.96 +/- 1	4R3	4	0	3,897,239:51:0
158	97	93	20:59:01.066	175DU422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,897,239:51:0
159	**97**	**93**	**20:59:11.733**	**G7INVOLCAN02-**		**-----STOP-------**		**4R3**	**4**	**0**	**: :**
160	**97**	**93**	**20:59:21.733**	**G7INTHRMAL04-**		**-----START------**		**4R3**	**4**	**0**	**: :**
161	97	93	20:59:23.066	127DV	NIMSTAB	GS	%%%%% GROUP START TAB	4R3	4	0	3,897,239:84:0
162	**97**	**93**	**20:59:23.733**	**127DV4A**	**37ETB**	**04,C4,35,FF,FF**	**Loads wavelength edit table**	**4R3**	**4**	**0**	**3,897,239:85:0**
163	97	93	20:59:26.400	165DV4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,897,239:89:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
164	97	93	20:59:27.066	165DV4B	7SCAN	NORM,252.778,-23	Check S/P Position	4R3	4	0	3,897,239:90:0
165	97	93	20:59:31.733	127DV11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	3,897,240:06:0
166	97	93	21:00:14.400	175DV422A6A	6DMSC	R28,1	DMS Control	4R3	4	0	3,897,240:70:0
167	97	93	21:00:19.066	117DV	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	3,897,240:77:0
168	97	93	21:00:21.066		DMS:	: *RUNUP	R28, TRACK 1, FWD, TIC 3032.02 +/- 1	4R3	4	0	3,897,240:80:0
169	97	93	21:00:25.066	175DV176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	4R3	4	0	3,897,240:86:0
170	97	93	21:00:25.066		DMS:	: *AT_SPD	R28, TRACK 1, FWD, TIC 3033.52 +/- 1	4R3	4	0	3,897,240:86:0
171	97	93	21:00:25.066		DMS:	**: *RECORD**	R28, TRACK 1, FWD, TIC *3033.52 +/- 1	4R3	4	0	3,897,240:86:0
172	97	93	21:00:28.400	117DV105A106A4A	**7STRP**	**0.0035,0.0,0,0,0**	**Slew =,0.03**	4R3	4	0	3,897,241:00:0
173	97	93	21:02:26.400	117DV11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	3,897,242:86:0
174	97	93	21:02:27.733	175DV422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,897,242:88:0
175	97	93	21:02:27.733		DMS:	**: *RUNDOWN**	R28, TRACK 1, FWD, TIC *3141.33 +/- 1	4R3	4	0	3,897,242:88:0
176	97	93	21:02:28.400	165DW4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,897,242:89:0
177	97	93	21:02:29.066	165DW4B	7SCAN	NORM,252.412998,	Check S/P Position	4R3	4	0	3,897,242:90:0
178	**97**	**93**	**21:02:29.733**	**G7INTHRMAL04-**		**-----STOP-------**		**4R3**	**4**	**0**	**: :**
179	**97**	**93**	**21:02:30.400**	**G7INHRSPEC01-**		**-----START------**		**4R3**	**4**	**0**	**: :**
180	97	93	21:03:16.400	175DW422A6A	6DMSC	R28,1	DMS Control	4R3	4	0	3,897,243:70:0
181	97	93	21:03:21.066	117DW	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	3,897,243:77:0
182	97	93	21:03:23.066		DMS:	: *RUNUP	R28, TRACK 1, FWD, TIC 3141.63 +/- 1	4R3	4	0	3,897,243:80:0
183	97	93	21:03:25.733	127DW	NIMSTAB	GS	%%%%% GROUP START TAB	4R3	4	0	3,897,243:84:0
184	**97**	**93**	**21:03:25.733**	**125DW4A**	**37IST**	**0,2,0,OFF,0,1,0**	**Gain State 2**	**2R3**	**4**	**0**	**3,897,243:84:0**
185	97	93	21:03:25.733	125DW	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	3,897,243:84:0
186	97	93	21:03:25.733	125DW11A	NIMSINIT	GE	##### GROUP END INIT	2R3	4	0	3,897,243:84:0
187	**97**	**93**	**21:03:26.400**	**127DW4A**	**37ETB**	**04,C4,35,FF,FF**	**Loads wavelength edit table**	**2R3**	**4**	**0**	**3,897,243:85:0**
188	97	93	21:03:27.066	175DW176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	2R3	4	0	3,897,243:86:0
189	97	93	21:03:27.066		DMS:	: *AT_SPD	R28, TRACK 1, FWD, TIC 3143.13 +/- 1	2R3	4	0	3,897,243:86:0
190	97	93	21:03:27.066		DMS:	**: *RECORD**	R28, TRACK 1, FWD, TIC *3143.13 +/- 1	2R3	4	0	3,897,243:86:0
191	97	93	21:03:30.400	117DW105A106A4A	**7STRP**	**0.0053,0.0,0,0,0**	**Slew =,0.03**	2R3	4	0	3,897,244:00:0
192	**97**	**93**	**21:03:30.409**	**G7INHRSPEC01-**	**NIMPBK**	**301DO**	**MONITORING OF IO'S DAYSIDE**	**2R3**	**4**	**0**	**: :**
193	97	93	21:03:34.400	127DW11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	3,897,244:06:0
194	**97**	**93**	**21:04:53.076**	**G7INHRSPEC01-**	**NIMPBK**	**301KB**	**MONITORING OF IO'S DAYSIDE**	**2R3**	**4**	**0**	**: :**
195	**97**	**93**	**21:05:01.743**	**G7INHRSPEC01-**	**DESELC**	**300DO**	**MONITORING OF IO'S DAYSIDE**	**2R3**	**4**	**0**	**: :**
196	97	93	21:06:28.400	117DW11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	3,897,246:85:0
197	**97**	**93**	**21:06:28.409**	**G7INHRSPEC01-**	**DESELC**	**300KB**	**MONITORING OF IO'S DAYSIDE**	**2R3**	**4**	**0**	**: :**
198	97	93	21:06:29.733		DMS:	**: *RUNDOWN**	R28, TRACK 1, FWD, TIC *3303.68 +/- 1	2R3	4	0	3,897,246:87:0
199	97	93	21:06:29.733	175DW422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,897,246:87:0
200	**97**	**93**	**21:07:37.067**	**G7INHRSPEC01-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**
201	97	93	21:09:33.066	165GJ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,897,249:89:0
202	97	93	21:09:33.733	165GJ4B	7SCAN	NORM,252.360998,	Check S/P Position	2R3	4	0	3,897,249:90:0
203	97	93	21:10:25.733	117GJ	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	3,897,250:77:0
204	97	93	21:10:35.066	117GJ105A106A4A	7STRP	0.0065,0.0,0,0,0	Slew =,0.04	2R3	4	0	3,897,251:00:0
205	97	93	21:10:35.066	176GJ6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R3	4	0	3,897,251:00:0
206	97	93	21:13:19.066	117GJ105A106A4B	7STRP	-0.0072,-0.00125	Slew =,3.71	2R3	4	0	3,897,253:64:0
207	97	93	21:13:25.733	117GJ105A106A4C	7STRP	0.0065,0.0,0,0,0	Slew =,0.04	2R3	4	0	3,897,253:74:0
208	97	93	21:16:09.733	117GJ105A106A4D	7STRP	-0.0072,-0.00125	Slew =,3.71	2R3	4	0	3,897,256:47:0
209	97	93	21:16:16.400	117GJ105A106A4E	7STRP	0.0065,0.0,0,0,0	Slew =,0.04	2R3	4	0	3,897,256:57:0
210	97	93	21:19:00.400	117GJ105A106A4F	7STRP	-0.0072,-0.00125	Slew =,3.71	2R3	4	0	3,897,259:30:0
211	97	93	21:19:07.066	117GJ105A106A4G	7STRP	0.0065,0.0,0,0,0	Slew =,0.04	2R3	4	0	3,897,259:40:0
212	**97**	**93**	**21:20:45.734**	**G7NNNIMSLD03-**		**-----START------**		**2R3**	**4**	**0**	**: :**
213	**97**	**93**	**21:21:46.400**	**20ED6A**	**6CKSUM**	**NIMS**	**NIMS,1000,14BC**	**2R3**	**4**	**0**	**3,897,262:06:0**
214	97	93	21:21:51.066	117GJ105A106A4H	7STRP	-0.0072,-0.00125	Slew =,3.71	2R3	4	0	3,897,262:13:0
215	97	93	21:21:57.733	117GJ105A106A4I	7STRP	0.0065,0.0,0,0,0	Slew =,0.04	2R3	4	0	3,897,262:23:0
216	**97**	**93**	**21:22:47.066**	**20ED5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**2R3**	**4**	**0**	**3,897,263:06:0**
217	**97**	**93**	**21:23:47.733**	**20ED5B**	**37MRL**		**Memory Realocate (software operates from R**	**2R3**	**4**	**0**	**3,897,264:06:0**
218	97	93	21:24:36.400		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 3303.98 +/- 1	2R3	4	0	3,897,264:79:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
219	97	93	21:24:37.800		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC *3304.10 +/- 1	2R3	4	0	3,897,264:81:1	
220	97	93	21:24:41.733	117GJ105A106A4J	7STRP	-0.0072,-0.00125	Slew =,3.71	2R3	4	0	3,897,264:87:0	
221	**97**	**93**	**21:24:48.400**	**20ED6B**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**2R3**	**4**	**0**	**3,897,265:06:0**	
222	97	93	21:24:48.400	117GJ105A106A4K	7STRP	0.0065,0.0,0,0,0	Slew =,0.04	2R3	4	0	3,897,265:06:0	
223	97	93	21:24:57.066		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *3308.61 +/- 1	2R3	4	0	3,897,265:19:0	
224	97	93	21:25:17.066		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *3313.30 +/- 1	2R3	4	0	3,897,265:49:0	
225	**97**	**93**	**21:25:49.066**	**20ED6C**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**2R3**	**4**	**0**	**3,897,266:06:0**	
226	**97**	**93**	**21:26:49.733**	**20ED5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**3,897,267:06:0**	
227	97	93	21:27:32.400	117GJ105A106A4L	7STRP	-0.0072,-0.00125	Slew =,3.71	260	4	0	3,897,267:70:0	
228	97	93	21:27:39.066	117GJ105A106A4M	7STRP	0.0065,0.0,0,0,0	Slew =,0.04	260	4	0	3,897,267:80:0	
229	**97**	**93**	**21:27:50.400**	**20ED5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**3,897,268:06:0**	
230	**97**	**93**	**21:28:51.066**	**20ED4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**3,897,269:06:0**	
231	**97**	**93**	**21:29:51.733**	**20ED4B**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**3,897,270:06:0**	
232	97	93	21:30:23.066	176GJ6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	3,897,270:53:0	
233	97	93	21:30:23.066	117GJ11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	3,897,270:53:0	
234	97	93	21:30:31.733		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 3313.36 +/- 1	2R3	4	0	3,897,270:66:0	
235	97	93	21:30:33.133		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC *3313.48 +/- 1	2R3	4	0	3,897,270:68:1	
236	97	93	21:30:35.066		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *3313.93 +/- 1	2R3	4	0	3,897,270:71:0	
237	97	93	21:30:46.400		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *3316.59 +/- 1	2R3	4	0	3,897,270:88:0	
238	**97**	**93**	**21:30:52.400**	**G7JNPFC04101-**		**-----START------**		**2R3**	**4**	**0**	**: :**	
239	**97**	**93**	**21:30:52.400**	**G7NNNIMSLD03-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**	
240	97	93	21:31:47.733	165DK4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,897,271:89:0	
241	97	93	21:31:48.400	165DK4B	7SCAN	NORM,277.667999,	Check S/P Position	2R3	4	0	3,897,271:90:0	
242	**97**	**93**	**21:34:46.400**	**127DK4A**	**37IOP**	**5,1**	**Short Map, Grating Start Position =01**	**2R5**	**4**	**1**	**3,897,274:84:0**	
243	97	93	21:34:46.400	127DK	NIMSTAB	GS	%%%%% GROUP START TAB	2R5	4	1	3,897,274:84:0	
244	**97**	**93**	**21:34:47.066**	**127DK4B**	**37ETB**		**Loads wavelength edit table**	**2R5**	**4**	**1**	**3,897,274:85:0**	
245	97	93	21:34:55.066	127DK11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R5	4	1	3,897,275:06:0	
246	97	93	21:35:40.400	175DK422A6A	6DMSC	R7,1	DMS Control Tape runup 7.68kbp	2R5	4	1	3,897,275:74:0	
247	97	93	21:35:42.400	117DK	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,897,275:77:0	
248	97	93	21:35:47.066		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 3316.65 +/- 1	2R5	4	1	3,897,275:84:0	
249	97	93	21:35:48.400	175DK176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	3,897,275:86:0	
250	97	93	21:35:48.466		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *3316.77 +/- 1	2R5	4	1	3,897,275:86:1	
251	97	93	21:35:48.466		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 3316.77 +/- 1	2R5	4	1	3,897,275:86:1	
252	97	93	21:35:51.733	117DK105A106A4A	**7STRP**	**-0.0108,0.0,0,0,**	**Slew =,0.11**	2R5	4	1	3,897,276:00:0	
253	**97**	**93**	**21:35:51.742**	**G7JNPFC04101-**	**NIMPBK**	**301DQ**	**JUPITER FEATURE TRACK 41 DEG PHA**	**2R5**	**4**	**1**	**: :**	
254	**97**	**93**	**21:37:31.075**	**G7JNPFC04101-**	**DESELC**	**300DQ**	**JUPITER FEATURE TRACK 41 DEG PHA**	**2R5**	**4**	**1**	**: :**	
255	97	93	21:37:31.733	117DK11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,897,277:59:0	
256	97	93	21:37:33.066		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *3341.28 +/- 1	2R5	4	1	3,897,277:61:0	
257	97	93	21:37:33.066	175DK422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,897,277:61:0	
258	97	93	21:37:33.066	175DK6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,897,277:61:0	
259	**97**	**93**	**21:37:57.067**	**G7JNPFC04101-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**	
260	**97**	**93**	**21:51:05.734**	**G7JNFEAP4101-**		**-----START------**		**2R5**	**4**	**1**	**: :**	
261	97	93	21:52:01.066	165DM4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,897,291:89:0	
262	97	93	21:52:01.733	165DM4B	7SCAN	NORM,279.475998,	Check S/P Position	2R5	4	1	3,897,291:90:0	
263	97	93	21:52:58.400	127DM	NIMSTAB	GS	%%%%% GROUP START TAB	2R5	4	1	3,897,292:84:0	
264	**97**	**93**	**21:52:59.066**	**127DM4A**	**37ETB**		**Loads wavelength edit table**	**2R5**	**4**	**1**	**3,897,292:85:0**	
265	97	93	21:53:07.066	127DM11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R5	4	1	3,897,293:06:0	
266	97	93	21:53:52.400	175DM422A6A	6DMSC	R7,1	DMS Control Tape runup 7.68kbp	2R5	4	1	3,897,293:74:0	
267	97	93	21:53:54.400	117DM	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,897,293:77:0	
268	97	93	21:53:59.066		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 3341.34 +/- 1	2R5	4	1	3,897,293:84:0	
269	97	93	21:54:00.400	175DM176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	3,897,293:86:0	
270	97	93	21:54:00.466		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 3341.46 +/- 1	2R5	4	1	3,897,293:86:1	
271	97	93	21:54:00.466		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *3341.46 +/- 1	2R5	4	1	3,897,293:86:1	
272	97	93	21:54:03.733	117DM105A106A4A	**7STRP**	**-0.032812,0.0,0,**	**Slew =,0.11**	2R5	4	1	3,897,294:00:0	
273	**97**	**93**	**21:54:03.741**	**G7JNFEAP4101-**	**NIMPBK**	**301DR**	**JUPITER FTR AND PRTL TRK 41 DEG**	**2R5**	**4**	**1**	**: :**	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
274	**97**	**93**	**21:59:01.741**	**G7JNFEAP4101-**	**DESELC**	**300DR**	**JUPITER FTR AND PRTL TRK 41 DEG**	**2R5**	**4**	**1**	**: :**	
275	97	93	21:59:03.733	117DM11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,897,298:86:0	
276	97	93	21:59:05.066	175DM6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,897,298:88:0	
277	97	93	21:59:05.066		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *3412.86 +/- 1	2R5	4	1	3,897,298:88:0	
278	97	93	21:59:05.066	175DM422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,897,298:88:0	
279	**97**	**93**	**21:59:11.067**	**G7JNFEAP4101-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**	
280	**97**	**93**	**21:59:51.734**	**G7JNRTHOTS01-**		**-----START------**		**2R5**	**4**	**1**	**: :**	
281	**97**	**93**	**22:00:03.066**	**125LN4A**	**37MB**	**1B,1B,0,0,0,0**	**Selects mirror (spatial) edit table**	**2R5**	**4**	**1**	**3,897,299:84:0**	
282	97	93	22:00:03.066	125LN11A	NIMSINIT	GE	##### GROUP END INIT	2R5	4	1	3,897,299:84:0	
283	97	93	22:00:03.066	125LN	NIMSINIT	GS	##### GROUP START INIT	2R5	4	1	3,897,299:84:0	
284	97	93	22:00:06.400	165FT4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,897,299:89:0	
285	97	93	22:00:07.066	165FT4B	7SCAN	NORM,276.560997,	Check S/P Position	2R5	4	1	3,897,299:90:0	
286	**97**	**93**	**22:01:03.733**	**127LM4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**3,897,300:84:0**	
287	97	93	22:01:03.733	127LM	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	3,897,300:84:0	
288	**97**	**93**	**22:01:04.400**	**127LM4B**	**37ETB**	**04,C4,35,FF,FF**	**Loads wavelength edit table**	**2R3**	**4**	**0**	**3,897,300:85:0**	
289	97	93	22:01:12.400	127LM11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	3,897,301:06:0	
290	**97**	**93**	**22:01:28.400**	**432EW6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**	**NIMS R/T SELECT**	**2R3**	**4**	**0**	**3,897,301:30:0**	
291	**97**	**93**	**22:02:27.733**	**432DV6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**2R3**	**4**	**0**	**3,897,302:28:0**	
292	97	93	22:03:05.066	125LL	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	3,897,302:84:0	
293	97	93	22:03:05.066	125LL11A	NIMSINIT	GE	##### GROUP END INIT	2R3	4	0	3,897,302:84:0	
294	**97**	**93**	**22:03:05.066**	**125LL4A**	**37MB**	**0,0,0,0,0,0**	**Selects mirror (spatial) edit table**	**2R3**	**4**	**0**	**3,897,302:84:0**	
295	**97**	**93**	**22:05:15.067**	**G7JNRTHOTS01-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**	
296	**97**	**93**	**22:29:31.066**	**G7INVOLCAN03-**		**-----START------**		**2R3**	**4**	**0**	**: :**	
297	97	93	22:30:26.400	165DY4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,897,329:89:0	
298	97	93	22:30:27.066	165DY4B	7SCAN	NORM,252.126999,	Check S/P Position	2R3	4	0	3,897,329:90:0	
299	97	93	22:32:24.400	125DY11A	NIMSINIT	GE	##### GROUP END INIT	2R3	4	0	3,897,331:84:0	
300	97	93	22:32:24.400	125DY	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	3,897,331:84:0	
301	**97**	**93**	**22:32:24.400**	**125DY4A**	**37IST**	**0,2,0,OFF,0,1,1**	**Gain State 4**	**4R3**	**4**	**0**	**3,897,331:84:0**	
302	97	93	22:33:25.066	127DY	NIMSTAB	GS	%%%%% GROUP START TAB	4R3	4	0	3,897,332:84:0	
303	**97**	**93**	**22:33:25.733**	**127DY4A**	**37ETB**	**07,C7,03,81,00,0**	**Loads wavelength edit table**	**4R3**	**4**	**0**	**3,897,332:85:0**	
304	97	93	22:33:33.733	127DY11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	3,897,333:06:0	
305	97	93	22:34:19.066	175DY422A6A	6DMSC	R7,1	DMS Control Tape runup 7.68kbp	4R3	4	0	3,897,333:74:0	
306	97	93	22:34:21.066	117DY	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	3,897,333:77:0	
307	97	93	22:34:25.733		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 3412.92 +/- 1	4R3	4	0	3,897,333:84:0	
308	97	93	22:34:27.066	175DY176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	4R3	4	0	3,897,333:86:0	
309	97	93	22:34:27.133		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *3413.04 +/- 1	4R3	4	0	3,897,333:86:1	
310	97	93	22:34:27.133		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 3413.04 +/- 1	4R3	4	0	3,897,333:86:1	
311	97	93	22:34:30.400	117DY105A106A4A	**7STRP**	**-0.00225,0.0,0,0**	**Slew =,0.03**	4R3	4	0	3,897,334:00:0	
312	97	93	22:35:47.066	117DY11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	3,897,335:24:0	
313	97	93	22:35:48.400	175DY422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,897,335:26:0	
314	97	93	22:35:48.400	175DY6A	6TMREC	**NRC**	NO RECORD Record Mode Change	4R3	4	0	3,897,335:26:0	
315	97	93	22:35:48.400		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *3432.08 +/- 1	4R3	4	0	3,897,335:26:0	
316	**97**	**93**	**22:36:35.733**	**G7INVOLCAN03-**		**-----STOP-------**		**4R3**	**4**	**0**	**: :**	
317	**97**	**93**	**22:36:35.733**	**G7NNNIMSLD04-**		**-----START------**		**4R3**	**4**	**0**	**: :**	
318	**97**	**93**	**22:37:36.400**	**20EE6A**	**6CKSUM**	**NIMS**	**NIMS,1000,14BC**	**4R3**	**4**	**0**	**3,897,337:06:0**	
319	**97**	**93**	**22:38:37.066**	**20EE5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**4R3**	**4**	**0**	**3,897,338:06:0**	
320	**97**	**93**	**22:39:37.733**	**20EE5B**	**37MRL**		**Memory Realocate (software operates from R**	**4R3**	**4**	**0**	**3,897,339:06:0**	
321	**97**	**93**	**22:40:38.400**	**20EE6B**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**4R3**	**4**	**0**	**3,897,340:06:0**	
322	**97**	**93**	**22:41:39.066**	**20EE6C**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**4R3**	**4**	**0**	**3,897,341:06:0**	
323	**97**	**93**	**22:42:39.733**	**20EE5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**3,897,342:06:0**	
324	**97**	**93**	**22:43:40.400**	**20EE5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**3,897,343:06:0**	
325	**97**	**93**	**22:44:41.066**	**20EE4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**3,897,344:06:0**	
326	**97**	**93**	**22:45:41.733**	**G7INVOLCAN04-**		**-----START------**		**2R0**	**4**	**0**	**: :**	
327	**97**	**93**	**22:45:41.733**	**G7NNNIMSLD04-**		**-----STOP-------**		**2R0**	**4**	**0**	**: :**	
328	**97**	**93**	**22:45:41.733**	**20EE4B**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**3,897,345:06:0**	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
329	97	93	22:46:37.066	165DZ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,897,345:89:0	
330	97	93	22:46:37.733	165DZ4B	7SCAN	NORM,252.064999,	Check S/P Position	2R3	4	0	3,897,345:90:0	
331	97	93	22:47:34.400	125LK	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	3,897,346:84:0	
332	97	93	22:47:34.400	125LK11A	NIMSINIT	GE	##### GROUP END INIT	2R3	4	0	3,897,346:84:0	
333	**97**	**93**	**22:47:34.400**	**125LK4A**	**37IST**	**0,2,0,OFF,0,1,1**	**Gain State 4**	**4R3**	**4**	**0**	**3,897,346:84:0**	
334	97	93	22:48:35.066	127LK	NIMSTAB	GS	%%%%% GROUP START TAB	4R3	4	0	3,897,347:84:0	
335	**97**	**93**	**22:48:35.733**	**127LK4A**	**37ETB**	**07,C7,03,81,00,0**	**Loads wavelength edit table**	**4R3**	**4**	**0**	**3,897,347:85:0**	
336	97	93	22:48:43.733	127LK11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	3,897,348:06:0	
337	97	93	22:49:29.066	175DZ422A6A	6DMSC	R7,1	DMS Control Tape runup 7.68kbp	4R3	4	0	3,897,348:74:0	
338	97	93	22:49:31.066	117DZ	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	3,897,348:77:0	
339	97	93	22:49:35.733		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 3432.14 +/- 1	4R3	4	0	3,897,348:84:0	
340	97	93	22:49:37.066	175DZ176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	4R3	4	0	3,897,348:86:0	
341	97	93	22:49:37.133		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 3432.26 +/- 1	4R3	4	0	3,897,348:86:1	
342	97	93	22:49:37.133		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *3432.26 +/- 1	4R3	4	0	3,897,348:86:1	
343	97	93	22:49:40.400	117DZ105A106A4A	**7STRP**	**0.00115,0.0,0,0,**	**Slew =,0.02**	4R3	4	0	3,897,349:00:0	
344	97	93	22:50:41.066	117DZ11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	3,897,350:00:0	
345	97	93	22:50:42.400		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *3447.56 +/- 1	4R3	4	0	3,897,350:02:0	
346	97	93	22:50:42.400	175DZ422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,897,350:02:0	
347	97	93	22:50:42.400	175DZ6A	6TMREC	**NRC**	NO RECORD Record Mode Change	4R3	4	0	3,897,350:02:0	
348	**97**	**93**	**22:50:45.066**	**G7INVOLCAN04-**		**-----STOP-------**		**4R3**	**4**	**0**	**: :**	
349	**97**	**93**	**22:50:45.066**	**G7JNFEASUB01-**		**-----START------**		**4R3**	**4**	**0**	**: :**	
350	97	93	22:51:40.400	165DO4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,897,350:89:0	
351	97	93	22:51:41.066	165DO4B	7SCAN	NORM,278.882,-23	Check S/P Position	4R3	4	0	3,897,350:90:0	
352	**97**	**93**	**22:52:37.733**	**125DO4A**	**37IST**	**0,2,0,OFF,0,1,0**	**Gain State 2**	**2R3**	**4**	**0**	**3,897,351:84:0**	
353	97	93	22:52:37.733	125DO11A	NIMSINIT	GE	##### GROUP END INIT	2R3	4	0	3,897,351:84:0	
354	97	93	22:52:37.733	125DO	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	3,897,351:84:0	
355	97	93	22:53:38.400	127DO	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	3,897,352:84:0	
356	**97**	**93**	**22:53:39.066**	**127DO4A**	**37ETB**		**Loads wavelength edit table**	**2R3**	**4**	**0**	**3,897,352:85:0**	
357	97	93	22:53:47.066	127DO11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	3,897,353:06:0	
358	97	93	22:54:32.400	175DO422A6A	6DMSC	R7,1	DMS Control Tape runup 7.68kbp	2R3	4	0	3,897,353:74:0	
359	97	93	22:54:34.400	117DO	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	3,897,353:77:0	
360	97	93	22:54:39.066		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 3447.62 +/- 1	2R3	4	0	3,897,353:84:0	
361	97	93	22:54:40.400	175DO176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R3	4	0	3,897,353:86:0	
362	97	93	22:54:40.466		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *3447.74 +/- 1	2R3	4	0	3,897,353:86:1	
363	97	93	22:54:40.466		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 3447.74 +/- 1	2R3	4	0	3,897,353:86:1	
364	97	93	22:54:43.733	117DO105A106A4A	**7STRP**	**-0.0108,0.0,0,0,**	**Slew =,0.03**	2R3	4	0	3,897,354:00:0	
365	**97**	**93**	**22:54:43.739**	**G7JNFEASUB01-**	**NIMPBK**	**301DU**	**JUPITER CAMPAIGN FEATURE SUB-SPE**	**2R3**	**4**	**0**	**: :**	
366	**97**	**93**	**23:00:03.739**	**G7JNFEASUB01-**	**DESELC**	**300DU**	**JUPITER CAMPAIGN FEATURE SUB-SPE**	**2R3**	**4**	**0**	**: :**	
367	97	93	23:00:47.733	117DO11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	3,897,360:00:0	
368	97	93	23:00:49.066	175DO422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,897,360:02:0	
369	97	93	23:00:49.066	175DO6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	3,897,360:02:0	
370	97	93	23:00:49.066		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *3534.13 +/- 1	2R3	4	0	3,897,360:02:0	
371	**97**	**93**	**23:00:51.733**	**G7JNFEASUB01-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**	
372	**97**	**93**	**23:03:53.733**	**G7JNFEAP4102-**		**-----START------**		**2R3**	**4**	**0**	**: :**	
373	97	93	23:04:49.066	165DP4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,897,363:89:0	
374	97	93	23:04:49.733	165DP4B	7SCAN	NORM,280.345997,	Check S/P Position	2R3	4	0	3,897,363:90:0	
375	97	93	23:07:47.733	127DP	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	3,897,366:84:0	
376	**97**	**93**	**23:07:47.733**	**127DP4A**	**37IOP**	**5,1**	**Short Map, Grating Start Position =01**	**2R5**	**4**	**1**	**3,897,366:84:0**	
377	**97**	**93**	**23:07:48.400**	**127DP4B**	**37ETB**		**Loads wavelength edit table**	**2R5**	**4**	**1**	**3,897,366:85:0**	
378	97	93	23:07:56.400	127DP11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R5	4	1	3,897,367:06:0	
379	97	93	23:08:41.733	175DP422A6A	6DMSC	R7,1	DMS Control Tape runup 7.68kbp	2R5	4	1	3,897,367:74:0	
380	97	93	23:08:43.733	117DP	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,897,367:77:0	
381	97	93	23:08:48.400		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 3534.19 +/- 1	2R5	4	1	3,897,367:84:0	
382	97	93	23:08:49.733	175DP176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	3,897,367:86:0	
383	97	93	23:08:49.800		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *3534.31 +/- 1	2R5	4	1	3,897,367:86:1	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
384	97	93	23:08:49.800		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 3534.31 +/- 1	2R5	4	1	3,897,367:86:1
385	97	93	23:08:53.066	117DP105A106A4A	**7STRP**	**-0.032812,0.0,0,**	**Slew =,0.11**	2R5	4	1	3,897,368:00:0
386	**97**	**93**	**23:08:53.071**	**G7JNFEAP4102-**	**NIMPBK**	**301DV**	**JUPITER FTR AND PRTL TRK 41 DEG**	**2R5**	**4**	**1**	**: :**
387	**97**	**93**	**23:13:52.404**	**G7JNFEAP4102-**	**DESELC**	**300DV**	**JUPITER FTR AND PRTL TRK 41 DEG**	**2R5**	**4**	**1**	**: :**
388	97	93	23:13:53.066	117DP11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,897,372:86:0
389	97	93	23:13:54.400	175DP422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,897,372:88:0
390	97	93	23:13:54.400	175DP6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,897,372:88:0
391	97	93	23:13:54.400		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *3605.70 +/- 1	2R5	4	1	3,897,372:88:0
392	**97**	**93**	**23:14:00.400**	**G7JNFEAP4102-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**
393	**97**	**93**	**23:14:47.733**	**G7JNPFTB4101-**		**-----START------**		**2R5**	**4**	**1**	**: :**
394	97	93	23:14:55.733	165DQ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,897,373:89:0
395	97	93	23:14:56.400	165DQ4B	7SCAN	NORM,280.617996,	Check S/P Position	2R5	4	1	3,897,373:90:0
396	97	93	23:17:47.733	175DQ422A6A	6DMSC	R7,1	DMS Control Tape runup 7.68kbp	2R5	4	1	3,897,376:74:0
397	97	93	23:17:49.733	117DQ	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,897,376:77:0
398	97	93	23:17:54.400		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 3605.76 +/- 1	2R5	4	1	3,897,376:84:0
399	97	93	23:17:55.733	175DQ176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	3,897,376:86:0
400	97	93	23:17:55.800		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 3605.88 +/- 1	2R5	4	1	3,897,376:86:1
401	97	93	23:17:55.800		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *3605.88 +/- 1	2R5	4	1	3,897,376:86:1
402	97	93	23:17:59.066	117DQ105A106A4A	**7STRP**	**-0.0108,0.0,0,0,**	**Slew =,0.11**	2R5	4	1	3,897,377:00:0
403	**97**	**93**	**23:17:59.071**	**G7JNPFTB4101-**	**NIMPBK**	**301DW**	**JUPITER PARTIAL FTR. TRK. B 41 D**	**2R5**	**4**	**1**	**: :**
404	97	93	23:19:39.066	117DQ105A106A4B	**7STRP**	**0.0112,-0.008001**	**Slew =12.01**	2R5	4	1	3,897,378:59:0
405	97	93	23:19:52.400	117DQ105A106A4C	**7STRP**	**-0.0108,0.0,0,0,**	**Slew =,0.11**	2R5	4	1	3,897,378:79:0
406	**97**	**93**	**23:21:31.738**	**G7JNPFTB4101-**	**DESELC**	**300DW**	**JUPITER PARTIAL FTR. TRK. B 41 D**	**2R5**	**4**	**1**	**: :**
407	97	93	23:21:32.400	117DQ11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,897,380:47:0
408	97	93	23:21:33.733	175DQ6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,897,380:49:0
409	97	93	23:21:33.733		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *3656.96 +/- 1	2R5	4	1	3,897,380:49:0
410	97	93	23:21:33.733	175DQ422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,897,380:49:0
411	**97**	**93**	**23:21:55.733**	**G7JNPFTB4101-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**
412	**97**	**93**	**23:21:56.400**	**G7JNRTHOTS02-**		**-----START------**		**2R5**	**4**	**1**	**: :**
413	97	93	23:21:57.066	125LV	NIMSINIT	GS	##### GROUP START INIT	2R5	4	1	3,897,380:84:0
414	**97**	**93**	**23:21:57.066**	**125LV4A**	**37MB**	**1B,1B,0,0,0,0**	**Selects mirror (spatial) edit table**	**2R5**	**4**	**1**	**3,897,380:84:0**
415	97	93	23:21:57.066	125LV11A	NIMSINIT	GE	##### GROUP END INIT	2R5	4	1	3,897,380:84:0
416	97	93	23:22:00.400	165FW4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,897,380:89:0
417	97	93	23:22:01.066	165FW4B	7SCAN	NORM,281.399998,	Check S/P Position	2R5	4	1	3,897,380:90:0
418	97	93	23:22:57.733	127LX	NIMSTAB	GS	%%%%% GROUP START TAB	2R5	4	1	3,897,381:84:0
419	**97**	**93**	**23:22:57.733**	**127LX4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**3,897,381:84:0**
420	**97**	**93**	**23:22:58.400**	**127LX4B**	**37ETB**	**04,C4,35,FF,FF**	**Loads wavelength edit table**	**2R3**	**4**	**0**	**3,897,381:85:0**
421	97	93	23:23:06.400	127LX11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	3,897,382:06:0
422	**97**	**93**	**23:23:22.400**	**432DG6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**	**NIMS R/T SELECT**	**2R3**	**4**	**0**	**3,897,382:30:0**
423	**97**	**93**	**23:24:21.733**	**432DH6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**2R3**	**4**	**0**	**3,897,383:28:0**
424	97	93	23:24:59.066	125LU	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	3,897,383:84:0
425	97	93	23:24:59.066	125LU11A	NIMSINIT	GE	##### GROUP END INIT	2R3	4	0	3,897,383:84:0
426	**97**	**93**	**23:24:59.066**	**125LU4A**	**37MB**	**0,0,0,0,0,0**	**Selects mirror (spatial) edit table**	**2R3**	**4**	**0**	**3,897,383:84:0**
427	97	93	23:25:02.400	165GG4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,897,383:89:0
428	97	93	23:25:03.066	165GG4B	7SCAN	NORM,280.017998,	Check S/P Position	2R3	4	0	3,897,383:90:0
429	97	93	23:26:55.733	117GG	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	3,897,385:77:0
430	97	93	23:27:05.066	117GG105A106A4A	7STRP	0.0,-0.017405,0,	Slew =,0.64	2R3	4	0	3,897,386:00:0
431	97	93	23:27:05.066	176GG6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R3	4	0	3,897,386:00:0
432	97	93	23:27:56.400	117GG105A106A4B	7STRP	0.0015,0.017505,	Slew =12.01	2R3	4	0	3,897,386:77:0
433	97	93	23:28:07.066	117GG105A106A4C	7STRP	0.0,-0.017405,0,	Slew =,0.64	2R3	4	0	3,897,387:02:0
434	**97**	**93**	**23:28:09.733**	**G7JNRTHOTS02-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**
435	97	93	23:28:58.400	117GG105A106A4D	7STRP	0.0015,0.017505,	Slew =12.01	2R3	4	0	3,897,387:79:0
436	97	93	23:29:09.066	117GG105A106A4E	7STRP	0.0,-0.017405,0,	Slew =,0.64	2R3	4	0	3,897,388:04:0
437	97	93	23:30:00.400	117GG105A106A4F	7STRP	0.0015,0.017505,	Slew =12.01	2R3	4	0	3,897,388:81:0
438	97	93	23:30:11.066	117GG105A106A4G	7STRP	0.0,-0.017405,0,	Slew =,0.64	2R3	4	0	3,897,389:06:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
439	97	93	23:31:02.400	117GG105A106A4H	7STRP	0.0015,0.017505,	Slew =12.01	2R3	4	0	3,897,389:83:0
440	97	93	23:31:13.066	117GG105A106A4I	7STRP	0.0,-0.017405,0,	Slew =,0.64	2R3	4	0	3,897,390:08:0
441	97	93	23:32:04.400	117GG105A106A4J	7STRP	0.0015,0.017505,	Slew =12.01	2R3	4	0	3,897,390:85:0
442	97	93	23:32:15.066	117GG105A106A4K	7STRP	0.0,-0.017405,0,	Slew =,0.64	2R3	4	0	3,897,391:10:0
443	97	93	23:33:06.400	117GG105A106A4L	7STRP	0.0015,0.017505,	Slew =12.01	2R3	4	0	3,897,391:87:0
444	97	93	23:33:17.066	117GG105A106A4M	7STRP	0.0,-0.017405,0,	Slew =,0.64	2R3	4	0	3,897,392:12:0
445	97	93	23:34:08.400	117GG105A106A4N	7STRP	0.0015,0.017505,	Slew =12.01	2R3	4	0	3,897,392:89:0
446	97	93	23:34:19.066	117GG105A106A4O	7STRP	0.0,-0.017405,0,	Slew =,0.64	2R3	4	0	3,897,393:14:0
447	97	93	23:35:10.400	117GG105A106A4P	7STRP	0.0015,0.017505,	Slew =12.01	2R3	4	0	3,897,394:00:0
448	97	93	23:35:21.066	117GG105A106A4Q	7STRP	0.0,-0.017405,0,	Slew =,0.64	2R3	4	0	3,897,394:16:0
449	97	93	23:36:12.400	117GG105A106A4R	7STRP	0.0015,0.017505,	Slew =12.01	2R3	4	0	3,897,395:02:0
450	97	93	23:36:23.066	117GG105A106A4S	7STRP	0.0,-0.017405,0,	Slew =,0.64	2R3	4	0	3,897,395:18:0
451	97	93	23:37:14.400	117GG105A106A4T	7STRP	0.0015,0.017505,	Slew =12.01	2R3	4	0	3,897,396:04:0
452	97	93	23:37:25.066	117GG105A106A4U	7STRP	0.0,-0.017405,0,	Slew =,0.64	2R3	4	0	3,897,396:20:0
453	97	93	23:38:16.400	117GG105A106A4V	7STRP	0.0015,0.017505,	Slew =12.01	2R3	4	0	3,897,397:06:0
454	97	93	23:38:27.066	117GG105A106A4W	7STRP	0.0,-0.017405,0,	Slew =,0.64	2R3	4	0	3,897,397:22:0
455	97	93	23:39:18.400	117GG105A106A4X	7STRP	0.0015,0.017505,	Slew =12.01	2R3	4	0	3,897,398:08:0
456	97	93	23:39:29.066	117GG105A106A4Y	7STRP	0.0,-0.017405,0,	Slew =,0.64	2R3	4	0	3,897,398:24:0
457	97	93	23:39:43.733		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 3657.02 +/- 1	2R3	4	0	3,897,398:46:0
458	97	93	23:39:45.133		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC *3657.14 +/- 1	2R3	4	0	3,897,398:48:1
459	97	93	23:40:04.400		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *3661.65 +/- 1	2R3	4	0	3,897,398:77:0
460	97	93	23:40:20.400	117GG105A106A4Z	7STRP	0.0015,0.017505,	Slew =12.01	2R3	4	0	3,897,399:10:0
461	97	93	23:40:24.400		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *3666.34 +/- 1	2R3	4	0	3,897,399:16:0
462	97	93	23:40:31.066	117GG105A106A4AA	7STRP	0.0,-0.017405,0,	Slew =,0.64	2R3	4	0	3,897,399:26:0
463	97	93	23:41:22.400	117GG105A106A4AB	7STRP	0.0015,0.017505,	Slew =12.01	2R3	4	0	3,897,400:12:0
464	97	93	23:41:33.066	117GG105A106A4AC	7STRP	0.0,-0.017405,0,	Slew =,0.64	2R3	4	0	3,897,400:28:0
465	97	93	23:42:24.400	117GG105A106A4AD	7STRP	0.0015,0.017505,	Slew =12.01	2R3	4	0	3,897,401:14:0
466	97	93	23:42:35.066	117GG105A106A4AE	7STRP	0.0,-0.017405,0,	Slew =,0.64	2R3	4	0	3,897,401:30:0
467	97	93	23:43:26.400	117GG105A106A4AF	7STRP	0.0015,0.017505,	Slew =12.01	2R3	4	0	3,897,402:16:0
468	97	93	23:43:37.066	117GG105A106A4AG	7STRP	0.0,-0.017405,0,	Slew =,0.64	2R3	4	0	3,897,402:32:0
469	97	93	23:44:28.400	117GG11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	3,897,403:18:0
470	97	93	23:44:59.733	488AT6A	6TMSED	NORM,CL6	Sci, Eng, and D/L Chan	2R3	4	0	3,897,403:65:0
471	97	93	23:45:00.400	282NL432A431A6A	6RCDSL	DDSNCG,PLSDSL,EP	Record Deselect (DDS o	2R3	4	0	3,897,403:66:0
472	97	93	23:45:01.066	282NL432A6A	6RTSL1		R/T Select of DDS and	2R3	4	0	3,897,403:67:0
473	97	93	23:52:45.733		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 3666.40 +/- 1	2R3	4	0	3,897,411:36:0
474	97	93	23:52:47.133		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC *3666.52 +/- 1	2R3	4	0	3,897,411:38:1
475	97	93	23:53:06.400		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *3671.04 +/- 1	2R3	4	0	3,897,411:67:0
476	97	93	23:53:26.400		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *3675.72 +/- 1	2R3	4	0	3,897,412:06:0
477	97	94	00:05:48.400		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 3675.78 +/- 1	2R3	4	0	3,897,424:27:0
478	97	94	00:05:49.800		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC *3675.90 +/- 1	2R3	4	0	3,897,424:29:1
479	97	94	00:06:09.066		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *3680.42 +/- 1	2R3	4	0	3,897,424:58:0
480	97	94	00:06:29.066		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *3685.11 +/- 1	2R3	4	0	3,897,424:88:0
481	**97**	**94**	**00:10:37.733**	**G7NNNIMSLD05-**		**-----START------**		**2R3**	**4**	**0**	**: :**
482	**97**	**94**	**00:11:38.400**	**20EF6A**	**6CKSUM**	**NIMS**	**NIMS,1000,14BC**	**2R3**	**4**	**0**	**3,897,430:06:0**
483	**97**	**94**	**00:12:39.066**	**20EF5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**2R3**	**4**	**0**	**3,897,431:06:0**
484	**97**	**94**	**00:13:39.733**	**20EF5B**	**37MRL**		**Memory Realocate (software operates from R**	**2R3**	**4**	**0**	**3,897,432:06:0**
485	**97**	**94**	**00:14:40.400**	**20EF6B**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**2R3**	**4**	**0**	**3,897,433:06:0**
486	**97**	**94**	**00:15:41.066**	**20EF6C**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**2R3**	**4**	**0**	**3,897,434:06:0**
487	**97**	**94**	**00:16:41.733**	**20EF5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**3,897,435:06:0**
488	**97**	**94**	**00:17:42.400**	**20EF5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**3,897,436:06:0**
489	**97**	**94**	**00:18:43.066**	**20EF4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**3,897,437:06:0**
490	97	94	00:18:50.400		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 3685.17 +/- 1	2R0	4	0	3,897,437:17:0
491	97	94	00:18:51.800		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC *3685.29 +/- 1	2R0	4	0	3,897,437:19:1
492	97	94	00:19:11.066		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *3689.80 +/- 1	2R0	4	0	3,897,437:48:0
493	97	94	00:19:31.066		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *3694.49 +/- 1	2R0	4	0	3,897,437:78:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
494	**97**	**94**	**00:19:43.733**	**20EF4B**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**3,897,438:06:0**
495	97	94	00:20:40.400	176GG6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	3,897,439:00:0
496	**97**	**94**	**00:20:44.400**	**G7JNPFTB4102-**		**-----START------**		**2R3**	**4**	**0**	**: :**
497	**97**	**94**	**00:20:44.400**	**G7NNNIMSLD05-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**
498	97	94	00:20:49.066		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 3694.55 +/- 1	2R3	4	0	3,897,439:13:0
499	97	94	00:20:50.466		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC *3694.67 +/- 1	2R3	4	0	3,897,439:15:1
500	97	94	00:20:52.400		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *3695.12 +/- 1	2R3	4	0	3,897,439:18:0
501	97	94	00:21:00.400		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *3697.00 +/- 1	2R3	4	0	3,897,439:30:0
502	97	94	00:21:39.733	165DR4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,897,439:89:0
503	97	94	00:21:40.400	165DR4B	7SCAN	NORM,282.724998,	Check S/P Position	2R3	4	0	3,897,439:90:0
504	**97**	**94**	**00:23:37.733**	**127LB4A**	**37IOP**	**5,1**	**Short Map, Grating Start Position =01**	**2R5**	**4**	**1**	**3,897,441:84:0**
505	97	94	00:23:37.733	127LB	NIMSTAB	GS	%%%%% GROUP START TAB	2R5	4	1	3,897,441:84:0
506	**97**	**94**	**00:23:38.400**	**127LB4B**	**37ETB**		**Loads wavelength edit table**	**2R5**	**4**	**1**	**3,897,441:85:0**
507	97	94	00:23:46.400	127LB11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R5	4	1	3,897,442:06:0
508	97	94	00:24:31.733	175DR422A6A	6DMSC	R7,1	DMS Control Tape runup 7.68kbp	2R5	4	1	3,897,442:74:0
509	97	94	00:24:33.733	117DR	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,897,442:77:0
510	97	94	00:24:38.400		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 3697.06 +/- 1	2R5	4	1	3,897,442:84:0
511	97	94	00:24:39.733	175DR176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	3,897,442:86:0
512	97	94	00:24:39.800		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 3697.18 +/- 1	2R5	4	1	3,897,442:86:1
513	97	94	00:24:39.800		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *3697.18 +/- 1	2R5	4	1	3,897,442:86:1
514	97	94	00:24:43.066	117DR105A106A4A	**7STRP**	**-0.0108,0.0,0,0,**	**Slew =,0.11**	2R5	4	1	3,897,443:00:0
515	**97**	**94**	**00:24:43.068**	**G7JNPFTB4102-**	**NIMPBK**	**301DX**	**JUPITER PARTIAL FTR TRK B 41 DEG**	**2R5**	**4**	**1**	**: :**
516	97	94	00:26:23.066	117DR105A106A4B	**7STRP**	**0.011501,-0.0080**	**Slew =12.01**	2R5	4	1	3,897,444:59:0
517	97	94	00:26:36.400	117DR105A106A4C	**7STRP**	**-0.0108,0.0,0,0,**	**Slew =,0.11**	2R5	4	1	3,897,444:79:0
518	**97**	**94**	**00:28:15.735**	**G7JNPFTB4102-**	**DESELC**	**300DX**	**JUPITER PARTIAL FTR TRK B 41 DEG**	**2R5**	**4**	**1**	**: :**
519	97	94	00:28:16.400	117DR11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,897,446:47:0
520	97	94	00:28:17.733	175DR422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,897,446:49:0
521	97	94	00:28:17.733		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *3748.26 +/- 1	2R5	4	1	3,897,446:49:0
522	97	94	00:28:17.733	175DR6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,897,446:49:0
523	**97**	**94**	**00:29:50.400**	**G7JNPFTB4102-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**
524	**97**	**94**	**00:40:57.733**	**G7JNPFTD4101-**		**-----START------**		**2R5**	**4**	**1**	**: :**
525	97	94	00:41:53.066	165DT4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,897,459:89:0
526	97	94	00:41:53.733	165DT4B	7SCAN	NORM,282.538998,	Check S/P Position	2R5	4	1	3,897,459:90:0
527	97	94	00:44:45.066	175DT422A6A	6DMSC	R7,1	DMS Control Tape runup 7.68kbp	2R5	4	1	3,897,462:74:0
528	97	94	00:44:47.066	117DT	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,897,462:77:0
529	97	94	00:44:51.733		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 3748.32 +/- 1	2R5	4	1	3,897,462:84:0
530	97	94	00:44:53.066	175DT176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	3,897,462:86:0
531	97	94	00:44:53.133		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *3748.44 +/- 1	2R5	4	1	3,897,462:86:1
532	97	94	00:44:53.133		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 3748.44 +/- 1	2R5	4	1	3,897,462:86:1
533	97	94	00:44:56.400	117DT105A106A4A	**7STRP**	**-0.0108,0.0,0,0,**	**Slew =,0.11**	2R5	4	1	3,897,463:00:0
534	**97**	**94**	**00:44:56.400**	**G7JNPFTD4101-**	**NIMPBK**	**301DY**	**JUPITER PARTIAL FTR TRK B 41 DEG**	**2R5**	**4**	**1**	**: :**
535	97	94	00:46:36.400	117DT105A106A4B	**7STRP**	**0.0114,-0.008001**	**Slew =12.01**	2R5	4	1	3,897,464:59:0
536	97	94	00:46:49.733	117DT105A106A4C	**7STRP**	**-0.0108,0.0,0,0,**	**Slew =,0.11**	2R5	4	1	3,897,464:79:0
537	**97**	**94**	**00:48:29.068**	**G7JNPFTD4101-**	**DESELC**	**300DY**	**JUPITER PARTIAL FTR TRK B 41 DEG**	**2R5**	**4**	**1**	**: :**
538	97	94	00:48:29.733	117DT11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,897,466:47:0
539	97	94	00:48:31.066	175DT422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,897,466:49:0
540	97	94	00:48:31.066	175DT6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,897,466:49:0
541	97	94	00:48:31.066		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *3799.52 +/- 1	2R5	4	1	3,897,466:49:0
542	**97**	**94**	**00:50:03.733**	**G7JNPFTD4101-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**
543	**97**	**94**	**00:50:51.066**	**G7JNRTHOTS03-**		**-----START------**		**2R5**	**4**	**1**	**: :**
544	**97**	**94**	**00:50:55.733**	**125LS4A**	**37MB**	**1B,1B,0,0,0,0**	**Selects mirror (spatial) edit table**	**2R5**	**4**	**1**	**3,897,468:84:0**
545	97	94	00:50:55.733	125LS11A	NIMSINIT	GE	##### GROUP END INIT	2R5	4	1	3,897,468:84:0
546	97	94	00:50:55.733	125LS	NIMSINIT	GS	##### GROUP START INIT	2R5	4	1	3,897,468:84:0
547	97	94	00:50:59.066	165FY4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,897,468:89:0
548	97	94	00:50:59.733	165FY4B	7SCAN	NORM,286.105,-23	Check S/P Position	2R5	4	1	3,897,468:90:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
549	**97**	**94**	**00:51:56.400**	**127LW4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**3,897,469:84:0**
550	97	94	00:51:56.400	127LW	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	3,897,469:84:0
551	**97**	**94**	**00:51:57.066**	**127LW4B**	**37ETB**	**04,C4,35,FF,FF**	**Loads wavelength edit table**	**2R3**	**4**	**0**	**3,897,469:85:0**
552	97	94	00:52:05.066	127LW11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	3,897,470:06:0
553	**97**	**94**	**00:52:21.066**	**432DI6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**	**NIMS R/T SELECT**	**2R3**	**4**	**0**	**3,897,470:30:0**
554	**97**	**94**	**00:53:20.400**	**432DJ6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**2R3**	**4**	**0**	**3,897,471:28:0**
555	97	94	00:53:57.733	125LR11A	NIMSINIT	GE	##### GROUP END INIT	2R3	4	0	3,897,471:84:0
556	97	94	00:53:57.733	125LR	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	3,897,471:84:0
557	**97**	**94**	**00:53:57.733**	**125LR4A**	**37MB**	**0,0,0,0,0,0**	**Selects mirror (spatial) edit table**	**2R3**	**4**	**0**	**3,897,471:84:0**
558	**97**	**94**	**00:56:07.733**	**G7JNRTHOTS03-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**
559	**97**	**94**	**00:58:09.066**	**G7INVOLCAN05-**		**-----START------**		**2R3**	**4**	**0**	**: :**
560	97	94	00:59:04.400	165EA4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,897,476:89:0
561	97	94	00:59:05.066	165EA4B	7SCAN	NORM,254.648998,	Check S/P Position	2R3	4	0	3,897,476:90:0
562	97	94	01:01:02.400	125LC11A	NIMSINIT	GE	##### GROUP END INIT	2R3	4	0	3,897,478:84:0
563	**97**	**94**	**01:01:02.400**	**125LC4A**	**37IST**	**0,2,0,OFF,0,1,1**	**Gain State 4**	**4R3**	**4**	**0**	**3,897,478:84:0**
564	97	94	01:01:02.400	125LC	NIMSINIT	GS	##### GROUP START INIT	4R3	4	0	3,897,478:84:0
565	97	94	01:02:03.066	127LC	NIMSTAB	GS	%%%%% GROUP START TAB	4R3	4	0	3,897,479:84:0
566	**97**	**94**	**01:02:03.733**	**127LC4A**	**37ETB**	**04,C4,35,FF,FF**	**Loads wavelength edit table**	**4R3**	**4**	**0**	**3,897,479:85:0**
567	97	94	01:02:11.733	127LC11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	3,897,480:06:0
568	97	94	01:02:54.400	175EA422A6A	6DMSC	R28,1	DMS Control	4R3	4	0	3,897,480:70:0
569	97	94	01:02:59.066	117EA	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	3,897,480:77:0
570	97	94	01:03:01.066		DMS:	: *RUNUP	R28, TRACK 1, FWD, TIC 3799.58 +/- 1	4R3	4	0	3,897,480:80:0
571	97	94	01:03:05.066	175EA176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	4R3	4	0	3,897,480:86:0
572	97	94	01:03:05.066		DMS:	: *AT_SPD	R28, TRACK 1, FWD, TIC 3801.08 +/- 1	4R3	4	0	3,897,480:86:0
573	97	94	01:03:05.066		DMS:	**: *RECORD**	R28, TRACK 1, FWD, TIC *3801.08 +/- 1	4R3	4	0	3,897,480:86:0
574	97	94	01:03:08.400	117EA105A106A4A	**7STRP**	**-0.00115,0.0,0,0**	**Slew =,0.02**	4R3	4	0	3,897,481:00:0
575	**97**	**94**	**01:03:08.400**	**G7INVOLCAN05-**	**NIMPBK**	**301DZ**	**MONITORING OF SELECTED VOLCANIC**	**4R3**	**4**	**0**	**: :**
576	**97**	**94**	**01:04:08.400**	**G7INVOLCAN05-**	**DESELC**	**300DZ**	**MONITORING OF SELECTED VOLCANIC**	**4R3**	**4**	**0**	**: :**
577	97	94	01:04:09.066	117EA11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	3,897,482:00:0
578	97	94	01:04:10.400	175EA422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,897,482:02:0
579	97	94	01:04:10.400		DMS:	**: *RUNDOWN**	R28, TRACK 1, FWD, TIC *3858.50 +/- 1	4R3	4	0	3,897,482:02:0
580	**97**	**94**	**01:05:13.733**	**G7INVOLCAN05-**		**-----STOP-------**		**4R3**	**4**	**0**	**: :**
581	**97**	**94**	**01:10:17.066**	**G7HNDARK__02-**		**-----START------**		**4R3**	**4**	**0**	**: :**
582	97	94	01:11:12.400	165DS4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,897,488:89:0
583	97	94	01:11:13.066	165DS4B	7SCAN	NORM,307.48,-51.	Check S/P Position	4R3	4	0	3,897,488:90:0
584	**97**	**94**	**01:13:10.400**	**125DS4A**	**37IST**	**0,2,0,OFF,0,1,0**	**Gain State 2**	**2R3**	**4**	**0**	**3,897,490:84:0**
585	97	94	01:13:10.400	125DS11A	NIMSINIT	GE	##### GROUP END INIT	2R3	4	0	3,897,490:84:0
586	97	94	01:13:10.400	125DS	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	3,897,490:84:0
587	97	94	01:14:11.066	127DS	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	3,897,491:84:0
588	**97**	**94**	**01:14:11.733**	**127DS4A**	**37ETB**	**07,C7,05,FF,FF,3**	**Loads wavelength edit table**	**2R3**	**4**	**0**	**3,897,491:85:0**
589	97	94	01:14:19.733	127DS11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	3,897,492:06:0
590	97	94	01:15:05.066	175DS422A6A	6DMSC	R7,1	DMS Control Tape runup 7.68kbp	2R3	4	0	3,897,492:74:0
591	97	94	01:15:11.733		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 3858.80 +/- 1	2R3	4	0	3,897,492:84:0
592	97	94	01:15:13.066	175DS176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R3	4	0	3,897,492:86:0
593	97	94	01:15:13.133		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 3858.92 +/- 1	2R3	4	0	3,897,492:86:1
594	97	94	01:15:13.133		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *3858.92 +/- 1	2R3	4	0	3,897,492:86:1
595	**97**	**94**	**01:15:16.400**	**G7HNDARK__02-**	**NIMPBK**	**301EA**	**DARK OBSERVATION**	**2R3**	**4**	**0**	**: :**
596	**97**	**94**	**01:16:16.400**	**G7HNDARK__02-**	**DESELC**	**300EA**	**DARK OBSERVATION**	**2R3**	**4**	**0**	**: :**
597	97	94	01:16:18.400	175DS422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,897,494:02:0
598	97	94	01:16:18.400		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *3874.21 +/- 1	2R3	4	0	3,897,494:02:0
599	97	94	01:16:18.400	175DS6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	3,897,494:02:0
600	**97**	**94**	**01:17:08.399**	**G7HNDARK__02-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**
601	**97**	**94**	**01:17:15.066**	**G7INCHEMIS04-**		**-----START------**		**2R3**	**4**	**0**	**: :**
602	97	94	01:17:16.400	165EB4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,897,494:89:0
603	97	94	01:17:17.066	165EB4B	7SCAN	NORM,254.858999,	Check S/P Position	2R3	4	0	3,897,494:90:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
604	97	94	01:20:15.066	127EB	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	3,897,497	84:0
605	**97**	**94**	**01:20:15.733**	**127EB4A**	**37ETB**	**07,C7,02,05,80,0**	**Loads wavelength edit table**	**2R3**	**4**	**0**	**3,897,497**	**85:0**
606	97	94	01:20:23.733	127EB11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	3,897,498	06:0
607	97	94	01:21:09.066	175EB422A6A	6DMSC	R7,1	DMS Control Tape runup 7.68kbp	2R3	4	0	3,897,498	74:0
608	97	94	01:21:11.066	117EB	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	3,897,498	77:0
609	97	94	01:21:15.733		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 3874.27 +/- 1	2R3	4	0	3,897,498	84:0
610	97	94	01:21:17.066	175EB176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R3	4	0	3,897,498	86:0
611	97	94	01:21:17.133		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 3874.39 +/- 1	2R3	4	0	3,897,498	86:1
612	97	94	01:21:17.133		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *3874.39 +/- 1	2R3	4	0	3,897,498	86:1
613	**97**	**94**	**01:21:20.399**	**G7INCHEMIS04-**	**NIMPBK**	**301ES**	**MONITORING OF IO'S DAYSIDE**	**2R3**	**4**	**0**	**: :**	
614	97	94	01:21:20.400	117EB105A106A4A	**7STRP**	**0.0088,0.0,0,0,0**	**Slew =,0.03**	2R3	4	0	3,897,499	00:0
615	**97**	**94**	**01:24:50.399**	**G7INCHEMIS04-**	**DESELC**	**300ES**	**MONITORING OF IO'S DAYSIDE**	**2R3**	**4**	**0**	**: :**	
616	97	94	01:26:15.066	117EB11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	3,897,503	78:0
617	97	94	01:26:16.400	175EB6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	3,897,503	80:0
618	97	94	01:26:16.400	175EB422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,897,503	80:0
619	97	94	01:26:16.400		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *3944.53 +/- 1	2R3	4	0	3,897,503	80:0
620	**97**	**94**	**01:26:27.733**	**G7INCHEMIS04-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**	
621	**97**	**94**	**01:27:21.733**	**G7INTHRMAL05-**		**-----START------**		**2R3**	**4**	**0**	**: :**	
622	97	94	01:27:23.066	165EC4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,897,504	89:0
623	97	94	01:27:23.733	165EC4B	7SCAN	NORM,255.535999,	Check S/P Position	2R3	4	0	3,897,504	90:0
624	97	94	01:29:21.066	125EC11A	NIMSINIT	GE	##### GROUP END INIT	2R3	4	0	3,897,506	84:0
625	**97**	**94**	**01:29:21.066**	**125EC4A**	**37IST**	**0,2,0,OFF,0,1,1**	**Gain State 4**	**4R3**	**4**	**0**	**3,897,506**	**84:0**
626	97	94	01:29:21.066	125EC	NIMSINIT	GS	##### GROUP START INIT	4R3	4	0	3,897,506	84:0
627	97	94	01:30:21.733	127EC	NIMSTAB	GS	%%%%% GROUP START TAB	4R3	4	0	3,897,507	84:0
628	**97**	**94**	**01:30:22.400**	**127EC4A**	**37ETB**	**07,C7,03,81,00,0**	**Loads wavelength edit table**	**4R3**	**4**	**0**	**3,897,507**	**85:0**
629	97	94	01:30:30.400	127EC11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	3,897,508	06:0
630	97	94	01:31:15.733	175EC422A6A	6DMSC	R7,1	DMS Control Tape runup 7.68kbp	4R3	4	0	3,897,508	74:0
631	97	94	01:31:17.733	117EC	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	3,897,508	77:0
632	97	94	01:31:22.400		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 3944.59 +/- 1	4R3	4	0	3,897,508	84:0
633	97	94	01:31:23.733	175EC176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	4R3	4	0	3,897,508	86:0
634	97	94	01:31:23.800		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *3944.71 +/- 1	4R3	4	0	3,897,508	86:1
635	97	94	01:31:23.800		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 3944.71 +/- 1	4R3	4	0	3,897,508	86:1
636	97	94	01:31:27.066	117EC105A106A4A	**7STRP**	**0.0039,0.0,0,0,0**	**Slew =,0.03**	4R3	4	0	3,897,509	00:0
637	97	94	01:33:38.400	117EC11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	3,897,511	15:0
638	97	94	01:33:39.733	175EC6A	6TMREC	**NRC**	NO RECORD Record Mode Change	4R3	4	0	3,897,511	17:0
639	97	94	01:33:39.733		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *3976.57 +/- 1	4R3	4	0	3,897,511	17:0
640	97	94	01:33:39.733	175EC422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,897,511	17:0
641	**97**	**94**	**01:34:33.066**	**G7INTHRMAL05-**		**-----STOP-------**		**4R3**	**4**	**0**	**: :**	
642	97	94	01:42:33.066	165IH4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,897,519	89:0
643	97	94	01:42:33.733	165IH4B	7SCAN	NORM,256.087997,	Check S/P Position	4R3	4	0	3,897,519	90:0
644	**97**	**94**	**01:44:39.733**	**G7NNNIMSLD06-**		**-----START------**		**4R3**	**4**	**0**	**: :**	
645	**97**	**94**	**01:45:40.400**	**20EG6A**	**6CKSUM**	**NIMS**	**NIMS,1000,14BC**	**4R3**	**4**	**0**	**3,897,523**	**06:0**
646	97	94	01:46:27.066	175IH422A6A	6DMSC	R806,1	DMS Control	4R3	4	0	3,897,523	76:0
647	97	94	01:46:33.733		DMS:	: *RUNUP	R806, TRACK 1, FWD, TIC 3976.63 +/- 1	4R3	4	0	3,897,523	86:0
648	97	94	01:46:38.400	175IH176A6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	4R3	4	0	3,897,524	02:0
649	97	94	01:46:39.000		DMS:	**: *RECORD**	R806, TRACK 1, FWD, TIC *4042.63 +/- 1	4R3	4	0	3,897,524	02:9
650	97	94	01:46:39.000		DMS:	: *AT_SPD	R806, TRACK 1, FWD, TIC 4042.63 +/- 2	4R3	4	0	3,897,524	02:9
651	**97**	**94**	**01:46:41.066**	**20EG5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**4R3**	**4**	**0**	**3,897,524**	**06:0**
652	97	94	01:46:45.733	175IH422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,897,524	13:0
653	97	94	01:46:45.733		DMS:	**: *RUNDOWN**	R806, TRACK 1, FWD, TIC *4208.34 +/- 2	4R3	4	0	3,897,524	13:0
654	**97**	**94**	**01:47:41.733**	**20EG5B**	**37MRL**		**Memory Realocate (software operates from R**	**4R3**	**4**	**0**	**3,897,525**	**06:0**
655	**97**	**94**	**01:48:42.400**	**20EG6B**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**4R3**	**4**	**0**	**3,897,526**	**06:0**
656	**97**	**94**	**01:49:43.066**	**20EG6C**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**4R3**	**4**	**0**	**3,897,527**	**06:0**
657	**97**	**94**	**01:50:43.733**	**20EG5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**3,897,528**	**06:0**
658	**97**	**94**	**01:51:44.400**	**20EG5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**3,897,529**	**06:0**

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
659	97	94	01:52:43.733	488AT6B	6TMSED	NORM,CL5	Sci, Eng, and D/L Chan	260	4	0	3,897,530:04:0
660	**97**	**94**	**01:52:45.066**	**20EG4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**3,897,530:06:0**
661	**97**	**94**	**01:53:45.733**	**20EG4B**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**3,897,531:06:0**
662	**97**	**94**	**01:54:46.400**	**G7NNNIMSLD06-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**
663	**97**	**94**	**01:55:40.400**	**G7ENFLEXUS01-**		**-----START------**		**2R3**	**4**	**0**	**: :**
664	97	94	01:55:41.733	165DX4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,897,532:89:0
665	97	94	01:55:42.400	165DX4B	7SCAN	NORM,285.003998,	Check S/P Position	2R3	4	0	3,897,532:90:0
666	97	94	01:57:39.733	125DJ11A	NIMSINIT	GE	##### GROUP END INIT	2R3	4	0	3,897,534:84:0
667	97	94	01:57:39.733	125DJ	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	3,897,534:84:0
668	**97**	**94**	**01:57:39.733**	**125DJ4A**	**37IST**	**0,2,0,OFF,0,1,2**	**Gain State 3**	**3R3**	**4**	**0**	**3,897,534:84:0**
669	97	94	01:58:40.400	127DX	NIMSTAB	GS	%%%%% GROUP START TAB	3R3	4	0	3,897,535:84:0
670	**97**	**94**	**01:58:41.066**	**127DX4A**	**37ETB**	**07,C7,02,1C,00,0**	**Loads wavelength edit table**	**3R3**	**4**	**0**	**3,897,535:85:0**
671	97	94	01:58:49.066	127DX11A	NIMSTAB	GE	%%%%% GROUP END TAB	3R3	4	0	3,897,536:06:0
672	97	94	01:59:34.400	175DX422A6A	6DMSC	R7,1	DMS Control Tape runup 7.68kbp	3R3	4	0	3,897,536:74:0
673	97	94	01:59:36.400	117DX	**CSMOS**	GS	***** GROUP START CSMOS	3R3	4	0	3,897,536:77:0
674	97	94	01:59:41.066		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 4219.84 +/- 2	3R3	4	0	3,897,536:84:0
675	97	94	01:59:42.400	175DX176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	3R3	4	0	3,897,536:86:0
676	97	94	01:59:42.466		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *4219.96 +/- 2	3R3	4	0	3,897,536:86:1
677	97	94	01:59:42.466		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 4219.96 +/- 2	3R3	4	0	3,897,536:86:1
678	97	94	01:59:44.400	165DX4C	7VECT		Inert vect update UTC	3R3	4	0	3,897,536:89:0
679	97	94	01:59:45.066	165DX4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	3R3	4	0	3,897,536:90:0
680	97	94	01:59:45.733	117DX105A106A4A	**7STRP**	**-0.013471,0.0,0,**	**Slew =,0.03**	3R3	4	0	3,897,537:00:0
681	**97**	**94**	**02:03:11.732**	**G7ENFLEXUS01-**	**NIMPBK**	**301DF**	**EUROPA GLOBAL MOSAIC CAMPAIGN**	**3R3**	**4**	**0**	**: :**
682	**97**	**94**	**02:03:51.732**	**G7ENFLEXUS01-**	**DESELC**	**300DF**	**EUROPA GLOBAL MOSAIC CAMPAIGN**	**3R3**	**4**	**0**	**: :**
683	97	94	02:07:16.400	117DX105A106A4B	**7STRP**	**0.013401,-0.0085**	**Slew =,6.01**	3R3	4	0	3,897,544:39:0
684	97	94	02:07:23.066	117DX105A106A4C	**7STRP**	**-0.013471,0.0,0,**	**Slew =,0.03**	3R3	4	0	3,897,544:49:0
685	97	94	02:07:46.400	125DN11A	NIMSINIT	GE	##### GROUP END INIT	3R3	4	0	3,897,544:84:0
686	97	94	02:07:46.400	125DN	NIMSINIT	GS	##### GROUP START INIT	3R3	4	0	3,897,544:84:0
687	**97**	**94**	**02:07:46.400**	**125DN4A**	**37IST**	**0,2,0,OFF,0,1,0**	**Gain State 2**	**2R3**	**4**	**0**	**3,897,544:84:0**
688	97	94	02:11:55.733	488AT6C	6TMSED	NORM,CL4	Sci, Eng, and D/L Chan	2R3	4	0	3,897,549:03:0
689	97	94	02:14:51.066	125DV11A	NIMSINIT	GE	##### GROUP END INIT	2R3	4	0	3,897,551:84:0
690	97	94	02:14:51.066	125DV	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	3,897,551:84:0
691	**97**	**94**	**02:14:51.066**	**125DV4A**	**37IST**	**0,2,0,OFF,0,1,1**	**Gain State 4**	**4R3**	**4**	**0**	**3,897,551:84:0**
692	97	94	02:14:53.733	117DX105A106A4D	**7STRP**	**0.013401,-0.0085**	**Slew =,6.01**	4R3	4	0	3,897,551:88:0
693	**97**	**94**	**02:15:00.397**	**G7ENFLEXUS01-**	**NIMPBK**	**301DS**	**EUROPA GLOBAL MOSAIC CAMPAIGN**	**4R3**	**4**	**0**	**: :**
694	97	94	02:15:00.400	117DX105A106A4E	**7STRP**	**-0.013471,0.0,0,**	**Slew =,0.03**	4R3	4	0	3,897,552:07:0
695	**97**	**94**	**02:19:03.064**	**G7ENFLEXUS01-**	**NIMPBK**	**301ED**	**EUROPA GLOBAL MOSAIC CAMPAIGN**	**4R3**	**4**	**0**	**: :**
696	**97**	**94**	**02:19:11.731**	**G7ENFLEXUS01-**	**DESELC**	**300DS**	**EUROPA GLOBAL MOSAIC CAMPAIGN**	**4R3**	**4**	**0**	**: :**
697	**97**	**94**	**02:20:03.731**	**G7ENFLEXUS01-**	**DESELC**	**300ED**	**EUROPA GLOBAL MOSAIC CAMPAIGN**	**4R3**	**4**	**0**	**: :**
698	97	94	02:22:31.066	117DX11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	3,897,559:46:0
699	97	94	02:22:33.066	175DX422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,897,559:49:0
700	97	94	02:22:33.066		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *4541.19 +/- 2	4R3	4	0	3,897,559:49:0
701	97	94	02:22:33.066	175DX6A	6TMREC	**NRC**	NO RECORD Record Mode Change	4R3	4	0	3,897,559:49:0
702	**97**	**94**	**02:23:05.066**	**G7ENFLEXUS01-**		**-----STOP-------**		**4R3**	**4**	**0**	**: :**
703	97	94	02:31:05.066	165GK4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,897,567:89:0
704	97	94	02:31:05.733	165GK4B	7SCAN	NORM,285.189999,	Check S/P Position	4R3	4	0	3,897,567:90:0
705	97	94	02:34:59.733	117GK	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	3,897,571:77:0
706	97	94	02:35:09.066	176GK6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	4R3	4	0	3,897,572:00:0
707	97	94	02:35:09.066	117GK105A106A4A	7STRP	0.04954,0.0,0,0,	Slew =,0.64	4R3	4	0	3,897,572:00:0
708	97	94	02:36:30.400	117GK105A106A4B	7STRP	-0.046534,-0.001	Slew =,10.7	4R3	4	0	3,897,573:31:0
709	97	94	02:36:38.400	117GK105A106A4C	7STRP	0.04954,0.0,0,0,	Slew =,0.64	4R3	4	0	3,897,573:43:0
710	97	94	02:37:59.733	117GK105A106A4D	7STRP	-0.046534,-0.001	Slew =,10.7	4R3	4	0	3,897,574:74:0
711	97	94	02:38:07.733	117GK105A106A4E	7STRP	0.04954,0.0,0,0,	Slew =,0.64	4R3	4	0	3,897,574:86:0
712	97	94	02:39:29.066	117GK105A106A4F	7STRP	-0.046534,-0.001	Slew =,10.7	4R3	4	0	3,897,576:26:0
713	97	94	02:39:37.066	117GK105A106A4G	7STRP	0.04954,0.0,0,0,	Slew =,0.64	4R3	4	0	3,897,576:38:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
714	97	94	02:40:58.400	117GK105A106A4H	7STRP	-0.046534,-0.001	Slew =,10.7	4R3	4	0	3,897,577	69:0
715	97	94	02:41:06.400	117GK105A106A4I	7STRP	0.04954,0.0,0,0,	Slew =,0.64	4R3	4	0	3,897,577	81:0
716	97	94	02:42:27.733	117GK105A106A4J	7STRP	-0.046534,-0.001	Slew =,10.7	4R3	4	0	3,897,579	21:0
717	97	94	02:42:35.733	117GK105A106A4K	7STRP	0.04954,0.0,0,0,	Slew =,0.64	4R3	4	0	3,897,579	33:0
718	97	94	02:43:57.066	117GK105A106A4L	7STRP	-0.046534,-0.001	Slew =,10.7	4R3	4	0	3,897,580	64:0
719	97	94	02:44:05.066	117GK105A106A4M	7STRP	0.04954,0.0,0,0,	Slew =,0.64	4R3	4	0	3,897,580	76:0
720	97	94	02:45:26.400	117GK105A106A4N	7STRP	-0.046534,-0.001	Slew =,10.7	4R3	4	0	3,897,582	16:0
721	97	94	02:45:34.400	117GK105A106A4O	7STRP	0.04954,0.0,0,0,	Slew =,0.64	4R3	4	0	3,897,582	28:0
722	97	94	02:46:55.733	117GK105A106A4P	7STRP	-0.046534,-0.001	Slew =,10.7	4R3	4	0	3,897,583	59:0
723	97	94	02:47:03.733	117GK105A106A4Q	7STRP	0.04954,0.0,0,0,	Slew =,0.64	4R3	4	0	3,897,583	71:0
724	97	94	02:47:51.066		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 4541.25 +/- 2	4R3	4	0	3,897,584	51:0
725	97	94	02:47:52.466		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC *4541.37 +/- 2	4R3	4	0	3,897,584	53:1
726	97	94	02:48:09.066		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *4545.26 +/- 2	4R3	4	0	3,897,584	78:0
727	97	94	02:48:25.066	117GK105A106A4R	7STRP	-0.046534,-0.001	Slew =,10.7	4R3	4	0	3,897,585	11:0
728	97	94	02:48:29.066		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *4549.95 +/- 2	4R3	4	0	3,897,585	17:0
729	97	94	02:48:33.066	117GK105A106A4S	7STRP	0.04954,0.0,0,0,	Slew =,0.64	4R3	4	0	3,897,585	23:0
730	97	94	02:49:54.400	117GK105A106A4T	7STRP	-0.046534,-0.001	Slew =,10.7	4R3	4	0	3,897,586	54:0
731	97	94	02:50:02.400	117GK105A106A4U	7STRP	0.04954,0.0,0,0,	Slew =,0.64	4R3	4	0	3,897,586	66:0
732	97	94	02:51:23.733	117GK105A106A4V	7STRP	-0.046534,-0.001	Slew =,10.7	4R3	4	0	3,897,588	06:0
733	97	94	02:51:31.733	117GK105A106A4W	7STRP	0.04954,0.0,0,0,	Slew =,0.64	4R3	4	0	3,897,588	18:0
734	97	94	02:52:53.066	117GK105A106A4X	7STRP	-0.046534,-0.001	Slew =,10.7	4R3	4	0	3,897,589	49:0
735	97	94	02:53:01.066	117GK105A106A4Y	7STRP	0.04954,0.0,0,0,	Slew =,0.64	4R3	4	0	3,897,589	61:0
736	97	94	02:54:22.400	117GK105A106A4Z	7STRP	-0.046534,-0.001	Slew =,10.7	4R3	4	0	3,897,591	01:0
737	97	94	02:54:30.400	117GK105A106A4AA	7STRP	0.04954,0.0,0,0,	Slew =,0.64	4R3	4	0	3,897,591	13:0
738	97	94	02:55:51.733	117GK105A106A4AB	7STRP	-0.046534,-0.001	Slew =,10.7	4R3	4	0	3,897,592	44:0
739	97	94	02:55:59.733	117GK105A106A4AC	7STRP	0.04954,0.0,0,0,	Slew =,0.64	4R3	4	0	3,897,592	56:0
740	97	94	02:57:21.066	117GK105A106A4AD	7STRP	-0.046534,-0.001	Slew =,10.7	4R3	4	0	3,897,593	87:0
741	97	94	02:57:29.066	117GK105A106A4AE	7STRP	0.04954,0.0,0,0,	Slew =,0.64	4R3	4	0	3,897,594	08:0
742	97	94	02:58:50.400	117GK105A106A4AF	7STRP	-0.046534,-0.001	Slew =,10.7	4R3	4	0	3,897,595	39:0
743	97	94	02:58:58.400	117GK105A106A4AG	7STRP	0.04954,0.0,0,0,	Slew =,0.64	4R3	4	0	3,897,595	51:0
744	97	94	03:00:19.733	117GK105A106A4AH	7STRP	-0.046534,-0.001	Slew =,10.7	4R3	4	0	3,897,596	82:0
745	97	94	03:00:27.733	117GK105A106A4AI	7STRP	0.04954,0.0,0,0,	Slew =,0.64	4R3	4	0	3,897,597	03:0
746	97	94	03:00:53.066		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 4550.01 +/- 2	4R3	4	0	3,897,597	41:0
747	97	94	03:00:54.466		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC *4550.13 +/- 2	4R3	4	0	3,897,597	43:1
748	97	94	03:01:11.066		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *4554.02 +/- 2	4R3	4	0	3,897,597	68:0
749	97	94	03:01:31.066		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *4558.71 +/- 2	4R3	4	0	3,897,598	07:0
750	97	94	03:01:49.066	117GK105A106A4AJ	7STRP	-0.046534,-0.001	Slew =,10.7	4R3	4	0	3,897,598	34:0
751	97	94	03:01:57.066	117GK105A106A4AK	7STRP	0.04954,0.0,0,0,	Slew =,0.64	4R3	4	0	3,897,598	46:0
752	97	94	03:03:18.400	117GK105A106A4AL	7STRP	-0.046534,-0.001	Slew =,10.7	4R3	4	0	3,897,599	77:0
753	97	94	03:03:26.400	117GK105A106A4AM	7STRP	0.04954,0.0,0,0,	Slew =,0.64	4R3	4	0	3,897,599	89:0
754	97	94	03:04:47.733	117GK105A106A4AN	7STRP	-0.046534,-0.001	Slew =,10.7	4R3	4	0	3,897,601	29:0
755	97	94	03:04:55.733	117GK105A106A4AO	7STRP	0.04954,0.0,0,0,	Slew =,0.64	4R3	4	0	3,897,601	41:0
756	97	94	03:06:17.066	117GK105A106A4AP	7STRP	-0.046534,-0.001	Slew =,10.7	4R3	4	0	3,897,602	72:0
757	97	94	03:06:25.066	117GK105A106A4AQ	7STRP	0.04954,0.0,0,0,	Slew =,0.64	4R3	4	0	3,897,602	84:0
758	97	94	03:07:46.400	117GK105A106A4AR	7STRP	-0.046534,-0.001	Slew =,10.7	4R3	4	0	3,897,604	24:0
759	97	94	03:07:54.400	117GK105A106A4AS	7STRP	0.04954,0.0,0,0,	Slew =,0.64	4R3	4	0	3,897,604	36:0
760	97	94	03:09:15.733	117GK105A106A4AT	7STRP	-0.046534,-0.001	Slew =,10.7	4R3	4	0	3,897,605	67:0
761	97	94	03:09:23.733	117GK105A106A4AU	7STRP	0.04954,0.0,0,0,	Slew =,0.64	4R3	4	0	3,897,605	79:0
762	97	94	03:10:45.066	117GK105A106A4AV	7STRP	-0.046534,-0.001	Slew =,10.7	4R3	4	0	3,897,607	19:0
763	97	94	03:10:53.066	117GK105A106A4AW	7STRP	0.04954,0.0,0,0,	Slew =,0.64	4R3	4	0	3,897,607	31:0
764	97	94	03:12:14.400	117GK105A106A4AX	7STRP	-0.046534,-0.001	Slew =,10.7	4R3	4	0	3,897,608	62:0
765	97	94	03:12:22.400	117GK105A106A4AY	7STRP	0.04954,0.0,0,0,	Slew =,0.64	4R3	4	0	3,897,608	74:0
766	97	94	03:13:43.733	117GK105A106A4AZ	7STRP	-0.046534,-0.001	Slew =,10.7	4R3	4	0	3,897,610	14:0
767	97	94	03:13:51.733	117GK105A106A4BA	7STRP	0.04954,0.0,0,0,	Slew =,0.64	4R3	4	0	3,897,610	26:0
768	97	94	03:13:55.066		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 4558.77 +/- 2	4R3	4	0	3,897,610	31:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
769	97	94	03:13:56.466		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC *4558.89 +/- 2	4R3	4	0	3,897,610:33:1
770	97	94	03:14:13.066		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *4562.78 +/- 2	4R3	4	0	3,897,610:58:0
771	97	94	03:14:33.066		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *4567.47 +/- 2	4R3	4	0	3,897,610:88:0
772	97	94	03:15:13.066	117GK105A106A4BB	7STRP	-0.046534,-0.001	Slew =,10.7	4R3	4	0	3,897,611:57:0
773	97	94	03:15:21.066	117GK105A106A4BC	7STRP	0.04954,0.0,0,0,	Slew =,0.64	4R3	4	0	3,897,611:69:0
774	97	94	03:16:42.400	117GK105A106A4BD	7STRP	-0.046534,-0.001	Slew =,10.7	4R3	4	0	3,897,613:09:0
775	97	94	03:16:50.400	117GK105A106A4BE	7STRP	0.04954,0.0,0,0,	Slew =,0.64	4R3	4	0	3,897,613:21:0
776	97	94	03:18:11.733	117GK105A106A4BF	7STRP	-0.046534,-0.001	Slew =,10.7	4R3	4	0	3,897,614:52:0
777	97	94	03:18:19.733	117GK105A106A4BG	7STRP	0.04954,0.0,0,0,	Slew =,0.64	4R3	4	0	3,897,614:64:0
778	97	94	03:19:41.066	117GK105A106A4BH	7STRP	-0.046534,-0.001	Slew =,10.7	4R3	4	0	3,897,616:04:0
779	97	94	03:19:49.066	117GK105A106A4BI	7STRP	0.04954,0.0,0,0,	Slew =,0.64	4R3	4	0	3,897,616:16:0
780	97	94	03:21:10.400	117GK105A106A4BJ	7STRP	-0.046534,-0.001	Slew =,10.7	4R3	4	0	3,897,617:47:0
781	97	94	03:21:18.400	117GK105A106A4BK	7STRP	0.04954,0.0,0,0,	Slew =,0.64	4R3	4	0	3,897,617:59:0
782	97	94	03:22:39.733	117GK105A106A4BL	7STRP	-0.046534,-0.001	Slew =,10.7	4R3	4	0	3,897,618:90:0
783	97	94	03:22:47.733	117GK105A106A4BM	7STRP	0.04954,0.0,0,0,	Slew =,0.64	4R3	4	0	3,897,619:11:0
784	97	94	03:24:09.066	117GK105A106A4BN	7STRP	-0.046534,-0.001	Slew =,10.7	4R3	4	0	3,897,620:42:0
785	97	94	03:24:17.066	117GK105A106A4BO	7STRP	0.04954,0.0,0,0,	Slew =,0.64	4R3	4	0	3,897,620:54:0
786	97	94	03:25:38.400	117GK105A106A4BP	7STRP	-0.046534,-0.001	Slew =,10.7	4R3	4	0	3,897,621:85:0
787	97	94	03:25:46.400	117GK105A106A4BQ	7STRP	0.04954,0.0,0,0,	Slew =,0.64	4R3	4	0	3,897,622:06:0
788	97	94	03:26:57.733		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 4567.53 +/- 2	4R3	4	0	3,897,623:22:0
789	97	94	03:26:59.133		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC *4567.65 +/- 2	4R3	4	0	3,897,623:24:1
790	97	94	03:27:07.733	117GK105A106A4BR	7STRP	-0.046534,-0.001	Slew =,10.7	4R3	4	0	3,897,623:37:0
791	97	94	03:27:15.066		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *4571.38 +/- 2	4R3	4	0	3,897,623:48:0
792	97	94	03:27:15.733	117GK105A106A4BS	7STRP	0.04954,0.0,0,0,	Slew =,0.64	4R3	4	0	3,897,623:49:0
793	97	94	03:27:35.066		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *4576.07 +/- 2	4R3	4	0	3,897,623:78:0
794	97	94	03:28:37.066	117GK105A106A4BT	7STRP	-0.046534,-0.001	Slew =,10.7	4R3	4	0	3,897,624:80:0
795	97	94	03:28:45.066	117GK105A106A4BU	7STRP	0.04954,0.0,0,0,	Slew =,0.64	4R3	4	0	3,897,625:01:0
796	97	94	03:30:06.400	117GK105A106A4BV	7STRP	-0.046534,-0.001	Slew =,10.7	4R3	4	0	3,897,626:32:0
797	97	94	03:30:14.400	117GK105A106A4BW	7STRP	0.04954,0.0,0,0,	Slew =,0.64	4R3	4	0	3,897,626:44:0
798	97	94	03:31:35.733	117GK105A106A4BX	7STRP	-0.046534,-0.001	Slew =,10.7	4R3	4	0	3,897,627:75:0
799	97	94	03:31:43.733	117GK105A106A4BY	7STRP	0.04954,0.0,0,0,	Slew =,0.64	4R3	4	0	3,897,627:87:0
800	97	94	03:32:47.066	488AT6D	6TMSED	FILL,CL4	Sci, Eng, and D/L Chan	4R3	4	0	3,897,629:00:0
801	97	94	03:32:59.733	488AT6E	6TMSED	FILL,CL2	Sci, Eng, and D/L Chan	4R3	4	0	3,897,629:19:0
802	97	94	03:33:05.066	117GK105A106A4BZ	7STRP	-0.046534,-0.001	Slew =,10.7	4R3	4	0	3,897,629:27:0
803	97	94	03:33:13.066	117GK105A106A4CA	7STRP	0.04954,0.0,0,0,	Slew =,0.64	4R3	4	0	3,897,629:39:0
804	97	94	03:34:34.400	117GK105A106A4CB	7STRP	-0.046534,-0.001	Slew =,10.7	4R3	4	0	3,897,630:70:0
805	97	94	03:34:42.400	117GK105A106A4CC	7STRP	0.04954,0.0,0,0,	Slew =,0.64	4R3	4	0	3,897,630:82:0
806	97	94	03:36:03.733	117GK105A106A4CD	7STRP	-0.046534,-0.001	Slew =,10.7	4R3	4	0	3,897,632:22:0
807	97	94	03:36:11.733	117GK105A106A4CE	7STRP	0.04954,0.0,0,0,	Slew =,0.64	4R3	4	0	3,897,632:34:0
808	97	94	03:37:33.066	117GK105A106A4CF	7STRP	-0.046534,-0.001	Slew =,10.7	4R3	4	0	3,897,633:65:0
809	97	94	03:37:41.066	117GK105A106A4CG	7STRP	0.04954,0.0,0,0,	Slew =,0.64	4R3	4	0	3,897,633:77:0
810	97	94	03:39:02.400	176GK6B	6TMREC	**NRC**	NO RECORD Record Mode Change	4R3	4	0	3,897,635:17:0
811	97	94	03:39:02.400	117GK11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	3,897,635:17:0
812	97	94	03:39:11.066		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 4576.13 +/- 2	4R3	4	0	3,897,635:30:0
813	97	94	03:39:12.466		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC *4576.25 +/- 2	4R3	4	0	3,897,635:32:1
814	97	94	03:39:14.400		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *4576.70 +/- 2	4R3	4	0	3,897,635:35:0
815	97	94	03:39:32.400		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *4580.92 +/- 2	4R3	4	0	3,897,635:62:0
816	**97**	**94**	**03:52:03.733**	**G7JNFEX00202-**		**-----START------**		**4R3**	**4**	**0**	**: :**
817	97	94	03:52:59.066	165EE4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,897,648:89:0
818	97	94	03:52:59.733	165EE4B	7SCAN	NORM,306.102997,	Check S/P Position	4R3	4	0	3,897,648:90:0
819	**97**	**94**	**03:54:57.066**	**125EE4A**	**37IST**	**0,2,0,OFF,0,1,0**	**Gain State 2**	**2R3**	**4**	**0**	**3,897,650:84:0**
820	97	94	03:54:57.066	125EE11A	NIMSINIT	GE	##### GROUP END INIT	2R3	4	0	3,897,650:84:0
821	97	94	03:54:57.066	125EE	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	3,897,650:84:0
822	97	94	03:55:57.733	127EE	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	3,897,651:84:0
823	**97**	**94**	**03:55:57.733**	**127EE4A**	**37IOP**	**5,1**	**Short Map, Grating Start Position =01**	**2R5**	**4**	**1**	**3,897,651:84:0**

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
824	**97**	**94**	**03:55:58.400**	**127EE4B**	**37ETB**		**Loads wavelength edit table**	**2R5**	**4**	**1**	**3,897,651:85:0**
825	97	94	03:56:06.400	127EE11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R5	4	1	3,897,652:06:0
826	97	94	03:56:49.066	175EE422A6A	6DMSC	R28,1	DMS Control	2R5	4	1	3,897,652:70:0
827	97	94	03:56:53.733	117EE	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,897,652:77:0
828	97	94	03:56:55.733		DMS:	: *RUNUP	R28, TRACK 1, FWD, TIC 4580.98 +/- 2	2R5	4	1	3,897,652:80:0
829	97	94	03:56:59.733	175EE176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	2R5	4	1	3,897,652:86:0
830	97	94	03:56:59.733		DMS:	: *AT_SPD	R28, TRACK 1, FWD, TIC 4582.48 +/- 2	2R5	4	1	3,897,652:86:0
831	97	94	03:56:59.733		DMS:	**: *RECORD**	R28, TRACK 1, FWD, TIC *4582.48 +/- 2	2R5	4	1	3,897,652:86:0
832	97	94	03:57:03.066	117EE105A106A4A	**7STRP**	**-0.0108,0.0,0,0,**	**Slew =,0.11**	2R5	4	1	3,897,653:00:0
833	97	94	03:58:43.066	117EE11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,897,654:59:0
834	97	94	03:58:44.400		DMS:	**: *RUNDOWN**	R28, TRACK 1, FWD, TIC *4674.47 +/- 2	2R5	4	1	3,897,654:61:0
835	97	94	03:58:44.400	175EE422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,897,654:61:0
836	97	94	04:04:33.066	488AU6A	6TMSED	NORM,CL2	Sci, Eng, and D/L Chan	2R5	4	1	3,897,660:38:0
837	97	94	04:11:11.066	165II4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,897,666:89:0
838	97	94	04:11:11.733	165II4B	7SCAN	NORM,302.584,-20	Check S/P Position	2R5	4	1	3,897,666:90:0
839	97	94	04:15:05.066	175II422A6A	6DMSC	R806,1	DMS Control	2R5	4	1	3,897,670:76:0
840	97	94	04:15:11.733		DMS:	: *RUNUP	R806, TRACK 1, FWD, TIC 4674.77 +/- 2	2R5	4	1	3,897,670:86:0
841	97	94	04:15:13.733	165II4C	7VECT		Inert vect update UTC	2R5	4	1	3,897,670:89:0
842	97	94	04:15:14.400	165II4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	2R5	4	1	3,897,670:90:0
843	97	94	04:15:16.400	175II176A6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	2R5	4	1	3,897,671:02:0
844	97	94	04:15:17.000		DMS:	**: *RECORD**	R806, TRACK 1, FWD, TIC *4740.77 +/- 2	2R5	4	1	3,897,671:02:9
845	97	94	04:15:17.000		DMS:	: *AT_SPD	R806, TRACK 1, FWD, TIC 4740.77 +/- 2	2R5	4	1	3,897,671:02:9
846	97	94	04:15:39.733	175II422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,897,671:37:0
847	97	94	04:15:39.733		DMS:	**: *RUNDOWN**	R806, TRACK 1, FWD, TIC *5300.22 +/- 2	2R5	4	1	3,897,671:37:0
848	**97**	**94**	**04:19:21.733**	**G7JNFEX00202-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**
849	97	94	04:28:22.400	165IJ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,897,683:89:0
850	97	94	04:28:23.066	165IJ4B	7SCAN	NORM,307.754997,	Check S/P Position	2R5	4	1	3,897,683:90:0
851	97	94	04:32:16.400	175IJ422A6A	6DMSC	R806,1	DMS Control	2R5	4	1	3,897,687:76:0
852	97	94	04:32:23.066		DMS:	: *RUNUP	R806, TRACK 1, FWD, TIC 5311.72 +/- 2	2R5	4	1	3,897,687:86:0
853	97	94	04:32:25.066	165IJ4C	7VECT		Inert vect update UTC	2R5	4	1	3,897,687:89:0
854	97	94	04:32:25.733	165IJ4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	2R5	4	1	3,897,687:90:0
855	97	94	04:32:27.733	175IJ176A6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	2R5	4	1	3,897,688:02:0
856	97	94	04:32:28.333		DMS:	**: *RECORD**	R806, TRACK 1, FWD, TIC *5377.72 +/- 2	2R5	4	1	3,897,688:02:9
857	97	94	04:32:28.333		DMS:	: *AT_SPD	R806, TRACK 1, FWD, TIC 5377.72 +/- 3	2R5	4	1	3,897,688:02:9
858	97	94	04:32:51.066		DMS:	**: *RUNDOWN**	R806, TRACK 1, FWD, TIC *5937.18 +/- 3	2R5	4	1	3,897,688:37:0
859	97	94	04:32:51.066	175IJ422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,897,688:37:0
860	**97**	**94**	**04:36:33.066**	**G7NNNIMSLD07-**		**-----START------**		**2R5**	**4**	**1**	**: :**
861	97	94	04:37:23.066	465KF6A	6DTRN	CMD,6DTRN,465KF6	DMS TRACK TURNAROUND	2R5	4	1	3,897,692:81:0
862	**97**	**94**	**04:37:33.733**	**20EH6A**	**6CKSUM**	**NIMS**	**NIMS,1000,14BC**	**2R5**	**4**	**1**	**3,897,693:06:0**
863	**97**	**94**	**04:38:34.400**	**20EH5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**2R5**	**4**	**1**	**3,897,694:06:0**
864	**97**	**94**	**04:39:35.066**	**20EH5B**	**37MRL**		**Memory Realocate (software operates from R**	**2R5**	**4**	**1**	**3,897,695:06:0**
865	**97**	**94**	**04:40:35.733**	**20EH6B**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**2R5**	**4**	**1**	**3,897,696:06:0**
866	**97**	**94**	**04:41:36.400**	**20EH6C**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**2R5**	**4**	**1**	**3,897,697:06:0**
867	**97**	**94**	**04:42:37.066**	**20EH5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**3,897,698:06:0**
868	**97**	**94**	**04:43:37.733**	**20EH5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**3,897,699:06:0**
869	**97**	**94**	**04:44:38.400**	**20EH4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**3,897,700:06:0**
870	97	94	04:45:33.733	165EF4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R0	4	0	3,897,700:89:0
871	97	94	04:45:34.400	165EF4B	7SCAN	NORM,267.335999,	Check S/P Position	2R0	4	0	3,897,700:90:0
872	**97**	**94**	**04:45:39.066**	**20EH4B**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**3,897,701:06:0**
873	**97**	**94**	**04:46:39.733**	**G7NNNIMSLD07-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**
874	**97**	**94**	**04:47:40.399**	**G7INCHEMIS05-**		**-----START------**		**2R3**	**4**	**0**	**: :**
875	97	94	04:48:32.400	127EF	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	3,897,703:84:0
876	**97**	**94**	**04:48:33.066**	**127EF4A**	**37ETB**	**07,C7,02,05,80,0**	**Loads wavelength edit table**	**2R3**	**4**	**0**	**3,897,703:85:0**
877	97	94	04:48:41.066	127EF11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	3,897,704:06:0
878	97	94	04:49:25.066	175EF422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	3,897,704:72:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
879	97	94	04:49:28.400	117EF	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	3,897,704	77:0
880	97	94	04:49:32.933		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *6026.79 +/-	2R3	4	0	3,897,704	83:8
881	97	94	04:49:34.333		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *6026.67 +/-	2R3	4	0	3,897,704	85:9
882	97	94	04:49:34.333		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC 6026.67 +/-	2R3	4	0	3,897,704	85:9
883	97	94	04:49:34.400	175EF176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R3	4	0	3,897,704	86:0
884	**97**	**94**	**04:49:37.726**	**G7INCHEMIS05-**	**NIMPBK**	**301EG**	**MONITORING OF IO'S DAYSIDE**	**2R3**	**4**	**0**	**: :**	
885	97	94	04:49:37.733	117EF105A106A4A	**7STRP**	**-0.0024,0.0,0,0,**	**Slew =,0.01**	2R3	4	0	3,897,705	00:0
886	97	94	04:49:47.733	488AU6B	6TMSED	NORM,CL3	Sci, Eng, and D/L Chan	2R3	4	0	3,897,705	15:0
887	**97**	**94**	**04:53:40.391**	**G7INCHEMIS05-**	**DESELC**	**300EG**	**MONITORING OF IO'S DAYSIDE**	**2R3**	**4**	**0**	**: :**	
888	97	94	04:53:40.400	117EF11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	3,897,709	00:0
889	97	94	04:54:39.733	165HL4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,897,709	89:0
890	97	94	04:54:40.400	165HL4B	7SCAN	NORM,267.545998,	Check S/P Position	2R3	4	0	3,897,709	90:0
891	97	94	04:54:48.400		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *5953.06 +/-	2R3	4	0	3,897,710	11:0
892	97	94	04:54:48.400	175EF6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	3,897,710	11:0
893	97	94	04:54:48.400	175EF422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,897,710	11:0
894	97	94	04:57:33.733	117HL	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	3,897,712	77:0
895	97	94	04:57:43.066	176HL6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R3	4	0	3,897,713	00:0
896	97	94	04:57:43.066	117HL105A106A4A	7STRP	0.007,0.0,0,0,0,	Slew =,0.63	2R3	4	0	3,897,713	00:0
897	**97**	**94**	**04:57:47.066**	**G7INCHEMIS05-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**	
898	97	94	04:57:57.733	117HL105A106A4B	7STRP	-0.0065,-0.0015,	Slew =0,3.3	2R3	4	0	3,897,713	22:0
899	97	94	04:58:03.066	117HL105A106A4C	7STRP	0.007,0.0,0,0,0,	Slew =,0.63	2R3	4	0	3,897,713	30:0
900	97	94	04:58:17.733	117HL105A106A4D	7STRP	-0.0065,-0.0015,	Slew =0,3.3	2R3	4	0	3,897,713	52:0
901	97	94	04:58:23.066	117HL105A106A4E	7STRP	0.007,0.0,0,0,0,	Slew =,0.63	2R3	4	0	3,897,713	60:0
902	97	94	04:58:37.733	117HL105A106A4F	7STRP	-0.0065,-0.0015,	Slew =0,3.3	2R3	4	0	3,897,713	82:0
903	97	94	04:58:43.066	117HL105A106A4G	7STRP	0.007,0.0,0,0,0,	Slew =,0.63	2R3	4	0	3,897,713	90:0
904	97	94	04:58:57.733	117HL105A106A4H	7STRP	-0.0065,-0.0015,	Slew =0,3.3	2R3	4	0	3,897,714	21:0
905	97	94	04:59:03.066	117HL105A106A4I	7STRP	0.007,0.0,0,0,0,	Slew =,0.63	2R3	4	0	3,897,714	29:0
906	97	94	04:59:17.733	176HL6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	3,897,714	51:0
907	97	94	04:59:17.733	117HL11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	3,897,714	51:0
908	97	94	04:59:27.600		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *5954.42 +/-	2R3	4	0	3,897,714	65:8
909	97	94	04:59:29.000		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *5954.30 +/-	2R3	4	0	3,897,714	67:9
910	97	94	04:59:29.733		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *5954.12 +/-	2R3	4	0	3,897,714	69:0
911	97	94	04:59:37.733		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *5952.25 +/-	2R3	4	0	3,897,714	81:0
912	97	94	05:01:44.400	165IL4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,897,716	89:0
913	97	94	05:01:45.066	165IL4B	7SCAN	NORM,268.251999,	Check S/P Position	2R3	4	0	3,897,716	90:0
914	97	94	05:03:45.733	165IL4C	7VECT		Inert vect update UTC	2R3	4	0	3,897,718	89:0
915	97	94	05:03:46.400	165IL4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	2R3	4	0	3,897,718	90:0
916	97	94	05:04:27.733	175IL422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	2R3	4	0	3,897,719	61:0
917	97	94	05:04:35.600		DMS:	: *RUNUP	R806, TRACK *2, *REV, TIC *5953.60 +/-	2R3	4	0	3,897,719	72:8
918	97	94	05:04:40.400	175IL176A6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	2R3	4	0	3,897,719	80:0
919	97	94	05:04:40.866		DMS:	: *AT_SPD	R806, TRACK 2, REV, TIC 5887.60 +/-	2R3	4	0	3,897,719	80:7
920	97	94	05:04:40.866		DMS:	**: *RECORD**	R806, TRACK 2, REV, TIC *5887.60 +/-	2R3	4	0	3,897,719	80:7
921	97	94	05:04:47.733	176IL6A	6TMREC	AI8	806.4 KBPS SSI RECORD Record Mode Change	2R3	4	0	3,897,720	00:0
922	97	94	05:04:57.066	175IL422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,897,720	14:0
923	97	94	05:04:57.066		DMS:	**: *RUNDOWN**	R806, TRACK 2, REV, TIC *5488.93 +/-	2R3	4	0	3,897,720	14:0
924	97	94	05:05:47.066	165IM4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,897,720	89:0
925	97	94	05:05:47.733	165IM4B	7SCAN	NORM,323.382,-14	Check S/P Position	2R3	4	0	3,897,720	90:0
926	97	94	05:09:38.400	175IM422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	2R3	4	0	3,897,724	72:0
927	97	94	05:09:46.266		DMS:	: *RUNUP	R806, TRACK *2, *REV, TIC *5478.85 +/-	2R3	4	0	3,897,724	83:8
928	97	94	05:09:49.733	165IM4C	7VECT		Inert vect update UTC	2R3	4	0	3,897,724	89:0
929	97	94	05:09:50.400	165IM4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	2R3	4	0	3,897,724	90:0
930	97	94	05:09:51.066	175IM176A6A	6TMREC	AI8	806.4 KBPS SSI RECORD Record Mode Change	2R3	4	0	3,897,725	00:0
931	97	94	05:09:51.533		DMS:	**: *RECORD**	R806, TRACK 2, REV, TIC *5412.85 +/-	2R3	4	0	3,897,725	00:7
932	97	94	05:09:51.533		DMS:	: *AT_SPD	R806, TRACK 2, REV, TIC 5412.85 +/-	2R3	4	0	3,897,725	00:7
933	97	94	05:09:58.400		DMS:	**: *RUNDOWN**	R806, TRACK 2, REV, TIC *5243.86 +/-	2R3	4	0	3,897,725	11:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
934	97	94	05:09:58.400	175IM422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,897,725:11:0	
935	97	94	05:14:41.733	175IN422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	2R3	4	0	3,897,729:72:0	
936	97	94	05:14:49.600		DMS:	: *RUNUP	R806, TRACK *2, *REV, TIC *5233.78 +/-	2R3	4	0	3,897,729:83:8	
937	97	94	05:14:54.400	175IN176A6A	6TMREC	AI8	806.4 KBPS SSI RECORD Record Mode Change	2R3	4	0	3,897,730:00:0	
938	97	94	05:14:54.866		DMS:	: *AT_SPD	R806, TRACK 2, REV, TIC 5167.78 +/- 1	2R3	4	0	3,897,730:00:7	
939	97	94	05:14:54.866		DMS:	**: *RECORD**	R806, TRACK 2, REV, TIC *5167.78 +/-	2R3	4	0	3,897,730:00:7	
940	97	94	05:14:57.066	175IN422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,897,730:04:0	
941	97	94	05:14:57.066		DMS:	**: *RUNDOWN**	R806, TRACK 2, REV, TIC *5113.64 +/- 1	2R3	4	0	3,897,730:04:0	
942	**97**	**94**	**05:15:59.066**	**G7JNFEX00203-**		**-----START------**		**2R3**	**4**	**0**	**: :**	
943	97	94	05:16:54.400	165EG4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,897,731:89:0	
944	97	94	05:16:55.066	165EG4B	7SCAN	NORM,309.0,-17.9	Check S/P Position	2R3	4	0	3,897,731:90:0	
945	97	94	05:19:53.066	127EG	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	3,897,734:84:0	
946	**97**	**94**	**05:19:53.066**	**127EG4A**	**37IOP**	**5,1**	**Short Map, Grating Start Position =01**	**2R5**	**4**	**1**	**3,897,734:84:0**	
947	**97**	**94**	**05:19:53.733**	**127EG4B**	**37ETB**	**,CD,02,00,00,05,**	**Loads wavelength edit table**	**2R5**	**4**	**1**	**3,897,734:85:0**	
948	97	94	05:20:01.733	127EG11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R5	4	1	3,897,735:06:0	
949	97	94	05:20:42.400	488AU6C	6TMSED	FILL,CL3	Sci, Eng, and D/L Chan	2R5	4	1	3,897,735:67:0	
950	97	94	05:20:45.733	175EG422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,897,735:72:0	
951	97	94	05:20:49.066	117EG	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,897,735:77:0	
952	97	94	05:20:53.600		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *5103.55 +/- 1	2R5	4	1	3,897,735:83:8	
953	97	94	05:20:55.000		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *5103.43 +/- 1	2R5	4	1	3,897,735:85:9	
954	97	94	05:20:55.000		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC 5103.43 +/- 1	2R5	4	1	3,897,735:85:9	
955	97	94	05:20:55.066	175EG176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	3,897,735:86:0	
956	**97**	**94**	**05:20:58.390**	**G7JNFEX00203-**	**NIMPBK**	**301EH**	**JUPITER FEATURE TRACK 2 DEG PHAS**	**2R5**	**4**	**1**	**: :**	
957	97	94	05:20:58.400	117EG105A106A4A	**7STRP**	**-0.0108,0.0,0,0,**	**Slew =,0.11**	2R5	4	1	3,897,736:00:0	
958	**97**	**94**	**05:22:38.390**	**G7JNFEX00203-**	**DESELC**	**300EH**	**JUPITER FEATURE TRACK 2 DEG PHAS**	**2R5**	**4**	**1**	**: :**	
959	97	94	05:22:38.400	117EG11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,897,737:59:0	
960	97	94	05:22:49.733	175EG6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,897,737:76:0	
961	97	94	05:22:49.733	175EG422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,897,737:76:0	
962	97	94	05:22:49.733		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *5076.54 +/- 1	2R5	4	1	3,897,737:76:0	
963	**97**	**94**	**05:23:03.733**	**G7JNFEX00203-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**	
964	97	94	05:27:01.066	165GM4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,897,741:89:0	
965	97	94	05:27:01.733	165GM4B	7SCAN	NORM,335.519997,	Check S/P Position	2R5	4	1	3,897,741:90:0	
966	97	94	05:30:06.400	117GM	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,897,745:03:0	
967	97	94	05:30:14.400	165GM4C	7VECT		Inert vect update UTC	2R5	4	1	3,897,745:15:0	
968	97	94	05:30:15.066	165GM4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	2R5	4	1	3,897,745:16:0	
969	97	94	05:30:15.733	117GM105A106A4A	7STRP	-0.020203,-0.001	Slew =,0.04	2R5	4	1	3,897,745:17:0	
970	97	94	05:30:15.733	176GM6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R5	4	1	3,897,745:17:0	
971	97	94	05:38:42.400	117GM105A106A4B	7STRP	0.020203,0.0035,	Slew =10.41	2R5	4	1	3,897,753:49:0	
972	97	94	05:38:47.733	117GM105A106A4C	7STRP	-0.020203,-0.001	Slew =,0.04	2R5	4	1	3,897,753:57:0	
973	97	94	05:42:58.933		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *5077.89 +/- 1	2R5	4	1	3,897,757:69:8	
974	97	94	05:43:00.333		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *5077.77 +/- 1	2R5	4	1	3,897,757:71:9	
975	97	94	05:43:15.733		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *5074.16 +/- 1	2R5	4	1	3,897,758:04:0	
976	97	94	05:43:35.733		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *5069.48 +/- 1	2R5	4	1	3,897,758:34:0	
977	97	94	05:47:14.400	117GM11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,897,761:89:0	
978	97	94	05:47:43.733	176GM6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,897,762:42:0	
979	97	94	05:47:53.600		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *5070.83 +/- 1	2R5	4	1	3,897,762:56:8	
980	97	94	05:47:55.000		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *5070.71 +/- 1	2R5	4	1	3,897,762:58:9	
981	97	94	05:47:55.733		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *5070.54 +/- 1	2R5	4	1	3,897,762:60:0	
982	97	94	05:48:07.066		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *5067.88 +/- 1	2R5	4	1	3,897,762:77:0	
983	**97**	**94**	**05:48:20.400**	**G7ENTYREMA01-**		**-----START------**		**2R5**	**4**	**1**	**: :**	
984	97	94	05:49:15.733	165EH4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,897,763:89:0	
985	97	94	05:49:16.400	165EH4B	7SCAN	NORM,353.117996,	Check S/P Position	2R5	4	1	3,897,763:90:0	
986	97	94	05:52:14.400	127EH	NIMSTAB	GS	%%%%% GROUP START TAB	2R5	4	1	3,897,766:84:0	
987	**97**	**94**	**05:52:14.400**	**127EH4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**3,897,766:84:0**	
988	**97**	**94**	**05:52:15.066**	**127EH4B**	**37ETB**	**04,C4,35,FF,FF**	**Loads wavelength edit table**	**2R3**	**4**	**0**	**3,897,766:85:0**	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
989	97	94	05:52:23.066	127EH11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	3,897,767:06:0	
990	97	94	05:52:46.400	488AU6D	6TMSED	NORM,CL3	Sci, Eng, and D/L Chan	2R3	4	0	3,897,767:41:0	
991	97	94	05:53:04.400	175EH422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	2R3	4	0	3,897,767:68:0	
992	97	94	05:53:10.400	117EH	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	3,897,767:77:0	
993	97	94	05:53:12.266		DMS:	: *RUNUP	R28, TRACK *2, *REV, TIC *5069.24 +/- 1	2R3	4	0	3,897,767:79:8	
994	97	94	05:53:16.266		DMS:	**: *RECORD**	R28, TRACK 2, REV, TIC *5067.74 +/- 1	2R3	4	0	3,897,767:85:8	
995	97	94	05:53:16.266		DMS:	: *AT_SPD	R28, TRACK 2, REV, TIC 5067.74 +/- 1	2R3	4	0	3,897,767:85:8	
996	97	94	05:53:16.400	175EH176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	2R3	4	0	3,897,767:86:0	
997	97	94	05:53:18.400	165EH4C	7VECT		Inert vect update UTC	2R3	4	0	3,897,767:89:0	
998	97	94	05:53:19.066	165EH4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	2R3	4	0	3,897,767:90:0	
999	97	94	05:53:19.733	117EH105A106A4A	**7STRP**	**0.014501,0.0,0,0**	**Slew =,0.03**	2R3	4	0	3,897,768:00:0	
1000	**97**	**94**	**05:54:50.389**	**G7ENTYREMA01-**	**NIMPBK**	**301EI**	**EUROPA TYRE MACULA REGION**	**2R3**	**4**	**0**	**: :**	
1001	**97**	**94**	**05:57:15.723**	**G7ENTYREMA01-**	**NIMPBK**	**301KA**	**EUROPA TYRE MACULA REGION**	**2R3**	**4**	**0**	**: :**	
1002	**97**	**94**	**05:57:24.389**	**G7ENTYREMA01-**	**DESELC**	**300EI**	**EUROPA TYRE MACULA REGION**	**2R3**	**4**	**0**	**: :**	
1003	**97**	**94**	**06:01:25.056**	**G7ENTYREMA01-**	**DESELC**	**300KA**	**EUROPA TYRE MACULA REGION**	**2R3**	**4**	**0**	**: :**	
1004	97	94	06:01:25.066	117EH105A106A4B	**7STRP**	**-0.014501,0.007,**	**Slew =,3.71**	2R3	4	0	3,897,776:00:0	
1005	**97**	**94**	**06:01:38.389**	**G7ENTYREMA01-**	**NIMPBK**	**301EB**	**EUROPA TYRE MACULA REGION**	**2R3**	**4**	**0**	**: :**	
1006	97	94	06:01:38.400	117EH105A106A4C	**7STRP**	**0.014501,0.0,0,0**	**Slew =,0.03**	2R3	4	0	3,897,776:20:0	
1007	**97**	**94**	**06:05:29.723**	**G7ENTYREMA01-**	**NIMPBK**	**301FH**	**EUROPA TYRE MACULA REGION**	**2R3**	**4**	**0**	**: :**	
1008	**97**	**94**	**06:05:38.389**	**G7ENTYREMA01-**	**DESELC**	**300EB**	**EUROPA TYRE MACULA REGION**	**2R3**	**4**	**0**	**: :**	
1009	**97**	**94**	**06:08:21.056**	**G7ENTYREMA01-**	**DESELC**	**300FH**	**EUROPA TYRE MACULA REGION**	**2R3**	**4**	**0**	**: :**	
1010	97	94	06:09:43.733	117EH11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	3,897,784:20:0	
1011	97	94	06:09:45.066	175EH422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,897,784:22:0	
1012	97	94	06:09:45.066		DMS:	**: *RUNDOWN**	R28, TRACK 2, REV, TIC *4198.68 +/- 1	2R3	4	0	3,897,784:22:0	
1013	**97**	**94**	**06:10:35.066**	**G7ENTYREMA01-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**	
1014	97	94	06:11:30.400	165IO4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,897,785:89:0	
1015	97	94	06:11:31.066	165IO4B	7SCAN	NORM,7.174,2.165	Check S/P Position	2R3	4	0	3,897,785:90:0	
1016	97	94	06:13:31.733	165IO4C	7VECT		Inert vect update UTC	2R3	4	0	3,897,787:89:0	
1017	97	94	06:13:32.400	165IO4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	2R3	4	0	3,897,787:90:0	
1018	97	94	06:13:37.066	118IO	**SMOS**	GS		2R3	4	0	3,897,788:06:0	
1019	97	94	06:13:48.400	175IO422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	2R3	4	0	3,897,788:23:0	
1020	97	94	06:13:56.266		DMS:	: *RUNUP	R806, TRACK *2, *REV, TIC *4199.79 +/- 1	2R3	4	0	3,897,788:34:8	
1021	97	94	06:14:01.066	175IO176A6A	6TMREC	AI8	806.4 KBPS SSI RECORD Record Mode Change	2R3	4	0	3,897,788:42:0	
1022	97	94	06:14:01.533		DMS:	**: *RECORD**	R806, TRACK 2, REV, TIC *4133.79 +/- 1	2R3	4	0	3,897,788:42:7	
1023	97	94	06:14:01.533		DMS:	: *AT_SPD	R806, TRACK 2, REV, TIC 4133.79 +/- 1	2R3	4	0	3,897,788:42:7	
1024	97	94	06:14:01.733	118IO110A111A4A	7STRP	-0.0005,0.0062,7	Slew =,1.01	2R3	4	0	3,897,788:43:0	
1025	97	94	06:14:03.733	175IO422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,897,788:46:0	
1026	97	94	06:14:03.733		DMS:	**: *RUNDOWN**	R806, TRACK 2, REV, TIC *4079.65 +/- 1	2R3	4	0	3,897,788:46:0	
1027	97	94	06:18:09.733	175IP422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	2R3	4	0	3,897,792:51:0	
1028	97	94	06:18:17.600		DMS:	: *RUNUP	R806, TRACK *2, *REV, TIC *4069.56 +/- 1	2R3	4	0	3,897,792:62:8	
1029	97	94	06:18:22.400	175IP176A6A	6TMREC	AI8	806.4 KBPS SSI RECORD Record Mode Change	2R3	4	0	3,897,792:70:0	
1030	97	94	06:18:22.866		DMS:	: *AT_SPD	R806, TRACK 2, REV, TIC 4003.56 +/- 2	2R3	4	0	3,897,792:70:7	
1031	97	94	06:18:22.866		DMS:	**: *RECORD**	R806, TRACK 2, REV, TIC *4003.56 +/- 1	2R3	4	0	3,897,792:70:7	
1032	97	94	06:18:25.066		DMS:	**: *RUNDOWN**	R806, TRACK 2, REV, TIC *3949.42 +/- 2	2R3	4	0	3,897,792:74:0	
1033	97	94	06:18:25.066	175IP422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,897,792:74:0	
1034	97	94	06:22:31.066	175IQ422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	2R3	4	0	3,897,796:79:0	
1035	97	94	06:22:38.933		DMS:	: *RUNUP	R806, TRACK *2, *REV, TIC *3939.34 +/- 2	2R3	4	0	3,897,796:90:8	
1036	97	94	06:22:43.733	175IQ176A6A	6TMREC	AI8	806.4 KBPS SSI RECORD Record Mode Change	2R3	4	0	3,897,797:07:0	
1037	97	94	06:22:44.200		DMS:	: *AT_SPD	R806, TRACK 2, REV, TIC 3873.34 +/- 2	2R3	4	0	3,897,797:07:7	
1038	97	94	06:22:44.200		DMS:	**: *RECORD**	R806, TRACK 2, REV, TIC *3873.34 +/- 2	2R3	4	0	3,897,797:07:7	
1039	97	94	06:22:46.400	175IQ422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,897,797:11:0	
1040	97	94	06:22:46.400		DMS:	**: *RUNDOWN**	R806, TRACK 2, REV, TIC *3819.20 +/- 2	2R3	4	0	3,897,797:11:0	
1041	97	94	06:26:52.400	175JX422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	2R3	4	0	3,897,801:16:0	
1042	97	94	06:27:00.266		DMS:	: *RUNUP	R806, TRACK *2, *REV, TIC *3809.11 +/- 2	2R3	4	0	3,897,801:27:8	
1043	97	94	06:27:05.066	175JX176A6A	6TMREC	AI8	806.4 KBPS SSI RECORD Record Mode Change	2R3	4	0	3,897,801:35:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1044	97	94	06:27:05.533		DMS:	: *AT_SPD	R806, TRACK 2, REV, TIC 3743.11 +/- 3	2R3	4	0	3,897,801:35:7	
1045	97	94	06:27:05.533		DMS:	**: *RECORD**	R806, TRACK 2, REV, TIC *3743.11 +/- 2	2R3	4	0	3,897,801:35:7	
1046	97	94	06:27:07.733	175JX422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,897,801:39:0	
1047	97	94	06:27:07.733		DMS:	**: *RUNDOWN**	R806, TRACK 2, REV, TIC *3688.97 +/- 3	2R3	4	0	3,897,801:39:0	
1048	97	94	06:31:13.733	175JY422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	2R3	4	0	3,897,805:44:0	
1049	97	94	06:31:21.600		DMS:	: *RUNUP	R806, TRACK *2, *REV, TIC *3678.88 +/- 3	2R3	4	0	3,897,805:55:8	
1050	97	94	06:31:26.400	175JY176A6A	6TMREC	AI8	806.4 KBPS SSI RECORD Record Mode Change	2R3	4	0	3,897,805:63:0	
1051	97	94	06:31:26.866		DMS:	**: *RECORD**	R806, TRACK 2, REV, TIC *3612.88 +/- 3	2R3	4	0	3,897,805:63:7	
1052	97	94	06:31:26.866		DMS:	: *AT_SPD	R806, TRACK 2, REV, TIC 3612.88 +/- 3	2R3	4	0	3,897,805:63:7	
1053	97	94	06:31:27.066	118IO11A	**SMOS**	GE		2R3	4	0	3,897,805:64:0	
1054	97	94	06:31:29.066		DMS:	**: *RUNDOWN**	R806, TRACK 2, REV, TIC *3558.74 +/- 3	2R3	4	0	3,897,805:67:0	
1055	97	94	06:31:29.066	175JY422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,897,805:67:0	
1056	97	94	06:31:45.733	165GN4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,897,806:01:0	
1057	97	94	06:31:46.400	165GN4B	7SCAN	NORM,22.003,8.80	Check S/P Position	2R3	4	0	3,897,806:02:0	
1058	97	94	06:33:37.066	117GN	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	3,897,807:77:0	
1059	97	94	06:33:45.066	165GN4C	7VECT		Inert vect update UTC	2R3	4	0	3,897,807:89:0	
1060	97	94	06:33:45.733	165GN4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	2R3	4	0	3,897,807:90:0	
1061	97	94	06:33:46.400	176GN6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R3	4	0	3,897,808:00:0	
1062	97	94	06:33:46.400	117GN105A106A4A	7STRP	-0.022504,0.0,0,	Slew =,0.04	2R3	4	0	3,897,808:00:0	
1063	97	94	06:43:10.400	117GN105A106A4B	7STRP	0.023004,0.00125	Slew =11.81	2R3	4	0	3,897,817:27:0	
1064	97	94	06:43:15.733	117GN105A106A4C	7STRP	-0.022504,0.0,0,	Slew =,0.04	2R3	4	0	3,897,817:35:0	
1065	97	94	06:46:29.600		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *3548.66 +/- 3	2R3	4	0	3,897,820:52:8	
1066	97	94	06:46:31.000		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *3548.54 +/- 3	2R3	4	0	3,897,820:54:9	
1067	97	94	06:46:46.400		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *3544.93 +/- 3	2R3	4	0	3,897,820:78:0	
1068	97	94	06:47:06.400		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *3540.24 +/- 3	2R3	4	0	3,897,821:17:0	
1069	97	94	06:52:39.733	176GN6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	3,897,826:62:0	
1070	97	94	06:52:39.733	117GN11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	3,897,826:62:0	
1071	97	94	06:52:49.600		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *3541.60 +/- 3	2R3	4	0	3,897,826:76:8	
1072	97	94	06:52:51.000		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *3541.48 +/- 3	2R3	4	0	3,897,826:78:9	
1073	97	94	06:52:51.733		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *3541.30 +/- 3	2R3	4	0	3,897,826:80:0	
1074	97	94	06:53:04.400		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *3538.34 +/- 3	2R3	4	0	3,897,827:08:0	
1075	97	94	06:55:59.733	165GO4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,897,829:89:0	
1076	97	94	06:56:00.400	165GO4B	7SCAN	NORM,34.521,16.6	Check S/P Position	2R3	4	0	3,897,829:90:0	
1077	97	94	06:56:52.400	117GO	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	3,897,830:77:0	
1078	97	94	06:57:00.400	165GO4C	7VECT		Inert vect update UTC	2R3	4	0	3,897,830:89:0	
1079	97	94	06:57:01.066	165GO4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	2R3	4	0	3,897,830:90:0	
1080	97	94	06:57:01.733	117GO105A106A4A	7STRP	0.030009,0.0,0,0	Slew =,0.81	2R3	4	0	3,897,831:00:0	
1081	97	94	06:57:01.733	176GO6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R3	4	0	3,897,831:00:0	
1082	97	94	06:57:41.733	117GO105A106A4B	7STRP	-0.030319,0.0017	Slew =12.01	2R3	4	0	3,897,831:60:0	
1083	97	94	06:57:47.066	117GO105A106A4C	7STRP	0.030009,0.0,0,0	Slew =,0.81	2R3	4	0	3,897,831:68:0	
1084	97	94	06:58:27.066	117GO105A106A4D	7STRP	-0.030319,0.0017	Slew =12.01	2R3	4	0	3,897,832:37:0	
1085	97	94	06:58:32.400	117GO105A106A4E	7STRP	0.030009,0.0,0,0	Slew =,0.81	2R3	4	0	3,897,832:45:0	
1086	97	94	06:59:12.400	117GO105A106A4F	7STRP	-0.030319,0.0017	Slew =12.01	2R3	4	0	3,897,833:14:0	
1087	97	94	06:59:17.733	117GO105A106A4G	7STRP	0.030009,0.0,0,0	Slew =,0.81	2R3	4	0	3,897,833:22:0	
1088	97	94	06:59:57.733	117GO105A106A4H	7STRP	-0.030319,0.0017	Slew =12.01	2R3	4	0	3,897,833:82:0	
1089	97	94	06:59:59.733	481AC4A	7VECT	BB1	Inert vect update UTC	2R3	4	0	3,897,833:85:0	
1090	97	94	07:00:03.066	117GO105A106A4I	7STRP	0.030009,0.0,0,0	Slew =,0.81	2R3	4	0	3,897,833:90:0	
1091	97	94	07:00:43.066	117GO105A106A4J	7STRP	-0.030319,0.0017	Slew =12.01	2R3	4	0	3,897,834:59:0	
1092	97	94	07:00:48.400	117GO105A106A4K	7STRP	0.030009,0.0,0,0	Slew =,0.81	2R3	4	0	3,897,834:67:0	
1093	97	94	07:01:28.400	117GO105A106A4L	7STRP	-0.030319,0.0017	Slew =12.01	2R3	4	0	3,897,835:36:0	
1094	97	94	07:01:33.733	117GO105A106A4M	7STRP	0.030009,0.0,0,0	Slew =,0.81	2R3	4	0	3,897,835:44:0	
1095	97	94	07:02:13.733	117GO105A106A4N	7STRP	-0.030319,0.0017	Slew =12.01	2R3	4	0	3,897,836:13:0	
1096	97	94	07:02:19.066	117GO105A106A4O	7STRP	0.030009,0.0,0,0	Slew =,0.81	2R3	4	0	3,897,836:21:0	
1097	97	94	07:02:59.066	117GO105A106A4P	7STRP	-0.030319,0.0017	Slew =12.01	2R3	4	0	3,897,836:81:0	
1098	97	94	07:03:04.400	117GO105A106A4Q	7STRP	0.030009,0.0,0,0	Slew =,0.81	2R3	4	0	3,897,836:89:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1099	97	94	07:03:44.400	117GO105A106A4R	7STRP	-0.030319,0.0017	Slew =12.01	2R3	4	0	3,897,837	58:0
1100	97	94	07:03:49.733	117GO105A106A4S	7STRP	0.030009,0.0,0,0	Slew =,0.81	2R3	4	0	3,897,837	66:0
1101	97	94	07:04:29.733	117GO105A106A4T	7STRP	-0.030319,0.0017	Slew =12.01	2R3	4	0	3,897,838	35:0
1102	97	94	07:04:35.066	117GO105A106A4U	7STRP	0.030009,0.0,0,0	Slew =,0.81	2R3	4	0	3,897,838	43:0
1103	97	94	07:05:15.066	117GO105A106A4V	7STRP	-0.030319,0.0017	Slew =12.01	2R3	4	0	3,897,839	12:0
1104	97	94	07:05:20.400	117GO105A106A4W	7STRP	0.030009,0.0,0,0	Slew =,0.81	2R3	4	0	3,897,839	20:0
1105	97	94	07:06:00.400	117GO105A106A4X	7STRP	-0.030319,0.0017	Slew =12.01	2R3	4	0	3,897,839	80:0
1106	97	94	07:06:05.733	117GO105A106A4Y	7STRP	0.030009,0.0,0,0	Slew =,0.81	2R3	4	0	3,897,839	88:0
1107	97	94	07:06:45.733	117GO105A106A4Z	7STRP	-0.030319,0.0017	Slew =12.01	2R3	4	0	3,897,840	57:0
1108	97	94	07:06:51.066	117GO105A106A4AA	7STRP	0.030009,0.0,0,0	Slew =,0.81	2R3	4	0	3,897,840	65:0
1109	97	94	07:07:31.066	117GO105A106A4AB	7STRP	-0.030319,0.0017	Slew =12.01	2R3	4	0	3,897,841	34:0
1110	97	94	07:07:36.400	117GO105A106A4AC	7STRP	0.030009,0.0,0,0	Slew =,0.81	2R3	4	0	3,897,841	42:0
1111	97	94	07:08:16.400	117GO105A106A4AD	7STRP	-0.030319,0.0017	Slew =12.01	2R3	4	0	3,897,842	11:0
1112	97	94	07:08:21.733	117GO105A106A4AE	7STRP	0.030009,0.0,0,0	Slew =,0.81	2R3	4	0	3,897,842	19:0
1113	97	94	07:09:01.733	117GO105A106A4AF	7STRP	-0.030319,0.0017	Slew =12.01	2R3	4	0	3,897,842	79:0
1114	97	94	07:09:07.066	117GO105A106A4AG	7STRP	0.030009,0.0,0,0	Slew =,0.81	2R3	4	0	3,897,842	87:0
1115	97	94	07:09:44.933		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *3539.69 +/- 3	2R3	4	0	3,897,843	52:8
1116	97	94	07:09:46.333		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *3539.57 +/- 3	2R3	4	0	3,897,843	54:9
1117	97	94	07:09:47.066	117GO105A106A4AH	7STRP	-0.030319,0.0017	Slew =12.01	2R3	4	0	3,897,843	56:0
1118	97	94	07:09:52.400	117GO105A106A4AI	7STRP	0.030009,0.0,0,0	Slew =,0.81	2R3	4	0	3,897,843	64:0
1119	97	94	07:10:01.733		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *3535.96 +/- 3	2R3	4	0	3,897,843	78:0
1120	97	94	07:10:21.733		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *3531.27 +/- 3	2R3	4	0	3,897,844	17:0
1121	97	94	07:10:32.400	117GO105A106A4AJ	7STRP	-0.030319,0.0017	Slew =12.01	2R3	4	0	3,897,844	33:0
1122	97	94	07:10:37.733	117GO105A106A4AK	7STRP	0.030009,0.0,0,0	Slew =,0.81	2R3	4	0	3,897,844	41:0
1123	97	94	07:11:17.733	117GO105A106A4AL	7STRP	-0.030319,0.0017	Slew =12.01	2R3	4	0	3,897,845	10:0
1124	97	94	07:11:23.066	117GO105A106A4AM	7STRP	0.030009,0.0,0,0	Slew =,0.81	2R3	4	0	3,897,845	18:0
1125	97	94	07:12:03.066	117GO105A106A4AN	7STRP	-0.030319,0.0017	Slew =12.01	2R3	4	0	3,897,845	78:0
1126	97	94	07:12:08.400	117GO105A106A4AO	7STRP	0.030009,0.0,0,0	Slew =,0.81	2R3	4	0	3,897,845	86:0
1127	97	94	07:12:48.400	117GO105A106A4AP	7STRP	-0.030319,0.0017	Slew =12.01	2R3	4	0	3,897,846	55:0
1128	97	94	07:12:53.733	117GO105A106A4AQ	7STRP	0.030009,0.0,0,0	Slew =,0.81	2R3	4	0	3,897,846	63:0
1129	97	94	07:13:33.733	117GO105A106A4AR	7STRP	-0.030319,0.0017	Slew =12.01	2R3	4	0	3,897,847	32:0
1130	97	94	07:13:39.066	117GO105A106A4AS	7STRP	0.030009,0.0,0,0	Slew =,0.81	2R3	4	0	3,897,847	40:0
1131	97	94	07:14:19.066	117GO105A106A4AT	7STRP	-0.030319,0.0017	Slew =12.01	2R3	4	0	3,897,848	09:0
1132	97	94	07:14:24.400	117GO105A106A4AU	7STRP	0.030009,0.0,0,0	Slew =,0.81	2R3	4	0	3,897,848	17:0
1133	97	94	07:15:04.400	117GO105A106A4AV	7STRP	-0.030319,0.0017	Slew =12.01	2R3	4	0	3,897,848	77:0
1134	97	94	07:15:09.733	117GO105A106A4AW	7STRP	0.030009,0.0,0,0	Slew =,0.81	2R3	4	0	3,897,848	85:0
1135	97	94	07:15:49.733	117GO105A106A4AX	7STRP	-0.030319,0.0017	Slew =12.01	2R3	4	0	3,897,849	54:0
1136	97	94	07:15:55.066	117GO105A106A4AY	7STRP	0.030009,0.0,0,0	Slew =,0.81	2R3	4	0	3,897,849	62:0
1137	97	94	07:16:35.066	117GO105A106A4AZ	7STRP	-0.030319,0.0017	Slew =12.01	2R3	4	0	3,897,850	31:0
1138	97	94	07:16:40.400	117GO105A106A4BA	7STRP	0.030009,0.0,0,0	Slew =,0.81	2R3	4	0	3,897,850	39:0
1139	97	94	07:17:20.400	117GO105A106A4BB	7STRP	-0.030319,0.0017	Slew =12.01	2R3	4	0	3,897,851	08:0
1140	97	94	07:17:25.733	117GO105A106A4BC	7STRP	0.030009,0.0,0,0	Slew =,0.81	2R3	4	0	3,897,851	16:0
1141	97	94	07:18:05.733	117GO105A106A4BD	7STRP	-0.030319,0.0017	Slew =12.01	2R3	4	0	3,897,851	76:0
1142	97	94	07:18:11.066	117GO105A106A4BE	7STRP	0.030009,0.0,0,0	Slew =,0.81	2R3	4	0	3,897,851	84:0
1143	97	94	07:18:51.066	117GO105A106A4BF	7STRP	-0.030319,0.0017	Slew =12.01	2R3	4	0	3,897,852	53:0
1144	97	94	07:18:56.400	117GO105A106A4BG	7STRP	0.030009,0.0,0,0	Slew =,0.81	2R3	4	0	3,897,852	61:0
1145	97	94	07:19:36.400	117GO105A106A4BH	7STRP	-0.030319,0.0017	Slew =12.01	2R3	4	0	3,897,853	30:0
1146	97	94	07:19:41.733	117GO105A106A4BI	7STRP	0.030009,0.0,0,0	Slew =,0.81	2R3	4	0	3,897,853	38:0
1147	97	94	07:20:21.733	117GO105A106B4A	7STRP	-0.029308,0.0014	Slew =12.01	2R3	4	0	3,897,854	07:0
1148	97	94	07:20:27.066	117GO105A106B4B	7STRP	0.029509,0.0,0,0	Slew =,0.81	2R3	4	0	3,897,854	15:0
1149	97	94	07:21:07.066	117GO105A106B4C	7STRP	-0.029308,0.0014	Slew =12.01	2R3	4	0	3,897,854	75:0
1150	97	94	07:21:12.400	117GO105A106B4D	7STRP	0.029509,0.0,0,0	Slew =,0.81	2R3	4	0	3,897,854	83:0
1151	97	94	07:21:52.400	117GO105A106B4E	7STRP	-0.029308,0.0014	Slew =12.01	2R3	4	0	3,897,855	52:0
1152	97	94	07:21:57.733	117GO105A106B4F	7STRP	0.029509,0.0,0,0	Slew =,0.81	2R3	4	0	3,897,855	60:0
1153	97	94	07:22:37.733	117GO105A106B4G	7STRP	-0.029308,0.0014	Slew =12.01	2R3	4	0	3,897,856	29:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1154	97	94	07:22:43.066	117GO105A106B4H	7STRP	0.029509,0.0,0,0	Slew =,0.81	2R3	4	0	3,897,856	37:0
1155	97	94	07:22:46.933		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *3532.63 +/- 3	2R3	4	0	3,897,856	42:8
1156	97	94	07:22:48.333		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *3532.51 +/- 3	2R3	4	0	3,897,856	44:9
1157	97	94	07:23:03.733		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *3528.90 +/- 3	2R3	4	0	3,897,856	68:0
1158	97	94	07:23:23.066	117GO105A106B4I	7STRP	-0.029308,0.0014	Slew =12.01	2R3	4	0	3,897,857	06:0
1159	97	94	07:23:23.733		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *3524.21 +/- 3	2R3	4	0	3,897,857	07:0
1160	97	94	07:23:28.400	117GO105A106B4J	7STRP	0.029509,0.0,0,0	Slew =,0.81	2R3	4	0	3,897,857	14:0
1161	97	94	07:24:08.400	117GO105A106B4K	7STRP	-0.029308,0.0014	Slew =12.01	2R3	4	0	3,897,857	74:0
1162	97	94	07:24:13.733	117GO105A106B4L	7STRP	0.029509,0.0,0,0	Slew =,0.81	2R3	4	0	3,897,857	82:0
1163	97	94	07:24:53.733	117GO105A106B4M	7STRP	-0.029308,0.0014	Slew =12.01	2R3	4	0	3,897,858	51:0
1164	97	94	07:24:59.066	117GO105A106B4N	7STRP	0.029509,0.0,0,0	Slew =,0.81	2R3	4	0	3,897,858	59:0
1165	97	94	07:25:39.066	117GO105A106B4O	7STRP	-0.029308,0.0014	Slew =12.01	2R3	4	0	3,897,859	28:0
1166	97	94	07:25:44.400	117GO105A106B4P	7STRP	0.029509,0.0,0,0	Slew =,0.81	2R3	4	0	3,897,859	36:0
1167	97	94	07:26:24.400	117GO105A106B4Q	7STRP	-0.029308,0.0014	Slew =12.01	2R3	4	0	3,897,860	05:0
1168	97	94	07:26:29.733	117GO105A106B4R	7STRP	0.029509,0.0,0,0	Slew =,0.81	2R3	4	0	3,897,860	13:0
1169	97	94	07:27:09.733	117GO105A106B4S	7STRP	-0.029308,0.0014	Slew =12.01	2R3	4	0	3,897,860	73:0
1170	97	94	07:27:15.066	117GO105A106B4T	7STRP	0.029509,0.0,0,0	Slew =,0.81	2R3	4	0	3,897,860	81:0
1171	97	94	07:27:55.066	117GO105A106B4U	7STRP	-0.029308,0.0014	Slew =12.01	2R3	4	0	3,897,861	50:0
1172	97	94	07:28:00.400	117GO105A106B4V	7STRP	0.029509,0.0,0,0	Slew =,0.81	2R3	4	0	3,897,861	58:0
1173	97	94	07:28:40.400	117GO105A106B4W	7STRP	-0.029308,0.0014	Slew =12.01	2R3	4	0	3,897,862	27:0
1174	97	94	07:28:45.733	117GO105A106B4X	7STRP	0.029509,0.0,0,0	Slew =,0.81	2R3	4	0	3,897,862	35:0
1175	97	94	07:29:25.733	117GO105A106B4Y	7STRP	-0.029308,0.0014	Slew =12.01	2R3	4	0	3,897,863	04:0
1176	97	94	07:29:31.066	117GO105A106B4Z	7STRP	0.029509,0.0,0,0	Slew =,0.81	2R3	4	0	3,897,863	12:0
1177	97	94	07:30:11.066	117GO105A106B4AA	7STRP	-0.029308,0.0014	Slew =12.01	2R3	4	0	3,897,863	72:0
1178	97	94	07:30:16.400	117GO105A106B4AB	7STRP	0.029509,0.0,0,0	Slew =,0.81	2R3	4	0	3,897,863	80:0
1179	97	94	07:30:56.400	117GO105A106B4AC	7STRP	-0.029308,0.0014	Slew =12.01	2R3	4	0	3,897,864	49:0
1180	97	94	07:31:01.733	117GO105A106B4AD	7STRP	0.029509,0.0,0,0	Slew =,0.81	2R3	4	0	3,897,864	57:0
1181	97	94	07:31:41.733	117GO105A106B4AE	7STRP	-0.029308,0.0014	Slew =12.01	2R3	4	0	3,897,865	26:0
1182	97	94	07:31:47.066	117GO105A106B4AF	7STRP	0.029509,0.0,0,0	Slew =,0.81	2R3	4	0	3,897,865	34:0
1183	97	94	07:32:27.066	117GO105A106B4AG	7STRP	-0.029308,0.0014	Slew =12.01	2R3	4	0	3,897,866	03:0
1184	97	94	07:32:32.400	117GO105A106B4AH	7STRP	0.029509,0.0,0,0	Slew =,0.81	2R3	4	0	3,897,866	11:0
1185	97	94	07:33:12.400	117GO105A106B4AI	7STRP	-0.029308,0.0014	Slew =12.01	2R3	4	0	3,897,866	71:0
1186	97	94	07:33:17.733	117GO105A106B4AJ	7STRP	0.029509,0.0,0,0	Slew =,0.81	2R3	4	0	3,897,866	79:0
1187	97	94	07:33:57.733	117GO105A106B4AK	7STRP	-0.029308,0.0014	Slew =12.01	2R3	4	0	3,897,867	48:0
1188	97	94	07:34:03.066	117GO105A106B4AL	7STRP	0.029509,0.0,0,0	Slew =,0.81	2R3	4	0	3,897,867	56:0
1189	97	94	07:34:43.066	117GO105A106B4AM	7STRP	-0.029308,0.0014	Slew =12.01	2R3	4	0	3,897,868	25:0
1190	97	94	07:34:48.400	117GO105A106B4AN	7STRP	0.029509,0.0,0,0	Slew =,0.81	2R3	4	0	3,897,868	33:0
1191	97	94	07:35:28.400	117GO105A106B4AO	7STRP	-0.029308,0.0014	Slew =12.01	2R3	4	0	3,897,869	02:0
1192	97	94	07:35:33.733	117GO105A106B4AP	7STRP	0.029509,0.0,0,0	Slew =,0.81	2R3	4	0	3,897,869	10:0
1193	97	94	07:35:48.933		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *3525.56 +/- 3	2R3	4	0	3,897,869	32:8
1194	97	94	07:35:50.333		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *3525.44 +/- 3	2R3	4	0	3,897,869	34:9
1195	97	94	07:36:05.733		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *3521.84 +/- 3	2R3	4	0	3,897,869	58:0
1196	97	94	07:36:13.733	117GO105A106B4AQ	7STRP	-0.029308,0.0014	Slew =12.01	2R3	4	0	3,897,869	70:0
1197	97	94	07:36:19.066	117GO105A106B4AR	7STRP	0.029509,0.0,0,0	Slew =,0.81	2R3	4	0	3,897,869	78:0
1198	97	94	07:36:25.733		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *3517.15 +/- 3	2R3	4	0	3,897,869	88:0
1199	97	94	07:36:59.066	117GO11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	3,897,870	47:0
1200	97	94	07:38:27.733	165GQ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,897,871	89:0
1201	97	94	07:38:28.400	165GQ4B	7SCAN	NORM,50.441,21.1	Check S/P Position	2R3	4	0	3,897,871	90:0
1202	97	94	07:40:45.066	176GO6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	3,897,874	22:0
1203	97	94	07:40:54.933		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *3518.50 +/- 3	2R3	4	0	3,897,874	36:8
1204	97	94	07:40:56.333		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *3518.38 +/- 3	2R3	4	0	3,897,874	38:9
1205	97	94	07:40:57.066		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *3518.21 +/- 3	2R3	4	0	3,897,874	40:0
1206	97	94	07:41:08.400		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *3515.55 +/- 3	2R3	4	0	3,897,874	57:0
1207	97	94	07:42:22.400	117GQ	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	3,897,875	77:0
1208	97	94	07:42:31.733	117GQ105A106A4A	7STRP	0.033012,0.0,0,0	Slew =,0.27	2R3	4	0	3,897,876	00:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1209	97	94	07:42:31.733	176GQ6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R3	4	0	3,897,876	00:0
1210	97	94	07:44:39.733	117GQ105A106A4B	7STRP	-0.041023,0.0011	Slew =12.01	2R3	4	0	3,897,878	10:0
1211	97	94	07:44:46.400	117GQ105A106A4C	7STRP	0.033012,0.0,0,0	Slew =,0.27	2R3	4	0	3,897,878	20:0
1212	97	94	07:46:54.400	117GQ105A106A4D	7STRP	-0.041023,0.0011	Slew =12.01	2R3	4	0	3,897,880	30:0
1213	97	94	07:47:01.066	117GQ105A106A4E	7STRP	0.033012,0.0,0,0	Slew =,0.27	2R3	4	0	3,897,880	40:0
1214	97	94	07:49:09.066	117GQ105A106A4F	7STRP	-0.041023,0.0011	Slew =12.01	2R3	4	0	3,897,882	50:0
1215	97	94	07:49:15.733	117GQ105A106A4G	7STRP	0.033012,0.0,0,0	Slew =,0.27	2R3	4	0	3,897,882	60:0
1216	97	94	07:51:23.733	117GQ105A106A4H	7STRP	-0.041023,0.0011	Slew =12.01	2R3	4	0	3,897,884	70:0
1217	97	94	07:51:30.400	117GQ105A106A4I	7STRP	0.033012,0.0,0,0	Slew =,0.27	2R3	4	0	3,897,884	80:0
1218	97	94	07:53:38.400	117GQ105A106A4J	7STRP	-0.041023,0.0011	Slew =12.01	2R3	4	0	3,897,886	90:0
1219	97	94	07:53:45.066	117GQ105A106A4K	7STRP	0.033012,0.0,0,0	Slew =,0.27	2R3	4	0	3,897,887	09:0
1220	97	94	07:55:53.066	117GQ105A106A4L	7STRP	-0.041023,0.0011	Slew =12.01	2R3	4	0	3,897,889	19:0
1221	97	94	07:55:59.733	117GQ105A106A4M	7STRP	0.033012,0.0,0,0	Slew =,0.27	2R3	4	0	3,897,889	29:0
1222	97	94	07:56:36.933		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *3516.91 +/- 3	2R3	4	0	3,897,889	84:8
1223	97	94	07:56:38.333		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *3516.79 +/- 3	2R3	4	0	3,897,889	86:9
1224	97	94	07:56:53.733		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *3513.18 +/- 3	2R3	4	0	3,897,890	19:0
1225	97	94	07:57:13.733		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *3508.49 +/- 3	2R3	4	0	3,897,890	49:0
1226	97	94	07:58:07.733	117GQ105A106A4N	7STRP	-0.041023,0.0011	Slew =12.01	2R3	4	0	3,897,891	39:0
1227	97	94	07:58:14.400	117GQ105A106A4O	7STRP	0.033012,0.0,0,0	Slew =,0.27	2R3	4	0	3,897,891	49:0
1228	97	94	08:00:22.400	117GQ105A106A4P	7STRP	-0.041023,0.0011	Slew =12.01	2R3	4	0	3,897,893	59:0
1229	97	94	08:00:29.066	117GQ105A106A4Q	7STRP	0.033012,0.0,0,0	Slew =,0.27	2R3	4	0	3,897,893	69:0
1230	97	94	08:02:37.066	117GQ105A106A4R	7STRP	-0.041023,0.0011	Slew =12.01	2R3	4	0	3,897,895	79:0
1231	97	94	08:02:43.733	117GQ105A106A4S	7STRP	0.033012,0.0,0,0	Slew =,0.27	2R3	4	0	3,897,895	89:0
1232	97	94	08:04:51.733	117GQ105A106A4T	7STRP	-0.041023,0.0011	Slew =12.01	2R3	4	0	3,897,898	08:0
1233	97	94	08:04:58.400	117GQ105A106A4U	7STRP	0.033012,0.0,0,0	Slew =,0.27	2R3	4	0	3,897,898	18:0
1234	97	94	08:07:06.400	117GQ105A106A4V	7STRP	-0.041023,0.0011	Slew =12.01	2R3	4	0	3,897,900	28:0
1235	97	94	08:07:13.066	117GQ105A106A4W	7STRP	0.033012,0.0,0,0	Slew =,0.27	2R3	4	0	3,897,900	38:0
1236	97	94	08:09:21.066	117GQ105A106A4X	7STRP	-0.041023,0.0011	Slew =12.01	2R3	4	0	3,897,902	48:0
1237	97	94	08:09:27.733	117GQ105A106A4Y	7STRP	0.033012,0.0,0,0	Slew =,0.27	2R3	4	0	3,897,902	58:0
1238	97	94	08:11:01.600		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *3509.85 +/- 3	2R3	4	0	3,897,904	16:8
1239	97	94	08:11:03.000		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *3509.73 +/- 3	2R3	4	0	3,897,904	18:9
1240	97	94	08:11:18.400		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *3506.12 +/- 3	2R3	4	0	3,897,904	42:0
1241	97	94	08:11:35.733	117GQ105A106A4Z	7STRP	-0.041023,0.0011	Slew =12.01	2R3	4	0	3,897,904	68:0
1242	97	94	08:11:38.400		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *3501.43 +/- 3	2R3	4	0	3,897,904	72:0
1243	97	94	08:11:42.400	117GQ105A106A4AA	7STRP	0.033012,0.0,0,0	Slew =,0.27	2R3	4	0	3,897,904	78:0
1244	97	94	08:13:50.400	117GQ105A106A4AB	7STRP	-0.041023,0.0011	Slew =12.01	2R3	4	0	3,897,906	88:0
1245	97	94	08:13:57.066	117GQ105A106A4AC	7STRP	0.033012,0.0,0,0	Slew =,0.27	2R3	4	0	3,897,907	07:0
1246	97	94	08:16:05.066	117GQ105A106B4A	7STRP	-0.041724,0.001,	Slew =12.01	2R3	4	0	3,897,909	17:0
1247	97	94	08:16:13.066	117GQ105A106B4B	7STRP	0.035615,0.0,0,0	Slew =,0.27	2R3	4	0	3,897,909	29:0
1248	97	94	08:18:30.400	117GQ105A106B4C	7STRP	-0.041724,0.001,	Slew =12.01	2R3	4	0	3,897,911	53:0
1249	97	94	08:18:38.400	117GQ105A106B4D	7STRP	0.035615,0.0,0,0	Slew =,0.27	2R3	4	0	3,897,911	65:0
1250	97	94	08:20:55.733	117GQ105A106B4E	7STRP	-0.041724,0.001,	Slew =12.01	2R3	4	0	3,897,913	89:0
1251	97	94	08:21:03.733	117GQ105A106B4F	7STRP	0.035615,0.0,0,0	Slew =,0.27	2R3	4	0	3,897,914	10:0
1252	97	94	08:23:21.066	117GQ105A106B4G	7STRP	-0.041724,0.001,	Slew =12.01	2R3	4	0	3,897,916	34:0
1253	97	94	08:23:29.066	117GQ105A106B4H	7STRP	0.035615,0.0,0,0	Slew =,0.27	2R3	4	0	3,897,916	46:0
1254	97	94	08:25:26.266		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *3502.78 +/- 3	2R3	4	0	3,897,918	39:8
1255	97	94	08:25:27.666		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *3502.66 +/- 3	2R3	4	0	3,897,918	41:9
1256	97	94	08:25:43.066		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *3499.05 +/- 3	2R3	4	0	3,897,918	65:0
1257	97	94	08:25:46.400	117GQ105A106B4I	7STRP	-0.041724,0.001,	Slew =12.01	2R3	4	0	3,897,918	70:0
1258	97	94	08:25:54.400	117GQ105A106B4J	7STRP	0.035615,0.0,0,0	Slew =,0.27	2R3	4	0	3,897,918	82:0
1259	97	94	08:26:03.066		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *3494.37 +/- 3	2R3	4	0	3,897,919	04:0
1260	97	94	08:28:11.733	117GQ105A106B4K	7STRP	-0.041724,0.001,	Slew =12.01	2R3	4	0	3,897,921	15:0
1261	97	94	08:28:19.733	117GQ105A106B4L	7STRP	0.035615,0.0,0,0	Slew =,0.27	2R3	4	0	3,897,921	27:0
1262	97	94	08:30:37.066	117GQ105A106B4M	7STRP	-0.041724,0.001,	Slew =12.01	2R3	4	0	3,897,923	51:0
1263	97	94	08:30:45.066	117GQ105A106B4N	7STRP	0.035615,0.0,0,0	Slew =,0.27	2R3	4	0	3,897,923	63:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1264	97	94	08:33:02.400	117GQ105A106B4O	7STRP	-0.041724,0.001,	Slew =12.01	2R3	4	0	3,897,925	87:0
1265	97	94	08:33:10.400	117GQ105A106B4P	7STRP	0.035615,0.0,0,0	Slew =,0.27	2R3	4	0	3,897,926	08:0
1266	97	94	08:35:27.733	117GQ105A106B4Q	7STRP	-0.041724,0.001,	Slew =12.01	2R3	4	0	3,897,928	32:0
1267	97	94	08:35:35.733	117GQ105A106B4R	7STRP	0.035615,0.0,0,0	Slew =,0.27	2R3	4	0	3,897,928	44:0
1268	97	94	08:37:53.066	117GQ105A106B4S	7STRP	-0.041724,0.001,	Slew =12.01	2R3	4	0	3,897,930	68:0
1269	97	94	08:38:01.066	117GQ105A106B4T	7STRP	0.035615,0.0,0,0	Slew =,0.27	2R3	4	0	3,897,930	80:0
1270	97	94	08:39:50.933		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *3495.72 +/- 3	2R3	4	0	3,897,932	62:8
1271	97	94	08:39:52.333		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *3495.60 +/- 3	2R3	4	0	3,897,932	64:9
1272	97	94	08:40:07.066		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *3492.15 +/- 3	2R3	4	0	3,897,932	87:0
1273	97	94	08:40:18.400	117GQ105A106B4U	7STRP	-0.041724,0.001,	Slew =12.01	2R3	4	0	3,897,933	13:0
1274	97	94	08:40:26.400	117GQ105A106B4V	7STRP	0.035615,0.0,0,0	Slew =,0.27	2R3	4	0	3,897,933	25:0
1275	97	94	08:40:27.066		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *3487.46 +/- 3	2R3	4	0	3,897,933	26:0
1276	97	94	08:42:43.733	117GQ105A106B4W	7STRP	-0.041724,0.001,	Slew =12.01	2R3	4	0	3,897,935	49:0
1277	97	94	08:42:51.733	117GQ105A106B4X	7STRP	0.035615,0.0,0,0	Slew =,0.27	2R3	4	0	3,897,935	61:0
1278	97	94	08:45:09.066	117GQ105A106B4Y	7STRP	-0.041724,0.001,	Slew =12.01	2R3	4	0	3,897,937	85:0
1279	97	94	08:45:17.066	117GQ105A106B4Z	7STRP	0.035615,0.0,0,0	Slew =,0.27	2R3	4	0	3,897,938	06:0
1280	97	94	08:47:34.400	117GQ105A106C4A	7STRP	-0.038018,0.001,	Slew =12.01	2R3	4	0	3,897,940	30:0
1281	97	94	08:47:41.733	117GQ105A106C4B	7STRP	0.033012,0.0,0,0	Slew =,0.27	2R3	4	0	3,897,940	41:0
1282	97	94	08:49:51.733	117GQ105A106C4C	7STRP	-0.038018,0.001,	Slew =12.01	2R3	4	0	3,897,942	54:0
1283	97	94	08:49:59.066	117GQ105A106C4D	7STRP	0.033012,0.0,0,0	Slew =,0.27	2R3	4	0	3,897,942	65:0
1284	97	94	08:52:09.066	117GQ105A106C4E	7STRP	-0.038018,0.001,	Slew =12.01	2R3	4	0	3,897,944	78:0
1285	97	94	08:52:16.400	117GQ105A106C4F	7STRP	0.033012,0.0,0,0	Slew =,0.27	2R3	4	0	3,897,944	89:0
1286	97	94	08:54:14.933		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *3488.81 +/- 3	2R3	4	0	3,897,946	84:8
1287	97	94	08:54:16.333		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *3488.69 +/- 3	2R3	4	0	3,897,946	86:9
1288	97	94	08:54:26.400	117GQ105A106C4G	7STRP	-0.038018,0.001,	Slew =12.01	2R3	4	0	3,897,947	11:0
1289	97	94	08:54:31.733		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *3485.09 +/- 3	2R3	4	0	3,897,947	19:0
1290	97	94	08:54:33.733	117GQ105A106C4H	7STRP	0.033012,0.0,0,0	Slew =,0.27	2R3	4	0	3,897,947	22:0
1291	97	94	08:54:51.733		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *3480.40 +/- 3	2R3	4	0	3,897,947	49:0
1292	97	94	08:56:43.733	117GQ105A106C4I	7STRP	-0.038018,0.001,	Slew =12.01	2R3	4	0	3,897,949	35:0
1293	97	94	08:56:51.066	117GQ105A106C4J	7STRP	0.033012,0.0,0,0	Slew =,0.27	2R3	4	0	3,897,949	46:0
1294	97	94	08:59:01.066	117GQ105A106C4K	7STRP	-0.038018,0.001,	Slew =12.01	2R3	4	0	3,897,951	59:0
1295	97	94	08:59:08.400	117GQ105A106C4L	7STRP	0.033012,0.0,0,0	Slew =,0.27	2R3	4	0	3,897,951	70:0
1296	97	94	09:01:18.400	117GQ105A106C4M	7STRP	-0.038018,0.001,	Slew =12.01	2R3	4	0	3,897,953	83:0
1297	97	94	09:01:25.733	117GQ105A106C4N	7STRP	0.033012,0.0,0,0	Slew =,0.27	2R3	4	0	3,897,954	03:0
1298	97	94	09:03:35.733	117GQ105A106C4O	7STRP	-0.038018,0.001,	Slew =12.01	2R3	4	0	3,897,956	16:0
1299	97	94	09:03:43.066	117GQ105A106C4P	7STRP	0.033012,0.0,0,0	Slew =,0.27	2R3	4	0	3,897,956	27:0
1300	97	94	09:05:53.066	117GQ105A106C4Q	7STRP	-0.038018,0.001,	Slew =12.01	2R3	4	0	3,897,958	40:0
1301	97	94	09:06:00.400	117GQ105A106C4R	7STRP	0.033012,0.0,0,0	Slew =,0.27	2R3	4	0	3,897,958	51:0
1302	97	94	09:08:10.400	117GQ105A106C4S	7STRP	-0.038018,0.001,	Slew =12.01	2R3	4	0	3,897,960	64:0
1303	97	94	09:08:17.733	117GQ105A106C4T	7STRP	0.033012,0.0,0,0	Slew =,0.27	2R3	4	0	3,897,960	75:0
1304	97	94	09:08:39.600		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *3481.75 +/- 3	2R3	4	0	3,897,961	16:8
1305	97	94	09:08:41.000		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *3481.63 +/- 3	2R3	4	0	3,897,961	18:9
1306	97	94	09:08:56.400		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *3478.02 +/- 3	2R3	4	0	3,897,961	42:0
1307	97	94	09:09:16.400		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *3473.34 +/- 3	2R3	4	0	3,897,961	72:0
1308	97	94	09:10:27.733	117GQ105A106C4U	7STRP	-0.038018,0.001,	Slew =12.01	2R3	4	0	3,897,962	88:0
1309	97	94	09:10:35.066	117GQ105A106C4V	7STRP	0.033012,0.0,0,0	Slew =,0.27	2R3	4	0	3,897,963	08:0
1310	97	94	09:12:45.066	117GQ105A106C4W	7STRP	-0.038018,0.001,	Slew =12.01	2R3	4	0	3,897,965	21:0
1311	97	94	09:12:52.400	117GQ105A106C4X	7STRP	0.033012,0.0,0,0	Slew =,0.27	2R3	4	0	3,897,965	32:0
1312	97	94	09:15:02.400	117GQ105A106C4Y	7STRP	-0.038018,0.001,	Slew =12.01	2R3	4	0	3,897,967	45:0
1313	97	94	09:15:09.733	117GQ105A106C4Z	7STRP	0.033012,0.0,0,0	Slew =,0.27	2R3	4	0	3,897,967	56:0
1314	97	94	09:17:19.733	117GQ11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	3,897,969	69:0
1315	97	94	09:17:20.400	176GQ6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	3,897,969	70:0
1316	97	94	09:17:30.266		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *3474.69 +/- 3	2R3	4	0	3,897,969	84:8
1317	97	94	09:17:31.666		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *3474.57 +/- 3	2R3	4	0	3,897,969	86:9
1318	97	94	09:17:32.400		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *3474.40 +/- 3	2R3	4	0	3,897,969	88:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
1319	97	94	09:17:46.400		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *3471.12 +/- 3	2R3	4	0	3,897,970:18:0
1320	**97**	**94**	**10:48:38.400**	**G7NNHEALTH03-**		**-----START------**		**2R3**	**4**	**0**	**: :**
1321	97	94	10:50:31.066	127KE	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	3,898,061:84:0
1322	**97**	**94**	**10:50:31.733**	**127KE4A**	**37ETB**	**07,C7,02,80,44,3**	**Loads wavelength edit table**	**2R3**	**4**	**0**	**3,898,061:85:0**
1323	97	94	10:50:39.733	127KE11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	3,898,062:06:0
1324	**97**	**94**	**10:50:55.733**	**432EJ6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**	**NIMS R/T SELECT**	**2R3**	**4**	**0**	**3,898,062:30:0**
1325	**97**	**94**	**10:51:55.066**	**432EK6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**2R3**	**4**	**0**	**3,898,063:28:0**
1326	97	94	10:52:27.733	488AV6A	6TMSED	NORM,CL2	Sci, Eng, and D/L Chan	2R3	4	0	3,898,063:77:0
1327	97	94	10:53:41.733	20UL4A	7SCAN	NORM,307.7,-19.5	Check S/P Position	2R3	4	0	3,898,065:06:0
1328	**97**	**94**	**10:53:41.734**	**G7NNHEALTH03-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**
1329	**97**	**94**	**10:54:42.400**	**G7NNNIMSLD08-**		**-----START------**		**2R3**	**4**	**0**	**: :**
1330	**97**	**94**	**10:55:43.066**	**20EI6A**	**6CKSUM**	**NIMS**	**NIMS,1000,14BC**	**2R3**	**4**	**0**	**3,898,067:06:0**
1331	**97**	**94**	**10:56:43.733**	**20EI5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**2R3**	**4**	**0**	**3,898,068:06:0**
1332	**97**	**94**	**10:57:44.400**	**20EI5B**	**37MRL**		**Memory Realocate (software operates from R**	**2R3**	**4**	**0**	**3,898,069:06:0**
1333	97	94	10:58:41.066	192GT4A	**7CONE**	**17.4,0.0**	Check S/P Position	2R3	4	0	3,898,070:00:0
1334	**97**	**94**	**10:58:45.066**	**20EI6B**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**2R3**	**4**	**0**	**3,898,070:06:0**
1335	**97**	**94**	**10:59:45.733**	**20EI6C**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**2R3**	**4**	**0**	**3,898,071:06:0**
1336	**97**	**94**	**11:00:46.400**	**20EI5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**3,898,072:06:0**
1337	**97**	**94**	**11:01:47.066**	**20EI5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**3,898,073:06:0**
1338	**97**	**94**	**11:02:47.733**	**20EI4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**3,898,074:06:0**
1339	97	94	11:03:27.733	176GT6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R0	4	0	3,898,074:66:0
1340	**97**	**94**	**11:03:48.400**	**20EI4B**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**3,898,075:06:0**
1341	**97**	**94**	**11:04:49.066**	**G7NNNIMSLD08-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**
1342	97	94	11:04:54.333	176GT6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	3,898,076:14:0
1343	97	94	11:05:04.200		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *3472.47 +/- 3	2R3	4	0	3,898,076:28:8
1344	97	94	11:05:05.600		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *3472.35 +/- 3	2R3	4	0	3,898,076:30:9
1345	97	94	11:05:06.333		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *3472.18 +/- 3	2R3	4	0	3,898,076:32:0
1346	97	94	11:05:14.333		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *3470.30 +/- 3	2R3	4	0	3,898,076:44:0
1347	**97**	**94**	**11:05:43.066**	**G7JNHOTMAP01-**		**-----START------**		**2R3**	**4**	**0**	**: :**
1348	97	94	11:05:44.333	165FR4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,898,076:89:0
1349	97	94	11:05:45.000	165FR4B	7SCAN	NORM,344.317997,	Check S/P Position	2R3	4	0	3,898,076:90:0
1350	97	94	11:08:43.000	127LD	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	3,898,079:84:0
1351	**97**	**94**	**11:08:43.666**	**127LD4A**	**37ETB**		**Loads wavelength edit table**	**2R3**	**4**	**0**	**3,898,079:85:0**
1352	97	94	11:08:51.666	127LD11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	3,898,080:06:0
1353	97	94	11:09:35.666	175FR422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	3,898,080:72:0
1354	97	94	11:09:39.000	117FR	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	3,898,080:77:0
1355	97	94	11:09:43.533		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *3471.66 +/- 3	2R3	4	0	3,898,080:83:8
1356	97	94	11:09:44.933		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *3471.54 +/- 3	2R3	4	0	3,898,080:85:9
1357	97	94	11:09:44.933		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC 3471.54 +/- 3	2R3	4	0	3,898,080:85:9
1358	97	94	11:09:45.000	175FR176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R3	4	0	3,898,080:86:0
1359	97	94	11:09:48.333	117FR105A106A4A	**7STRP**	**0.015701,0.0,0,0**	**Slew =,0.02**	2R3	4	0	3,898,081:00:0
1360	**97**	**94**	**11:09:48.379**	**G7JNHOTMAP01-**	**NIMPBK**	**301EC**	**NIMS JUPITER HOTMAP OBSERVATION**	**2R3**	**4**	**0**	**: :**
1361	**97**	**94**	**11:15:47.044**	**G7JNHOTMAP01-**	**NIMPBK**	**301EJ**	**NIMS JUPITER HOTMAP OBSERVATION**	**2R3**	**4**	**0**	**: :**
1362	**97**	**94**	**11:15:55.711**	**G7JNHOTMAP01-**	**DESELC**	**300EC**	**NIMS JUPITER HOTMAP OBSERVATION**	**2R3**	**4**	**0**	**: :**
1363	**97**	**94**	**11:20:55.711**	**G7JNHOTMAP01-**	**DESELC**	**300EJ**	**NIMS JUPITER HOTMAP OBSERVATION**	**2R3**	**4**	**0**	**: :**
1364	97	94	11:22:57.000	117FR11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	3,898,094:00:0
1365	97	94	11:22:59.666		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *3285.27 +/- 3	2R3	4	0	3,898,094:04:0
1366	97	94	11:22:59.666	175FR422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,898,094:04:0
1367	97	94	11:22:59.666	175FR6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	3,898,094:04:0
1368	97	94	11:32:01.666	165GD4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,898,102:89:0
1369	97	94	11:32:02.333	165GD4B	7SCAN	NORM,342.473999,	Check S/P Position	2R3	4	0	3,898,102:90:0
1370	97	94	11:35:07.666	488AV6B	6TMSED	NORM,CL3	Sci, Eng, and D/L Chan	2R3	4	0	3,898,106:04:0
1371	**97**	**94**	**11:35:09.066**	**G7JNHOTMAP01-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**
1372	97	94	11:35:56.333	117GD	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	3,898,106:77:0
1373	97	94	11:36:05.666	117GD105A106A4A	7STRP	0.0,0.006901,0,0	Slew =,0.28	2R3	4	0	3,898,107:00:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1374	97	94	11:36:05.666	176GD6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R3	4	0	3,898,107:00:0	
1375	97	94	11:37:09.000	117GD105A106A4B	7STRP	-0.002,-0.006961	Slew =12.01	2R3	4	0	3,898,108:04:0	
1376	97	94	11:37:19.666	117GD105A106A4C	7STRP	0.0,0.006901,0,0	Slew =,0.28	2R3	4	0	3,898,108:20:0	
1377	97	94	11:38:23.000	117GD105A106A4D	7STRP	-0.002,-0.006961	Slew =12.01	2R3	4	0	3,898,109:24:0	
1378	97	94	11:38:33.666	117GD105A106A4E	7STRP	0.0,0.006901,0,0	Slew =,0.28	2R3	4	0	3,898,109:40:0	
1379	97	94	11:39:37.000	117GD105A106A4F	7STRP	-0.002,-0.006961	Slew =12.01	2R3	4	0	3,898,110:44:0	
1380	97	94	11:39:47.666	117GD105A106A4G	7STRP	0.0,0.006901,0,0	Slew =,0.28	2R3	4	0	3,898,110:60:0	
1381	97	94	11:40:51.000	117GD105A106A4H	7STRP	-0.002,-0.006961	Slew =12.01	2R3	4	0	3,898,111:64:0	
1382	97	94	11:41:01.666	117GD105A106A4I	7STRP	0.0,0.006901,0,0	Slew =,0.28	2R3	4	0	3,898,111:80:0	
1383	97	94	11:42:05.000	117GD105A106A4J	7STRP	-0.002,-0.006961	Slew =12.01	2R3	4	0	3,898,112:84:0	
1384	97	94	11:42:15.666	117GD105A106A4K	7STRP	0.0,0.006901,0,0	Slew =,0.28	2R3	4	0	3,898,113:09:0	
1385	97	94	11:43:19.000	117GD105A106A4L	7STRP	-0.002,-0.006961	Slew =12.01	2R3	4	0	3,898,114:13:0	
1386	97	94	11:43:29.666	117GD105A106A4M	7STRP	0.0,0.006901,0,0	Slew =,0.28	2R3	4	0	3,898,114:29:0	
1387	97	94	11:44:33.000	117GD105A106A4N	7STRP	-0.002,-0.006961	Slew =12.01	2R3	4	0	3,898,115:33:0	
1388	97	94	11:44:43.666	117GD105A106A4O	7STRP	0.0,0.006901,0,0	Slew =,0.28	2R3	4	0	3,898,115:49:0	
1389	97	94	11:45:47.000	117GD105A106A4P	7STRP	-0.002,-0.006961	Slew =12.01	2R3	4	0	3,898,116:53:0	
1390	97	94	11:45:57.666	117GD105A106A4Q	7STRP	0.0,0.006901,0,0	Slew =,0.28	2R3	4	0	3,898,116:69:0	
1391	97	94	11:47:01.000	117GD105A106A4R	7STRP	-0.002,-0.006961	Slew =12.01	2R3	4	0	3,898,117:73:0	
1392	97	94	11:47:11.666	117GD105A106A4S	7STRP	0.0,0.006901,0,0	Slew =,0.28	2R3	4	0	3,898,117:89:0	
1393	97	94	11:48:15.000	117GD105A106A4T	7STRP	-0.002,-0.006961	Slew =12.01	2R3	4	0	3,898,119:02:0	
1394	97	94	11:48:25.666	117GD105A106A4U	7STRP	0.0,0.006901,0,0	Slew =,0.28	2R3	4	0	3,898,119:18:0	
1395	97	94	11:48:45.533		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *3286.63 +/- 3	2R3	4	0	3,898,119:47:8	
1396	97	94	11:48:46.933		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *3286.51 +/- 3	2R3	4	0	3,898,119:49:9	
1397	97	94	11:49:05.000		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *3282.27 +/- 3	2R3	4	0	3,898,119:77:0	
1398	97	94	11:49:25.000		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *3277.59 +/- 3	2R3	4	0	3,898,120:16:0	
1399	97	94	11:49:29.000	117GD105A106A4V	7STRP	-0.002,-0.006961	Slew =12.01	2R3	4	0	3,898,120:22:0	
1400	97	94	11:49:39.666	117GD105A106A4W	7STRP	0.0,0.006901,0,0	Slew =,0.28	2R3	4	0	3,898,120:38:0	
1401	97	94	11:50:43.000	117GD105A106A4X	7STRP	-0.002,-0.006961	Slew =12.01	2R3	4	0	3,898,121:42:0	
1402	97	94	11:50:53.666	117GD105A106A4Y	7STRP	0.0,0.006901,0,0	Slew =,0.28	2R3	4	0	3,898,121:58:0	
1403	97	94	11:51:57.000	117GD105A106A4Z	7STRP	-0.002,-0.006961	Slew =12.01	2R3	4	0	3,898,122:62:0	
1404	97	94	11:52:07.666	117GD105A106A4AA	7STRP	0.0,0.006901,0,0	Slew =,0.28	2R3	4	0	3,898,122:78:0	
1405	97	94	11:53:11.000	117GD105A106A4AB	7STRP	-0.002,-0.006961	Slew =12.01	2R3	4	0	3,898,123:82:0	
1406	97	94	11:53:21.666	117GD105A106A4AC	7STRP	0.0,0.006901,0,0	Slew =,0.28	2R3	4	0	3,898,124:07:0	
1407	97	94	11:54:25.000	117GD105A106A4AD	7STRP	-0.002,-0.006961	Slew =12.01	2R3	4	0	3,898,125:11:0	
1408	97	94	11:54:35.666	117GD105A106A4AE	7STRP	0.0,0.006901,0,0	Slew =,0.28	2R3	4	0	3,898,125:27:0	
1409	97	94	11:55:39.000	117GD105A106A4AF	7STRP	-0.002,-0.006961	Slew =12.01	2R3	4	0	3,898,126:31:0	
1410	97	94	11:55:49.666	117GD105A106A4AG	7STRP	0.0,0.006901,0,0	Slew =,0.28	2R3	4	0	3,898,126:47:0	
1411	97	94	11:56:53.000	117GD105A106A4AH	7STRP	-0.002,-0.006961	Slew =12.01	2R3	4	0	3,898,127:51:0	
1412	97	94	11:57:03.666	117GD105A106A4AI	7STRP	0.0,0.006901,0,0	Slew =,0.28	2R3	4	0	3,898,127:67:0	
1413	97	94	11:58:07.000	117GD105A106A4AJ	7STRP	-0.002,-0.006961	Slew =12.01	2R3	4	0	3,898,128:71:0	
1414	97	94	11:58:17.666	117GD105A106A4AK	7STRP	0.0,0.006901,0,0	Slew =,0.28	2R3	4	0	3,898,128:87:0	
1415	97	94	11:59:21.000	117GD105A106A4AL	7STRP	-0.002,-0.006961	Slew =12.01	2R3	4	0	3,898,130:00:0	
1416	97	94	11:59:31.666	117GD105A106A4AM	7STRP	0.0,0.006901,0,0	Slew =,0.28	2R3	4	0	3,898,130:16:0	
1417	97	94	12:00:35.000	117GD105A106A4AN	7STRP	-0.002,-0.006961	Slew =12.01	2R3	4	0	3,898,131:20:0	
1418	97	94	12:00:45.666	117GD105A106A4AO	7STRP	0.0,0.006901,0,0	Slew =,0.28	2R3	4	0	3,898,131:36:0	
1419	97	94	12:01:47.533		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *3278.94 +/- 3	2R3	4	0	3,898,132:37:8	
1420	97	94	12:01:48.933		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *3278.82 +/- 3	2R3	4	0	3,898,132:39:9	
1421	97	94	12:01:49.000	117GD105A106A4AP	7STRP	-0.002,-0.006961	Slew =12.01	2R3	4	0	3,898,132:40:0	
1422	97	94	12:01:59.666	117GD105A106A4AQ	7STRP	0.0,0.006901,0,0	Slew =,0.28	2R3	4	0	3,898,132:56:0	
1423	97	94	12:02:07.000		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *3274.59 +/- 3	2R3	4	0	3,898,132:67:0	
1424	97	94	12:02:27.000		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *3269.90 +/- 3	2R3	4	0	3,898,133:06:0	
1425	97	94	12:03:03.000	117GD105A106A4AR	7STRP	-0.002,-0.006961	Slew =12.01	2R3	4	0	3,898,133:60:0	
1426	97	94	12:03:13.666	117GD105A106A4AS	7STRP	0.0,0.006901,0,0	Slew =,0.28	2R3	4	0	3,898,133:76:0	
1427	97	94	12:04:17.000	117GD105A106A4AT	7STRP	-0.002,-0.006961	Slew =12.01	2R3	4	0	3,898,134:80:0	
1428	97	94	12:04:27.666	117GD105A106A4AU	7STRP	0.0,0.006901,0,0	Slew =,0.28	2R3	4	0	3,898,135:05:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1429	97	94	12:04:32.333	20MU6A	6CKSUM	MAG,4040,46F0		2R3	4	0	3,898,135	12:0
1430	97	94	12:05:30.333	480MU6A	6MROH	12,2282,0,A2	read from LLM1A12,2282,0,A2	2R3	4	0	3,898,136	08:0
1431	97	94	12:05:30.333	480MU6	6MROH	12	read from LLM1A12,2282,0,A2	2R3	4	0	3,898,136	08:0
1432	97	94	12:05:31.000	117GD105A106A4AV	7STRP	-0.002,-0.006961	Slew =12.01	2R3	4	0	3,898,136	09:0
1433	97	94	12:05:41.666	117GD105A106A4AW	7STRP	0.0,0.006901,0,0	Slew =,0.28	2R3	4	0	3,898,136	25:0
1434	97	94	12:06:45.000	117GD105A106A4AX	7STRP	-0.002,-0.006961	Slew =12.01	2R3	4	0	3,898,137	29:0
1435	97	94	12:06:55.666	117GD105A106A4AY	7STRP	0.0,0.006901,0,0	Slew =,0.28	2R3	4	0	3,898,137	45:0
1436	97	94	12:07:59.000	117GD105A106A4AZ	7STRP	-0.002,-0.006961	Slew =12.01	2R3	4	0	3,898,138	49:0
1437	97	94	12:08:09.666	117GD105A106A4BA	7STRP	0.0,0.006901,0,0	Slew =,0.28	2R3	4	0	3,898,138	65:0
1438	97	94	12:09:13.000	117GD105A106A4BB	7STRP	-0.002,-0.006961	Slew =12.01	2R3	4	0	3,898,139	69:0
1439	97	94	12:09:23.666	117GD105A106A4BC	7STRP	0.0,0.006901,0,0	Slew =,0.28	2R3	4	0	3,898,139	85:0
1440	97	94	12:10:27.000	117GD105A106A4BD	7STRP	-0.002,-0.006961	Slew =12.01	2R3	4	0	3,898,140	89:0
1441	97	94	12:10:37.666	117GD105A106A4BE	7STRP	0.0,0.006901,0,0	Slew =,0.28	2R3	4	0	3,898,141	14:0
1442	97	94	12:11:41.000	117GD105A106A4BF	7STRP	-0.002,-0.006961	Slew =12.01	2R3	4	0	3,898,142	18:0
1443	97	94	12:11:51.666	117GD105A106A4BG	7STRP	0.0,0.006901,0,0	Slew =,0.28	2R3	4	0	3,898,142	34:0
1444	97	94	12:12:55.000	117GD105A106A4BH	7STRP	-0.002,-0.006961	Slew =12.01	2R3	4	0	3,898,143	38:0
1445	97	94	12:13:05.666	117GD105A106A4BI	7STRP	0.0,0.006901,0,0	Slew =,0.28	2R3	4	0	3,898,143	54:0
1446	97	94	12:14:09.000	117GD105A106A4BJ	7STRP	-0.002,-0.006961	Slew =12.01	2R3	4	0	3,898,144	58:0
1447	97	94	12:14:19.666	117GD105A106A4BK	7STRP	0.0,0.006901,0,0	Slew =,0.28	2R3	4	0	3,898,144	74:0
1448	97	94	12:14:50.200		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *3271.25 +/- 3	2R3	4	0	3,898,145	28:8
1449	97	94	12:14:51.600		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *3271.13 +/- 3	2R3	4	0	3,898,145	30:9
1450	97	94	12:15:09.666		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *3266.90 +/- 3	2R3	4	0	3,898,145	58:0
1451	97	94	12:15:23.000	117GD105A106A4BL	7STRP	-0.002,-0.006961	Slew =12.01	2R3	4	0	3,898,145	78:0
1452	97	94	12:15:29.666		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *3262.21 +/- 3	2R3	4	0	3,898,145	88:0
1453	97	94	12:15:33.666	117GD105A106A4BM	7STRP	0.0,0.006901,0,0	Slew =,0.28	2R3	4	0	3,898,146	03:0
1454	97	94	12:16:37.000	117GD105A106A4BN	7STRP	-0.002,-0.006961	Slew =12.01	2R3	4	0	3,898,147	07:0
1455	97	94	12:16:47.666	117GD105A106A4BO	7STRP	0.0,0.006901,0,0	Slew =,0.28	2R3	4	0	3,898,147	23:0
1456	97	94	12:17:51.000	117GD105A106A4BP	7STRP	-0.002,-0.006961	Slew =12.01	2R3	4	0	3,898,148	27:0
1457	97	94	12:18:01.666	117GD105A106A4BQ	7STRP	0.0,0.006901,0,0	Slew =,0.28	2R3	4	0	3,898,148	43:0
1458	97	94	12:19:05.000	117GD105A106A4BR	7STRP	-0.002,-0.006961	Slew =12.01	2R3	4	0	3,898,149	47:0
1459	97	94	12:19:15.666	117GD105A106A4BS	7STRP	0.0,0.006901,0,0	Slew =,0.28	2R3	4	0	3,898,149	63:0
1460	97	94	12:20:19.000	117GD105A106A4BT	7STRP	-0.002,-0.006961	Slew =12.01	2R3	4	0	3,898,150	67:0
1461	97	94	12:20:29.666	117GD105A106A4BU	7STRP	0.0,0.006901,0,0	Slew =,0.28	2R3	4	0	3,898,150	83:0
1462	97	94	12:21:33.000	117GD105A106A4BV	7STRP	-0.002,-0.006961	Slew =12.01	2R3	4	0	3,898,151	87:0
1463	97	94	12:21:43.666	117GD105A106A4BW	7STRP	0.0,0.006901,0,0	Slew =,0.28	2R3	4	0	3,898,152	12:0
1464	97	94	12:22:47.000	117GD105A106A4BX	7STRP	-0.002,-0.006961	Slew =12.01	2R3	4	0	3,898,153	16:0
1465	97	94	12:22:57.666	117GD105A106A4BY	7STRP	0.0,0.006901,0,0	Slew =,0.28	2R3	4	0	3,898,153	32:0
1466	97	94	12:24:01.000	117GD105A106A4BZ	7STRP	-0.002,-0.006961	Slew =12.01	2R3	4	0	3,898,154	36:0
1467	97	94	12:24:11.666	117GD105A106A4CA	7STRP	0.0,0.006901,0,0	Slew =,0.28	2R3	4	0	3,898,154	52:0
1468	97	94	12:25:15.000	117GD105A106A4CB	7STRP	-0.002,-0.006961	Slew =12.01	2R3	4	0	3,898,155	56:0
1469	97	94	12:25:25.666	117GD105A106A4CC	7STRP	0.0,0.006901,0,0	Slew =,0.28	2R3	4	0	3,898,155	72:0
1470	97	94	12:26:29.000	117GD105A106A4CD	7STRP	-0.002,-0.006961	Slew =12.01	2R3	4	0	3,898,156	76:0
1471	97	94	12:26:39.666	117GD105A106A4CE	7STRP	0.0,0.006901,0,0	Slew =,0.28	2R3	4	0	3,898,157	01:0
1472	97	94	12:27:43.000	117GD105A106A4CF	7STRP	-0.002,-0.006961	Slew =12.01	2R3	4	0	3,898,158	05:0
1473	97	94	12:27:52.200		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *3263.56 +/- 3	2R3	4	0	3,898,158	18:8
1474	97	94	12:27:53.600		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *3263.44 +/- 3	2R3	4	0	3,898,158	20:9
1475	97	94	12:27:53.666	117GD105A106A4CG	7STRP	0.0,0.006901,0,0	Slew =,0.28	2R3	4	0	3,898,158	21:0
1476	97	94	12:28:11.666		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *3259.21 +/- 3	2R3	4	0	3,898,158	48:0
1477	97	94	12:28:31.666		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *3254.52 +/- 3	2R3	4	0	3,898,158	78:0
1478	97	94	12:28:57.000	117GD105A106A4CH	7STRP	-0.002,-0.006961	Slew =12.01	2R3	4	0	3,898,159	25:0
1479	97	94	12:29:07.666	117GD105A106A4CI	7STRP	0.0,0.006901,0,0	Slew =,0.28	2R3	4	0	3,898,159	41:0
1480	97	94	12:30:11.000	117GD105A106A4CJ	7STRP	-0.002,-0.006961	Slew =12.01	2R3	4	0	3,898,160	45:0
1481	97	94	12:30:21.666	117GD105A106A4CK	7STRP	0.0,0.006901,0,0	Slew =,0.28	2R3	4	0	3,898,160	61:0
1482	97	94	12:30:41.666	488AV6C	6TMSED	FILL,CL3	Sci, Eng, and D/L Chan	2R3	4	0	3,898,161	00:0
1483	97	94	12:31:25.000	117GD105A106A4CL	7STRP	-0.002,-0.006961	Slew =12.01	2R3	4	0	3,898,161	65:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1484	97	94	12:31:35.666	117GD105A106A4CM	7STRP	0.0,0.006901,0,0	Slew =,0.28	2R3	4	0	3,898,161:81:0	
1485	97	94	12:32:39.000	117GD105A106A4CN	7STRP	-0.002,-0.006961	Slew =12.01	2R3	4	0	3,898,162:85:0	
1486	97	94	12:32:49.666	117GD105A106A4CO	7STRP	0.0,0.006901,0,0	Slew =,0.28	2R3	4	0	3,898,163:10:0	
1487	97	94	12:33:53.000	117GD105A106A4CP	7STRP	-0.002,-0.006961	Slew =12.01	2R3	4	0	3,898,164:14:0	
1488	97	94	12:34:03.666	117GD105A106A4CQ	7STRP	0.0,0.006901,0,0	Slew =,0.28	2R3	4	0	3,898,164:30:0	
1489	97	94	12:35:07.000	117GD105A106A4CR	7STRP	-0.002,-0.006961	Slew =12.01	2R3	4	0	3,898,165:34:0	
1490	97	94	12:35:17.666	117GD105A106A4CS	7STRP	0.0,0.006901,0,0	Slew =,0.28	2R3	4	0	3,898,165:50:0	
1491	97	94	12:36:21.000	117GD105A106A4CT	7STRP	-0.002,-0.006961	Slew =12.01	2R3	4	0	3,898,166:54:0	
1492	97	94	12:36:31.666	117GD105A106A4CU	7STRP	0.0,0.006901,0,0	Slew =,0.28	2R3	4	0	3,898,166:70:0	
1493	97	94	12:37:35.000	176GD6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	3,898,167:74:0	
1494	97	94	12:37:35.000	117GD11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	3,898,167:74:0	
1495	97	94	12:37:44.866		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *3255.88 +/- 3	2R3	4	0	3,898,167:88:8	
1496	97	94	12:37:46.266		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *3255.76 +/- 3	2R3	4	0	3,898,167:90:9	
1497	97	94	12:37:47.000		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *3255.59 +/- 3	2R3	4	0	3,898,168:01:0	
1498	97	94	12:38:03.000		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *3251.84 +/- 3	2R3	4	0	3,898,168:25:0	
1499	97	94	12:50:53.666	165IR4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,898,180:89:0	
1500	97	94	12:50:54.333	165IR4B	7SCAN	NORM,0.47,1.3,17	Check S/P Position	2R3	4	0	3,898,180:90:0	
1501	97	94	12:54:46.333	175IR422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	2R3	4	0	3,898,184:74:0	
1502	97	94	12:54:54.200		DMS:	: *RUNUP	R806, TRACK *2, *REV, TIC *3253.19 +/- 3	2R3	4	0	3,898,184:85:8	
1503	97	94	12:54:56.333	165IR4C	7VECT		Inert vect update UTC	2R3	4	0	3,898,184:89:0	
1504	97	94	12:54:57.000	165IR4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	2R3	4	0	3,898,184:90:0	
1505	97	94	12:54:59.000	175IR176A6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	2R3	4	0	3,898,185:02:0	
1506	97	94	12:54:59.466		DMS:	**: *RECORD**	R806, TRACK 2, REV, TIC *3187.19 +/- 3	2R3	4	0	3,898,185:02:7	
1507	97	94	12:54:59.466		DMS:	: *AT_SPD	R806, TRACK 2, REV, TIC 3187.19 +/- 4	2R3	4	0	3,898,185:02:7	
1508	97	94	12:55:05.000	175IR422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,898,185:11:0	
1509	97	94	12:55:05.000		DMS:	**: *RUNDOWN**	R806, TRACK 2, REV, TIC *3051.02 +/- 4	2R3	4	0	3,898,185:11:0	
1510	97	94	12:56:57.666	165GU4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,898,186:89:0	
1511	97	94	12:56:58.333	165GU4B	7SCAN	NORM,349.831997,	Check S/P Position	2R3	4	0	3,898,186:90:0	
1512	97	94	12:58:51.000	117GU	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	3,898,188:77:0	
1513	97	94	12:59:00.333	176GU6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R3	4	0	3,898,189:00:0	
1514	97	94	12:59:00.333	117GU105A106A4A	7STRP	0.0,0.012802,0,0	Slew =,0.35	2R3	4	0	3,898,189:00:0	
1515	97	94	13:00:09.000	117GU105A106A4B	7STRP	-0.002,-0.012922	Slew =12.01	2R3	4	0	3,898,190:12:0	
1516	97	94	13:00:21.000	117GU105A106A4C	7STRP	0.0,0.012802,0,0	Slew =,0.35	2R3	4	0	3,898,190:30:0	
1517	97	94	13:01:29.666	117GU105A106A4D	7STRP	-0.002,-0.012922	Slew =12.01	2R3	4	0	3,898,191:42:0	
1518	97	94	13:01:41.666	117GU105A106A4E	7STRP	0.0,0.012802,0,0	Slew =,0.35	2R3	4	0	3,898,191:60:0	
1519	97	94	13:02:45.666	488AV6D	6TMSED	NORM,CL3	Sci, Eng, and D/L Chan	2R3	4	0	3,898,192:65:0	
1520	97	94	13:02:50.333	117GU105A106A4F	7STRP	-0.002,-0.012922	Slew =12.01	2R3	4	0	3,898,192:72:0	
1521	97	94	13:03:02.333	117GU105A106A4G	7STRP	0.0,0.012802,0,0	Slew =,0.35	2R3	4	0	3,898,192:90:0	
1522	97	94	13:04:11.000	117GU105A106A4H	7STRP	-0.002,-0.012922	Slew =12.01	2R3	4	0	3,898,194:11:0	
1523	97	94	13:04:23.000	117GU105A106A4I	7STRP	0.0,0.012802,0,0	Slew =,0.35	2R3	4	0	3,898,194:29:0	
1524	97	94	13:05:31.666	117GU105A106A4J	7STRP	-0.002,-0.012922	Slew =12.01	2R3	4	0	3,898,195:41:0	
1525	97	94	13:05:43.666	117GU105A106A4K	7STRP	0.0,0.012802,0,0	Slew =,0.35	2R3	4	0	3,898,195:59:0	
1526	97	94	13:06:52.333	117GU105A106A4L	7STRP	-0.002,-0.012922	Slew =12.01	2R3	4	0	3,898,196:71:0	
1527	97	94	13:07:04.333	117GU105A106A4M	7STRP	0.0,0.012802,0,0	Slew =,0.35	2R3	4	0	3,898,196:89:0	
1528	97	94	13:08:13.000	117GU105A106A4N	7STRP	-0.002,-0.012922	Slew =12.01	2R3	4	0	3,898,198:10:0	
1529	97	94	13:08:25.000	117GU105A106A4O	7STRP	0.0,0.012802,0,0	Slew =,0.35	2R3	4	0	3,898,198:28:0	
1530	97	94	13:09:33.666	117GU105A106A4P	7STRP	-0.002,-0.012922	Slew =12.01	2R3	4	0	3,898,199:40:0	
1531	97	94	13:09:45.666	117GU105A106A4Q	7STRP	0.0,0.012802,0,0	Slew =,0.35	2R3	4	0	3,898,199:58:0	
1532	97	94	13:10:54.333	117GU105A106A4R	7STRP	-0.002,-0.012922	Slew =12.01	2R3	4	0	3,898,200:70:0	
1533	97	94	13:11:06.333	117GU105A106A4S	7STRP	0.0,0.012802,0,0	Slew =,0.35	2R3	4	0	3,898,200:88:0	
1534	97	94	13:11:43.533		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *3040.93 +/- 4	2R3	4	0	3,898,201:52:8	
1535	97	94	13:11:44.933		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *3040.81 +/- 4	2R3	4	0	3,898,201:54:9	
1536	97	94	13:12:00.333		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *3037.20 +/- 4	2R3	4	0	3,898,201:78:0	
1537	97	94	13:12:15.000	117GU105A106A4T	7STRP	-0.002,-0.012922	Slew =12.01	2R3	4	0	3,898,202:09:0	
1538	97	94	13:12:20.333		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *3032.52 +/- 4	2R3	4	0	3,898,202:17:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1539	97	94	13:12:27.000	117GU105A106A4U	7STRP	0.0,0.012802,0,0	Slew =,0.35	2R3	4	0	3,898,202:27:0	
1540	97	94	13:13:35.666	117GU105A106A4V	7STRP	-0.002,-0.012922	Slew =12.01	2R3	4	0	3,898,203:39:0	
1541	97	94	13:13:47.666	117GU105A106A4W	7STRP	0.0,0.012802,0,0	Slew =,0.35	2R3	4	0	3,898,203:57:0	
1542	97	94	13:14:56.333	117GU105A106A4X	7STRP	-0.002,-0.012922	Slew =12.01	2R3	4	0	3,898,204:69:0	
1543	97	94	13:15:08.333	117GU105A106A4Y	7STRP	0.0,0.012802,0,0	Slew =,0.35	2R3	4	0	3,898,204:87:0	
1544	97	94	13:16:17.000	117GU105A106A4Z	7STRP	-0.002,-0.012922	Slew =12.01	2R3	4	0	3,898,206:08:0	
1545	97	94	13:16:29.000	117GU105A106A4AA	7STRP	0.0,0.012802,0,0	Slew =,0.35	2R3	4	0	3,898,206:26:0	
1546	97	94	13:17:37.666	117GU105A106A4AB	7STRP	-0.002,-0.012922	Slew =12.01	2R3	4	0	3,898,207:38:0	
1547	97	94	13:17:49.666	117GU105A106A4AC	7STRP	0.0,0.012802,0,0	Slew =,0.35	2R3	4	0	3,898,207:56:0	
1548	97	94	13:18:58.333	117GU105A106A4AD	7STRP	-0.002,-0.012922	Slew =12.01	2R3	4	0	3,898,208:68:0	
1549	97	94	13:19:10.333	117GU105A106A4AE	7STRP	0.0,0.012802,0,0	Slew =,0.35	2R3	4	0	3,898,208:86:0	
1550	97	94	13:19:39.666	488AV6E	6TMSED	NORM,CL4	Sci, Eng, and D/L Chan	2R3	4	0	3,898,209:39:0	
1551	97	94	13:20:19.000	117GU105A106A4AF	7STRP	-0.002,-0.012922	Slew =12.01	2R3	4	0	3,898,210:07:0	
1552	97	94	13:20:31.000	117GU105A106A4AG	7STRP	0.0,0.012802,0,0	Slew =,0.35	2R3	4	0	3,898,210:25:0	
1553	97	94	13:21:39.666	117GU105A106A4AH	7STRP	-0.002,-0.012922	Slew =12.01	2R3	4	0	3,898,211:37:0	
1554	97	94	13:21:51.666	117GU105A106A4AI	7STRP	0.0,0.012802,0,0	Slew =,0.35	2R3	4	0	3,898,211:55:0	
1555	97	94	13:23:00.333	117GU105A106A4AJ	7STRP	-0.002,-0.012922	Slew =12.01	2R3	4	0	3,898,212:67:0	
1556	97	94	13:23:12.333	117GU105A106A4AK	7STRP	0.0,0.012802,0,0	Slew =,0.35	2R3	4	0	3,898,212:85:0	
1557	97	94	13:24:21.000	117GU105A106A4AL	7STRP	-0.002,-0.012922	Slew =12.01	2R3	4	0	3,898,214:06:0	
1558	97	94	13:24:33.000	117GU105A106A4AM	7STRP	0.0,0.012802,0,0	Slew =,0.35	2R3	4	0	3,898,214:24:0	
1559	97	94	13:24:45.533		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *3033.87 +/- 4	2R3	4	0	3,898,214:42:8	
1560	97	94	13:24:46.933		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *3033.75 +/- 4	2R3	4	0	3,898,214:44:9	
1561	97	94	13:25:02.333		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *3030.14 +/- 4	2R3	4	0	3,898,214:68:0	
1562	97	94	13:25:22.333		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *3025.45 +/- 4	2R3	4	0	3,898,215:07:0	
1563	97	94	13:25:41.666	117GU105A106A4AN	7STRP	-0.002,-0.012922	Slew =12.01	2R3	4	0	3,898,215:36:0	
1564	97	94	13:25:53.666	117GU105A106A4AO	7STRP	0.0,0.012802,0,0	Slew =,0.35	2R3	4	0	3,898,215:54:0	
1565	97	94	13:27:02.333	117GU105A106A4AP	7STRP	-0.002,-0.012922	Slew =12.01	2R3	4	0	3,898,216:66:0	
1566	97	94	13:27:14.333	117GU105A106A4AQ	7STRP	0.0,0.012802,0,0	Slew =,0.35	2R3	4	0	3,898,216:84:0	
1567	97	94	13:28:23.000	117GU105A106A4AR	7STRP	-0.002,-0.012922	Slew =12.01	2R3	4	0	3,898,218:05:0	
1568	97	94	13:28:35.000	117GU105A106A4AS	7STRP	0.0,0.012802,0,0	Slew =,0.35	2R3	4	0	3,898,218:23:0	
1569	97	94	13:29:43.666	117GU105A106A4AT	7STRP	-0.002,-0.012922	Slew =12.01	2R3	4	0	3,898,219:35:0	
1570	97	94	13:29:55.666	117GU105A106A4AU	7STRP	0.0,0.012802,0,0	Slew =,0.35	2R3	4	0	3,898,219:53:0	
1571	97	94	13:31:04.333	117GU105A106A4AV	7STRP	-0.002,-0.012922	Slew =12.01	2R3	4	0	3,898,220:65:0	
1572	97	94	13:31:16.333	117GU105A106A4AW	7STRP	0.0,0.012802,0,0	Slew =,0.35	2R3	4	0	3,898,220:83:0	
1573	97	94	13:32:25.000	117GU105A106A4AX	7STRP	-0.002,-0.012922	Slew =12.01	2R3	4	0	3,898,222:04:0	
1574	97	94	13:32:37.000	117GU105A106A4AY	7STRP	0.0,0.012802,0,0	Slew =,0.35	2R3	4	0	3,898,222:22:0	
1575	97	94	13:33:45.666	117GU105A106A4AZ	7STRP	-0.002,-0.012922	Slew =12.01	2R3	4	0	3,898,223:34:0	
1576	97	94	13:33:57.666	117GU105A106A4BA	7STRP	0.0,0.012802,0,0	Slew =,0.35	2R3	4	0	3,898,223:52:0	
1577	97	94	13:35:06.333	117GU105A106A4BB	7STRP	-0.002,-0.012922	Slew =12.01	2R3	4	0	3,898,224:64:0	
1578	97	94	13:35:18.333	117GU105A106A4BC	7STRP	0.0,0.012802,0,0	Slew =,0.35	2R3	4	0	3,898,224:82:0	
1579	97	94	13:36:27.000	117GU105A106A4BD	7STRP	-0.002,-0.012922	Slew =12.01	2R3	4	0	3,898,226:03:0	
1580	97	94	13:36:39.000	117GU105A106A4BE	7STRP	0.0,0.012802,0,0	Slew =,0.35	2R3	4	0	3,898,226:21:0	
1581	97	94	13:37:47.533		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *3026.81 +/- 4	2R3	4	0	3,898,227:32:8	
1582	97	94	13:37:47.666	117GU105A106A4BF	7STRP	-0.002,-0.012922	Slew =12.01	2R3	4	0	3,898,227:33:0	
1583	97	94	13:37:48.933		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *3026.69 +/- 4	2R3	4	0	3,898,227:34:9	
1584	97	94	13:37:59.666	117GU105A106A4BG	7STRP	0.0,0.012802,0,0	Slew =,0.35	2R3	4	0	3,898,227:51:0	
1585	97	94	13:38:04.333		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *3023.08 +/- 4	2R3	4	0	3,898,227:58:0	
1586	97	94	13:38:24.333		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *3018.39 +/- 4	2R3	4	0	3,898,227:88:0	
1587	97	94	13:39:08.333	117GU105A106A4BH	7STRP	-0.002,-0.012922	Slew =12.01	2R3	4	0	3,898,228:63:0	
1588	97	94	13:39:20.333	117GU105A106A4BI	7STRP	0.0,0.012802,0,0	Slew =,0.35	2R3	4	0	3,898,228:81:0	
1589	97	94	13:40:29.000	117GU105A106A4BJ	7STRP	-0.002,-0.012922	Slew =12.01	2R3	4	0	3,898,230:02:0	
1590	97	94	13:40:41.000	117GU105A106A4BK	7STRP	0.0,0.012802,0,0	Slew =,0.35	2R3	4	0	3,898,230:20:0	
1591	97	94	13:41:49.666	117GU105A106A4BL	7STRP	-0.002,-0.012922	Slew =12.01	2R3	4	0	3,898,231:32:0	
1592	97	94	13:42:01.666	117GU105A106A4BM	7STRP	0.0,0.012802,0,0	Slew =,0.35	2R3	4	0	3,898,231:50:0	
1593	97	94	13:43:10.333	117GU105A106A4BN	7STRP	-0.002,-0.012922	Slew =12.01	2R3	4	0	3,898,232:62:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1594	97	94	13:43:22.333	117GU105A106A4BO	7STRP	0.0,0.012802,0,0	Slew =,0.35	2R3	4	0	3,898,232:80:0	
1595	97	94	13:44:31.000	117GU105A106A4BP	7STRP	-0.002,-0.012922	Slew =12.01	2R3	4	0	3,898,234:01:0	
1596	97	94	13:44:43.000	117GU105A106A4BQ	7STRP	0.0,0.012802,0,0	Slew =,0.35	2R3	4	0	3,898,234:19:0	
1597	97	94	13:45:51.666	176GU6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	3,898,235:31:0	
1598	97	94	13:45:51.666	117GU11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	3,898,235:31:0	
1599	97	94	13:46:01.533		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *3019.74 +/- 4	2R3	4	0	3,898,235:45:8	
1600	97	94	13:46:02.933		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *3019.62 +/- 4	2R3	4	0	3,898,235:47:9	
1601	97	94	13:46:03.666		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *3019.45 +/- 4	2R3	4	0	3,898,235:49:0	
1602	97	94	13:46:17.666		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *3016.17 +/- 4	2R3	4	0	3,898,235:70:0	
1603	97	94	13:52:34.333	165IS4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,898,241:89:0	
1604	97	94	13:52:35.000	165IS4B	7SCAN	NORM,349.629997,	Check S/P Position	2R3	4	0	3,898,241:90:0	
1605	97	94	13:56:27.000	175IS422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	2R3	4	0	3,898,245:74:0	
1606	97	94	13:56:34.866		DMS:	: *RUNUP	R806, TRACK *2, *REV, TIC *3017.53 +/- 4	2R3	4	0	3,898,245:85:8	
1607	97	94	13:56:39.666	175IS176A6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	2R3	4	0	3,898,246:02:0	
1608	97	94	13:56:40.133		DMS:	: *AT_SPD	R806, TRACK 2, REV, TIC 2951.53 +/- 4	2R3	4	0	3,898,246:02:7	
1609	97	94	13:56:40.133		DMS:	**: *RECORD**	R806, TRACK 2, REV, TIC *2951.53 +/- 4	2R3	4	0	3,898,246:02:7	
1610	97	94	13:56:46.333	175IS422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,898,246:12:0	
1611	97	94	13:56:46.333		DMS:	**: *RUNDOWN**	R806, TRACK 2, REV, TIC *2798.95 +/- 4	2R3	4	0	3,898,246:12:0	
1612	**97**	**94**	**13:57:43.066**	**G7NNNIMSLD09-**		**-----START------**		**2R3**	**4**	**0**	**: :**	
1613	**97**	**94**	**13:58:43.666**	**20EJ6A**	**6CKSUM**	**NIMS**	**NIMS,1000,14BC**	**2R3**	**4**	**0**	**3,898,248:06:0**	
1614	**97**	**94**	**13:59:44.333**	**20EJ5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**2R3**	**4**	**0**	**3,898,249:06:0**	
1615	**97**	**94**	**14:00:45.000**	**20EJ5B**	**37MRL**		**Memory Realocate (software operates from R**	**2R3**	**4**	**0**	**3,898,250:06:0**	
1616	**97**	**94**	**14:01:45.666**	**20EJ6B**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**2R3**	**4**	**0**	**3,898,251:06:0**	
1617	**97**	**94**	**14:02:46.333**	**20EJ6C**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**2R3**	**4**	**0**	**3,898,252:06:0**	
1618	**97**	**94**	**14:03:47.000**	**20EJ5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**3,898,253:06:0**	
1619	**97**	**94**	**14:04:47.666**	**20EJ5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**3,898,254:06:0**	
1620	**97**	**94**	**14:05:48.333**	**20EJ4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**3,898,255:06:0**	
1621	**97**	**94**	**14:06:49.000**	**20EJ4B**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**3,898,256:06:0**	
1622	**97**	**94**	**14:07:49.733**	**G7NNNIMSLD09-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**	
1623	**97**	**94**	**14:08:43.733**	**G7INCHEMIS06-**		**-----START------**		**2R3**	**4**	**0**	**: :**	
1624	97	94	14:08:45.000	165EI4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,898,257:89:0	
1625	97	94	14:08:45.666	165EI4B	7SCAN	NORM,325.585999,	Check S/P Position	2R3	4	0	3,898,257:90:0	
1626	97	94	14:11:43.666	127EI	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	3,898,260:84:0	
1627	**97**	**94**	**14:11:44.333**	**127EI4A**	**37ETB**	**07,C7,02,05,80,0**	**Loads wavelength edit table**	**2R3**	**4**	**0**	**3,898,260:85:0**	
1628	97	94	14:11:52.333	127EI11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	3,898,261:06:0	
1629	97	94	14:12:36.333	175EI422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	3,898,261:72:0	
1630	97	94	14:12:39.666	117EI	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	3,898,261:77:0	
1631	97	94	14:12:44.200		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *2788.86 +/- 4	2R3	4	0	3,898,261:83:8	
1632	97	94	14:12:45.600		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC 2788.74 +/- 4	2R3	4	0	3,898,261:85:9	
1633	97	94	14:12:45.600		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *2788.74 +/- 4	2R3	4	0	3,898,261:85:9	
1634	97	94	14:12:45.666	175EI176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R3	4	0	3,898,261:86:0	
1635	97	94	14:12:49.000	117EI105A106A4A	**7STRP**	**-0.0024,0.0,0,0,**	**Slew =,0.01**	2R3	4	0	3,898,262:00:0	
1636	97	94	14:16:51.666	117EI11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	3,898,266:00:0	
1637	97	94	14:17:03.000	175EI422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,898,266:17:0	
1638	97	94	14:17:03.000		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *2728.41 +/- 4	2R3	4	0	3,898,266:17:0	
1639	97	94	14:17:03.000	175EI6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	3,898,266:17:0	
1640	**97**	**94**	**14:17:56.399**	**G7INCHEMIS06-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**	
1641	97	94	15:48:59.666	488AW6A	6TMSED	NORM,CL5	Sci, Eng, and D/L Chan	2R3	4	0	3,898,357:11:0	
1642	97	94	16:14:35.666	488AW6B	6TMSED	NORM,CL6	Sci, Eng, and D/L Chan	2R3	4	0	3,898,382:40:0	
1643	97	94	16:30:00.333	488AW6C	6TMSED	NORM,GL6	Sci, Eng, and D/L Chan	2R3	4	0	3,898,397:62:0	
1644	97	94	16:30:01.000	282NM432A431A6A	6RCDSL	DDSNCG,PLSDSL,EP	Record Deselect (DDS o	2R3	4	0	3,898,397:63:0	
1645	97	94	16:30:01.666	282NM432A6A	6RTSL1		R/T Select of DDS and	2R3	4	0	3,898,397:64:0	
1646	97	94	17:11:54.333	488AW6D	6TMSED	FILL,GL6	Sci, Eng, and D/L Chan	2R3	4	0	3,898,439:11:0	
1647	97	94	17:33:44.333	488AW6E	6TMSED	NORM,GL6	Sci, Eng, and D/L Chan	2R3	4	0	3,898,460:65:0	
1648	97	94	18:33:39.666	165HD4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,898,519:89:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1649	97	94	18:33:40.333	165HD4B	7SCAN	NORM,22.727,10.4	Check S/P Position	2R3	4	0	3,898,519:90:0	
1650	97	94	18:37:34.333	117HD	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	3,898,523:77:0	
1651	97	94	18:37:43.666	117HD105A106A4A	7STRP	0.0,0.02981,0,0,	Slew =,0.44	2R3	4	0	3,898,524:00:0	
1652	97	94	18:37:43.666	176HD6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R3	4	0	3,898,524:00:0	
1653	97	94	18:38:59.666	117HD105A106A4B	7STRP	-0.00215,-0.0299	Slew =12.01	2R3	4	0	3,898,525:23:0	
1654	97	94	18:39:11.666	117HD105A106A4C	7STRP	0.0,0.02981,0,0,	Slew =,0.44	2R3	4	0	3,898,525:41:0	
1655	97	94	18:40:27.666	117HD105A106A4D	7STRP	-0.00215,-0.0299	Slew =12.01	2R3	4	0	3,898,526:64:0	
1656	97	94	18:40:39.666	117HD105A106A4E	7STRP	0.0,0.02981,0,0,	Slew =,0.44	2R3	4	0	3,898,526:82:0	
1657	97	94	18:41:55.666	117HD105A106A4F	7STRP	-0.00215,-0.0299	Slew =12.01	2R3	4	0	3,898,528:14:0	
1658	97	94	18:42:07.666	117HD105A106A4G	7STRP	0.0,0.02981,0,0,	Slew =,0.44	2R3	4	0	3,898,528:32:0	
1659	97	94	18:43:23.666	117HD105A106A4H	7STRP	-0.00215,-0.0299	Slew =12.01	2R3	4	0	3,898,529:55:0	
1660	97	94	18:43:35.666	117HD105A106A4I	7STRP	0.0,0.02981,0,0,	Slew =,0.44	2R3	4	0	3,898,529:73:0	
1661	97	94	18:44:51.666	117HD105A106A4J	7STRP	-0.00215,-0.0299	Slew =12.01	2R3	4	0	3,898,531:05:0	
1662	97	94	18:45:03.666	117HD105A106A4K	7STRP	0.0,0.02981,0,0,	Slew =,0.44	2R3	4	0	3,898,531:23:0	
1663	97	94	18:46:19.666	117HD105A106A4L	7STRP	-0.00215,-0.0299	Slew =12.01	2R3	4	0	3,898,532:46:0	
1664	97	94	18:46:31.666	117HD105A106A4M	7STRP	0.0,0.02981,0,0,	Slew =,0.44	2R3	4	0	3,898,532:64:0	
1665	97	94	18:47:47.666	117HD105A106A4N	7STRP	-0.00215,-0.0299	Slew =12.01	2R3	4	0	3,898,533:87:0	
1666	97	94	18:47:59.666	117HD105A106A4O	7STRP	0.0,0.02981,0,0,	Slew =,0.44	2R3	4	0	3,898,534:14:0	
1667	97	94	18:49:15.666	117HD105A106A4P	7STRP	-0.00215,-0.0299	Slew =12.01	2R3	4	0	3,898,535:37:0	
1668	97	94	18:49:27.666	117HD105A106A4Q	7STRP	0.0,0.02981,0,0,	Slew =,0.44	2R3	4	0	3,898,535:55:0	
1669	97	94	18:50:26.866		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *2729.77 +/- 4	2R3	4	0	3,898,536:52:8	
1670	97	94	18:50:28.266		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *2729.65 +/- 4	2R3	4	0	3,898,536:54:9	
1671	97	94	18:50:43.666	117HD105A106A4R	7STRP	-0.00215,-0.0299	Slew =12.01	2R3	4	0	3,898,536:78:0	
1672	97	94	18:50:43.666		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *2726.04 +/- 4	2R3	4	0	3,898,536:78:0	
1673	97	94	18:50:55.666	117HD105A106A4S	7STRP	0.0,0.02981,0,0,	Slew =,0.44	2R3	4	0	3,898,537:05:0	
1674	97	94	18:51:03.666		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *2721.35 +/- 4	2R3	4	0	3,898,537:17:0	
1675	97	94	18:52:11.666	117HD105A106A4T	7STRP	-0.00215,-0.0299	Slew =12.01	2R3	4	0	3,898,538:28:0	
1676	97	94	18:52:23.666	117HD105A106A4U	7STRP	0.0,0.02981,0,0,	Slew =,0.44	2R3	4	0	3,898,538:46:0	
1677	97	94	18:53:39.666	117HD105A106A4V	7STRP	-0.00215,-0.0299	Slew =12.01	2R3	4	0	3,898,539:69:0	
1678	97	94	18:53:51.666	117HD105A106A4W	7STRP	0.0,0.02981,0,0,	Slew =,0.44	2R3	4	0	3,898,539:87:0	
1679	97	94	18:55:07.666	117HD105A106A4X	7STRP	-0.00215,-0.0299	Slew =12.01	2R3	4	0	3,898,541:19:0	
1680	97	94	18:55:19.666	117HD105A106A4Y	7STRP	0.0,0.02981,0,0,	Slew =,0.44	2R3	4	0	3,898,541:37:0	
1681	97	94	18:56:35.666	117HD105A106A4Z	7STRP	-0.00215,-0.0299	Slew =12.01	2R3	4	0	3,898,542:60:0	
1682	97	94	18:56:47.666	117HD105A106A4AA	7STRP	0.0,0.02981,0,0,	Slew =,0.44	2R3	4	0	3,898,542:78:0	
1683	97	94	18:58:03.666	117HD105A106A4AB	7STRP	-0.00215,-0.0299	Slew =12.01	2R3	4	0	3,898,544:10:0	
1684	97	94	18:58:15.666	117HD105A106A4AC	7STRP	0.0,0.02981,0,0,	Slew =,0.44	2R3	4	0	3,898,544:28:0	
1685	97	94	18:59:31.666	117HD105A106A4AD	7STRP	-0.00215,-0.0299	Slew =12.01	2R3	4	0	3,898,545:51:0	
1686	97	94	18:59:43.666	117HD105A106A4AE	7STRP	0.0,0.02981,0,0,	Slew =,0.44	2R3	4	0	3,898,545:69:0	
1687	97	94	19:00:59.666	117HD105A106A4AF	7STRP	-0.00215,-0.0299	Slew =12.01	2R3	4	0	3,898,547:01:0	
1688	97	94	19:01:11.666	117HD105A106A4AG	7STRP	0.0,0.02981,0,0,	Slew =,0.44	2R3	4	0	3,898,547:19:0	
1689	97	94	19:02:27.666	117HD105A106A4AH	7STRP	-0.00215,-0.0299	Slew =12.01	2R3	4	0	3,898,548:42:0	
1690	97	94	19:02:39.666	117HD105A106A4AI	7STRP	0.0,0.02981,0,0,	Slew =,0.44	2R3	4	0	3,898,548:60:0	
1691	97	94	19:03:28.866		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *2722.71 +/- 4	2R3	4	0	3,898,549:42:8	
1692	97	94	19:03:30.266		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *2722.59 +/- 4	2R3	4	0	3,898,549:44:9	
1693	97	94	19:03:45.666		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *2718.98 +/- 4	2R3	4	0	3,898,549:68:0	
1694	97	94	19:03:55.666	117HD105A106A4AJ	7STRP	-0.00215,-0.0299	Slew =12.01	2R3	4	0	3,898,549:83:0	
1695	97	94	19:04:05.666		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *2714.29 +/- 4	2R3	4	0	3,898,550:07:0	
1696	97	94	19:04:07.666	117HD105A106A4AK	7STRP	0.0,0.02981,0,0,	Slew =,0.44	2R3	4	0	3,898,550:10:0	
1697	97	94	19:05:23.666	117HD105A106A4AL	7STRP	-0.00215,-0.0299	Slew =12.01	2R3	4	0	3,898,551:33:0	
1698	97	94	19:05:35.666	117HD105A106A4AM	7STRP	0.0,0.02981,0,0,	Slew =,0.44	2R3	4	0	3,898,551:51:0	
1699	97	94	19:06:51.666	117HD105A106A4AN	7STRP	-0.00215,-0.0299	Slew =12.01	2R3	4	0	3,898,552:74:0	
1700	97	94	19:07:03.666	117HD105A106A4AO	7STRP	0.0,0.02981,0,0,	Slew =,0.44	2R3	4	0	3,898,553:01:0	
1701	97	94	19:08:19.666	117HD105A106A4AP	7STRP	-0.00215,-0.0299	Slew =12.01	2R3	4	0	3,898,554:24:0	
1702	97	94	19:08:31.666	117HD105A106A4AQ	7STRP	0.0,0.02981,0,0,	Slew =,0.44	2R3	4	0	3,898,554:42:0	
1703	97	94	19:09:47.666	117HD105A106A4AR	7STRP	-0.00215,-0.0299	Slew =12.01	2R3	4	0	3,898,555:65:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1704	97	94	19:09:59.666	117HD105A106A4AS	7STRP	0.0,0.02981,0,0,	Slew =,0.44	2R3	4	0	3,898,555:83:0	
1705	97	94	19:11:15.666	117HD105A106A4AT	7STRP	-0.00215,-0.0299	Slew =12.01	2R3	4	0	3,898,557:15:0	
1706	97	94	19:11:27.666	117HD105A106A4AU	7STRP	0.0,0.02981,0,0,	Slew =,0.44	2R3	4	0	3,898,557:33:0	
1707	97	94	19:12:43.666	117HD105A106A4AV	7STRP	-0.00215,-0.0299	Slew =12.01	2R3	4	0	3,898,558:56:0	
1708	97	94	19:12:55.666	117HD105A106A4AW	7STRP	0.0,0.02981,0,0,	Slew =,0.44	2R3	4	0	3,898,558:74:0	
1709	97	94	19:14:11.666	117HD105A106A4AX	7STRP	-0.00215,-0.0299	Slew =12.01	2R3	4	0	3,898,560:06:0	
1710	97	94	19:14:23.666	117HD105A106A4AY	7STRP	0.0,0.02981,0,0,	Slew =,0.44	2R3	4	0	3,898,560:24:0	
1711	97	94	19:15:39.666	117HD105A106A4AZ	7STRP	-0.00215,-0.0299	Slew =12.01	2R3	4	0	3,898,561:47:0	
1712	97	94	19:15:51.666	117HD105A106A4BA	7STRP	0.0,0.02981,0,0,	Slew =,0.44	2R3	4	0	3,898,561:65:0	
1713	97	94	19:16:30.866		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *2715.64 +/- 4	2R3	4	0	3,898,562:32:8	
1714	97	94	19:16:32.266		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *2715.52 +/- 4	2R3	4	0	3,898,562:34:9	
1715	97	94	19:16:47.666		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *2711.91 +/- 4	2R3	4	0	3,898,562:58:0	
1716	97	94	19:17:07.666	117HD105A106A4BB	7STRP	-0.00215,-0.0299	Slew =12.01	2R3	4	0	3,898,562:88:0	
1717	97	94	19:17:07.666		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *2707.23 +/- 4	2R3	4	0	3,898,562:88:0	
1718	97	94	19:17:19.666	117HD105A106A4BC	7STRP	0.0,0.02981,0,0,	Slew =,0.44	2R3	4	0	3,898,563:15:0	
1719	97	94	19:18:35.666	117HD105A106A4BD	7STRP	-0.00215,-0.0299	Slew =12.01	2R3	4	0	3,898,564:38:0	
1720	97	94	19:18:47.666	117HD105A106A4BE	7STRP	0.0,0.02981,0,0,	Slew =,0.44	2R3	4	0	3,898,564:56:0	
1721	97	94	19:20:03.666	117HD105A106A4BF	7STRP	-0.00215,-0.0299	Slew =12.01	2R3	4	0	3,898,565:79:0	
1722	97	94	19:20:15.666	117HD105A106A4BG	7STRP	0.0,0.02981,0,0,	Slew =,0.44	2R3	4	0	3,898,566:06:0	
1723	97	94	19:21:31.666	117HD105A106A4BH	7STRP	-0.00215,-0.0299	Slew =12.01	2R3	4	0	3,898,567:29:0	
1724	97	94	19:21:43.666	117HD105A106A4BI	7STRP	0.0,0.02981,0,0,	Slew =,0.44	2R3	4	0	3,898,567:47:0	
1725	97	94	19:22:59.666	176HD6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	3,898,568:70:0	
1726	97	94	19:22:59.666	117HD11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	3,898,568:70:0	
1727	97	94	19:23:09.533		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *2708.58 +/- 4	2R3	4	0	3,898,568:84:8	
1728	97	94	19:23:10.933		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *2708.46 +/- 4	2R3	4	0	3,898,568:86:9	
1729	97	94	19:23:11.666		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *2708.29 +/- 4	2R3	4	0	3,898,568:88:0	
1730	97	94	19:23:24.333		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *2705.32 +/- 4	2R3	4	0	3,898,569:16:0	
1731	97	94	19:35:20.333	165GR4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,898,580:89:0	
1732	97	94	19:35:21.000	165GR4B	7SCAN	NORM,24.799,10.4	Check S/P Position	2R3	4	0	3,898,580:90:0	
1733	97	94	19:39:15.000	117GR	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	3,898,584:77:0	
1734	97	94	19:39:24.333	117GR105A106A4A	7STRP	0.0,0.017302,0,0	Slew =,0.61	2R3	4	0	3,898,585:00:0	
1735	97	94	19:39:24.333	176GR6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R3	4	0	3,898,585:00:0	
1736	97	94	19:39:57.000	117GR105A106A4B	7STRP	-0.00168,-0.0174	Slew =12.01	2R3	4	0	3,898,585:49:0	
1737	97	94	19:40:08.333	117GR105A106A4C	7STRP	0.0,0.017302,0,0	Slew =,0.61	2R3	4	0	3,898,585:66:0	
1738	97	94	19:40:41.000	117GR105A106A4D	7STRP	-0.00168,-0.0174	Slew =12.01	2R3	4	0	3,898,586:24:0	
1739	97	94	19:40:52.333	117GR105A106A4E	7STRP	0.0,0.017302,0,0	Slew =,0.61	2R3	4	0	3,898,586:41:0	
1740	97	94	19:41:25.000	117GR105A106A4F	7STRP	-0.00168,-0.0174	Slew =12.01	2R3	4	0	3,898,586:90:0	
1741	97	94	19:41:36.333	117GR105A106A4G	7STRP	0.0,0.017302,0,0	Slew =,0.61	2R3	4	0	3,898,587:16:0	
1742	97	94	19:42:09.000	117GR105A106A4H	7STRP	-0.00168,-0.0174	Slew =12.01	2R3	4	0	3,898,587:65:0	
1743	97	94	19:42:20.333	117GR105A106A4I	7STRP	0.0,0.017302,0,0	Slew =,0.61	2R3	4	0	3,898,587:82:0	
1744	97	94	19:42:53.000	117GR105A106A4J	7STRP	-0.00168,-0.0174	Slew =12.01	2R3	4	0	3,898,588:40:0	
1745	97	94	19:43:04.333	117GR105A106A4K	7STRP	0.0,0.017302,0,0	Slew =,0.61	2R3	4	0	3,898,588:57:0	
1746	97	94	19:43:37.000	117GR105A106A4L	7STRP	-0.00168,-0.0174	Slew =12.01	2R3	4	0	3,898,589:15:0	
1747	97	94	19:43:48.333	117GR105A106A4M	7STRP	0.0,0.017302,0,0	Slew =,0.61	2R3	4	0	3,898,589:32:0	
1748	97	94	19:44:21.000	117GR105A106A4N	7STRP	-0.00168,-0.0174	Slew =12.01	2R3	4	0	3,898,589:81:0	
1749	97	94	19:44:32.333	117GR105A106A4O	7STRP	0.0,0.017302,0,0	Slew =,0.61	2R3	4	0	3,898,590:07:0	
1750	97	94	19:45:05.000	117GR105A106A4P	7STRP	-0.00168,-0.0174	Slew =12.01	2R3	4	0	3,898,590:56:0	
1751	97	94	19:45:16.333	117GR105A106A4Q	7STRP	0.0,0.017302,0,0	Slew =,0.61	2R3	4	0	3,898,590:73:0	
1752	97	94	19:45:49.000	117GR105A106A4R	7STRP	-0.00168,-0.0174	Slew =12.01	2R3	4	0	3,898,591:31:0	
1753	97	94	19:46:00.333	117GR105A106A4S	7STRP	0.0,0.017302,0,0	Slew =,0.61	2R3	4	0	3,898,591:48:0	
1754	97	94	19:46:33.000	117GR105A106A4T	7STRP	-0.00168,-0.0174	Slew =12.01	2R3	4	0	3,898,592:06:0	
1755	97	94	19:46:44.333	117GR105A106A4U	7STRP	0.0,0.017302,0,0	Slew =,0.61	2R3	4	0	3,898,592:23:0	
1756	97	94	19:47:17.000	117GR105A106A4V	7STRP	-0.00168,-0.0174	Slew =12.01	2R3	4	0	3,898,592:72:0	
1757	97	94	19:47:28.333	117GR105A106A4W	7STRP	0.0,0.017302,0,0	Slew =,0.61	2R3	4	0	3,898,592:89:0	
1758	97	94	19:48:01.000	117GR105A106A4X	7STRP	-0.00168,-0.0174	Slew =12.01	2R3	4	0	3,898,593:47:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1759	97	94	19:48:12.333	117GR105A106A4Y	7STRP	0.0,0.017302,0,0	Slew =,0.61	2R3	4	0	3,898,593:64:0	
1760	97	94	19:48:45.000	117GR105A106A4Z	7STRP	-0.00168,-0.0174	Slew =12.01	2R3	4	0	3,898,594:22:0	
1761	97	94	19:48:56.333	117GR105A106A4AA	7STRP	0.0,0.017302,0,0	Slew =,0.61	2R3	4	0	3,898,594:39:0	
1762	97	94	19:49:29.000	117GR105A106A4AB	7STRP	-0.00168,-0.0174	Slew =12.01	2R3	4	0	3,898,594:88:0	
1763	97	94	19:49:40.333	117GR105A106A4AC	7STRP	0.0,0.017302,0,0	Slew =,0.61	2R3	4	0	3,898,595:14:0	
1764	97	94	19:50:13.000	117GR105A106A4AD	7STRP	-0.00168,-0.0174	Slew =12.01	2R3	4	0	3,898,595:63:0	
1765	97	94	19:50:24.333	117GR105A106A4AE	7STRP	0.0,0.017302,0,0	Slew =,0.61	2R3	4	0	3,898,595:80:0	
1766	97	94	19:50:57.000	117GR105A106A4AF	7STRP	-0.00168,-0.0174	Slew =12.01	2R3	4	0	3,898,596:38:0	
1767	97	94	19:51:08.333	117GR105A106A4AG	7STRP	0.0,0.017302,0,0	Slew =,0.61	2R3	4	0	3,898,596:55:0	
1768	97	94	19:51:41.000	117GR105A106A4AH	7STRP	-0.00168,-0.0174	Slew =12.01	2R3	4	0	3,898,597:13:0	
1769	97	94	19:51:52.333	117GR105A106A4AI	7STRP	0.0,0.017302,0,0	Slew =,0.61	2R3	4	0	3,898,597:30:0	
1770	97	94	19:52:07.533		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *2706.67 +/- 4	2R3	4	0	3,898,597:52:8	
1771	97	94	19:52:08.933		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *2706.55 +/- 4	2R3	4	0	3,898,597:54:9	
1772	97	94	19:52:24.333		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *2702.95 +/- 4	2R3	4	0	3,898,597:78:0	
1773	97	94	19:52:25.000	117GR105A106A4AJ	7STRP	-0.00168,-0.0174	Slew =12.01	2R3	4	0	3,898,597:79:0	
1774	97	94	19:52:36.333	117GR105A106A4AK	7STRP	0.0,0.017302,0,0	Slew =,0.61	2R3	4	0	3,898,598:05:0	
1775	97	94	19:52:44.333		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *2698.26 +/- 4	2R3	4	0	3,898,598:17:0	
1776	97	94	19:53:09.000	117GR105A106A4AL	7STRP	-0.00168,-0.0174	Slew =12.01	2R3	4	0	3,898,598:54:0	
1777	97	94	19:53:20.333	117GR105A106A4AM	7STRP	0.0,0.017302,0,0	Slew =,0.61	2R3	4	0	3,898,598:71:0	
1778	97	94	19:53:53.000	117GR105A106A4AN	7STRP	-0.00168,-0.0174	Slew =12.01	2R3	4	0	3,898,599:29:0	
1779	97	94	19:54:04.333	117GR105A106A4AO	7STRP	0.0,0.017302,0,0	Slew =,0.61	2R3	4	0	3,898,599:46:0	
1780	97	94	19:54:37.000	117GR105A106A4AP	7STRP	-0.00168,-0.0174	Slew =12.01	2R3	4	0	3,898,600:04:0	
1781	97	94	19:54:48.333	117GR105A106A4AQ	7STRP	0.0,0.017302,0,0	Slew =,0.61	2R3	4	0	3,898,600:21:0	
1782	97	94	19:55:21.000	117GR105A106A4AR	7STRP	-0.00168,-0.0174	Slew =12.01	2R3	4	0	3,898,600:70:0	
1783	97	94	19:55:32.333	117GR105A106A4AS	7STRP	0.0,0.017302,0,0	Slew =,0.61	2R3	4	0	3,898,600:87:0	
1784	97	94	19:56:05.000	117GR105A106A4AT	7STRP	-0.00168,-0.0174	Slew =12.01	2R3	4	0	3,898,601:45:0	
1785	97	94	19:56:16.333	117GR105A106A4AU	7STRP	0.0,0.017302,0,0	Slew =,0.61	2R3	4	0	3,898,601:62:0	
1786	97	94	19:56:49.000	117GR105A106A4AV	7STRP	-0.00168,-0.0174	Slew =12.01	2R3	4	0	3,898,602:20:0	
1787	97	94	19:57:00.333	117GR105A106A4AW	7STRP	0.0,0.017302,0,0	Slew =,0.61	2R3	4	0	3,898,602:37:0	
1788	97	94	19:57:33.000	117GR105A106A4AX	7STRP	-0.00168,-0.0174	Slew =12.01	2R3	4	0	3,898,602:86:0	
1789	97	94	19:57:44.333	117GR105A106A4AY	7STRP	0.0,0.017302,0,0	Slew =,0.61	2R3	4	0	3,898,603:12:0	
1790	97	94	19:58:17.000	117GR105A106A4AZ	7STRP	-0.00168,-0.0174	Slew =12.01	2R3	4	0	3,898,603:61:0	
1791	97	94	19:58:28.333	117GR105A106A4BA	7STRP	0.0,0.017302,0,0	Slew =,0.61	2R3	4	0	3,898,603:78:0	
1792	97	94	19:59:01.000	117GR105A106A4BB	7STRP	-0.00168,-0.0174	Slew =12.01	2R3	4	0	3,898,604:36:0	
1793	97	94	19:59:12.333	117GR105A106A4BC	7STRP	0.0,0.017302,0,0	Slew =,0.61	2R3	4	0	3,898,604:53:0	
1794	97	94	19:59:45.000	117GR105A106A4BD	7STRP	-0.00168,-0.0174	Slew =12.01	2R3	4	0	3,898,605:11:0	
1795	97	94	19:59:56.333	117GR105A106A4BE	7STRP	0.0,0.017302,0,0	Slew =,0.61	2R3	4	0	3,898,605:28:0	
1796	97	94	20:00:29.000	117GR105A106A4BF	7STRP	-0.00168,-0.0174	Slew =12.01	2R3	4	0	3,898,605:77:0	
1797	97	94	20:00:40.333	117GR105A106A4BG	7STRP	0.0,0.017302,0,0	Slew =,0.61	2R3	4	0	3,898,606:03:0	
1798	97	94	20:01:13.000	117GR105A106A4BH	7STRP	-0.00168,-0.0174	Slew =12.01	2R3	4	0	3,898,606:52:0	
1799	97	94	20:01:24.333	117GR105A106A4BI	7STRP	0.0,0.017302,0,0	Slew =,0.61	2R3	4	0	3,898,606:69:0	
1800	97	94	20:01:57.000	117GR105A106A4BJ	7STRP	-0.00168,-0.0174	Slew =12.01	2R3	4	0	3,898,607:27:0	
1801	97	94	20:02:08.333	117GR105A106A4BK	7STRP	0.0,0.017302,0,0	Slew =,0.61	2R3	4	0	3,898,607:44:0	
1802	97	94	20:02:41.000	117GR105A106A4BL	7STRP	-0.00168,-0.0174	Slew =12.01	2R3	4	0	3,898,608:02:0	
1803	97	94	20:02:52.333	117GR105A106A4BM	7STRP	0.0,0.017302,0,0	Slew =,0.61	2R3	4	0	3,898,608:19:0	
1804	97	94	20:03:25.000	117GR105A106A4BN	7STRP	-0.00168,-0.0174	Slew =12.01	2R3	4	0	3,898,608:68:0	
1805	97	94	20:03:36.333	117GR105A106A4BO	7STRP	0.0,0.017302,0,0	Slew =,0.61	2R3	4	0	3,898,608:85:0	
1806	97	94	20:04:09.000	117GR105A106A4BP	7STRP	-0.00168,-0.0174	Slew =12.01	2R3	4	0	3,898,609:43:0	
1807	97	94	20:04:20.333	117GR105A106A4BQ	7STRP	0.0,0.017302,0,0	Slew =,0.61	2R3	4	0	3,898,609:60:0	
1808	97	94	20:04:53.000	117GR105A106A4BR	7STRP	-0.00168,-0.0174	Slew =12.01	2R3	4	0	3,898,610:18:0	
1809	97	94	20:05:04.333	117GR105A106A4BS	7STRP	0.0,0.017302,0,0	Slew =,0.61	2R3	4	0	3,898,610:35:0	
1810	97	94	20:05:09.533		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *2699.61 +/- 4	2R3	4	0	3,898,610:42:8	
1811	97	94	20:05:10.933		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *2699.49 +/- 4	2R3	4	0	3,898,610:44:9	
1812	97	94	20:05:26.333		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *2695.88 +/- 4	2R3	4	0	3,898,610:68:0	
1813	97	94	20:05:37.000	176GR6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	3,898,610:84:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
1814	97	94	20:05:37.000	117GR11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	3,898,610:84:0
1815	**97**	**94**	**20:05:45.666**	**G7JNFEAP6601-**		**-----START------**		**2R3**	**4**	**0**	**: :**
1816	97	94	20:05:46.333		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *2691.20 +/- 4	2R3	4	0	3,898,611:07:0
1817	97	94	20:06:41.000	165EJ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,898,611:89:0
1818	97	94	20:06:41.666	165EJ4B	7SCAN	NORM,29.077,14.9	Check S/P Position	2R3	4	0	3,898,611:90:0
1819	97	94	20:09:39.666	127EJ	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	3,898,614:84:0
1820	**97**	**94**	**20:09:39.666**	**127EJ4A**	**37IOP**	**5,1**	**Short Map, Grating Start Position =01**	**2R5**	**4**	**1**	**3,898,614:84:0**
1821	**97**	**94**	**20:09:40.333**	**127EJ4B**	**37ETB**		**Loads wavelength edit table**	**2R5**	**4**	**1**	**3,898,614:85:0**
1822	97	94	20:09:48.333	127EJ11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R5	4	1	3,898,615:06:0
1823	97	94	20:10:32.333	175EJ422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,898,615:72:0
1824	97	94	20:10:35.666	117EJ	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,898,615:77:0
1825	97	94	20:10:40.200		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *2692.21 +/- 4	2R5	4	1	3,898,615:83:8
1826	97	94	20:10:41.600		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC 2692.09 +/- 4	2R5	4	1	3,898,615:85:9
1827	97	94	20:10:41.600		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *2692.09 +/- 4	2R5	4	1	3,898,615:85:9
1828	97	94	20:10:41.666	175EJ176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	3,898,615:86:0
1829	97	94	20:10:45.000	117EJ105A106A4A	**7STRP**	**0.032802,0.0,0,0**	**Slew =,0.11**	2R5	4	1	3,898,616:00:0
1830	**97**	**94**	**20:12:06.359**	**G7JNFEAP6601-**	**NIMPBK**	**301DL**	**JUPITER FTR AND PRTL TRK 66 DEG**	**2R5**	**4**	**1**	**: :**
1831	**97**	**94**	**20:13:15.024**	**G7JNFEAP6601-**	**NIMPBK**	**301EL**	**JUPITER FTR AND PRTL TRK 66 DEG**	**2R5**	**4**	**1**	**: :**
1832	**97**	**94**	**20:13:25.024**	**G7JNFEAP6601-**	**DESELC**	**300EL**	**JUPITER FTR AND PRTL TRK 66 DEG**	**2R5**	**4**	**1**	**: :**
1833	**97**	**94**	**20:14:26.358**	**G7JNFEAP6601-**	**DESELC**	**300DL**	**JUPITER FTR AND PRTL TRK 66 DEG**	**2R5**	**4**	**1**	**: :**
1834	97	94	20:15:45.000	117EJ11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,898,620:86:0
1835	97	94	20:15:52.333		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *2619.26 +/- 4	2R5	4	1	3,898,621:06:0
1836	97	94	20:15:52.333	175EJ6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,898,621:06:0
1837	97	94	20:15:52.333	175EJ422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,898,621:06:0
1838	**97**	**94**	**20:16:53.000**	**G7JNFEAP6601-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**
1839	97	94	20:17:48.333	165EK4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,898,622:89:0
1840	97	94	20:17:49.000	165EK4B	7SCAN	NORM,27.456,17.0	Check S/P Position	2R5	4	1	3,898,622:90:0
1841	**97**	**94**	**20:18:00.333**	**G7JNPFTB6601-**		**-----START------**		**2R5**	**4**	**1**	**: :**
1842	97	94	20:20:39.000	175EK422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,898,625:72:0
1843	97	94	20:20:42.333	117EK	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,898,625:77:0
1844	97	94	20:20:46.866		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *2620.61 +/- 4	2R5	4	1	3,898,625:83:8
1845	97	94	20:20:48.266		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *2620.49 +/- 4	2R5	4	1	3,898,625:85:9
1846	97	94	20:20:48.266		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC 2620.49 +/- 4	2R5	4	1	3,898,625:85:9
1847	97	94	20:20:48.333	175EK176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	3,898,625:86:0
1848	97	94	20:20:51.666	117EK105A106A4A	**7STRP**	**0.0108,0.0,0,0,0**	**Slew =,0.11**	2R5	4	1	3,898,626:00:0
1849	97	94	20:22:31.666	117EK105A106A4B	**7STRP**	**-0.012001,0.008,**	**Slew =12.01**	2R5	4	1	3,898,627:59:0
1850	97	94	20:22:45.000	117EK105A106A4C	**7STRP**	**0.0108,0.0,0,0,0**	**Slew =,0.11**	2R5	4	1	3,898,627:79:0
1851	**97**	**94**	**20:22:45.024**	**G7JNPFTB6601-**	**NIMPBK**	**301DM**	**JUPITER PARTIAL FTR TRK B 66 DEG**	**2R5**	**4**	**1**	**: :**
1852	**97**	**94**	**20:24:15.024**	**G7JNPFTB6601-**	**NIMPBK**	**301EM**	**JUPITER PARTIAL FTR TRK B 66 DEG**	**2R5**	**4**	**1**	**: :**
1853	**97**	**94**	**20:24:24.358**	**G7JNPFTB6601-**	**DESELC**	**300DM**	**JUPITER PARTIAL FTR TRK B 66 DEG**	**2R5**	**4**	**1**	**: :**
1854	97	94	20:24:25.000	117EK11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,898,629:47:0
1855	**97**	**94**	**20:24:25.024**	**G7JNPFTB6601-**	**DESELC**	**300EM**	**JUPITER PARTIAL FTR TRK B 66 DEG**	**2R5**	**4**	**1**	**: :**
1856	97	94	20:24:36.333	175EK422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,898,629:64:0
1857	97	94	20:24:36.333		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *2567.04 +/- 4	2R5	4	1	3,898,629:64:0
1858	97	94	20:24:36.333	175EK6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,898,629:64:0
1859	97	94	20:24:53.000	165GW4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,898,629:89:0
1860	97	94	20:24:53.666	165GW4B	7SCAN	NORM,29.263,14.2	Check S/P Position	2R5	4	1	3,898,629:90:0
1861	**97**	**94**	**20:24:58.333**	**G7JNPFTB6601-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**
1862	**97**	**94**	**20:25:11.666**	**G7NNHEALTH04-**		**-----START------**		**2R5**	**4**	**1**	**: :**
1863	**97**	**94**	**20:25:50.333**	**127KF4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**3,898,630:84:0**
1864	97	94	20:25:50.333	127KF	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	3,898,630:84:0
1865	**97**	**94**	**20:25:51.000**	**127KF4B**	**37ETB**	**07,C7,02,80,44,3**	**Loads wavelength edit table**	**2R3**	**4**	**0**	**3,898,630:85:0**
1866	97	94	20:25:59.000	127KF11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	3,898,631:06:0
1867	**97**	**94**	**20:26:15.000**	**432EL6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**	**NIMS R/T SELECT**	**2R3**	**4**	**0**	**3,898,631:30:0**
1868	97	94	20:26:46.333	117GW	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	3,898,631:77:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
1869	97	94	20:26:55.666	176GW6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R3	4	0	3,898,632:00:0
1870	97	94	20:26:55.666	117GW105A106A4A	7STRP	-0.019502,0.0,0,	Slew =,0.31	2R3	4	0	3,898,632:00:0
1871	**97**	**94**	**20:27:14.333**	**432EM6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**2R3**	**4**	**0**	**3,898,632:28:0**
1872	97	94	20:28:01.666	117GW105A106A4B	7STRP	0.019202,-0.0013	Slew =12.01	2R3	4	0	3,898,633:08:0
1873	97	94	20:28:07.000	117GW105A106A4C	7STRP	-0.019502,0.0,0,	Slew =,0.31	2R3	4	0	3,898,633:16:0
1874	97	94	20:29:13.000	117GW105A106A4D	7STRP	0.019202,-0.0013	Slew =12.01	2R3	4	0	3,898,634:24:0
1875	97	94	20:29:18.333	117GW105A106A4E	7STRP	-0.019502,0.0,0,	Slew =,0.31	2R3	4	0	3,898,634:32:0
1876	97	94	20:30:00.333	488AX6A	6TMSED	NORM,EL6	Sci, Eng, and D/L Chan	2R3	4	0	3,898,635:04:0
1877	97	94	20:30:01.000	282NN432A431A6A	6RCDSL	DDSNCG,PLSDSL,EP	Record Deselect (DDS o	2R3	4	0	3,898,635:05:0
1878	97	94	20:30:01.666	282NN432A6A	6RTSL1		R/T Select of DDS and	2R3	4	0	3,898,635:06:0
1879	97	94	20:30:24.333	117GW105A106A4F	7STRP	0.019202,-0.0013	Slew =12.01	2R3	4	0	3,898,635:40:0
1880	97	94	20:30:29.666	117GW105A106A4G	7STRP	-0.019502,0.0,0,	Slew =,0.31	2R3	4	0	3,898,635:48:0
1881	**97**	**94**	**20:31:02.333**	**G7NNHEALTH04-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**
1882	97	94	20:31:35.666	117GW105A106A4H	7STRP	0.019202,-0.0013	Slew =12.01	2R3	4	0	3,898,636:56:0
1883	97	94	20:31:41.000	117GW105A106A4I	7STRP	-0.019502,0.0,0,	Slew =,0.31	2R3	4	0	3,898,636:64:0
1884	**97**	**94**	**20:32:03.000**	**G7NNNIMSLD10-**		**-----START------**		**2R3**	**4**	**0**	**: :**
1885	97	94	20:32:47.000	117GW105A106A4J	7STRP	0.019202,-0.0013	Slew =12.01	2R3	4	0	3,898,637:72:0
1886	97	94	20:32:52.333	117GW105A106A4K	7STRP	-0.019502,0.0,0,	Slew =,0.31	2R3	4	0	3,898,637:80:0
1887	**97**	**94**	**20:33:03.666**	**20EK6A**	**6CKSUM**	**NIMS**	**NIMS,1000,14BC**	**2R3**	**4**	**0**	**3,898,638:06:0**
1888	97	94	20:33:58.333	117GW105A106A4L	7STRP	0.019202,-0.0013	Slew =12.01	2R3	4	0	3,898,638:88:0
1889	97	94	20:34:03.666	117GW105A106A4M	7STRP	-0.019502,0.0,0,	Slew =,0.31	2R3	4	0	3,898,639:05:0
1890	**97**	**94**	**20:34:04.333**	**20EK5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**2R3**	**4**	**0**	**3,898,639:06:0**
1891	**97**	**94**	**20:35:05.000**	**20EK5B**	**37MRL**		**Memory Realocate (software operates from R**	**2R3**	**4**	**0**	**3,898,640:06:0**
1892	97	94	20:35:09.666	117GW105A106A4N	7STRP	0.019202,-0.0013	Slew =12.01	2R3	4	0	3,898,640:13:0
1893	97	94	20:35:15.000	117GW105A106A4O	7STRP	-0.019502,0.0,0,	Slew =,0.31	2R3	4	0	3,898,640:21:0
1894	**97**	**94**	**20:36:05.666**	**20EK6B**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**2R3**	**4**	**0**	**3,898,641:06:0**
1895	97	94	20:36:21.000	117GW105A106A4P	7STRP	0.019202,-0.0013	Slew =12.01	2R3	4	0	3,898,641:29:0
1896	97	94	20:36:26.333	117GW105A106A4Q	7STRP	-0.019502,0.0,0,	Slew =,0.31	2R3	4	0	3,898,641:37:0
1897	**97**	**94**	**20:37:06.333**	**20EK6C**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**2R3**	**4**	**0**	**3,898,642:06:0**
1898	97	94	20:37:32.333	117GW105A106A4R	7STRP	0.019202,-0.0013	Slew =12.01	2R3	4	0	3,898,642:45:0
1899	97	94	20:37:37.666	117GW105A106A4S	7STRP	-0.019502,0.0,0,	Slew =,0.31	2R3	4	0	3,898,642:53:0
1900	**97**	**94**	**20:38:07.000**	**20EK5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**3,898,643:06:0**
1901	97	94	20:38:43.666	117GW105A106A4T	7STRP	0.019202,-0.0013	Slew =12.01	260	4	0	3,898,643:61:0
1902	97	94	20:38:49.000	117GW105A106A4U	7STRP	-0.019502,0.0,0,	Slew =,0.31	260	4	0	3,898,643:69:0
1903	**97**	**94**	**20:39:07.666**	**20EK5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**3,898,644:06:0**
1904	97	94	20:39:55.000	117GW105A106A4V	7STRP	0.019202,-0.0013	Slew =12.01	260	4	0	3,898,644:77:0
1905	97	94	20:40:00.333	117GW105A106A4W	7STRP	-0.019502,0.0,0,	Slew =,0.31	260	4	0	3,898,644:85:0
1906	**97**	**94**	**20:40:08.333**	**20EK4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**3,898,645:06:0**
1907	97	94	20:41:00.866		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *2568.39 +/- 4	2R0	4	0	3,898,645:84:8
1908	97	94	20:41:02.266		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *2568.27 +/- 4	2R0	4	0	3,898,645:86:9
1909	97	94	20:41:06.333	117GW105A106A4X	7STRP	0.019202,-0.0013	Slew =12.01	2R0	4	0	3,898,646:02:0
1910	**97**	**94**	**20:41:09.000**	**20EK4B**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**3,898,646:06:0**
1911	97	94	20:41:11.666	117GW105A106A4Y	7STRP	-0.019502,0.0,0,	Slew =,0.31	2R3	4	0	3,898,646:10:0
1912	97	94	20:41:17.666		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *2564.66 +/- 4	2R3	4	0	3,898,646:19:0
1913	97	94	20:41:37.666		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *2559.98 +/- 4	2R3	4	0	3,898,646:49:0
1914	**97**	**94**	**20:42:09.666**	**G7NNNIMSLD10-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**
1915	97	94	20:42:17.666	117GW105A106A4Z	7STRP	0.019202,-0.0013	Slew =12.01	2R3	4	0	3,898,647:18:0
1916	97	94	20:42:23.000	117GW105A106A4AA	7STRP	-0.019502,0.0,0,	Slew =,0.31	2R3	4	0	3,898,647:26:0
1917	97	94	20:43:29.000	117GW105A106A4AB	7STRP	0.019202,-0.0013	Slew =12.01	2R3	4	0	3,898,648:34:0
1918	97	94	20:43:34.333	117GW105A106A4AC	7STRP	-0.019502,0.0,0,	Slew =,0.31	2R3	4	0	3,898,648:42:0
1919	97	94	20:44:40.333	117GW105A106A4AD	7STRP	0.019202,-0.0013	Slew =12.01	2R3	4	0	3,898,649:50:0
1920	97	94	20:44:45.666	117GW105A106A4AE	7STRP	-0.019502,0.0,0,	Slew =,0.31	2R3	4	0	3,898,649:58:0
1921	97	94	20:45:51.666	117GW105A106A4AF	7STRP	0.019202,-0.0013	Slew =12.01	2R3	4	0	3,898,650:66:0
1922	97	94	20:45:57.000	117GW105A106A4AG	7STRP	-0.019502,0.0,0,	Slew =,0.31	2R3	4	0	3,898,650:74:0
1923	97	94	20:47:03.000	117GW105A106A4AH	7STRP	0.019202,-0.0013	Slew =12.01	2R3	4	0	3,898,651:82:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
1924	97	94	20:47:08.333	117GW105A106A4AI	7STRP	-0.019502,0.0,0,	Slew =,0.31	2R3	4	0	3,898,651:90:0
1925	97	94	20:48:14.333	117GW105A106A4AJ	7STRP	0.019202,-0.0013	Slew =12.01	2R3	4	0	3,898,653:07:0
1926	97	94	20:48:19.666	117GW105A106A4AK	7STRP	-0.019502,0.0,0,	Slew =,0.31	2R3	4	0	3,898,653:15:0
1927	97	94	20:49:25.666	117GW105A106A4AL	7STRP	0.019202,-0.0013	Slew =12.01	2R3	4	0	3,898,654:23:0
1928	97	94	20:49:31.000	117GW105A106A4AM	7STRP	-0.019502,0.0,0,	Slew =,0.31	2R3	4	0	3,898,654:31:0
1929	97	94	20:50:37.000	117GW105A106A4AN	7STRP	0.019202,-0.0013	Slew =12.01	2R3	4	0	3,898,655:39:0
1930	97	94	20:50:42.333	117GW105A106A4AO	7STRP	-0.019502,0.0,0,	Slew =,0.31	2R3	4	0	3,898,655:47:0
1931	97	94	20:51:48.333	117GW105A106A4AP	7STRP	0.019202,-0.0013	Slew =12.01	2R3	4	0	3,898,656:55:0
1932	97	94	20:51:53.666	117GW105A106A4AQ	7STRP	-0.019502,0.0,0,	Slew =,0.31	2R3	4	0	3,898,656:63:0
1933	97	94	20:52:59.666	117GW105A106A4AR	7STRP	0.019202,-0.0013	Slew =12.01	2R3	4	0	3,898,657:71:0
1934	97	94	20:53:05.000	117GW105A106A4AS	7STRP	-0.019502,0.0,0,	Slew =,0.31	2R3	4	0	3,898,657:79:0
1935	97	94	20:54:11.000	117GW105A106A4AT	7STRP	0.019202,-0.0013	Slew =12.01	2R3	4	0	3,898,658:87:0
1936	97	94	20:54:16.333	117GW105A106A4AU	7STRP	-0.019502,0.0,0,	Slew =,0.31	2R3	4	0	3,898,659:04:0
1937	97	94	20:55:22.333	117GW105A106A4AV	7STRP	0.019202,-0.0013	Slew =12.01	2R3	4	0	3,898,660:12:0
1938	97	94	20:55:25.533		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *2561.33 +/- 4	2R3	4	0	3,898,660:16:8
1939	97	94	20:55:26.933		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *2561.21 +/- 4	2R3	4	0	3,898,660:18:9
1940	97	94	20:55:27.666	117GW105A106A4AW	7STRP	-0.019502,0.0,0,	Slew =,0.31	2R3	4	0	3,898,660:20:0
1941	97	94	20:55:42.333		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *2557.60 +/- 4	2R3	4	0	3,898,660:42:0
1942	97	94	20:56:02.333		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *2552.91 +/- 4	2R3	4	0	3,898,660:72:0
1943	97	94	20:56:33.666	117GW105A106A4AX	7STRP	0.019202,-0.0013	Slew =12.01	2R3	4	0	3,898,661:28:0
1944	97	94	20:56:39.000	117GW105A106A4AY	7STRP	-0.019502,0.0,0,	Slew =,0.31	2R3	4	0	3,898,661:36:0
1945	97	94	20:57:45.000	117GW105A106A4AZ	7STRP	0.019202,-0.0013	Slew =12.01	2R3	4	0	3,898,662:44:0
1946	97	94	20:57:50.333	117GW105A106A4BA	7STRP	-0.019502,0.0,0,	Slew =,0.31	2R3	4	0	3,898,662:52:0
1947	97	94	20:58:56.333	117GW105A106A4BB	7STRP	0.019202,-0.0013	Slew =12.01	2R3	4	0	3,898,663:60:0
1948	97	94	20:59:01.666	117GW105A106A4BC	7STRP	-0.019502,0.0,0,	Slew =,0.31	2R3	4	0	3,898,663:68:0
1949	97	94	21:00:07.666	117GW105A106A4BD	7STRP	0.019202,-0.0013	Slew =12.01	2R3	4	0	3,898,664:76:0
1950	97	94	21:00:13.000	117GW105A106A4BE	7STRP	-0.019502,0.0,0,	Slew =,0.31	2R3	4	0	3,898,664:84:0
1951	97	94	21:01:19.000	117GW105A106A4BF	7STRP	0.019202,-0.0013	Slew =12.01	2R3	4	0	3,898,666:01:0
1952	97	94	21:01:24.333	117GW105A106A4BG	7STRP	-0.019502,0.0,0,	Slew =,0.31	2R3	4	0	3,898,666:09:0
1953	97	94	21:02:30.333	117GW11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	3,898,667:17:0
1954	97	94	21:06:29.666	20MV6A	6CKSUM	MAG,4040,46F0		2R3	4	0	3,898,671:12:0
1955	97	94	21:07:27.666	480MV6	6MROH		12 read from LLM1A12,2282,0,A2	2R3	4	0	3,898,672:08:0
1956	97	94	21:07:27.666	480MV6A	6MROH	12,2282,0,A2	read from LLM1A12,2282,0,A2	2R3	4	0	3,898,672:08:0
1957	97	94	21:09:50.200		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *2554.27 +/- 4	2R3	4	0	3,898,674:39:8
1958	97	94	21:09:51.600		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *2554.15 +/- 4	2R3	4	0	3,898,674:41:9
1959	97	94	21:10:07.000		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *2550.54 +/- 4	2R3	4	0	3,898,674:65:0
1960	97	94	21:10:27.000		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *2545.85 +/- 4	2R3	4	0	3,898,675:04:0
1961	97	94	21:10:37.666	176GW6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	3,898,675:20:0
1962	97	94	21:10:47.533		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *2547.21 +/- 4	2R3	4	0	3,898,675:34:8
1963	97	94	21:10:48.933		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *2547.09 +/- 4	2R3	4	0	3,898,675:36:9
1964	97	94	21:10:49.666		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *2546.91 +/- 4	2R3	4	0	3,898,675:38:0
1965	97	94	21:10:57.000		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *2545.20 +/- 4	2R3	4	0	3,898,675:49:0
1966	**97**	**94**	**21:12:29.666**	**G7JNFEAP6602-**		**-----START------**		**2R3**	**4**	**0**	**: :**
1967	97	94	21:13:25.000	165EL4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,898,677:89:0
1968	97	94	21:13:25.666	165EL4B	7SCAN	NORM,31.142,15.6	Check S/P Position	2R3	4	0	3,898,677:90:0
1969	97	94	21:14:07.666	480MV6B	6MROH	12,2282,0,A2	read from LLM1A12,2282,0,A2	2R3	4	0	3,898,678:62:0
1970	97	94	21:14:07.666	480MV6	6MROH		12 read from LLM1A12,2282,0,A2	2R3	4	0	3,898,678:62:0
1971	97	94	21:14:22.333	127LE	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	3,898,678:84:0
1972	**97**	**94**	**21:14:22.333**	**127LE4A**	**37IOP**	**5,1**	**Short Map, Grating Start Position =01**	**2R5**	**4**	**1**	**3,898,678:84:0**
1973	**97**	**94**	**21:14:23.000**	**127LE4B**	**37ETB**		**Loads wavelength edit table**	**2R5**	**4**	**1**	**3,898,678:85:0**
1974	97	94	21:14:31.000	127LE11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R5	4	1	3,898,679:06:0
1975	97	94	21:15:15.000	175EL422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,898,679:72:0
1976	97	94	21:15:18.333	117EL	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,898,679:77:0
1977	97	94	21:15:22.866		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *2546.55 +/- 4	2R5	4	1	3,898,679:83:8
1978	97	94	21:15:24.266		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *2546.43 +/- 4	2R5	4	1	3,898,679:85:9

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1979	97	94	21:15:24.266		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC 2546.43 +/- 4	2R5	4	1	3,898,679:85:9	
1980	97	94	21:15:24.333	175EL176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	3,898,679:86:0	
1981	97	94	21:15:27.666	117EL105A106A4A	**7STRP**	**0.032802,0.0,0,0**	**Slew =,0.11**	2R5	4	1	3,898,680:00:0	
1982	**97**	**94**	**21:15:27.689**	**G7JNFEAP6602-**	**NIMPBK**	**301EN**	**JUPITER FEATURE TRACK 66 DEG PHA**	**2R5**	**4**	**1**	**: :**	
1983	**97**	**94**	**21:20:25.022**	**G7JNFEAP6602-**	**DESELC**	**300EN**	**JUPITER FEATURE TRACK 66 DEG PHA**	**2R5**	**4**	**1**	**: :**	
1984	97	94	21:20:27.666	117EL11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,898,684:86:0	
1985	97	94	21:20:35.000		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *2473.60 +/- 4	2R5	4	1	3,898,685:06:0	
1986	97	94	21:20:35.000	175EL422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,898,685:06:0	
1987	97	94	21:20:35.000	175EL6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,898,685:06:0	
1988	**97**	**94**	**21:20:35.000**	**G7JNFEAP6602-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**	
1989	**97**	**94**	**21:21:35.666**	**G7JNPFTB6602-**		**-----START------**		**2R5**	**4**	**1**	**: :**	
1990	97	94	21:22:31.000	165EM4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,898,686:89:0	
1991	97	94	21:22:31.666	165EM4B	7SCAN	NORM,30.043,17.9	Check S/P Position	2R5	4	1	3,898,686:90:0	
1992	97	94	21:25:21.666	175EM422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,898,689:72:0	
1993	97	94	21:25:25.000	117EM	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,898,689:77:0	
1994	97	94	21:25:29.533		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *2474.96 +/- 4	2R5	4	1	3,898,689:83:8	
1995	97	94	21:25:30.933		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC 2474.84 +/- 4	2R5	4	1	3,898,689:85:9	
1996	97	94	21:25:30.933		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *2474.84 +/- 4	2R5	4	1	3,898,689:85:9	
1997	97	94	21:25:31.000	175EM176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	3,898,689:86:0	
1998	97	94	21:25:34.333	117EM105A106A4A	**7STRP**	**0.0108,0.0,0,0,0**	**Slew =,0.11**	2R5	4	1	3,898,690:00:0	
1999	**97**	**94**	**21:25:34.356**	**G7JNPFTB6602-**	**NIMPBK**	**301EO**	**JUPITER PARTIAL FTR TRK B 66 DEG**	**2R5**	**4**	**1**	**: :**	
2000	97	94	21:27:14.333	117EM105A106A4B	**7STRP**	**-0.011701,0.008,**	**Slew =12.01**	2R5	4	1	3,898,691:59:0	
2001	97	94	21:27:27.666	117EM105A106A4C	**7STRP**	**0.0108,0.0,0,0,0**	**Slew =,0.11**	2R5	4	1	3,898,691:79:0	
2002	97	94	21:29:07.666	117EM11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,898,693:47:0	
2003	**97**	**94**	**21:29:07.689**	**G7JNPFTB6602-**	**DESELC**	**300EO**	**JUPITER PARTIAL FTR TRK B 66 DEG**	**2R5**	**4**	**1**	**: :**	
2004	97	94	21:29:19.000		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *2421.38 +/- 4	2R5	4	1	3,898,693:64:0	
2005	97	94	21:29:19.000	175EM422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,898,693:64:0	
2006	97	94	21:29:19.000	175EM6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,898,693:64:0	
2007	**97**	**94**	**21:29:41.000**	**G7JNPFTB6602-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**	
2008	**97**	**94**	**21:30:41.666**	**G7JNPFC06601-**		**-----START------**		**2R5**	**4**	**1**	**: :**	
2009	97	94	21:31:37.000	165EN4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,898,695:89:0	
2010	97	94	21:31:37.666	165EN4B	7SCAN	NORM,31.264,16.2	Check S/P Position	2R5	4	1	3,898,695:90:0	
2011	97	94	21:33:27.000	175EN422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,898,697:72:0	
2012	97	94	21:33:30.333	117EN	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,898,697:77:0	
2013	97	94	21:33:34.866		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *2422.74 +/- 4	2R5	4	1	3,898,697:83:8	
2014	97	94	21:33:36.266		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC 2422.62 +/- 4	2R5	4	1	3,898,697:85:9	
2015	97	94	21:33:36.266		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *2422.62 +/- 4	2R5	4	1	3,898,697:85:9	
2016	97	94	21:33:36.333	175EN176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	3,898,697:86:0	
2017	97	94	21:33:39.666	117EN105A106A4A	**7STRP**	**0.032802,0.0,0,0**	**Slew =,0.11**	2R5	4	1	3,898,698:00:0	
2018	**97**	**94**	**21:33:39.689**	**G7JNPFC06601-**	**NIMPBK**	**301EP**	**JUPITER FTR TRK 66 DEG PHASE PT**	**2R5**	**4**	**1**	**: :**	
2019	97	94	21:38:39.666	117EN11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,898,702:86:0	
2020	**97**	**94**	**21:38:39.688**	**G7JNPFC06601-**	**DESELC**	**300EP**	**JUPITER FTR TRK 66 DEG PHASE PT**	**2R5**	**4**	**1**	**: :**	
2021	97	94	21:38:41.666	165GX4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,898,702:89:0	
2022	97	94	21:38:42.333	165GX4B	7SCAN	NORM,29.941,17.7	Check S/P Position	2R5	4	1	3,898,702:90:0	
2023	97	94	21:38:51.000	175EN6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,898,703:12:0	
2024	97	94	21:38:51.000	175EN422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,898,703:12:0	
2025	97	94	21:38:51.000		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *2348.85 +/- 4	2R5	4	1	3,898,703:12:0	
2026	**97**	**94**	**21:40:48.333**	**G7JNPFC06601-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**	
2027	97	94	21:42:36.333	117GX	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,898,706:77:0	
2028	97	94	21:42:45.666	176GX6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R5	4	1	3,898,707:00:0	
2029	97	94	21:42:45.666	117GX105A106A4A	7STRP	-0.017502,0.0,0,	Slew =,0.31	2R5	4	1	3,898,707:00:0	
2030	97	94	21:43:45.000	117GX105A106A4B	7STRP	0.017102,0.0013,	Slew =12.01	2R5	4	1	3,898,707:89:0	
2031	97	94	21:43:50.333	117GX105A106A4C	7STRP	-0.017502,0.0,0,	Slew =,0.31	2R5	4	1	3,898,708:06:0	
2032	97	94	21:44:49.666	117GX105A106A4D	7STRP	0.017102,0.0013,	Slew =12.01	2R5	4	1	3,898,709:04:0	
2033	97	94	21:44:55.000	117GX105A106A4E	7STRP	-0.017502,0.0,0,	Slew =,0.31	2R5	4	1	3,898,709:12:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2034	97	94	21:45:54.333	117GX105A106A4F	7STRP	0.017102,0.0013,	Slew =12.01	2R5	4	1	3,898,710:10:0	
2035	97	94	21:45:59.666	117GX105A106A4G	7STRP	-0.017502,0.0,0,	Slew =,0.31	2R5	4	1	3,898,710:18:0	
2036	97	94	21:46:59.000	117GX105A106A4H	7STRP	0.017102,0.0013,	Slew =12.01	2R5	4	1	3,898,711:16:0	
2037	97	94	21:47:04.333	117GX105A106A4I	7STRP	-0.017502,0.0,0,	Slew =,0.31	2R5	4	1	3,898,711:24:0	
2038	97	94	21:48:03.666	117GX105A106A4J	7STRP	0.017102,0.0013,	Slew =12.01	2R5	4	1	3,898,712:22:0	
2039	97	94	21:48:09.000	117GX105A106A4K	7STRP	-0.017502,0.0,0,	Slew =,0.31	2R5	4	1	3,898,712:30:0	
2040	97	94	21:49:08.333	117GX105A106A4L	7STRP	0.017102,0.0013,	Slew =12.01	2R5	4	1	3,898,713:28:0	
2041	97	94	21:49:13.666	117GX105A106A4M	7STRP	-0.017502,0.0,0,	Slew =,0.31	2R5	4	1	3,898,713:36:0	
2042	97	94	21:50:13.000	117GX105A106A4N	7STRP	0.017102,0.0013,	Slew =12.01	2R5	4	1	3,898,714:34:0	
2043	97	94	21:50:18.333	117GX105A106A4O	7STRP	-0.017502,0.0,0,	Slew =,0.31	2R5	4	1	3,898,714:42:0	
2044	97	94	21:51:17.666	117GX105A106A4P	7STRP	0.017102,0.0013,	Slew =12.01	2R5	4	1	3,898,715:40:0	
2045	97	94	21:51:23.000	117GX105A106A4Q	7STRP	-0.017502,0.0,0,	Slew =,0.31	2R5	4	1	3,898,715:48:0	
2046	97	94	21:52:22.333	117GX105A106A4R	7STRP	0.017102,0.0013,	Slew =12.01	2R5	4	1	3,898,716:46:0	
2047	97	94	21:52:27.666	117GX105A106A4S	7STRP	-0.017502,0.0,0,	Slew =,0.31	2R5	4	1	3,898,716:54:0	
2048	97	94	21:53:27.000	117GX105A106A4T	7STRP	0.017102,0.0013,	Slew =12.01	2R5	4	1	3,898,717:52:0	
2049	97	94	21:53:32.333	117GX105A106A4U	7STRP	-0.017502,0.0,0,	Slew =,0.31	2R5	4	1	3,898,717:60:0	
2050	97	94	21:54:31.666	117GX105A106A4V	7STRP	0.017102,0.0013,	Slew =12.01	2R5	4	1	3,898,718:58:0	
2051	97	94	21:54:37.000	117GX105A106A4W	7STRP	-0.017502,0.0,0,	Slew =,0.31	2R5	4	1	3,898,718:66:0	
2052	97	94	21:55:36.333	117GX105A106A4X	7STRP	0.017102,0.0013,	Slew =12.01	2R5	4	1	3,898,719:64:0	
2053	97	94	21:55:41.666	117GX105A106A4Y	7STRP	-0.017502,0.0,0,	Slew =,0.31	2R5	4	1	3,898,719:72:0	
2054	97	94	21:56:41.000	117GX105A106A4Z	7STRP	0.017102,0.0013,	Slew =12.01	2R5	4	1	3,898,720:70:0	
2055	97	94	21:56:46.333	117GX105A106A4AA	7STRP	-0.017502,0.0,0,	Slew =,0.31	2R5	4	1	3,898,720:78:0	
2056	97	94	21:56:48.200		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *2350.21 +/- 4	2R5	4	1	3,898,720:80:8	
2057	97	94	21:56:49.600		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *2350.09 +/- 4	2R5	4	1	3,898,720:82:9	
2058	97	94	21:57:07.666		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *2345.85 +/- 4	2R5	4	1	3,898,721:19:0	
2059	97	94	21:57:27.666		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *2341.16 +/- 4	2R5	4	1	3,898,721:49:0	
2060	97	94	21:57:45.666	117GX105A106A4AB	7STRP	0.017102,0.0013,	Slew =12.01	2R5	4	1	3,898,721:76:0	
2061	97	94	21:57:51.000	117GX105A106A4AC	7STRP	-0.017502,0.0,0,	Slew =,0.31	2R5	4	1	3,898,721:84:0	
2062	97	94	21:58:50.333	117GX11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,898,722:82:0	
2063	97	94	22:01:33.666	176GX6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,898,725:54:0	
2064	97	94	22:01:43.533		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *2342.52 +/- 4	2R5	4	1	3,898,725:68:8	
2065	97	94	22:01:44.933		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *2342.40 +/- 4	2R5	4	1	3,898,725:70:9	
2066	97	94	22:01:45.666		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *2342.23 +/- 4	2R5	4	1	3,898,725:72:0	
2067	97	94	22:01:56.333		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *2339.73 +/- 4	2R5	4	1	3,898,725:88:0	
2068	**97**	**94**	**22:04:03.666**	**G7JNFEA53M01-**		**-----START------**		**2R5**	**4**	**1**	**: :**	
2069	97	94	22:04:55.666	125EO11A	NIMSINIT	GE	##### GROUP END INIT	2R5	4	1	3,898,728:84:0	
2070	97	94	22:04:55.666	125EO	NIMSINIT	GS	##### GROUP START INIT	2R5	4	1	3,898,728:84:0	
2071	**97**	**94**	**22:04:55.666**	**125EO4A**	**37IST**	**0,2,0,OFF,0,1,1**	**Gain State 4**	**4R5**	**4**	**1**	**3,898,728:84:0**	
2072	**97**	**94**	**22:05:56.333**	**127EO4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**4R3**	**4**	**0**	**3,898,729:84:0**	
2073	97	94	22:05:56.333	127EO	NIMSTAB	GS	%%%%% GROUP START TAB	4R3	4	0	3,898,729:84:0	
2074	**97**	**94**	**22:05:57.000**	**127EO4B**	**37ETB**		**Loads wavelength edit table**	**4R3**	**4**	**0**	**3,898,729:85:0**	
2075	97	94	22:05:59.666	165EO4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,898,729:89:0	
2076	97	94	22:06:00.333	165EO4B	7SCAN	NORM,30.685,15.4	Check S/P Position	4R3	4	0	3,898,729:90:0	
2077	97	94	22:06:05.000	127EO11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	3,898,730:06:0	
2078	97	94	22:06:49.000	175EO422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	3,898,730:72:0	
2079	97	94	22:06:52.333	117EO	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	3,898,730:77:0	
2080	97	94	22:06:56.866		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *2341.08 +/- 4	4R3	4	0	3,898,730:83:8	
2081	97	94	22:06:58.266		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC 2340.96 +/- 4	4R3	4	0	3,898,730:85:9	
2082	97	94	22:06:58.266		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *2340.96 +/- 4	4R3	4	0	3,898,730:85:9	
2083	97	94	22:06:58.333	175EO176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	4R3	4	0	3,898,730:86:0	
2084	97	94	22:07:01.666	117EO105A106A4A	**7STRP**	**0.0072,0.0,0,0,0**	**Slew =,0.02**	4R3	4	0	3,898,731:00:0	
2085	**97**	**94**	**22:07:01.687**	**G7JNFEA53M01-**	**NIMPBK**	**301EQ**	**JUPITER CAMPAIGN FEATURE 5 AND 3**	**4R3**	**4**	**0**	**: :**	
2086	**97**	**94**	**22:12:21.687**	**G7JNFEA53M01-**	**DESELC**	**300EQ**	**JUPITER CAMPAIGN FEATURE 5 AND 3**	**4R3**	**4**	**0**	**: :**	
2087	97	94	22:13:04.333	117EO105A106A4B	**7STRP**	**-0.01,0.0,0,0,0,**	**Slew =12.01**	4R3	4	0	3,898,736:89:0	
2088	97	94	22:15:05.666	117EO105A106A4C	**7STRP**	**0.0072,0.0,0,0,0**	**Slew =,0.02**	4R3	4	0	3,898,738:89:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
2089	97	94	22:21:08.333	117EO11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	3,898,744:87:0
2090	97	94	22:21:22.333		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *2138.45 +/- 4	4R3	4	0	3,898,745:17:0
2091	97	94	22:21:22.333	175EO6A	6TMREC	**NRC**	NO RECORD Record Mode Change	4R3	4	0	3,898,745:17:0
2092	97	94	22:21:22.333	175EO422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,898,745:17:0
2093	**97**	**94**	**22:21:34.999**	**G7JNFEA53M01-**		**-----STOP-------**		**4R3**	**4**	**0**	**: :**
2094	97	94	22:22:10.333	165GY4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,898,745:89:0
2095	97	94	22:22:11.000	165GY4B	7SCAN	NORM,30.735,17.1	Check S/P Position	4R3	4	0	3,898,745:90:0
2096	**97**	**94**	**22:22:15.666**	**G7NNNIMSLD11-**		**-----START------**		**4R3**	**4**	**0**	**: :**
2097	**97**	**94**	**22:23:16.333**	**20EL6A**	**6CKSUM**	**NIMS**	**NIMS,1000,14BC**	**4R3**	**4**	**0**	**3,898,747:06:0**
2098	**97**	**94**	**22:24:17.000**	**20EL5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**4R3**	**4**	**0**	**3,898,748:06:0**
2099	**97**	**94**	**22:25:17.666**	**20EL5B**	**37MRL**		**Memory Realocate (software operates from R**	**4R3**	**4**	**0**	**3,898,749:06:0**
2100	97	94	22:26:05.000	117GY	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	3,898,749:77:0
2101	97	94	22:26:14.333	176GY6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	4R3	4	0	3,898,750:00:0
2102	97	94	22:26:14.333	117GY105A106A4A	7STRP	0.0,0.042526,0,0	Slew =,0.63	4R3	4	0	3,898,750:00:0
2103	**97**	**94**	**22:26:18.333**	**20EL6B**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**4R3**	**4**	**0**	**3,898,750:06:0**
2104	**97**	**94**	**22:27:19.000**	**20EL6C**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**4R3**	**4**	**0**	**3,898,751:06:0**
2105	97	94	22:27:26.333	117GY105A106A4B	7STRP	-0.0018,-0.04252	Slew =12.01	4R3	4	0	3,898,751:17:0
2106	97	94	22:27:37.000	117GY105A106A4C	7STRP	0.0,0.042526,0,0	Slew =,0.63	4R3	4	0	3,898,751:33:0
2107	**97**	**94**	**22:28:19.666**	**20EL5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**3,898,752:06:0**
2108	97	94	22:28:49.000	117GY105A106A4D	7STRP	-0.0018,-0.04252	Slew =12.01	260	4	0	3,898,752:50:0
2109	97	94	22:28:59.666	117GY105A106A4E	7STRP	0.0,0.042526,0,0	Slew =,0.63	260	4	0	3,898,752:66:0
2110	**97**	**94**	**22:29:20.333**	**20EL5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**3,898,753:06:0**
2111	97	94	22:30:11.666	117GY105A106A4F	7STRP	-0.0018,-0.04252	Slew =12.01	260	4	0	3,898,753:83:0
2112	**97**	**94**	**22:30:21.000**	**20EL4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**3,898,754:06:0**
2113	97	94	22:30:22.333	117GY105A106A4G	7STRP	0.0,0.042526,0,0	Slew =,0.63	2R0	4	0	3,898,754:08:0
2114	**97**	**94**	**22:31:21.666**	**20EL4B**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**3,898,755:06:0**
2115	97	94	22:31:34.333	117GY105A106A4H	7STRP	-0.0018,-0.04252	Slew =12.01	2R3	4	0	3,898,755:25:0
2116	97	94	22:31:45.000	117GY105A106A4I	7STRP	0.0,0.042526,0,0	Slew =,0.63	2R3	4	0	3,898,755:41:0
2117	**97**	**94**	**22:32:22.332**	**G7NNNIMSLD11-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**
2118	97	94	22:32:57.000	117GY105A106A4J	7STRP	-0.0018,-0.04252	Slew =12.01	2R3	4	0	3,898,756:58:0
2119	97	94	22:33:07.666	117GY105A106A4K	7STRP	0.0,0.042526,0,0	Slew =,0.63	2R3	4	0	3,898,756:74:0
2120	97	94	22:34:19.666	117GY105A106A4L	7STRP	-0.0018,-0.04252	Slew =12.01	2R3	4	0	3,898,758:00:0
2121	97	94	22:34:30.333	117GY105A106A4M	7STRP	0.0,0.042526,0,0	Slew =,0.63	2R3	4	0	3,898,758:16:0
2122	97	94	22:35:42.333	117GY105A106A4N	7STRP	-0.0018,-0.04252	Slew =12.01	2R3	4	0	3,898,759:33:0
2123	97	94	22:35:53.000	117GY105A106A4O	7STRP	0.0,0.042526,0,0	Slew =,0.63	2R3	4	0	3,898,759:49:0
2124	97	94	22:37:05.000	117GY105A106A4P	7STRP	-0.0018,-0.04252	Slew =12.01	2R3	4	0	3,898,760:66:0
2125	97	94	22:37:15.666	117GY105A106A4Q	7STRP	0.0,0.042526,0,0	Slew =,0.63	2R3	4	0	3,898,760:82:0
2126	97	94	22:38:27.666	117GY105A106A4R	7STRP	-0.0018,-0.04252	Slew =12.01	2R3	4	0	3,898,762:08:0
2127	97	94	22:38:38.333	117GY105A106A4S	7STRP	0.0,0.042526,0,0	Slew =,0.63	2R3	4	0	3,898,762:24:0
2128	97	94	22:38:54.200		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *2139.80 +/- 4	2R3	4	0	3,898,762:47:8
2129	97	94	22:38:55.600		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *2139.68 +/- 4	2R3	4	0	3,898,762:49:9
2130	97	94	22:39:13.666		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *2135.45 +/- 4	2R3	4	0	3,898,762:77:0
2131	97	94	22:39:33.666		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *2130.76 +/- 4	2R3	4	0	3,898,763:16:0
2132	97	94	22:39:50.333	117GY105A106A4T	7STRP	-0.0018,-0.04252	Slew =12.01	2R3	4	0	3,898,763:41:0
2133	97	94	22:40:01.000	117GY105A106A4U	7STRP	0.0,0.042526,0,0	Slew =,0.63	2R3	4	0	3,898,763:57:0
2134	97	94	22:41:13.000	117GY105A106A4V	7STRP	-0.0018,-0.04252	Slew =12.01	2R3	4	0	3,898,764:74:0
2135	97	94	22:41:23.666	117GY105A106A4W	7STRP	0.0,0.042526,0,0	Slew =,0.63	2R3	4	0	3,898,764:90:0
2136	97	94	22:42:35.666	117GY105A106A4X	7STRP	-0.0018,-0.04252	Slew =12.01	2R3	4	0	3,898,766:16:0
2137	97	94	22:42:46.333	117GY105A106A4Y	7STRP	0.0,0.042526,0,0	Slew =,0.63	2R3	4	0	3,898,766:32:0
2138	97	94	22:43:58.333	117GY105A106A4Z	7STRP	-0.0018,-0.04252	Slew =12.01	2R3	4	0	3,898,767:49:0
2139	97	94	22:44:09.000	117GY105A106A4AA	7STRP	0.0,0.042526,0,0	Slew =,0.63	2R3	4	0	3,898,767:65:0
2140	97	94	22:45:21.000	117GY105A106A4AB	7STRP	-0.0018,-0.04252	Slew =12.01	2R3	4	0	3,898,768:82:0
2141	97	94	22:45:31.666	117GY105A106A4AC	7STRP	0.0,0.042526,0,0	Slew =,0.63	2R3	4	0	3,898,769:07:0
2142	97	94	22:46:43.666	117GY105A106A4AD	7STRP	-0.0018,-0.04252	Slew =12.01	2R3	4	0	3,898,770:24:0
2143	97	94	22:46:54.333	117GY105A106A4AE	7STRP	0.0,0.042526,0,0	Slew =,0.63	2R3	4	0	3,898,770:40:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
2144	97	94	22:48:06.333	117GY105A106A4AF	7STRP	-0.0018,-0.04252	Slew =12.01	2R3	4	0	3,898,771:57:0
2145	97	94	22:48:17.000	117GY105A106A4AG	7STRP	0.0,0.042526,0,0	Slew =,0.63	2R3	4	0	3,898,771:73:0
2146	97	94	22:49:29.000	117GY105A106A4AH	7STRP	-0.0018,-0.04252	Slew =12.01	2R3	4	0	3,898,772:90:0
2147	97	94	22:49:39.666	117GY105A106A4AI	7STRP	0.0,0.042526,0,0	Slew =,0.63	2R3	4	0	3,898,773:15:0
2148	97	94	22:50:51.666	117GY11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	3,898,774:32:0
2149	97	94	22:51:31.000	176GY6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	3,898,775:00:0
2150	97	94	22:51:40.866		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *2132.11 +/- 4	2R3	4	0	3,898,775:14:8
2151	97	94	22:51:42.266		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *2131.99 +/- 4	2R3	4	0	3,898,775:16:9
2152	97	94	22:51:43.000		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *2131.82 +/- 4	2R3	4	0	3,898,775:18:0
2153	97	94	22:52:01.666		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *2127.45 +/- 4	2R3	4	0	3,898,775:46:0
2154	**97**	**94**	**22:53:36.332**	**G7JNFEA5UM01-**		**-----START------**		**2R3**	**4**	**0**	**: :**
2155	97	94	22:54:31.666	165EP4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,898,777:89:0
2156	97	94	22:54:32.333	165EP4B	7SCAN	NORM,31.754,15.8	Check S/P Position	2R3	4	0	3,898,777:90:0
2157	**97**	**94**	**22:55:29.000**	**125EP4A**	**37IST**	**0,2,0,OFF,0,1,1**	**Gain State 4**	**4R3**	**4**	**0**	**3,898,778:84:0**
2158	97	94	22:55:29.000	125EP11A	NIMSINIT	GE	##### GROUP END INIT	4R3	4	0	3,898,778:84:0
2159	97	94	22:55:29.000	125EP	NIMSINIT	GS	##### GROUP START INIT	4R3	4	0	3,898,778:84:0
2160	97	94	22:56:29.666	127EP	NIMSTAB	GS	%%%%% GROUP START TAB	4R3	4	0	3,898,779:84:0
2161	**97**	**94**	**22:56:30.333**	**127EP4A**	**37ETB**	**,CD,02,03,FF,1A,**	**Loads wavelength edit table**	**4R3**	**4**	**0**	**3,898,779:85:0**
2162	97	94	22:56:38.333	127EP11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	3,898,780:06:0
2163	97	94	22:57:19.666	175EP422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	4R3	4	0	3,898,780:68:0
2164	97	94	22:57:25.666	117EP	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	3,898,780:77:0
2165	97	94	22:57:27.533		DMS:	: *RUNUP	R28, TRACK *2, *REV, TIC *2128.80 +/- 4	4R3	4	0	3,898,780:79:8
2166	97	94	22:57:31.533		DMS:	: *AT_SPD	R28, TRACK 2, REV, TIC 2127.30 +/- 4	4R3	4	0	3,898,780:85:8
2167	97	94	22:57:31.533		DMS:	**: *RECORD**	R28, TRACK 2, REV, TIC *2127.30 +/- 4	4R3	4	0	3,898,780:85:8
2168	97	94	22:57:31.666	175EP176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	4R3	4	0	3,898,780:86:0
2169	97	94	22:57:35.000	117EP105A106A4A	**7STRP**	**0.0072,0.0,0,0,0**	**Slew =,0.02**	4R3	4	0	3,898,781:00:0
2170	**97**	**94**	**22:57:35.018**	**G7JNFEA5UM01-**	**NIMPBK**	**301ER**	**JUPITER FEATURE TRACK 5 MICRON M**	**4R3**	**4**	**0**	**: :**
2171	**97**	**94**	**23:02:35.018**	**G7JNFEA5UM01-**	**DESELC**	**300ER**	**JUPITER FEATURE TRACK 5 MICRON M**	**4R3**	**4**	**0**	**: :**
2172	97	94	23:03:39.000	117EP11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	3,898,787:00:0
2173	97	94	23:03:43.000		DMS:	**: *RUNDOWN**	R28, TRACK 2, REV, TIC *1800.82 +/- 4	4R3	4	0	3,898,787:06:0
2174	97	94	23:03:43.000	175EP422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,898,787:06:0
2175	**97**	**94**	**23:03:49.666**	**G7JNFEA5UM01-**		**-----STOP-------**		**4R3**	**4**	**0**	**: :**
2176	**97**	**94**	**23:14:50.332**	**G7NNHEALTH05-**		**-----START------**		**4R3**	**4**	**0**	**: :**
2177	97	94	23:15:42.333	125KG	NIMSINIT	GS	##### GROUP START INIT	4R3	4	0	3,898,798:84:0
2178	97	94	23:15:42.333	125KG11A	NIMSINIT	GE	##### GROUP END INIT	4R3	4	0	3,898,798:84:0
2179	**97**	**94**	**23:15:42.333**	**125KG4A**	**37IST**	**0,2,0,OFF,0,1,0**	**Gain State 2**	**2R3**	**4**	**0**	**3,898,798:84:0**
2180	97	94	23:16:43.000	127KG	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	3,898,799:84:0
2181	**97**	**94**	**23:16:43.666**	**127KG4A**	**37ETB**	**07,C7,02,80,44,3**	**Loads wavelength edit table**	**2R3**	**4**	**0**	**3,898,799:85:0**
2182	97	94	23:16:51.666	127KG11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	3,898,800:06:0
2183	**97**	**94**	**23:17:07.666**	**432EN6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**	**NIMS R/T SELECT**	**2R3**	**4**	**0**	**3,898,800:30:0**
2184	**97**	**94**	**23:18:07.000**	**432EO6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**2R3**	**4**	**0**	**3,898,801:28:0**
2185	**97**	**94**	**23:19:53.666**	**G7NNHEALTH05-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**
2186	97	94	23:49:57.000	175EQ422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	3,898,832:72:0
2187	97	94	23:50:04.866		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *1801.93 +/- 4	2R3	4	0	3,898,832:83:8
2188	97	94	23:50:06.266		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *1801.81 +/- 4	2R3	4	0	3,898,832:85:9
2189	97	94	23:50:06.266		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC 1801.81 +/- 4	2R3	4	0	3,898,832:85:9
2190	97	94	23:50:06.333	175EQ176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R3	4	0	3,898,832:86:0
2191	97	94	23:51:21.666	175EQ6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	3,898,834:17:0
2192	97	94	23:51:21.666	175EQ422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,898,834:17:0
2193	97	94	23:51:21.666		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *1784.14 +/- 4	2R3	4	0	3,898,834:17:0
2194	**97**	**95**	**00:08:25.733**	**G7INCHEMIS07-**		**-----START------**		**2R3**	**4**	**0**	**: :**
2195	97	95	00:09:21.000	165ER4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,898,851:89:0
2196	97	95	00:09:21.666	165ER4B	7SCAN	NORM,22.073,10.9	Check S/P Position	2R3	4	0	3,898,851:90:0
2197	97	95	00:11:19.000	127ER	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	3,898,853:84:0
2198	**97**	**95**	**00:11:19.666**	**127ER4A**	**37ETB**	**07,C7,02,05,80,0**	**Loads wavelength edit table**	**2R3**	**4**	**0**	**3,898,853:85:0**

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2199	97	95	00:11:27.666	127ER11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	3,898,854:06:0	
2200	97	95	00:12:11.666	175ER422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	3,898,854:72:0	
2201	97	95	00:12:15.000	117ER	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	3,898,854:77:0	
2202	97	95	00:12:19.533		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *1785.49 +/- 4	2R3	4	0	3,898,854:83:8	
2203	97	95	00:12:20.933		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *1785.37 +/- 4	2R3	4	0	3,898,854:85:9	
2204	97	95	00:12:20.933		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC 1785.37 +/- 4	2R3	4	0	3,898,854:85:9	
2205	97	95	00:12:21.000	175ER176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R3	4	0	3,898,854:86:0	
2206	97	95	00:12:24.333	117ER105A106A4A	**7STRP**	**-0.00179,0.0,0,0**	**Slew =,0.01**	2R3	4	0	3,898,855:00:0	
2207	97	95	00:15:25.000	117ER11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	3,898,857:89:0	
2208	97	95	00:15:25.000	165IT4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,898,857:89:0	
2209	97	95	00:15:25.666	165IT4B	7SCAN	NORM,22.519,10.9	Check S/P Position	2R3	4	0	3,898,857:90:0	
2210	97	95	00:15:27.666	175ER6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	3,898,858:02:0	
2211	97	95	00:15:27.666	175ER422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,898,858:02:0	
2212	97	95	00:15:27.666		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *1741.61 +/- 4	2R3	4	0	3,898,858:02:0	
2213	**97**	**95**	**00:15:30.333**	**20EM6A**	**6CKSUM**	**NIMS**	**NIMS,1000,14BC**	**2R3**	**4**	**0**	**3,898,858:06:0**	
2214	**97**	**95**	**00:15:37.066**	**G7INCHEMIS07-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**	
2215	**97**	**95**	**00:15:43.666**	**G7NNNIMSLD12-**		**-----START------**		**2R3**	**4**	**0**	**: :**	
2216	**97**	**95**	**00:16:31.000**	**20EM5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**2R3**	**4**	**0**	**3,898,859:06:0**	
2217	**97**	**95**	**00:17:31.666**	**20EM5B**	**37MRL**		**Memory Realocate (software operates from R**	**2R3**	**4**	**0**	**3,898,860:06:0**	
2218	**97**	**95**	**00:18:32.333**	**20EM6B**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**2R3**	**4**	**0**	**3,898,861:06:0**	
2219	97	95	00:19:21.000	118IT	**SMOS**	GS		2R3	4	0	3,898,861:79:0	
2220	97	95	00:19:31.000	118IT110A111A4A	7STRP	-0.0038,0.0,26,0	Slew =,3.51	2R3	4	0	3,898,862:03:0	
2221	**97**	**95**	**00:19:33.000**	**20EM6C**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**2R3**	**4**	**0**	**3,898,862:06:0**	
2222	97	95	00:19:39.666	118IT110A111A4B	7STRP	0.0033,-0.0036,0	Slew =,3.51	2R3	4	0	3,898,862:16:0	
2223	97	95	00:19:43.666	175IT422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	2R3	4	0	3,898,862:22:0	
2224	97	95	00:19:48.333	118IT110A111A4C	7STRP	-0.0038,0.0,26,0	Slew =,3.51	2R3	4	0	3,898,862:29:0	
2225	97	95	00:19:51.533		DMS:	: *RUNUP	R806, TRACK *2, *REV, TIC *1742.96 +/- 4	2R3	4	0	3,898,862:33:8	
2226	97	95	00:19:56.333	175IT176A6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	2R3	4	0	3,898,862:41:0	
2227	97	95	00:19:56.800		DMS:	: *AT_SPD	R806, TRACK 2, REV, TIC 1676.96 +/- 5	2R3	4	0	3,898,862:41:7	
2228	97	95	00:19:56.800		DMS:	**: *RECORD**	R806, TRACK 2, REV, TIC *1676.96 +/- 4	2R3	4	0	3,898,862:41:7	
2229	97	95	00:19:57.000	118IT11A	**SMOS**	GE		2R3	4	0	3,898,862:42:0	
2230	97	95	00:20:03.666	175IT422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,898,862:52:0	
2231	97	95	00:20:03.666		DMS:	**: *RUNDOWN**	R806, TRACK 2, REV, TIC *1507.98 +/- 5	2R3	4	0	3,898,862:52:0	
2232	**97**	**95**	**00:20:33.666**	**20EM5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**3,898,863:06:0**	
2233	**97**	**95**	**00:21:34.333**	**20EM5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**3,898,864:06:0**	
2234	**97**	**95**	**00:22:35.000**	**20EM4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**3,898,865:06:0**	
2235	**97**	**95**	**00:22:41.666**	**G7NNNIMSLD12-**		**-----STOP-------**		**2R0**	**4**	**0**	**: :**	
2236	**97**	**95**	**00:23:22.333**	**G7GNGLOBAL01-**		**-----START------**		**2R0**	**4**	**0**	**: :**	
2237	97	95	00:23:30.333	165ES4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R0	4	0	3,898,865:89:0	
2238	97	95	00:23:31.000	165ES4B	7SCAN	NORM,240.589998,	Check S/P Position	2R0	4	0	3,898,865:90:0	
2239	**97**	**95**	**00:23:35.666**	**20EM4B**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**3,898,866:06:0**	
2240	97	95	00:25:28.333	125ES11A	NIMSINIT	GE	##### GROUP END INIT	2R3	4	0	3,898,867:84:0	
2241	97	95	00:25:28.333	125ES	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	3,898,867:84:0	
2242	**97**	**95**	**00:25:28.333**	**125ES4A**	**37IST**	**0,2,0,OFF,0,1,2**	**Gain State 3**	**3R3**	**4**	**0**	**3,898,867:84:0**	
2243	97	95	00:26:29.000	127ES	NIMSTAB	GS	%%%%% GROUP START TAB	3R3	4	0	3,898,868:84:0	
2244	**97**	**95**	**00:26:29.666**	**127ES4A**	**37ETB**	**07,C7,02,0C,10,0**	**Loads wavelength edit table**	**3R3**	**4**	**0**	**3,898,868:85:0**	
2245	97	95	00:26:37.666	127ES11A	NIMSTAB	GE	%%%%% GROUP END TAB	3R3	4	0	3,898,869:06:0	
2246	97	95	00:27:21.666	175ES422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	3R3	4	0	3,898,869:72:0	
2247	97	95	00:27:25.000	117ES	**CSMOS**	GS	***** GROUP START CSMOS	3R3	4	0	3,898,869:77:0	
2248	97	95	00:27:29.533		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *1497.89 +/- 5	3R3	4	0	3,898,869:83:8	
2249	97	95	00:27:30.933		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC 1497.77 +/- 5	3R3	4	0	3,898,869:85:9	
2250	97	95	00:27:30.933		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *1497.77 +/- 5	3R3	4	0	3,898,869:85:9	
2251	97	95	00:27:31.000	175ES176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	3R3	4	0	3,898,869:86:0	
2252	97	95	00:27:34.333	117ES105A106A4A	**7STRP**	**0.021003,0.0,0,0**	**Slew =,0.03**	3R3	4	0	3,898,870:00:0	
2253	**97**	**95**	**00:27:34.349**	**G7GNGLOBAL01-**	**NIMPBK**	**301KD**	**GANYMEDE GLOBAL SURFACE MAP**	**3R3**	**4**	**0**	**: :**	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2254	**97**	**95**	**00:27:50.349**	**G7GNGLOBAL01-**	**NIMPBK**	**301EU**	**GANYMEDE GLOBAL SURFACE MAP**	**3R3**	**4**	**0**	**: :**	
2255	**97**	**95**	**00:27:54.349**	**G7GNGLOBAL01-**	**DESELC**	**300KD**	**GANYMEDE GLOBAL SURFACE MAP**	**3R3**	**4**	**0**	**: :**	
2256	**97**	**95**	**00:32:51.015**	**G7GNGLOBAL01-**	**DESELC**	**300EU**	**GANYMEDE GLOBAL SURFACE MAP**	**3R3**	**4**	**0**	**: :**	
2257	97	95	00:39:15.666	117ES105A106A4B	**7STRP**	**-0.021003,-0.009**	**Slew =0,9.0**	3R3	4	0	3,898,881:51:0	
2258	97	95	00:39:22.333	117ES105A106A4C	**7STRP**	**0.021003,0.0,0,0**	**Slew =,0.03**	3R3	4	0	3,898,881:61:0	
2259	**97**	**95**	**00:39:22.349**	**G7GNGLOBAL01-**	**NIMPBK**	**301FU**	**GANYMEDE GLOBAL SURFACE MAP**	**3R3**	**4**	**0**	**: :**	
2260	**97**	**95**	**00:39:35.015**	**G7GNGLOBAL01-**	**NIMPBK**	**301DB**	**GANYMEDE GLOBAL SURFACE MAP**	**3R3**	**4**	**0**	**: :**	
2261	**97**	**95**	**00:39:42.349**	**G7GNGLOBAL01-**	**DESELC**	**300FU**	**GANYMEDE GLOBAL SURFACE MAP**	**3R3**	**4**	**0**	**: :**	
2262	**97**	**95**	**00:46:49.014**	**G7GNGLOBAL01-**	**DESELC**	**300DB**	**GANYMEDE GLOBAL SURFACE MAP**	**3R3**	**4**	**0**	**: :**	
2263	97	95	00:51:03.666	117ES105A106A4D	**7STRP**	**-0.021003,-0.009**	**Slew =0,9.0**	3R3	4	0	3,898,893:21:0	
2264	97	95	00:51:10.333	117ES105A106A4E	**7STRP**	**0.021003,0.0,0,0**	**Slew =,0.03**	3R3	4	0	3,898,893:31:0	
2265	**97**	**95**	**00:51:10.348**	**G7GNGLOBAL01-**	**NIMPBK**	**301FV**	**GANYMEDE GLOBAL SURFACE MAP**	**3R3**	**4**	**0**	**: :**	
2266	**97**	**95**	**00:51:20.348**	**G7GNGLOBAL01-**	**NIMPBK**	**301KE**	**GANYMEDE GLOBAL SURFACE MAP**	**3R3**	**4**	**0**	**: :**	
2267	**97**	**95**	**00:51:34.348**	**G7GNGLOBAL01-**	**DESELC**	**300FV**	**GANYMEDE GLOBAL SURFACE MAP**	**3R3**	**4**	**0**	**: :**	
2268	**97**	**95**	**00:55:32.348**	**G7GNGLOBAL01-**	**DESELC**	**300KE**	**GANYMEDE GLOBAL SURFACE MAP**	**3R3**	**4**	**0**	**: :**	
2269	97	95	01:02:51.666	117ES11A	**CSMOS**	GE	***** GROUP END CSMOS	3R3	4	0	3,898,904:82:0	
2270	97	95	01:03:36.333	175ES422A6B	6DMSC	RDY,0	DMS Control Tape stop	3R3	4	0	3,898,905:58:0	
2271	97	95	01:03:36.333	175ES6A	6TMREC	**NRC**	NO RECORD Record Mode Change	3R3	4	0	3,898,905:58:0	
2272	97	95	01:03:36.333		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC * 990.26 +/- 5	3R3	4	0	3,898,905:58:0	
2273	97	95	01:03:57.000	165HA4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	3R3	4	0	3,898,905:89:0	
2274	97	95	01:03:57.666	165HA4B	7SCAN	NORM,240.495998,	Check S/P Position	3R3	4	0	3,898,905:90:0	
2275	**97**	**95**	**01:04:02.333**	**G7GNGLOBAL01-**		**-----STOP-------**		**3R3**	**4**	**0**	**: :**	
2276	97	95	01:04:49.666	117HA	**CSMOS**	GS	***** GROUP START CSMOS	3R3	4	0	3,898,906:77:0	
2277	97	95	01:04:59.000	117HA105A106A4A	7STRP	0.023504,0.0,0,0	Slew =,0.26	3R3	4	0	3,898,907:00:0	
2278	97	95	01:04:59.000	176HA6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	3R3	4	0	3,898,907:00:0	
2279	97	95	01:06:33.000	117HA105A106A4B	7STRP	-0.023504,-0.001	Slew =12.01	3R3	4	0	3,898,908:50:0	
2280	97	95	01:06:38.333	117HA105A106A4C	7STRP	0.023504,0.0,0,0	Slew =,0.26	3R3	4	0	3,898,908:58:0	
2281	97	95	01:08:12.333	117HA105A106A4D	7STRP	-0.023504,-0.001	Slew =12.01	3R3	4	0	3,898,910:17:0	
2282	97	95	01:08:17.666	117HA105A106A4E	7STRP	0.023504,0.0,0,0	Slew =,0.26	3R3	4	0	3,898,910:25:0	
2283	97	95	01:09:51.666	117HA105A106A4F	7STRP	-0.023504,-0.001	Slew =12.01	3R3	4	0	3,898,911:75:0	
2284	97	95	01:09:57.000	117HA105A106A4G	7STRP	0.023504,0.0,0,0	Slew =,0.26	3R3	4	0	3,898,911:83:0	
2285	97	95	01:11:31.000	117HA105A106A4H	7STRP	-0.023504,-0.001	Slew =12.01	3R3	4	0	3,898,913:42:0	
2286	97	95	01:11:36.333	117HA105A106A4I	7STRP	0.023504,0.0,0,0	Slew =,0.26	3R3	4	0	3,898,913:50:0	
2287	97	95	01:13:10.333	117HA105A106A4J	7STRP	-0.023504,-0.001	Slew =12.01	3R3	4	0	3,898,915:09:0	
2288	97	95	01:13:15.666	117HA105A106A4K	7STRP	0.023504,0.0,0,0	Slew =,0.26	3R3	4	0	3,898,915:17:0	
2289	97	95	01:14:49.666	117HA105A106A4L	7STRP	-0.023504,-0.001	Slew =12.01	3R3	4	0	3,898,916:67:0	
2290	97	95	01:14:55.000	117HA105A106A4M	7STRP	0.023504,0.0,0,0	Slew =,0.26	3R3	4	0	3,898,916:75:0	
2291	97	95	01:16:29.000	117HA105A106A4N	7STRP	-0.023504,-0.001	Slew =12.01	3R3	4	0	3,898,918:34:0	
2292	97	95	01:16:34.333	117HA105A106A4O	7STRP	0.023504,0.0,0,0	Slew =,0.26	3R3	4	0	3,898,918:42:0	
2293	97	95	01:17:42.200		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC * 991.61 +/- 5	3R3	4	0	3,898,919:52:8	
2294	97	95	01:17:43.600		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC * 991.49 +/- 5	3R3	4	0	3,898,919:54:9	
2295	97	95	01:17:59.000		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC * 987.88 +/- 5	3R3	4	0	3,898,919:78:0	
2296	97	95	01:18:08.333	117HA105A106A4P	7STRP	-0.023504,-0.001	Slew =12.01	3R3	4	0	3,898,920:01:0	
2297	97	95	01:18:13.666	117HA105A106A4Q	7STRP	0.023504,0.0,0,0	Slew =,0.26	3R3	4	0	3,898,920:09:0	
2298	97	95	01:18:19.000		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC * 983.19 +/- 5	3R3	4	0	3,898,920:17:0	
2299	97	95	01:19:47.666	117HA105A106A4R	7STRP	-0.023504,-0.001	Slew =12.01	3R3	4	0	3,898,921:59:0	
2300	97	95	01:19:53.000	117HA105A106A4S	7STRP	0.023504,0.0,0,0	Slew =,0.26	3R3	4	0	3,898,921:67:0	
2301	97	95	01:21:27.000	117HA105A106A4T	7STRP	-0.023504,-0.001	Slew =12.01	3R3	4	0	3,898,923:26:0	
2302	97	95	01:21:32.333	117HA105A106A4U	7STRP	0.023504,0.0,0,0	Slew =,0.26	3R3	4	0	3,898,923:34:0	
2303	97	95	01:23:06.333	117HA105A106A4V	7STRP	-0.023504,-0.001	Slew =12.01	3R3	4	0	3,898,924:84:0	
2304	97	95	01:23:11.666	117HA105A106A4W	7STRP	0.023504,0.0,0,0	Slew =,0.26	3R3	4	0	3,898,925:01:0	
2305	97	95	01:24:45.666	117HA105A106A4X	7STRP	-0.023504,-0.001	Slew =12.01	3R3	4	0	3,898,926:51:0	
2306	97	95	01:24:51.000	117HA105A106A4Y	7STRP	0.023504,0.0,0,0	Slew =,0.26	3R3	4	0	3,898,926:59:0	
2307	97	95	01:26:25.000	117HA105A106A4Z	7STRP	-0.023504,-0.001	Slew =12.01	3R3	4	0	3,898,928:18:0	
2308	97	95	01:26:30.333	117HA105A106A4AA	7STRP	0.023504,0.0,0,0	Slew =,0.26	3R3	4	0	3,898,928:26:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
2309	97	95	01:28:04.333	117HA105A106A4AB	7STRP	-0.023504,-0.001	Slew =12.01	3R3	4	0	3,898,929:76:0
2310	97	95	01:28:09.666	117HA105A106A4AC	7STRP	0.023504,0.0,0,0	Slew =,0.26	3R3	4	0	3,898,929:84:0
2311	97	95	01:29:43.666	117HA105A106A4AD	7STRP	-0.023504,-0.001	Slew =12.01	3R3	4	0	3,898,931:43:0
2312	97	95	01:29:49.000	117HA105A106A4AE	7STRP	0.023504,0.0,0,0	Slew =,0.26	3R3	4	0	3,898,931:51:0
2313	97	95	01:30:44.200		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC * 984.55 +/- 5	3R3	4	0	3,898,932:42:8
2314	97	95	01:30:45.600		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC * 984.43 +/- 5	3R3	4	0	3,898,932:44:9
2315	97	95	01:31:01.000		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC * 980.82 +/- 5	3R3	4	0	3,898,932:68:0
2316	97	95	01:31:21.000		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC * 976.13 +/- 5	3R3	4	0	3,898,933:07:0
2317	97	95	01:31:23.000	117HA105A106A4AF	7STRP	-0.023504,-0.001	Slew =12.01	3R3	4	0	3,898,933:10:0
2318	97	95	01:31:23.666	488AX6B	6TMSED	NORM,EL5	Sci, Eng, and D/L Chan	3R3	4	0	3,898,933:11:0
2319	97	95	01:31:28.333	117HA105A106A4AG	7STRP	0.023504,0.0,0,0	Slew =,0.26	3R3	4	0	3,898,933:18:0
2320	97	95	01:33:02.333	117HA105A106A4AH	7STRP	-0.023504,-0.001	Slew =12.01	3R3	4	0	3,898,934:68:0
2321	97	95	01:33:07.666	117HA105A106A4AI	7STRP	0.023504,0.0,0,0	Slew =,0.26	3R3	4	0	3,898,934:76:0
2322	97	95	01:34:41.666	117HA105A106A4AJ	7STRP	-0.023504,-0.001	Slew =12.01	3R3	4	0	3,898,936:35:0
2323	97	95	01:34:47.000	117HA105A106A4AK	7STRP	0.023504,0.0,0,0	Slew =,0.26	3R3	4	0	3,898,936:43:0
2324	97	95	01:36:21.000	117HA105A106A4AL	7STRP	-0.023504,-0.001	Slew =12.01	3R3	4	0	3,898,938:02:0
2325	97	95	01:36:26.333	117HA105A106A4AM	7STRP	0.023504,0.0,0,0	Slew =,0.26	3R3	4	0	3,898,938:10:0
2326	97	95	01:38:00.333	117HA105A106A4AN	7STRP	-0.023504,-0.001	Slew =12.01	3R3	4	0	3,898,939:60:0
2327	97	95	01:38:05.666	117HA105A106A4AO	7STRP	0.023504,0.0,0,0	Slew =,0.26	3R3	4	0	3,898,939:68:0
2328	97	95	01:39:39.666	117HA105A106A4AP	7STRP	-0.023504,-0.001	Slew =12.01	3R3	4	0	3,898,941:27:0
2329	97	95	01:39:45.000	117HA105A106A4AQ	7STRP	0.023504,0.0,0,0	Slew =,0.26	3R3	4	0	3,898,941:35:0
2330	97	95	01:41:19.000	117HA105A106A4AR	7STRP	-0.023504,-0.001	Slew =12.01	3R3	4	0	3,898,942:85:0
2331	97	95	01:41:24.333	117HA105A106A4AS	7STRP	0.023504,0.0,0,0	Slew =,0.26	3R3	4	0	3,898,943:02:0
2332	97	95	01:42:58.333	117HA105A106A4AT	7STRP	-0.023504,-0.001	Slew =12.01	3R3	4	0	3,898,944:52:0
2333	97	95	01:43:03.666	117HA105A106A4AU	7STRP	0.023504,0.0,0,0	Slew =,0.26	3R3	4	0	3,898,944:60:0
2334	97	95	01:43:46.200		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC * 977.48 +/- 5	3R3	4	0	3,898,945:32:8
2335	97	95	01:43:47.600		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC * 977.36 +/- 5	3R3	4	0	3,898,945:34:9
2336	97	95	01:44:03.000		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC * 973.76 +/- 5	3R3	4	0	3,898,945:58:0
2337	97	95	01:44:23.000		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC * 969.07 +/- 5	3R3	4	0	3,898,945:88:0
2338	97	95	01:44:37.666	117HA105A106A4AV	7STRP	-0.023504,-0.001	Slew =12.01	3R3	4	0	3,898,946:19:0
2339	97	95	01:44:43.000	117HA105A106A4AW	7STRP	0.023504,0.0,0,0	Slew =,0.26	3R3	4	0	3,898,946:27:0
2340	97	95	01:46:17.000	117HA105A106A4AX	7STRP	-0.023504,-0.001	Slew =12.01	3R3	4	0	3,898,947:77:0
2341	97	95	01:46:19.666	488AX6C	6TMSED	NORM,EL4	Sci, Eng, and D/L Chan	3R3	4	0	3,898,947:81:0
2342	97	95	01:46:22.333	117HA105A106A4AY	7STRP	0.023504,0.0,0,0	Slew =,0.26	3R3	4	0	3,898,947:85:0
2343	97	95	01:47:56.333	117HA105A106A4AZ	7STRP	-0.023504,-0.001	Slew =12.01	3R3	4	0	3,898,949:44:0
2344	97	95	01:48:01.666	117HA105A106A4BA	7STRP	0.023504,0.0,0,0	Slew =,0.26	3R3	4	0	3,898,949:52:0
2345	97	95	01:49:35.666	176HA6B	6TMREC	**NRC**	NO RECORD Record Mode Change	3R3	4	0	3,898,951:11:0
2346	97	95	01:49:35.666	117HA11A	**CSMOS**	GE	***** GROUP END CSMOS	3R3	4	0	3,898,951:11:0
2347	97	95	01:49:45.533		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC * 970.42 +/- 5	3R3	4	0	3,898,951:25:8
2348	97	95	01:49:46.933		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC * 970.30 +/- 5	3R3	4	0	3,898,951:27:9
2349	97	95	01:49:47.666		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC * 970.13 +/- 5	3R3	4	0	3,898,951:29:0
2350	97	95	01:49:59.666		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC * 967.32 +/- 5	3R3	4	0	3,898,951:47:0
2351	**97**	**95**	**01:50:33.000**	**G7JNFEX10801-**		**-----START------**		**3R3**	**4**	**0**	**: :**
2352	97	95	01:51:28.333	165ET4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	3R3	4	0	3,898,952:89:0
2353	97	95	01:51:29.000	165ET4B	7SCAN	NORM,49.115,21.1	Check S/P Position	3R3	4	0	3,898,952:90:0
2354	**97**	**95**	**01:53:26.333**	**125ET4A**	**37IST**	**0,2,0,OFF,0,1,0**	**Gain State 2**	**2R3**	**4**	**0**	**3,898,954:84:0**
2355	97	95	01:53:26.333	125ET	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	3,898,954:84:0
2356	97	95	01:53:26.333	125ET11A	NIMSINIT	GE	##### GROUP END INIT	2R3	4	0	3,898,954:84:0
2357	**97**	**95**	**01:54:27.000**	**127ET4A**	**37IOP**	**5,1**	**Short Map, Grating Start Position =01**	**2R5**	**4**	**1**	**3,898,955:84:0**
2358	97	95	01:54:27.000	127ET	NIMSTAB	GS	%%%%% GROUP START TAB	2R5	4	1	3,898,955:84:0
2359	**97**	**95**	**01:54:27.666**	**127ET4B**	**37ETB**		**Loads wavelength edit table**	**2R5**	**4**	**1**	**3,898,955:85:0**
2360	97	95	01:54:35.666	127ET11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R5	4	1	3,898,956:06:0
2361	97	95	01:55:17.000	175ET422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	2R5	4	1	3,898,956:68:0
2362	97	95	01:55:23.000	117ET	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,898,956:77:0
2363	97	95	01:55:24.866		DMS:	: *RUNUP	R28, TRACK *2, *REV, TIC * 968.67 +/- 5	2R5	4	1	3,898,956:79:8

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
2364	97	95	01:55:28.866		DMS:	: *AT_SPD	R28, TRACK 2, REV, TIC 967.17 +/- 5	2R5	4	1	3,898,956:85:8
2365	97	95	01:55:28.866		DMS:	**: *RECORD**	R28, TRACK 2, REV, TIC * 967.17 +/- 5	2R5	4	1	3,898,956:85:8
2366	97	95	01:55:29.000	175ET176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	2R5	4	1	3,898,956:86:0
2367	97	95	01:55:32.333	117ET105A106A4A	**7STRP**	**0.0108,0.0,0,0,0**	**Slew =,0.11**	2R5	4	1	3,898,957:00:0
2368	97	95	01:57:12.333	117ET11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,898,958:59:0
2369	97	95	01:57:16.333		DMS:	**: *RUNDOWN**	R28, TRACK 2, REV, TIC * 872.72 +/- 5	2R5	4	1	3,898,958:65:0
2370	97	95	01:57:16.333	175ET422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,898,958:65:0
2371	**97**	**95**	**02:10:46.334**	**G7JNFEX10801-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**
2372	97	95	02:15:44.333	165HB4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,898,976:89:0
2373	97	95	02:15:45.000	165HB4B	7SCAN	NORM,50.33,21.40	Check S/P Position	2R5	4	1	3,898,976:90:0
2374	97	95	02:19:39.000	117HB	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,898,980:77:0
2375	97	95	02:19:48.333	176HB6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R5	4	1	3,898,981:00:0
2376	97	95	02:19:48.333	117HB105A106A4A	7STRP	0.036216,0.0,0,0	Slew =,0.04	2R5	4	1	3,898,981:00:0
2377	97	95	02:32:31.533		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC * 873.83 +/- 5	2R5	4	1	3,898,993:52:8
2378	97	95	02:32:32.933		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC * 873.71 +/- 5	2R5	4	1	3,898,993:54:9
2379	97	95	02:32:48.333		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC * 870.10 +/- 5	2R5	4	1	3,898,993:78:0
2380	97	95	02:33:08.333		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC * 865.42 +/- 5	2R5	4	1	3,898,994:17:0
2381	97	95	02:34:58.333	117HB11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,898,996:00:0
2382	97	95	02:37:15.666	176HB6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,898,998:24:0
2383	97	95	02:37:25.533		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC * 866.77 +/- 5	2R5	4	1	3,898,998:38:8
2384	97	95	02:37:26.933		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC * 866.65 +/- 5	2R5	4	1	3,898,998:40:9
2385	97	95	02:37:27.666		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC * 866.48 +/- 5	2R5	4	1	3,898,998:42:0
2386	97	95	02:37:39.000		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC * 863.82 +/- 5	2R5	4	1	3,898,998:59:0
2387	**97**	**95**	**02:38:04.334**	**G7JNFEX10802-**		**-----START------**		**2R5**	**4**	**1**	**: :**
2388	97	95	02:38:59.666	165EU4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,898,999:89:0
2389	97	95	02:39:00.333	165EU4B	7SCAN	NORM,50.707,21.4	Check S/P Position	2R5	4	1	3,898,999:90:0
2390	97	95	02:42:51.000	175EU422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,899,003:72:0
2391	97	95	02:42:54.333	117EU	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,899,003:77:0
2392	97	95	02:42:58.866		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC * 865.18 +/- 5	2R5	4	1	3,899,003:83:8
2393	97	95	02:43:00.266		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC * 865.06 +/- 5	2R5	4	1	3,899,003:85:9
2394	97	95	02:43:00.266		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC 865.06 +/- 5	2R5	4	1	3,899,003:85:9
2395	97	95	02:43:00.333	175EU176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	3,899,003:86:0
2396	97	95	02:43:03.666	117EU105A106A4A	**7STRP**	**0.0108,0.0,0,0,0**	**Slew =,0.11**	2R5	4	1	3,899,004:00:0
2397	97	95	02:44:43.666	117EU11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,899,005:59:0
2398	97	95	02:44:55.000	175EU422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,899,005:76:0
2399	97	95	02:44:55.000	175EU6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,899,005:76:0
2400	97	95	02:44:55.000		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC * 838.17 +/- 5	2R5	4	1	3,899,005:76:0
2401	**97**	**95**	**02:46:09.667**	**G7JNFEX10802-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**
2402	97	95	02:56:43.666	488AY6A	6TMSED	NORM,EL3	Sci, Eng, and D/L Chan	2R5	4	1	3,899,017:47:0
2403	**97**	**95**	**03:13:27.667**	**G7NNNIMSLD13-**		**-----START------**		**2R5**	**4**	**1**	**: :**
2404	**97**	**95**	**03:14:28.333**	**20EN6A**	**6CKSUM**	**NIMS**	**NIMS,1000,14BC**	**2R5**	**4**	**1**	**3,899,035:06:0**
2405	**97**	**95**	**03:15:29.000**	**20EN5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**2R5**	**4**	**1**	**3,899,036:06:0**
2406	**97**	**95**	**03:16:29.666**	**20EN5B**	**37MRL**		**Memory Realocate (software operates from R**	**2R5**	**4**	**1**	**3,899,037:06:0**
2407	**97**	**95**	**03:17:30.333**	**20EN6B**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**2R5**	**4**	**1**	**3,899,038:06:0**
2408	**97**	**95**	**03:18:31.000**	**20EN6C**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**2R5**	**4**	**1**	**3,899,039:06:0**
2409	**97**	**95**	**03:19:31.666**	**20EN5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**3,899,040:06:0**
2410	**97**	**95**	**03:20:32.333**	**20EN5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**3,899,041:06:0**
2411	**97**	**95**	**03:21:33.000**	**20EN4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**3,899,042:06:0**
2412	**97**	**95**	**03:22:33.666**	**20EN4B**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**3,899,043:06:0**
2413	**97**	**95**	**03:23:34.334**	**G7NNNIMSLD13-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**
2414	**97**	**95**	**03:24:21.667**	**G7JNFEX10803-**		**-----START------**		**2R3**	**4**	**0**	**: :**
2415	97	95	03:24:29.666	165EV4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,899,044:89:0
2416	97	95	03:24:30.333	165EV4B	7SCAN	NORM,51.263,21.6	Check S/P Position	2R3	4	0	3,899,044:90:0
2417	97	95	03:26:27.000	488AY6B	6TMSED	FILL,EL3	Sci, Eng, and D/L Chan	2R3	4	0	3,899,046:83:0
2418	**97**	**95**	**03:27:28.333**	**127LF4A**	**37IOP**	**5,1**	**Short Map, Grating Start Position =01**	**2R5**	**4**	**1**	**3,899,047:84:0**

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2419	97	95	03:27:28.333	127LF	NIMSTAB	GS	%%%%% GROUP START TAB	2R5	4	1	3,899,047:84:0	
2420	**97**	**95**	**03:27:29.000**	**127LF4B**	**37ETB**		**Loads wavelength edit table**	**2R5**	**4**	**1**	**3,899,047:85:0**	
2421	97	95	03:27:37.000	127LF11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R5	4	1	3,899,048:06:0	
2422	97	95	03:28:21.000	175EV422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,899,048:72:0	
2423	97	95	03:28:24.333	117EV	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,899,048:77:0	
2424	97	95	03:28:28.866		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC * 839.52 +/- 5	2R5	4	1	3,899,048:83:8	
2425	97	95	03:28:30.266		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC * 839.40 +/- 5	2R5	4	1	3,899,048:85:9	
2426	97	95	03:28:30.266		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC 839.40 +/- 5	2R5	4	1	3,899,048:85:9	
2427	97	95	03:28:30.333	175EV176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	3,899,048:86:0	
2428	97	95	03:28:33.666	117EV105A106A4A	**7STRP**	**0.0108,0.0,0,0,0**	**Slew =,0.11**	2R5	4	1	3,899,049:00:0	
2429	**97**	**95**	**03:28:33.675**	**G7JNFEX10803-**	**NIMPBK**	**301EW**	**JUPITER FEATURE TRACK 108 DEG PH**	**2R5**	**4**	**1**	**: :**	
2430	97	95	03:30:13.666	117EV11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,899,050:59:0	
2431	**97**	**95**	**03:30:13.675**	**G7JNFEX10803-**	**DESELC**	**300EW**	**JUPITER FEATURE TRACK 108 DEG PH**	**2R5**	**4**	**1**	**: :**	
2432	97	95	03:30:25.000		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC * 812.51 +/- 5	2R5	4	1	3,899,050:76:0	
2433	97	95	03:30:25.000	175EV6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,899,050:76:0	
2434	97	95	03:30:25.000	175EV422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,899,050:76:0	
2435	97	95	03:32:59.666	488AY6C	6TMSED	FILL,EL2	Sci, Eng, and D/L Chan	2R5	4	1	3,899,053:35:0	
2436	97	95	03:37:38.333	165HC4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,899,057:89:0	
2437	97	95	03:37:39.000	165HC4B	7SCAN	NORM,241.056,-23	Check S/P Position	2R5	4	1	3,899,057:90:0	
2438	**97**	**95**	**03:38:44.334**	**G7JNFEX10803-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**	
2439	97	95	03:39:21.666	176HC6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R5	4	1	3,899,059:62:0	
2440	97	95	03:41:33.000	117HC	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,899,061:77:0	
2441	97	95	03:41:42.333	117HC105A106A4A	7STRP	0.022504,0.0,0,0	Slew =,0.44	2R5	4	1	3,899,062:00:0	
2442	97	95	03:42:37.000	117HC105A106A4B	7STRP	-0.022654,-0.001	Slew =0,9.4	2R5	4	1	3,899,062:82:0	
2443	97	95	03:42:43.000	117HC105A106A4C	7STRP	0.022504,0.0,0,0	Slew =,0.44	2R5	4	1	3,899,063:00:0	
2444	97	95	03:43:37.666	117HC105A106A4D	7STRP	-0.022654,-0.001	Slew =0,9.4	2R5	4	1	3,899,063:82:0	
2445	97	95	03:43:43.666	117HC105A106A4E	7STRP	0.022504,0.0,0,0	Slew =,0.44	2R5	4	1	3,899,064:00:0	
2446	97	95	03:44:38.333	117HC105A106A4F	7STRP	-0.022654,-0.001	Slew =0,9.4	2R5	4	1	3,899,064:82:0	
2447	97	95	03:44:44.333	117HC105A106A4G	7STRP	0.022504,0.0,0,0	Slew =,0.44	2R5	4	1	3,899,065:00:0	
2448	97	95	03:45:39.000	117HC105A106A4H	7STRP	-0.022654,-0.001	Slew =0,9.4	2R5	4	1	3,899,065:82:0	
2449	97	95	03:45:45.000	117HC105A106A4I	7STRP	0.022504,0.0,0,0	Slew =,0.44	2R5	4	1	3,899,066:00:0	
2450	97	95	03:46:39.666	117HC105A106A4J	7STRP	-0.022654,-0.001	Slew =0,9.4	2R5	4	1	3,899,066:82:0	
2451	97	95	03:46:45.666	117HC105A106A4K	7STRP	0.022504,0.0,0,0	Slew =,0.44	2R5	4	1	3,899,067:00:0	
2452	97	95	03:47:40.333	117HC105A106A4L	7STRP	-0.022654,-0.001	Slew =0,9.4	2R5	4	1	3,899,067:82:0	
2453	97	95	03:47:46.333	117HC105A106A4M	7STRP	0.022504,0.0,0,0	Slew =,0.44	2R5	4	1	3,899,068:00:0	
2454	97	95	03:48:41.000	117HC105A106A4N	7STRP	-0.022654,-0.001	Slew =0,9.4	2R5	4	1	3,899,068:82:0	
2455	97	95	03:48:47.000	117HC105A106A4O	7STRP	0.022504,0.0,0,0	Slew =,0.44	2R5	4	1	3,899,069:00:0	
2456	97	95	03:49:41.666	117HC105A106A4P	7STRP	-0.022654,-0.001	Slew =0,9.4	2R5	4	1	3,899,069:82:0	
2457	97	95	03:49:47.666	117HC105A106A4Q	7STRP	0.022504,0.0,0,0	Slew =,0.44	2R5	4	1	3,899,070:00:0	
2458	97	95	03:50:42.333	117HC105A106A4R	7STRP	-0.022654,-0.001	Slew =0,9.4	2R5	4	1	3,899,070:82:0	
2459	97	95	03:50:48.333	117HC105A106A4S	7STRP	0.022504,0.0,0,0	Slew =,0.44	2R5	4	1	3,899,071:00:0	
2460	97	95	03:51:43.000	117HC105A106A4T	7STRP	-0.022654,-0.001	Slew =0,9.4	2R5	4	1	3,899,071:82:0	
2461	97	95	03:51:49.000	117HC105A106A4U	7STRP	0.022504,0.0,0,0	Slew =,0.44	2R5	4	1	3,899,072:00:0	
2462	97	95	03:52:43.666	117HC105A106A4V	7STRP	-0.022654,-0.001	Slew =0,9.4	2R5	4	1	3,899,072:82:0	
2463	97	95	03:52:49.666	117HC105A106A4W	7STRP	0.022504,0.0,0,0	Slew =,0.44	2R5	4	1	3,899,073:00:0	
2464	97	95	03:53:26.866		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC * 813.86 +/- 5	2R5	4	1	3,899,073:55:8	
2465	97	95	03:53:28.266		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC * 813.74 +/- 5	2R5	4	1	3,899,073:57:9	
2466	97	95	03:53:43.666		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC * 810.14 +/- 5	2R5	4	1	3,899,073:81:0	
2467	97	95	03:53:44.333	117HC105A106A4X	7STRP	-0.022654,-0.001	Slew =0,9.4	2R5	4	1	3,899,073:82:0	
2468	97	95	03:53:50.333	117HC105A106A4Y	7STRP	0.022504,0.0,0,0	Slew =,0.44	2R5	4	1	3,899,074:00:0	
2469	97	95	03:54:03.666		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC * 805.45 +/- 5	2R5	4	1	3,899,074:20:0	
2470	97	95	03:54:37.666	488AY6D	6TMSED	NORM,EL2	Sci, Eng, and D/L Chan	2R5	4	1	3,899,074:71:0	
2471	97	95	03:54:45.000	117HC105A106A4Z	7STRP	-0.022654,-0.001	Slew =0,9.4	2R5	4	1	3,899,074:82:0	
2472	97	95	03:54:51.000	117HC105A106A4AA	7STRP	0.022504,0.0,0,0	Slew =,0.44	2R5	4	1	3,899,075:00:0	
2473	97	95	03:55:45.666	117HC105A106A4AB	7STRP	-0.022654,-0.001	Slew =0,9.4	2R5	4	1	3,899,075:82:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2474	97	95	03:55:51.666	117HC105A106A4AC	7STRP	0.022504,0.0,0,0	Slew =,0.44	2R5	4	1	3,899,076:00:0	
2475	97	95	03:56:46.333	117HC105A106A4AD	7STRP	-0.022654,-0.001	Slew =0,9.4	2R5	4	1	3,899,076:82:0	
2476	97	95	03:56:52.333	117HC105A106A4AE	7STRP	0.022504,0.0,0,0	Slew =,0.44	2R5	4	1	3,899,077:00:0	
2477	97	95	03:57:47.000	117HC105A106A4AF	7STRP	-0.022654,-0.001	Slew =0,9.4	2R5	4	1	3,899,077:82:0	
2478	97	95	03:57:53.000	117HC105A106A4AG	7STRP	0.022504,0.0,0,0	Slew =,0.44	2R5	4	1	3,899,078:00:0	
2479	97	95	03:58:47.666	117HC105A106A4AH	7STRP	-0.022654,-0.001	Slew =0,9.4	2R5	4	1	3,899,078:82:0	
2480	97	95	03:58:53.666	117HC105A106A4AI	7STRP	0.022504,0.0,0,0	Slew =,0.44	2R5	4	1	3,899,079:00:0	
2481	97	95	03:59:48.333	117HC105A106A4AJ	7STRP	-0.022654,-0.001	Slew =0,9.4	2R5	4	1	3,899,079:82:0	
2482	97	95	03:59:54.333	117HC105A106A4AK	7STRP	0.022504,0.0,0,0	Slew =,0.44	2R5	4	1	3,899,080:00:0	
2483	97	95	04:00:49.000	117HC105A106A4AL	7STRP	-0.022654,-0.001	Slew =0,9.4	2R5	4	1	3,899,080:82:0	
2484	97	95	04:00:55.000	117HC105A106A4AM	7STRP	0.022504,0.0,0,0	Slew =,0.44	2R5	4	1	3,899,081:00:0	
2485	97	95	04:01:49.666	117HC105A106A4AN	7STRP	-0.022654,-0.001	Slew =0,9.4	2R5	4	1	3,899,081:82:0	
2486	97	95	04:01:55.666	117HC105A106A4AO	7STRP	0.022504,0.0,0,0	Slew =,0.44	2R5	4	1	3,899,082:00:0	
2487	97	95	04:02:50.333	117HC105A106A4AP	7STRP	-0.022654,-0.001	Slew =0,9.4	2R5	4	1	3,899,082:82:0	
2488	97	95	04:02:56.333	117HC105A106A4AQ	7STRP	0.022504,0.0,0,0	Slew =,0.44	2R5	4	1	3,899,083:00:0	
2489	97	95	04:03:51.000	117HC105A106A4AR	7STRP	-0.022654,-0.001	Slew =0,9.4	2R5	4	1	3,899,083:82:0	
2490	97	95	04:03:57.000	117HC105A106A4AS	7STRP	0.022504,0.0,0,0	Slew =,0.44	2R5	4	1	3,899,084:00:0	
2491	97	95	04:04:51.666	117HC105A106A4AT	7STRP	-0.022654,-0.001	Slew =0,9.4	2R5	4	1	3,899,084:82:0	
2492	97	95	04:04:57.666	117HC105A106A4AU	7STRP	0.022504,0.0,0,0	Slew =,0.44	2R5	4	1	3,899,085:00:0	
2493	97	95	04:05:52.333	117HC105A106A4AV	7STRP	-0.022654,-0.001	Slew =0,9.4	2R5	4	1	3,899,085:82:0	
2494	97	95	04:05:58.333	117HC105A106A4AW	7STRP	0.022504,0.0,0,0	Slew =,0.44	2R5	4	1	3,899,086:00:0	
2495	97	95	04:06:53.000	117HC105A106A4AX	7STRP	-0.022654,-0.001	Slew =0,9.4	2R5	4	1	3,899,086:82:0	
2496	97	95	04:06:59.000	117HC105A106A4AY	7STRP	0.022504,0.0,0,0	Slew =,0.44	2R5	4	1	3,899,087:00:0	
2497	97	95	04:07:51.533		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC * 806.80 +/- 5	2R5	4	1	3,899,087:78:8	
2498	97	95	04:07:52.933		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC * 806.68 +/- 5	2R5	4	1	3,899,087:80:9	
2499	97	95	04:07:53.666	117HC105A106A4AZ	7STRP	-0.022654,-0.001	Slew =0,9.4	2R5	4	1	3,899,087:82:0	
2500	97	95	04:07:59.666	117HC105A106A4BA	7STRP	0.022504,0.0,0,0	Slew =,0.44	2R5	4	1	3,899,088:00:0	
2501	97	95	04:08:08.333		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC * 803.07 +/- 5	2R5	4	1	3,899,088:13:0	
2502	97	95	04:08:28.333		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC * 798.39 +/- 5	2R5	4	1	3,899,088:43:0	
2503	97	95	04:08:54.333	117HC105A106A4BB	7STRP	-0.022654,-0.001	Slew =0,9.4	2R5	4	1	3,899,088:82:0	
2504	97	95	04:09:00.333	117HC105A106A4BC	7STRP	0.022504,0.0,0,0	Slew =,0.44	2R5	4	1	3,899,089:00:0	
2505	**97**	**95**	**04:09:04.266**	**G7NNHEALTH06-**		**-----START------**		**2R5**	**4**	**1**	**: :**	
2506	97	95	04:09:55.000	117HC105A106A4BD	7STRP	-0.022654,-0.001	Slew =0,9.4	2R5	4	1	3,899,089:82:0	
2507	97	95	04:10:01.000	117HC105A106A4BE	7STRP	0.022504,0.0,0,0	Slew =,0.44	2R5	4	1	3,899,090:00:0	
2508	97	95	04:10:55.666	117HC105A106A4BF	7STRP	-0.022654,-0.001	Slew =0,9.4	2R5	4	1	3,899,090:82:0	
2509	97	95	04:10:57.000	127KH	NIMSTAB	GS	%%%%% GROUP START TAB	2R5	4	1	3,899,090:84:0	
2510	**97**	**95**	**04:10:57.000**	**127KH4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**3,899,090:84:0**	
2511	**97**	**95**	**04:10:57.666**	**127KH4B**	**37ETB**	**07,C7,02,80,44,3**	**Loads wavelength edit table**	**2R3**	**4**	**0**	**3,899,090:85:0**	
2512	97	95	04:11:01.666	117HC105A106A4BG	7STRP	0.022504,0.0,0,0	Slew =,0.44	2R3	4	0	3,899,091:00:0	
2513	97	95	04:11:05.666	127KH11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	3,899,091:06:0	
2514	**97**	**95**	**04:11:21.666**	**432EP6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**	**NIMS R/T SELECT**	**2R3**	**4**	**0**	**3,899,091:30:0**	
2515	97	95	04:11:56.333	117HC105A106A4BH	7STRP	-0.022654,-0.001	Slew =0,9.4	2R3	4	0	3,899,091:82:0	
2516	97	95	04:12:02.333	117HC105A106A4BI	7STRP	0.022504,0.0,0,0	Slew =,0.44	2R3	4	0	3,899,092:00:0	
2517	**97**	**95**	**04:12:21.000**	**432EQ6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**2R3**	**4**	**0**	**3,899,092:28:0**	
2518	97	95	04:12:57.000	117HC105A106A4BJ	7STRP	-0.022654,-0.001	Slew =0,9.4	2R3	4	0	3,899,092:82:0	
2519	97	95	04:13:03.000	117HC105A106A4BK	7STRP	0.022504,0.0,0,0	Slew =,0.44	2R3	4	0	3,899,093:00:0	
2520	97	95	04:13:57.666	117HC105A106A4BL	7STRP	-0.022654,-0.001	Slew =0,9.4	2R3	4	0	3,899,093:82:0	
2521	97	95	04:14:03.666	117HC105A106A4BM	7STRP	0.022504,0.0,0,0	Slew =,0.44	2R3	4	0	3,899,094:00:0	
2522	**97**	**95**	**04:14:07.600**	**G7NNHEALTH06-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**	
2523	97	95	04:14:58.333	117HC105A106A4BN	7STRP	-0.022654,-0.001	Slew =0,9.4	2R3	4	0	3,899,094:82:0	
2524	97	95	04:15:04.333	117HC105A106A4BO	7STRP	0.022504,0.0,0,0	Slew =,0.44	2R3	4	0	3,899,095:00:0	
2525	97	95	04:15:59.000	117HC105A106A4BP	7STRP	-0.022654,-0.001	Slew =0,9.4	2R3	4	0	3,899,095:82:0	
2526	97	95	04:16:05.000	117HC105A106A4BQ	7STRP	0.022504,0.0,0,0	Slew =,0.44	2R3	4	0	3,899,096:00:0	
2527	97	95	04:16:59.666	117HC105A106A4BR	7STRP	-0.022654,-0.001	Slew =0,9.4	2R3	4	0	3,899,096:82:0	
2528	97	95	04:17:05.666	117HC105A106A4BS	7STRP	0.022504,0.0,0,0	Slew =,0.44	2R3	4	0	3,899,097:00:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
2529	97	95	04:18:00.333	117HC105A106A4BT	7STRP	-0.022654,-0.001	Slew =0,9.4	2R3	4	0	3,899,097:82:0
2530	97	95	04:18:06.333	117HC105A106A4BU	7STRP	0.022504,0.0,0,0	Slew =,0.44	2R3	4	0	3,899,098:00:0
2531	97	95	04:19:01.000	117HC105A106A4BV	7STRP	-0.022654,-0.001	Slew =0,9.4	2R3	4	0	3,899,098:82:0
2532	97	95	04:19:07.000	117HC105A106A4BW	7STRP	0.022504,0.0,0,0	Slew =,0.44	2R3	4	0	3,899,099:00:0
2533	97	95	04:20:01.666	117HC105A106A4BX	7STRP	-0.022654,-0.001	Slew =0,9.4	2R3	4	0	3,899,099:82:0
2534	97	95	04:20:07.666	117HC105A106A4BY	7STRP	0.022504,0.0,0,0	Slew =,0.44	2R3	4	0	3,899,100:00:0
2535	97	95	04:21:02.333	117HC105A106A4BZ	7STRP	-0.022654,-0.001	Slew =0,9.4	2R3	4	0	3,899,100:82:0
2536	97	95	04:21:08.333	117HC105A106A4CA	7STRP	0.022504,0.0,0,0	Slew =,0.44	2R3	4	0	3,899,101:00:0
2537	97	95	04:22:03.000	117HC105A106A4CB	7STRP	-0.022654,-0.001	Slew =0,9.4	2R3	4	0	3,899,101:82:0
2538	97	95	04:22:09.000	117HC105A106A4CC	7STRP	0.022504,0.0,0,0	Slew =,0.44	2R3	4	0	3,899,102:00:0
2539	97	95	04:22:16.200		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC * 799.74 +/- 5	2R3	4	0	3,899,102:10:8
2540	97	95	04:22:17.600		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC * 799.62 +/- 5	2R3	4	0	3,899,102:12:9
2541	97	95	04:22:33.000		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC * 796.01 +/- 5	2R3	4	0	3,899,102:36:0
2542	97	95	04:22:53.000		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC * 791.32 +/- 5	2R3	4	0	3,899,102:66:0
2543	97	95	04:23:03.666	117HC105A106A4CD	7STRP	-0.022654,-0.001	Slew =0,9.4	2R3	4	0	3,899,102:82:0
2544	97	95	04:23:09.666	117HC105A106A4CE	7STRP	0.022504,0.0,0,0	Slew =,0.44	2R3	4	0	3,899,103:00:0
2545	97	95	04:24:04.333	117HC105A106A4CF	7STRP	-0.022654,-0.001	Slew =0,9.4	2R3	4	0	3,899,103:82:0
2546	97	95	04:24:10.333	117HC105A106A4CG	7STRP	0.022504,0.0,0,0	Slew =,0.44	2R3	4	0	3,899,104:00:0
2547	97	95	04:25:05.000	117HC105A106A4CH	7STRP	-0.022654,-0.001	Slew =0,9.4	2R3	4	0	3,899,104:82:0
2548	97	95	04:25:11.000	117HC105A106A4CI	7STRP	0.022504,0.0,0,0	Slew =,0.44	2R3	4	0	3,899,105:00:0
2549	97	95	04:26:05.666	117HC105A106A4CJ	7STRP	-0.022654,-0.001	Slew =0,9.4	2R3	4	0	3,899,105:82:0
2550	97	95	04:26:11.666	117HC105A106A4CK	7STRP	0.022504,0.0,0,0	Slew =,0.44	2R3	4	0	3,899,106:00:0
2551	97	95	04:27:06.333	117HC11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	3,899,106:82:0
2552	97	95	04:27:06.333	176HC6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	3,899,106:82:0
2553	97	95	04:27:16.200		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC * 792.68 +/- 5	2R3	4	0	3,899,107:05:8
2554	97	95	04:27:17.600		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC * 792.56 +/- 5	2R3	4	0	3,899,107:07:9
2555	97	95	04:27:18.333		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC * 792.39 +/- 5	2R3	4	0	3,899,107:09:0
2556	97	95	04:27:29.000		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC * 789.89 +/- 5	2R3	4	0	3,899,107:25:0
2557	**97**	**95**	**04:28:17.000**	**G7GNNHILAT01-**		**-----START------**		**2R3**	**4**	**0**	**: :**
2558	97	95	04:29:12.333	165FV4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,899,108:89:0
2559	97	95	04:29:13.000	165FV4B	7SCAN	NORM,240.933998,	Check S/P Position	2R3	4	0	3,899,108:90:0
2560	97	95	04:30:00.333	488AY6E	6TMSED	NORM,CL2	Sci, Eng, and D/L Chan	2R3	4	0	3,899,109:70:0
2561	**97**	**95**	**04:31:10.333**	**125LJ4A**	**37IST**	**0,2,0,OFF,0,1,2**	**Gain State 3**	**3R3**	**4**	**0**	**3,899,110:84:0**
2562	97	95	04:31:10.333	125LJ11A	NIMSINIT	GE	##### GROUP END INIT	3R3	4	0	3,899,110:84:0
2563	97	95	04:31:10.333	125LJ	NIMSINIT	GS	##### GROUP START INIT	3R3	4	0	3,899,110:84:0
2564	97	95	04:32:11.000	127LJ	NIMSTAB	GS	%%%%% GROUP START TAB	3R3	4	0	3,899,111:84:0
2565	**97**	**95**	**04:32:11.666**	**127LJ4A**	**37ETB**	**07,C7,02,0C,08,0**	**Loads wavelength edit table**	**3R3**	**4**	**0**	**3,899,111:85:0**
2566	97	95	04:32:19.666	127LJ11A	NIMSTAB	GE	%%%%% GROUP END TAB	3R3	4	0	3,899,112:06:0
2567	97	95	04:33:03.666	175LA422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	3R3	4	0	3,899,112:72:0
2568	97	95	04:33:07.000	117FV	**CSMOS**	GS	***** GROUP START CSMOS	3R3	4	0	3,899,112:77:0
2569	97	95	04:33:11.533		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC * 791.24 +/- 5	3R3	4	0	3,899,112:83:8
2570	97	95	04:33:12.933		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC 791.12 +/- 5	3R3	4	0	3,899,112:85:9
2571	97	95	04:33:12.933		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC * 791.12 +/- 5	3R3	4	0	3,899,112:85:9
2572	97	95	04:33:13.000	175LA176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	3R3	4	0	3,899,112:86:0
2573	97	95	04:33:16.333	117FV105A106A4A	**7STRP**	**-0.016301,0.0,0,**	**Slew =,0.03**	3R3	4	0	3,899,113:00:0
2574	97	95	04:34:51.666	488AZ6A	6TMSED	NORM,CL3	Sci, Eng, and D/L Chan	3R3	4	0	3,899,114:52:0
2575	**97**	**95**	**04:40:21.007**	**G7GNNHILAT01-**	**NIMPBK**	**301FR**	**GANYMEDE NORTH HIGH LATITUDE REG**	**3R3**	**4**	**0**	**: :**
2576	97	95	04:42:22.333	117FV105A106B4A	**7STRP**	**0.003,-0.011,0,0**	**Slew =12.01**	3R3	4	0	3,899,122:00:0
2577	**97**	**95**	**04:42:22.341**	**G7GNNHILAT01-**	**DESELC**	**300FR**	**GANYMEDE NORTH HIGH LATITUDE REG**	**3R3**	**4**	**0**	**: :**
2578	97	95	04:42:33.000	117FV105A106B4B	**7STRP**	**-0.025005,0.0,0,**	**Slew =,0.03**	3R3	4	0	3,899,122:16:0
2579	**97**	**95**	**04:42:33.007**	**G7GNNHILAT01-**	**NIMPBK**	**301EY**	**GANYMEDE NORTH HIGH LATITUDE REG**	**3R3**	**4**	**0**	**: :**
2580	**97**	**95**	**04:48:26.339**	**G7GNNHILAT01-**	**NIMPBK**	**301FS**	**GANYMEDE NORTH HIGH LATITUDE REG**	**3R3**	**4**	**0**	**: :**
2581	**97**	**95**	**04:49:27.006**	**G7GNNHILAT01-**	**DESELC**	**300FS**	**GANYMEDE NORTH HIGH LATITUDE REG**	**3R3**	**4**	**0**	**: :**
2582	97	95	04:50:39.666	488AZ6B	6TMSED	FILL,CL3	Sci, Eng, and D/L Chan	3R3	4	0	3,899,130:18:0
2583	**97**	**95**	**04:52:30.339**	**G7GNNHILAT01-**	**NIMPBK**	**301ET**	**GANYMEDE NORTH HIGH LATITUDE REG**	**3R3**	**4**	**0**	**: :**

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2584	**97**	**95**	**04:52:39.006**	**G7GNNHILAT01-**	**DESELC**	**300EY**	**GANYMEDE NORTH HIGH LATITUDE REG**	**3R3**	**4**	**0**	**: :**	
2585	**97**	**95**	**04:56:17.672**	**G7GNNHILAT01-**	**DESELC**	**300ET**	**GANYMEDE NORTH HIGH LATITUDE REG**	**3R3**	**4**	**0**	**: :**	
2586	97	95	04:56:27.666	175LA422A6B	6DMSC	RDY,0	DMS Control Tape stop	3R3	4	0	3,899,135:85:0	
2587	97	95	04:56:27.666	175LA6A	6TMREC	**NRC**	NO RECORD Record Mode Change	3R3	4	0	3,899,135:85:0	
2588	97	95	04:56:27.666		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC * 464.23 +/- 5	3R3	4	0	3,899,135:85:0	
2589	97	95	04:56:31.000	117FV11A	**CSMOS**	GE	***** GROUP END CSMOS	3R3	4	0	3,899,135:90:0	
2590	**97**	**95**	**05:03:40.333**	**G7GNNHILAT01-**		**-----STOP-------**		**3R3**	**4**	**0**	**: :**	
2591	**97**	**95**	**05:04:41.066**	**G7INTHRMAL06-**		**-----START------**		**3R3**	**4**	**0**	**: :**	
2592	97	95	05:05:36.333	165EW4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	3R3	4	0	3,899,144:89:0	
2593	97	95	05:05:37.000	165EW4B	7SCAN	NORM,44.911,19.1	Check S/P Position	3R3	4	0	3,899,144:90:0	
2594	97	95	05:08:35.000	127EW	NIMSTAB	GS	%%%%% GROUP START TAB	3R3	4	0	3,899,147:84:0	
2595	**97**	**95**	**05:08:35.666**	**127EW4A**	**37ETB**	**07,C7,03,81,00,0**	**Loads wavelength edit table**	**3R3**	**4**	**0**	**3,899,147:85:0**	
2596	97	95	05:08:43.666	127EW11A	NIMSTAB	GE	%%%%% GROUP END TAB	3R3	4	0	3,899,148:06:0	
2597	97	95	05:09:27.666	175EW422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	3R3	4	0	3,899,148:72:0	
2598	97	95	05:09:31.000	117EW	**CSMOS**	GS	***** GROUP START CSMOS	3R3	4	0	3,899,148:77:0	
2599	97	95	05:09:35.533		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC * 465.58 +/- 5	3R3	4	0	3,899,148:83:8	
2600	**97**	**95**	**05:09:35.666**	**125EW4A**	**37IST**	**0,2,0,OFF,0,1,1**	**Gain State 4**	**4R3**	**4**	**0**	**3,899,148:84:0**	
2601	97	95	05:09:35.666	125EW	NIMSINIT	GS	##### GROUP START INIT	4R3	4	0	3,899,148:84:0	
2602	97	95	05:09:35.666	125EW11A	NIMSINIT	GE	##### GROUP END INIT	4R3	4	0	3,899,148:84:0	
2603	97	95	05:09:36.933		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC * 465.46 +/- 5	4R3	4	0	3,899,148:85:9	
2604	97	95	05:09:36.933		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC 465.46 +/- 5	4R3	4	0	3,899,148:85:9	
2605	97	95	05:09:37.000	175EW176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	4R3	4	0	3,899,148:86:0	
2606	97	95	05:09:40.333	117EW105A106A4A	**7STRP**	**-0.0055,0.0,0,0,**	**Slew =,0.03**	4R3	4	0	3,899,149:00:0	
2607	**97**	**95**	**05:09:40.339**	**G7INTHRMAL06-**	**NIMPBK**	**301EZ**	**MONITORING OF IO'S NIGHTSIDE**	**4R3**	**4**	**0**	**: :**	
2608	**97**	**95**	**05:12:43.006**	**G7INTHRMAL06-**	**DESELC**	**300EZ**	**MONITORING OF IO'S NIGHTSIDE**	**4R3**	**4**	**0**	**: :**	
2609	97	95	05:12:45.000	117EW11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	3,899,152:04:0	
2610	97	95	05:12:46.333	175EW422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,899,152:06:0	
2611	97	95	05:12:46.333	175EW6A	6TMREC	**NRC**	NO RECORD Record Mode Change	4R3	4	0	3,899,152:06:0	
2612	97	95	05:12:46.333		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC * 421.07 +/- 5	4R3	4	0	3,899,152:06:0	
2613	**97**	**95**	**05:15:48.399**	**G7INTHRMAL06-**		**-----STOP-------**		**4R3**	**4**	**0**	**: :**	
2614	97	95	05:17:39.000	465KG6A	6DTRN	CMD,6DTRN,465KG6	DMS TRACK TURNAROUND	4R3	4	0	3,899,156:81:0	
2615	97	95	05:35:56.333	165IU4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,899,174:89:0	
2616	97	95	05:35:57.000	165IU4B	7SCAN	NORM,236.134998,	Check S/P Position	4R3	4	0	3,899,174:90:0	
2617	97	95	05:39:50.333	175IU422A6A	6DMSC	R806,3	DMS Control	4R3	4	0	3,899,178:76:0	
2618	97	95	05:39:57.000		DMS:	: *RUNUP	R806, TRACK *3, FWD, TIC 201.62 +/-	4R3	4	0	3,899,178:86:0	
2619	97	95	05:39:59.000	165IU4C	7VECT		Inert vect update UTC	4R3	4	0	3,899,178:89:0	
2620	97	95	05:39:59.666	165IU4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	4R3	4	0	3,899,178:90:0	
2621	97	95	05:40:01.666	175IU176A6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	4R3	4	0	3,899,179:02:0	
2622	97	95	05:40:02.266		DMS:	**: *RECORD**	R806, TRACK 3, FWD, TIC * 267.62 +/-	4R3	4	0	3,899,179:02:9	
2623	97	95	05:40:02.266		DMS:	: *AT_SPD	R806, TRACK 3, FWD, TIC 267.62 +/-	4R3	4	0	3,899,179:02:9	
2624	97	95	05:40:09.000		DMS:	**: *RUNDOWN**	R806, TRACK 3, FWD, TIC * 433.33 +/-	4R3	4	0	3,899,179:13:0	
2625	97	95	05:40:09.000	175IU422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,899,179:13:0	
2626	97	95	05:42:14.333	165CZ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,899,181:19:0	
2627	97	95	05:42:15.000	165CZ4B	7SCAN	NORM,232.905998,	Check S/P Position	4R3	4	0	3,899,181:20:0	
2628	97	95	05:44:54.333	117CA	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	3,899,183:77:0	
2629	97	95	05:44:55.000	175CA422A6A	6DMSC	R7,3	DMS Control	4R3	4	0	3,899,183:78:0	
2630	97	95	05:45:01.666		DMS:	: *RUNUP	R7, TRACK *3, FWD, TIC 444.83 +/-	4R3	4	0	3,899,183:88:0	
2631	97	95	05:45:03.000	175CA176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	4R3	4	0	3,899,183:90:0	
2632	97	95	05:45:03.066		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC 444.95 +/-	4R3	4	0	3,899,183:90:1	
2633	97	95	05:45:03.066		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC * 444.95 +/-	4R3	4	0	3,899,183:90:1	
2634	97	95	05:45:03.666	117CA105A106A4A	7STRP	-0.014401,-0.005	Slew =,0.06	4R3	4	0	3,899,184:00:0	
2635	97	95	05:47:43.666	488AZ6C	6TMSED	NORM,CL3	Sci, Eng, and D/L Chan	4R3	4	0	3,899,186:58:0	
2636	97	95	05:49:06.333	117CA11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	3,899,188:00:0	
2637	97	95	05:49:06.333		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC * 501.96 +/-	4R3	4	0	3,899,188:00:0	
2638	97	95	05:49:06.333	175CA422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,899,188:00:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
2639	97	95	05:56:09.666	165GL4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,899,194:89:0
2640	97	95	05:56:10.333	165GL4B	7SCAN	NORM,232.58,-30.	Check S/P Position	4R3	4	0	3,899,194:90:0
2641	97	95	06:00:04.333	117GL	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	3,899,198:77:0
2642	97	95	06:00:13.666	117GL105A106A4A	7STRP	-0.015501,0.0,0,	Slew =0,0.7	4R3	4	0	3,899,199:00:0
2643	97	95	06:00:13.666	176GL6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	4R3	4	0	3,899,199:00:0
2644	97	95	06:00:39.000	117GL105A106A4B	7STRP	0.014501,-0.0025	Slew =12.01	4R3	4	0	3,899,199:38:0
2645	97	95	06:00:44.333	117GL105A106A4C	7STRP	-0.015501,0.0,0,	Slew =0,0.7	4R3	4	0	3,899,199:46:0
2646	97	95	06:01:09.666	117GL105A106A4D	7STRP	0.014501,-0.0025	Slew =12.01	4R3	4	0	3,899,199:84:0
2647	97	95	06:01:15.000	117GL105A106A4E	7STRP	-0.015501,0.0,0,	Slew =0,0.7	4R3	4	0	3,899,200:01:0
2648	97	95	06:01:40.333	117GL105A106A4F	7STRP	0.014501,-0.0025	Slew =12.01	4R3	4	0	3,899,200:39:0
2649	97	95	06:01:45.666	117GL105A106A4G	7STRP	-0.015501,0.0,0,	Slew =0,0.7	4R3	4	0	3,899,200:47:0
2650	97	95	06:02:11.000	117GL105A106A4H	7STRP	0.014501,-0.0025	Slew =12.01	4R3	4	0	3,899,200:85:0
2651	97	95	06:02:16.333	117GL105A106A4I	7STRP	-0.015501,0.0,0,	Slew =0,0.7	4R3	4	0	3,899,201:02:0
2652	97	95	06:02:41.666	117GL105A106A4J	7STRP	0.014501,-0.0025	Slew =12.01	4R3	4	0	3,899,201:40:0
2653	97	95	06:02:47.000	117GL105A106A4K	7STRP	-0.015501,0.0,0,	Slew =0,0.7	4R3	4	0	3,899,201:48:0
2654	97	95	06:03:12.333	117GL105A106A4L	7STRP	0.014501,-0.0025	Slew =12.01	4R3	4	0	3,899,201:86:0
2655	97	95	06:03:17.666	117GL105A106A4M	7STRP	-0.015501,0.0,0,	Slew =0,0.7	4R3	4	0	3,899,202:03:0
2656	97	95	06:03:43.000	117GL105A106A4N	7STRP	0.014501,-0.0025	Slew =12.01	4R3	4	0	3,899,202:41:0
2657	97	95	06:03:48.333	117GL105A106A4O	7STRP	-0.015501,0.0,0,	Slew =0,0.7	4R3	4	0	3,899,202:49:0
2658	97	95	06:04:13.666	117GL105A106A4P	7STRP	0.014501,-0.0025	Slew =12.01	4R3	4	0	3,899,202:87:0
2659	97	95	06:04:19.000	117GL105A106A4Q	7STRP	-0.015501,0.0,0,	Slew =0,0.7	4R3	4	0	3,899,203:04:0
2660	97	95	06:04:44.333	117GL105A106A4R	7STRP	0.014501,-0.0025	Slew =12.01	4R3	4	0	3,899,203:42:0
2661	97	95	06:04:49.666	117GL105A106A4S	7STRP	-0.015501,0.0,0,	Slew =0,0.7	4R3	4	0	3,899,203:50:0
2662	97	95	06:05:15.000	117GL105A106A4T	7STRP	0.014501,-0.0025	Slew =12.01	4R3	4	0	3,899,203:88:0
2663	97	95	06:05:20.333	117GL105A106A4U	7STRP	-0.015501,0.0,0,	Slew =0,0.7	4R3	4	0	3,899,204:05:0
2664	97	95	06:05:45.666	117GL105A106A4V	7STRP	0.014501,-0.0025	Slew =12.01	4R3	4	0	3,899,204:43:0
2665	97	95	06:05:51.000	117GL105A106A4W	7STRP	-0.015501,0.0,0,	Slew =0,0.7	4R3	4	0	3,899,204:51:0
2666	97	95	06:06:16.333	117GL105A106A4X	7STRP	0.014501,-0.0025	Slew =12.01	4R3	4	0	3,899,204:89:0
2667	**97**	**95**	**06:06:21.666**	**G7NNNIMSLD14-**		**-----START------**		**4R3**	**4**	**0**	**: :**
2668	97	95	06:06:21.666	117GL105A106A4Y	7STRP	-0.015501,0.0,0,	Slew =0,0.7	4R3	4	0	3,899,205:06:0
2669	97	95	06:06:47.000	117GL105A106A4Z	7STRP	0.014501,-0.0025	Slew =12.01	4R3	4	0	3,899,205:44:0
2670	97	95	06:06:52.333	117GL105A106A4AA	7STRP	-0.015501,0.0,0,	Slew =0,0.7	4R3	4	0	3,899,205:52:0
2671	97	95	06:07:17.666	117GL11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	3,899,205:90:0
2672	97	95	06:07:18.333	176GL6B	6TMREC	**NRC**	NO RECORD Record Mode Change	4R3	4	0	3,899,206:00:0
2673	**97**	**95**	**06:07:22.333**	**20EO6A**	**6CKSUM**	**NIMS**	**NIMS,1000,14BC**	**4R3**	**4**	**0**	**3,899,206:06:0**
2674	97	95	06:07:27.000		DMS:	: *RUNUP	R7, TRACK *3, FWD, TIC 502.02 +/-	4R3	4	0	3,899,206:13:0
2675	97	95	06:07:28.400		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC * 502.14 +/-	4R3	4	0	3,899,206:15:1
2676	97	95	06:07:30.333		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC * 502.59 +/-	4R3	4	0	3,899,206:18:0
2677	97	95	06:07:43.666		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC * 505.72 +/-	4R3	4	0	3,899,206:38:0
2678	97	95	06:08:17.666	165IG4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,899,206:89:0
2679	97	95	06:08:18.333	165IG4B	7SCAN	NORM,235.355999,	Check S/P Position	4R3	4	0	3,899,206:90:0
2680	**97**	**95**	**06:08:23.000**	**20EO5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**4R3**	**4**	**0**	**3,899,207:06:0**
2681	**97**	**95**	**06:09:23.666**	**20EO5B**	**37MRL**		**Memory Realocate (software operates from R**	**4R3**	**4**	**0**	**3,899,208:06:0**
2682	**97**	**95**	**06:10:24.333**	**20EO6B**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**4R3**	**4**	**0**	**3,899,209:06:0**
2683	**97**	**95**	**06:11:25.000**	**20EO6C**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**4R3**	**4**	**0**	**3,899,210:06:0**
2684	97	95	06:12:11.666	175IG422A6A	6DMSC	R115,3	DMS Control	4R3	4	0	3,899,210:76:0
2685	97	95	06:12:18.333		DMS:	: *RUNUP	R115, TRACK *3, FWD, TIC 505.78 +/-	4R3	4	0	3,899,210:86:0
2686	97	95	06:12:20.333	165IG4C	7VECT		Inert vect update UTC	4R3	4	0	3,899,210:89:0
2687	97	95	06:12:21.000	165IG4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	4R3	4	0	3,899,210:90:0
2688	97	95	06:12:22.333		DMS:	: *AT_SPD	R115, TRACK 3, FWD, TIC 512.08 +/-	4R3	4	0	3,899,211:01:0
2689	97	95	06:12:22.333		DMS:	**: *RECORD**	R115, TRACK 3, FWD, TIC * 512.08 +/-	4R3	4	0	3,899,211:01:0
2690	97	95	06:12:22.333	175IG176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	4R3	4	0	3,899,211:01:0
2691	**97**	**95**	**06:12:25.666**	**20EO5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**3,899,211:06:0**
2692	97	95	06:12:37.000	175IG422A6B	6DMSC	RDY,0	DMS Control Tape stop	260	4	0	3,899,211:23:0
2693	97	95	06:12:37.000		DMS:	**: *RUNDOWN**	R115, TRACK 3, FWD, TIC * 563.64 +/-	260	4	0	3,899,211:23:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
2694	**97**	**95**	**06:13:26.333**	**20EO5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**3,899,212:06:0**
2695	**97**	**95**	**06:14:27.000**	**20EO4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**3,899,213:06:0**
2696	**97**	**95**	**06:15:27.666**	**20EO4B**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**3,899,214:06:0**
2697	**97**	**95**	**06:15:35.000**	**G7NNNIMSLD14-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**
2698	**97**	**95**	**06:15:54.333**	**G7GNBRITRL01-**		**-----START------**		**2R3**	**4**	**0**	**: :**
2699	97	95	06:16:23.000	165EX4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,899,214:89:0
2700	97	95	06:16:23.666	165EX4B	7SCAN	NORM,227.608999,	Check S/P Position	2R3	4	0	3,899,214:90:0
2701	97	95	06:18:21.000	125EX11A	NIMSINIT	GE	##### GROUP END INIT	2R3	4	0	3,899,216:84:0
2702	97	95	06:18:21.000	125EX	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	3,899,216:84:0
2703	**97**	**95**	**06:18:21.000**	**125EX4A**	**37IST**	**0,2,0,OFF,0,1,2**	**Gain State 3**	**3R3**	**4**	**0**	**3,899,216:84:0**
2704	97	95	06:19:21.666	127EX	NIMSTAB	GS	%%%%% GROUP START TAB	3R3	4	0	3,899,217:84:0
2705	**97**	**95**	**06:19:22.333**	**127EX4A**	**37ETB**	**04,C4,35,FF,FF**	**Loads wavelength edit table**	**3R3**	**4**	**0**	**3,899,217:85:0**
2706	97	95	06:19:30.333	127EX11A	NIMSTAB	GE	%%%%% GROUP END TAB	3R3	4	0	3,899,218:06:0
2707	97	95	06:20:13.000	175EX422A6A	6DMSC	R28,3	DMS Control	3R3	4	0	3,899,218:70:0
2708	97	95	06:20:17.666	117EX	**CSMOS**	GS	***** GROUP START CSMOS	3R3	4	0	3,899,218:77:0
2709	97	95	06:20:19.666		DMS:	: *RUNUP	R28, TRACK *3, FWD, TIC 564.64 +/-	3R3	4	0	3,899,218:80:0
2710	97	95	06:20:23.666		DMS:	**: *RECORD**	R28, TRACK 3, FWD, TIC * 566.14 +/-	3R3	4	0	3,899,218:86:0
2711	97	95	06:20:23.666	175EX176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	3R3	4	0	3,899,218:86:0
2712	97	95	06:20:23.666		DMS:	: *AT_SPD	R28, TRACK 3, FWD, TIC 566.14 +/-	3R3	4	0	3,899,218:86:0
2713	97	95	06:20:25.666	165EX4C	7VECT		Inert vect update UTC	3R3	4	0	3,899,218:89:0
2714	97	95	06:20:26.333	165EX4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	3R3	4	0	3,899,218:90:0
2715	97	95	06:20:27.000	117EX105A106A4A	**7STRP**	**-0.0085,0.0,0,0,**	**Slew =,0.03**	3R3	4	0	3,899,219:00:0
2716	**97**	**95**	**06:20:27.003**	**G7GNBRITRL01-**	**NIMPBK**	**301FA**	**BRIGHT ENDMEMBER FROM TRAIL HEMI**	**3R3**	**4**	**0**	**: :**
2717	97	95	06:25:11.666	117EX11A	**CSMOS**	GE	***** GROUP END CSMOS	3R3	4	0	3,899,223:63:0
2718	**97**	**95**	**06:25:11.669**	**G7GNBRITRL01-**	**DESELC**	**300FA**	**BRIGHT ENDMEMBER FROM TRAIL HEMI**	**3R3**	**4**	**0**	**: :**
2719	97	95	06:25:13.000		DMS:	**: *RUNDOWN**	R28, TRACK 3, FWD, TIC * 820.44 +/-	3R3	4	0	3,899,223:65:0
2720	97	95	06:25:13.000	175EX422A6B	6DMSC	RDY,0	DMS Control Tape stop	3R3	4	0	3,899,223:65:0
2721	**97**	**95**	**06:25:34.333**	**G7GNBRITRL01-**		**-----STOP-------**		**3R3**	**4**	**0**	**: :**
2722	97	95	06:27:30.333	165IV4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	3R3	4	0	3,899,225:89:0
2723	97	95	06:27:31.000	165IV4B	7SCAN	NORM,225.404999,	Check S/P Position	3R3	4	0	3,899,225:90:0
2724	97	95	06:31:24.333	175IV422A6A	6DMSC	R806,3	DMS Control	3R3	4	0	3,899,229:76:0
2725	97	95	06:31:26.333	118IV	**SMOS**	GS		3R3	4	0	3,899,229:79:0
2726	97	95	06:31:31.000		DMS:	: *RUNUP	R806, TRACK *3, FWD, TIC 820.74 +/-	3R3	4	0	3,899,229:86:0
2727	97	95	06:31:33.000	165IV4C	7VECT		Inert vect update UTC	3R3	4	0	3,899,229:89:0
2728	97	95	06:31:33.666	165IV4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	3R3	4	0	3,899,229:90:0
2729	97	95	06:31:35.666	175IV176A6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	3R3	4	0	3,899,230:02:0
2730	97	95	06:31:36.266		DMS:	**: *RECORD**	R806, TRACK 3, FWD, TIC * 886.74 +/-	3R3	4	0	3,899,230:02:9
2731	97	95	06:31:36.266		DMS:	: *AT_SPD	R806, TRACK 3, FWD, TIC 886.74 +/-	3R3	4	0	3,899,230:02:9
2732	97	95	06:31:36.333	118IV110A111A4A	7STRP	-0.0073,-0.002,2	Slew =,3.51	3R3	4	0	3,899,230:03:0
2733	97	95	06:31:53.666	118IV11A	**SMOS**	GE		3R3	4	0	3,899,230:29:0
2734	97	95	06:32:00.333	175IV422A6B	6DMSC	RDY,0	DMS Control Tape stop	3R3	4	0	3,899,230:39:0
2735	97	95	06:32:00.333		DMS:	**: *RUNDOWN**	R806, TRACK 3, FWD, TIC *1479.00 +/-	3R3	4	0	3,899,230:39:0
2736	97	95	06:32:33.666	165IW4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	3R3	4	0	3,899,230:89:0
2737	97	95	06:32:34.333	165IW4B	7SCAN	NORM,230.176998,	Check S/P Position	3R3	4	0	3,899,230:90:0
2738	97	95	06:33:25.666	175IW422A6A	6DMSC	R806,3	DMS Control	3R3	4	0	3,899,231:76:0
2739	97	95	06:33:27.666	118IW	**SMOS**	GS		3R3	4	0	3,899,231:79:0
2740	97	95	06:33:32.333		DMS:	: *RUNUP	R806, TRACK *3, FWD, TIC 1490.50 +/- 1	3R3	4	0	3,899,231:86:0
2741	97	95	06:33:34.333	165IW4C	7VECT		Inert vect update UTC	3R3	4	0	3,899,231:89:0
2742	97	95	06:33:35.000	165IW4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	3R3	4	0	3,899,231:90:0
2743	97	95	06:33:37.000	175IW176A6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	3R3	4	0	3,899,232:02:0
2744	97	95	06:33:37.600		DMS:	**: *RECORD**	R806, TRACK 3, FWD, TIC *1556.50 +/- 1	3R3	4	0	3,899,232:02:9
2745	97	95	06:33:37.600		DMS:	: *AT_SPD	R806, TRACK 3, FWD, TIC 1556.50 +/- 1	3R3	4	0	3,899,232:02:9
2746	97	95	06:33:37.666	118IW110A111A4A	7STRP	0.0075,0.0,26,0,	Slew =,3.51	3R3	4	0	3,899,232:03:0
2747	97	95	06:33:46.333	118IW11A	**SMOS**	GE		3R3	4	0	3,899,232:16:0
2748	97	95	06:33:53.000		DMS:	**: *RUNDOWN**	R806, TRACK 3, FWD, TIC *1935.49 +/- 1	3R3	4	0	3,899,232:26:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2749	97	95	06:33:53.000	175IW422A6B	6DMSC	RDY,0	DMS Control Tape stop	3R3	4	0	3,899,232:26:0	
2750	97	95	06:34:35.000	165IX4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	3R3	4	0	3,899,232:89:0	
2751	97	95	06:34:35.666	165IX4B	7SCAN	NORM,223.244999,	Check S/P Position	3R3	4	0	3,899,232:90:0	
2752	97	95	06:35:27.000	175IX422A6A	6DMSC	R806,3	DMS Control	3R3	4	0	3,899,233:76:0	
2753	97	95	06:35:29.000	118IX	**SMOS**	GS		3R3	4	0	3,899,233:79:0	
2754	97	95	06:35:33.666		DMS:	: *RUNUP	R806, TRACK *3, FWD, TIC 1946.99 +/- 1	3R3	4	0	3,899,233:86:0	
2755	97	95	06:35:35.666	165IX4C	7VECT		Inert vect update UTC	3R3	4	0	3,899,233:89:0	
2756	97	95	06:35:36.333	165IX4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	3R3	4	0	3,899,233:90:0	
2757	97	95	06:35:38.333	175IX176A6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	3R3	4	0	3,899,234:02:0	
2758	97	95	06:35:38.933		DMS:	**: *RECORD**	R806, TRACK 3, FWD, TIC *2012.99 +/- 1	3R3	4	0	3,899,234:02:9	
2759	97	95	06:35:38.933		DMS:	: *AT_SPD	R806, TRACK 3, FWD, TIC 2012.99 +/- 1	3R3	4	0	3,899,234:02:9	
2760	97	95	06:35:39.000	118IX110A111A4A	7STRP	0.0075,0.0,26,0,	Slew =,3.51	3R3	4	0	3,899,234:03:0	
2761	97	95	06:35:47.666	118IX11A	**SMOS**	GE		3R3	4	0	3,899,234:16:0	
2762	97	95	06:35:54.333	175IX422A6B	6DMSC	RDY,0	DMS Control Tape stop	3R3	4	0	3,899,234:26:0	
2763	97	95	06:35:54.333		DMS:	**: *RUNDOWN**	R806, TRACK 3, FWD, TIC *2391.97 +/- 1	3R3	4	0	3,899,234:26:0	
2764	97	95	06:36:36.333	165IY4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	3R3	4	0	3,899,234:89:0	
2765	97	95	06:36:37.000	165IY4B	7SCAN	NORM,226.271,-33	Check S/P Position	3R3	4	0	3,899,234:90:0	
2766	97	95	06:37:28.333	175IY422A6A	6DMSC	R806,3	DMS Control	3R3	4	0	3,899,235:76:0	
2767	97	95	06:37:30.333	118IY	**SMOS**	GS		3R3	4	0	3,899,235:79:0	
2768	97	95	06:37:35.000		DMS:	: *RUNUP	R806, TRACK *3, FWD, TIC 2403.47 +/- 1	3R3	4	0	3,899,235:86:0	
2769	97	95	06:37:37.000	165IY4C	7VECT		Inert vect update UTC	3R3	4	0	3,899,235:89:0	
2770	97	95	06:37:37.666	165IY4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	3R3	4	0	3,899,235:90:0	
2771	97	95	06:37:39.666	175IY176A6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	3R3	4	0	3,899,236:02:0	
2772	97	95	06:37:40.266		DMS:	: *AT_SPD	R806, TRACK 3, FWD, TIC 2469.47 +/- 2	3R3	4	0	3,899,236:02:9	
2773	97	95	06:37:40.266		DMS:	**: *RECORD**	R806, TRACK 3, FWD, TIC *2469.47 +/- 1	3R3	4	0	3,899,236:02:9	
2774	97	95	06:37:40.333	118IY110A111A4A	7STRP	0.0075,0.0,26,0,	Slew =,3.51	3R3	4	0	3,899,236:03:0	
2775	97	95	06:37:49.000	118IY110A111A4B	7STRP	0.0,0.0075,0,0,0	Slew =,3.51	3R3	4	0	3,899,236:16:0	
2776	97	95	06:37:57.666	118IY110A111A4C	7STRP	0.0075,0.0,26,0,	Slew =,3.51	3R3	4	0	3,899,236:29:0	
2777	97	95	06:38:06.333	118IY11A	**SMOS**	GE		3R3	4	0	3,899,236:42:0	
2778	97	95	06:38:13.000		DMS:	**: *RUNDOWN**	R806, TRACK 3, FWD, TIC *3275.02 +/- 2	3R3	4	0	3,899,236:52:0	
2779	97	95	06:38:13.000	175IY422A6B	6DMSC	RDY,0	DMS Control Tape stop	3R3	4	0	3,899,236:52:0	
2780	97	95	06:38:37.666	165IZ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	3R3	4	0	3,899,236:89:0	
2781	97	95	06:38:38.333	165IZ4B	7SCAN	NORM,216.685999,	Check S/P Position	3R3	4	0	3,899,236:90:0	
2782	97	95	06:39:35.666	175IZ422A6A	6DMSC	R115,3	DMS Control	3R3	4	0	3,899,237:85:0	
2783	97	95	06:39:38.333	165IZ4C	7VECT		Inert vect update UTC	3R3	4	0	3,899,237:89:0	
2784	97	95	06:39:39.000	165IZ4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	3R3	4	0	3,899,237:90:0	
2785	97	95	06:39:42.333		DMS:	: *RUNUP	R115, TRACK *3, FWD, TIC 3286.52 +/- 2	3R3	4	0	3,899,238:04:0	
2786	97	95	06:39:46.333		DMS:	: *AT_SPD	R115, TRACK 3, FWD, TIC 3292.82 +/- 2	3R3	4	0	3,899,238:10:0	
2787	97	95	06:39:46.333		DMS:	**: *RECORD**	R115, TRACK 3, FWD, TIC *3292.82 +/- 2	3R3	4	0	3,899,238:10:0	
2788	97	95	06:39:46.333	175IZ176A6A	6TMREC	HIM	115.2 KBPS SSI + NIMS RECORD Record Mode	3R3	4	0	3,899,238:10:0	
2789	97	95	06:40:40.333	176IZ6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	3R3	4	0	3,899,239:00:0	
2790	**97**	**95**	**06:40:44.333**	**G7GNKITTU_01-**		**-----START------**		**3R3**	**4**	**0**	**: :**	
2791	97	95	06:41:26.333		DMS:	**: *RUNDOWN**	R115, TRACK 3, FWD, TIC *3644.38 +/- 2	3R3	4	0	3,899,239:69:0	
2792	97	95	06:41:26.333	175IZ422A6B	6DMSC	RDY,0	DMS Control Tape stop	3R3	4	0	3,899,239:69:0	
2793	97	95	06:41:36.333	127EY	NIMSTAB	GS	%%%%% GROUP START TAB	3R3	4	0	3,899,239:84:0	
2794	**97**	**95**	**06:41:37.000**	**127EY4A**	**37ETB**	**04,C4,35,FF,FF**	**Loads wavelength edit table**	**3R3**	**4**	**0**	**3,899,239:85:0**	
2795	97	95	06:41:39.666	165EY4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	3R3	4	0	3,899,239:89:0	
2796	97	95	06:41:40.333	165EY4B	7SCAN	NORM,214.257,-37	Check S/P Position	3R3	4	0	3,899,239:90:0	
2797	97	95	06:41:45.000	127EY11A	NIMSTAB	GE	%%%%% GROUP END TAB	3R3	4	0	3,899,240:06:0	
2798	97	95	06:42:27.666	175EY422A6A	6DMSC	R28,3	DMS Control	3R3	4	0	3,899,240:70:0	
2799	97	95	06:42:32.333	117EY	**CSMOS**	GS	***** GROUP START CSMOS	3R3	4	0	3,899,240:77:0	
2800	97	95	06:42:34.333		DMS:	: *RUNUP	R28, TRACK *3, FWD, TIC 3645.38 +/- 2	3R3	4	0	3,899,240:80:0	
2801	97	95	06:42:38.333		DMS:	: *AT_SPD	R28, TRACK 3, FWD, TIC 3646.88 +/- 2	3R3	4	0	3,899,240:86:0	
2802	97	95	06:42:38.333		DMS:	**: *RECORD**	R28, TRACK 3, FWD, TIC *3646.88 +/- 2	3R3	4	0	3,899,240:86:0	
2803	97	95	06:42:38.333	175EY176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	3R3	4	0	3,899,240:86:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2804	97	95	06:42:40.333	165EY4C	7VECT		Inert vect update UTC	3R3	4	0	3,899,240:89:0	
2805	97	95	06:42:41.000	165EY4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	3R3	4	0	3,899,240:90:0	
2806	97	95	06:42:41.666	117EY105A106A4A	**7STRP**	**-0.020003,0.0,0,**	**Slew =,0.03**	3R3	4	0	3,899,241:00:0	
2807	**97**	**95**	**06:42:42.335**	**G7GNKITTU_01-**	**NIMPBK**	**301FB**	**DARK RAYED CRATER KITTU**	**3R3**	**4**	**0**	**: :**	
2808	97	95	06:44:40.333	282NO431A6A	6RCSEL	DDSNCG,PLSSEL,EP	Record Select (DDS onl	3R3	4	0	3,899,242:87:0	
2809	97	95	06:44:43.000	431OA6A	6RCSEL	DDSSEL,PLSNCG,EP	Record Select (DDS onl	3R3	4	0	3,899,243:00:0	
2810	**97**	**95**	**06:45:35.668**	**G7GNKITTU_01-**	**NIMPBK**	**301KC**	**DARK RAYED CRATER KITTU**	**3R3**	**4**	**0**	**: :**	
2811	**97**	**95**	**06:45:44.335**	**G7GNKITTU_01-**	**DESELC**	**300FB**	**DARK RAYED CRATER KITTU**	**3R3**	**4**	**0**	**: :**	
2812	97	95	06:47:44.333	428JA6A	6RCCLR			3R3	4	0	3,899,245:90:0	
2813	97	95	06:47:45.000	428JA6B	6RCSET		8	3R3	4	0	3,899,246:00:0	
2814	**97**	**95**	**06:48:24.335**	**G7GNKITTU_01-**	**NIMPBK**	**301FI**	**DARK RAYED CRATER KITTU**	**3R3**	**4**	**0**	**: :**	
2815	**97**	**95**	**06:48:33.002**	**G7GNKITTU_01-**	**DESELC**	**300KC**	**DARK RAYED CRATER KITTU**	**3R3**	**4**	**0**	**: :**	
2816	**97**	**95**	**06:51:17.668**	**G7GNKITTU_01-**	**NIMPBK**	**301FG**	**DARK RAYED CRATER KITTU**	**3R3**	**4**	**0**	**: :**	
2817	**97**	**95**	**06:51:26.335**	**G7GNKITTU_01-**	**DESELC**	**300FI**	**DARK RAYED CRATER KITTU**	**3R3**	**4**	**0**	**: :**	
2818	97	95	06:54:22.333	117EY11A	**CSMOS**	GE	***** GROUP END CSMOS	3R3	4	0	3,899,252:50:0	
2819	**97**	**95**	**06:54:23.002**	**G7GNKITTU_01-**	**DESELC**	**300FG**	**DARK RAYED CRATER KITTU**	**3R3**	**4**	**0**	**: :**	
2820	97	95	06:54:23.666		DMS:	**: *RUNDOWN**	R28, TRACK 3, FWD, TIC *4266.80 +/- 2	3R3	4	0	3,899,252:52:0	
2821	97	95	06:54:23.666	175TB422A6A	6DMSC	R7,3	DMS Control	3R3	4	0	3,899,252:52:0	
2822	97	95	06:54:24.866		DMS:	: *RUNUP	R7, TRACK 3, FWD, TIC *4267.10 +/- 2	3R3	4	0	3,899,252:53:8	
2823	97	95	06:54:26.266		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC 4267.22 +/- 2	3R3	4	0	3,899,252:55:9	
2824	97	95	06:54:26.266		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *4267.22 +/- 2	3R3	4	0	3,899,252:55:9	
2825	97	95	06:54:26.333	175TB176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	3R3	4	0	3,899,252:56:0	
2826	**97**	**95**	**06:54:53.666**	**G7GNKITTU_01-**		**-----STOP-------**		**3R3**	**4**	**0**	**: :**	
2827	97	95	07:08:57.666	165HH4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	3R3	4	0	3,899,266:89:0	
2828	97	95	07:08:58.333	165HH4B	7SCAN	NORM,120.278999,	Check S/P Position	3R3	4	0	3,899,266:90:0	
2829	97	95	07:10:51.000	117HH	**CSMOS**	GS	***** GROUP START CSMOS	3R3	4	0	3,899,268:77:0	
2830	97	95	07:10:59.000	165HH4C	7VECT		Inert vect update UTC	3R3	4	0	3,899,268:89:0	
2831	97	95	07:10:59.666	165HH4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	3R3	4	0	3,899,268:90:0	
2832	97	95	07:11:00.333	117HH105A106A4A	7STRP	-0.135826,0.0310	Slew =,0.16	3R3	4	0	3,899,269:00:0	
2833	97	95	07:17:04.333	428JB6A	6RCCLR			3R3	4	0	3,899,275:00:0	
2834	97	95	07:25:09.666	117HH11A	**CSMOS**	GE	***** GROUP END CSMOS	3R3	4	0	3,899,283:00:0	
2835	97	95	07:40:17.666	432MB431A6A	6RCDSL	DDSDSL,PLSNCG,EP	Record Deselect (DDS o	3R3	4	0	3,899,297:88:0	
2836	97	95	07:40:18.333	432MB6A	6RTSL1		R/T Select of DDS and	3R3	4	0	3,899,297:89:0	
2837	97	95	07:40:21.666	432OW431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	3R3	4	0	3,899,298:03:0	
2838	97	95	07:40:21.666	175TB422A6B	6DMSC	RDY,0	DMS Control Tape stop	3R3	4	0	3,899,298:03:0	
2839	97	95	07:40:21.666		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *4913.02 +/- 2	3R3	4	0	3,899,298:03:0	
2840	97	95	07:40:22.333	432OW6A	6RTSL1		R/T Select of DDS and	3R3	4	0	3,899,298:04:0	
2841	97	95	07:40:25.666	282NP431A6A	6RCDSL	DDSNCG,PLSDSL,EP	Record Deselect (DDS o	3R3	4	0	3,899,298:09:0	
2842	97	95	07:41:14.333	282NP432A431A6A	6RCDSL	DDSNCG,PLSDSL,EP	Record Deselect (DDS o	3R3	4	0	3,899,298:82:0	
2843	97	95	07:41:15.000	282NP432A6A	6RTSL1		R/T Select of DDS and	3R3	4	0	3,899,298:83:0	
2844	97	95	08:40:58.333	165HI4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	3R3	4	0	3,899,357:89:0	
2845	97	95	08:40:59.000	165HI4B	7SCAN	NORM,66.726999,2	Check S/P Position	3R3	4	0	3,899,357:90:0	
2846	97	95	08:44:53.000	117HI	**CSMOS**	GS	***** GROUP START CSMOS	3R3	4	0	3,899,361:77:0	
2847	97	95	08:45:02.333	176HI6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	3R3	4	0	3,899,362:00:0	
2848	97	95	08:45:02.333	117HI105A106A4A	7STRP	0.064088,0.0,0,0	Slew =,2.01	3R3	4	0	3,899,362:00:0	
2849	97	95	08:45:37.666	117HI105A106A4B	7STRP	-0.063837,0.0005	Slew =12.01	3R3	4	0	3,899,362:53:0	
2850	97	95	08:45:46.333	117HI105A106A4C	7STRP	0.064088,0.0,0,0	Slew =,2.01	3R3	4	0	3,899,362:66:0	
2851	97	95	08:46:21.666	117HI105A106A4D	7STRP	-0.063837,0.0005	Slew =12.01	3R3	4	0	3,899,363:28:0	
2852	97	95	08:46:30.333	117HI105A106A4E	7STRP	0.064088,0.0,0,0	Slew =,2.01	3R3	4	0	3,899,363:41:0	
2853	97	95	08:47:05.666	117HI105A106A4F	7STRP	-0.063837,0.0005	Slew =12.01	3R3	4	0	3,899,364:03:0	
2854	97	95	08:47:14.333	117HI105A106A4G	7STRP	0.064088,0.0,0,0	Slew =,2.01	3R3	4	0	3,899,364:16:0	
2855	97	95	08:47:49.666	117HI105A106A4H	7STRP	-0.063837,0.0005	Slew =12.01	3R3	4	0	3,899,364:69:0	
2856	97	95	08:47:58.333	117HI105A106A4I	7STRP	0.064088,0.0,0,0	Slew =,2.01	3R3	4	0	3,899,364:82:0	
2857	97	95	08:48:33.666	117HI105A106A4J	7STRP	-0.063837,0.0005	Slew =12.01	3R3	4	0	3,899,365:44:0	
2858	97	95	08:48:42.333	117HI105A106A4K	7STRP	0.064088,0.0,0,0	Slew =,2.01	3R3	4	0	3,899,365:57:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2859	97	95	08:49:17.666	117HI105A106A4L	7STRP	-0.063837,0.0005	Slew =12.01	3R3	4	0	3,899,366:19:0	
2860	97	95	08:49:26.333	117HI105A106A4M	7STRP	0.064088,0.0,0,0	Slew =,2.01	3R3	4	0	3,899,366:32:0	
2861	97	95	08:50:01.666	117HI105A106A4N	7STRP	-0.063837,0.0005	Slew =12.01	3R3	4	0	3,899,366:85:0	
2862	97	95	08:50:10.333	117HI105A106A4O	7STRP	0.064088,0.0,0,0	Slew =,2.01	3R3	4	0	3,899,367:07:0	
2863	97	95	08:50:45.666	117HI105A106A4P	7STRP	-0.063837,0.0005	Slew =12.01	3R3	4	0	3,899,367:60:0	
2864	97	95	08:50:54.333	117HI105A106A4Q	7STRP	0.064088,0.0,0,0	Slew =,2.01	3R3	4	0	3,899,367:73:0	
2865	97	95	08:51:29.666	117HI105A106A4R	7STRP	-0.063837,0.0005	Slew =12.01	3R3	4	0	3,899,368:35:0	
2866	97	95	08:51:38.333	117HI105A106A4S	7STRP	0.064088,0.0,0,0	Slew =,2.01	3R3	4	0	3,899,368:48:0	
2867	97	95	08:52:13.666	117HI105A106A4T	7STRP	-0.063837,0.0005	Slew =12.01	3R3	4	0	3,899,369:10:0	
2868	97	95	08:52:22.333	117HI105A106A4U	7STRP	0.064088,0.0,0,0	Slew =,2.01	3R3	4	0	3,899,369:23:0	
2869	97	95	08:52:57.666	117HI105A106A4V	7STRP	-0.063837,0.0005	Slew =12.01	3R3	4	0	3,899,369:76:0	
2870	97	95	08:53:06.333	117HI105A106A4W	7STRP	0.064088,0.0,0,0	Slew =,2.01	3R3	4	0	3,899,369:89:0	
2871	97	95	08:53:41.666	117HI105A106A4X	7STRP	-0.063837,0.0005	Slew =12.01	3R3	4	0	3,899,370:51:0	
2872	97	95	08:53:50.333	117HI105A106A4Y	7STRP	0.064088,0.0,0,0	Slew =,2.01	3R3	4	0	3,899,370:64:0	
2873	97	95	08:54:25.666	117HI105A106A4Z	7STRP	-0.063837,0.0005	Slew =12.01	3R3	4	0	3,899,371:26:0	
2874	97	95	08:54:34.333	117HI105A106A4AA	7STRP	0.064088,0.0,0,0	Slew =,2.01	3R3	4	0	3,899,371:39:0	
2875	97	95	08:55:09.666	117HI105A106A4AB	7STRP	-0.063837,0.0005	Slew =12.01	3R3	4	0	3,899,372:01:0	
2876	97	95	08:55:18.333	117HI105A106A4AC	7STRP	0.064088,0.0,0,0	Slew =,2.01	3R3	4	0	3,899,372:14:0	
2877	97	95	08:55:53.666	117HI105A106A4AD	7STRP	-0.063837,0.0005	Slew =12.01	3R3	4	0	3,899,372:67:0	
2878	97	95	08:56:02.333	117HI105A106A4AE	7STRP	0.064088,0.0,0,0	Slew =,2.01	3R3	4	0	3,899,372:80:0	
2879	97	95	08:56:37.666	117HI105A106A4AF	7STRP	-0.063837,0.0005	Slew =12.01	3R3	4	0	3,899,373:42:0	
2880	97	95	08:56:46.333	117HI105A106A4AG	7STRP	0.064088,0.0,0,0	Slew =,2.01	3R3	4	0	3,899,373:55:0	
2881	97	95	08:57:21.666	117HI105A106A4AH	7STRP	-0.063837,0.0005	Slew =12.01	3R3	4	0	3,899,374:17:0	
2882	97	95	08:57:30.333	117HI105A106A4AI	7STRP	0.064088,0.0,0,0	Slew =,2.01	3R3	4	0	3,899,374:30:0	
2883	97	95	08:57:44.333		DMS:	: *RUNUP	R7, TRACK *3, FWD, TIC 4913.08 +/- 2	3R3	4	0	3,899,374:51:0	
2884	97	95	08:57:45.733		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC *4913.20 +/- 2	3R3	4	0	3,899,374:53:1	
2885	97	95	08:58:02.333		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *4917.09 +/- 2	3R3	4	0	3,899,374:78:0	
2886	97	95	08:58:05.666	117HI105A106A4AJ	7STRP	-0.063837,0.0005	Slew =12.01	3R3	4	0	3,899,374:83:0	
2887	97	95	08:58:14.333	117HI105A106A4AK	7STRP	0.064088,0.0,0,0	Slew =,2.01	3R3	4	0	3,899,375:05:0	
2888	97	95	08:58:22.333		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *4921.78 +/- 2	3R3	4	0	3,899,375:17:0	
2889	97	95	08:58:49.666	117HI105A106A4AL	7STRP	-0.063837,0.0005	Slew =12.01	3R3	4	0	3,899,375:58:0	
2890	97	95	08:58:58.333	117HI105A106A4AM	7STRP	0.064088,0.0,0,0	Slew =,2.01	3R3	4	0	3,899,375:71:0	
2891	97	95	08:59:33.666	117HI105A106A4AN	7STRP	-0.063837,0.0005	Slew =12.01	3R3	4	0	3,899,376:33:0	
2892	97	95	08:59:42.333	117HI105A106A4AO	7STRP	0.064088,0.0,0,0	Slew =,2.01	3R3	4	0	3,899,376:46:0	
2893	97	95	09:00:17.666	117HI105A106A4AP	7STRP	-0.063837,0.0005	Slew =12.01	3R3	4	0	3,899,377:08:0	
2894	97	95	09:00:26.333	117HI105A106A4AQ	7STRP	0.064088,0.0,0,0	Slew =,2.01	3R3	4	0	3,899,377:21:0	
2895	97	95	09:01:01.666	117HI105A106A4AR	7STRP	-0.063837,0.0005	Slew =12.01	3R3	4	0	3,899,377:74:0	
2896	97	95	09:01:10.333	117HI105A106A4AS	7STRP	0.064088,0.0,0,0	Slew =,2.01	3R3	4	0	3,899,377:87:0	
2897	97	95	09:01:45.666	117HI105A106A4AT	7STRP	-0.063837,0.0005	Slew =12.01	3R3	4	0	3,899,378:49:0	
2898	97	95	09:01:54.333	117HI105A106A4AU	7STRP	0.064088,0.0,0,0	Slew =,2.01	3R3	4	0	3,899,378:62:0	
2899	97	95	09:02:29.666	117HI105A106A4AV	7STRP	-0.063837,0.0005	Slew =12.01	3R3	4	0	3,899,379:24:0	
2900	97	95	09:02:38.333	117HI105A106A4AW	7STRP	0.064088,0.0,0,0	Slew =,2.01	3R3	4	0	3,899,379:37:0	
2901	97	95	09:03:13.666	117HI105A106A4AX	7STRP	-0.063837,0.0005	Slew =12.01	3R3	4	0	3,899,379:90:0	
2902	97	95	09:03:22.333	117HI105A106A4AY	7STRP	0.064088,0.0,0,0	Slew =,2.01	3R3	4	0	3,899,380:12:0	
2903	97	95	09:03:57.666	117HI105A106A4AZ	7STRP	-0.063837,0.0005	Slew =12.01	3R3	4	0	3,899,380:65:0	
2904	97	95	09:04:06.333	117HI105A106A4BA	7STRP	0.064088,0.0,0,0	Slew =,2.01	3R3	4	0	3,899,380:78:0	
2905	97	95	09:04:41.666	117HI105A106A4BB	7STRP	-0.063837,0.0005	Slew =12.01	3R3	4	0	3,899,381:40:0	
2906	97	95	09:04:50.333	117HI105A106A4BC	7STRP	0.064088,0.0,0,0	Slew =,2.01	3R3	4	0	3,899,381:53:0	
2907	97	95	09:05:25.666	117HI105A106A4BD	7STRP	-0.063837,0.0005	Slew =12.01	3R3	4	0	3,899,382:15:0	
2908	97	95	09:05:34.333	117HI105A106A4BE	7STRP	0.064088,0.0,0,0	Slew =,2.01	3R3	4	0	3,899,382:28:0	
2909	97	95	09:06:09.666	117HI105A106A4BF	7STRP	-0.063837,0.0005	Slew =12.01	3R3	4	0	3,899,382:81:0	
2910	97	95	09:06:18.333	117HI105A106A4BG	7STRP	0.064088,0.0,0,0	Slew =,2.01	3R3	4	0	3,899,383:03:0	
2911	97	95	09:06:53.666	117HI105A106A4BH	7STRP	-0.063837,0.0005	Slew =12.01	3R3	4	0	3,899,383:56:0	
2912	97	95	09:07:02.333	117HI105A106A4BI	7STRP	0.064088,0.0,0,0	Slew =,2.01	3R3	4	0	3,899,383:69:0	
2913	97	95	09:07:37.666	117HI105A106A4BJ	7STRP	-0.063837,0.0005	Slew =12.01	3R3	4	0	3,899,384:31:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2914	97	95	09:07:46.333	117HI105A106A4BK	7STRP	0.064088,0.0,0,0	Slew =,2.01	3R3	4	0	3,899,384:44:0	
2915	97	95	09:08:21.666	117HI105A106A4BL	7STRP	-0.063837,0.0005	Slew =12.01	3R3	4	0	3,899,385:06:0	
2916	97	95	09:08:30.333	117HI105A106A4BM	7STRP	0.064088,0.0,0,0	Slew =,2.01	3R3	4	0	3,899,385:19:0	
2917	97	95	09:09:05.666	117HI105A106A4BN	7STRP	-0.063837,0.0005	Slew =12.01	3R3	4	0	3,899,385:72:0	
2918	97	95	09:09:14.333	117HI105A106A4BO	7STRP	0.064088,0.0,0,0	Slew =,2.01	3R3	4	0	3,899,385:85:0	
2919	97	95	09:09:49.666	117HI105A106A4BP	7STRP	-0.063837,0.0005	Slew =12.01	3R3	4	0	3,899,386:47:0	
2920	97	95	09:09:58.333	117HI105A106A4BQ	7STRP	0.064088,0.0,0,0	Slew =,2.01	3R3	4	0	3,899,386:60:0	
2921	97	95	09:10:33.666	117HI105A106A4BR	7STRP	-0.063837,0.0005	Slew =12.01	3R3	4	0	3,899,387:22:0	
2922	97	95	09:10:42.333	117HI105A106A4BS	7STRP	0.064088,0.0,0,0	Slew =,2.01	3R3	4	0	3,899,387:35:0	
2923	97	95	09:10:46.333		DMS:	: *RUNUP	R7, TRACK *3, FWD, TIC 4921.84 +/- 2	3R3	4	0	3,899,387:41:0	
2924	97	95	09:10:47.733		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC *4921.96 +/- 2	3R3	4	0	3,899,387:43:1	
2925	97	95	09:11:04.333		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *4925.85 +/- 2	3R3	4	0	3,899,387:68:0	
2926	97	95	09:11:17.666	117HI105A106A4BT	7STRP	-0.063837,0.0005	Slew =12.01	3R3	4	0	3,899,387:88:0	
2927	97	95	09:11:24.333		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *4930.54 +/- 2	3R3	4	0	3,899,388:07:0	
2928	97	95	09:11:26.333	117HI105A106A4BU	7STRP	0.064088,0.0,0,0	Slew =,2.01	3R3	4	0	3,899,388:10:0	
2929	97	95	09:12:01.666	117HI105A106A4BV	7STRP	-0.063837,0.0005	Slew =12.01	3R3	4	0	3,899,388:63:0	
2930	97	95	09:12:10.333	117HI105A106A4BW	7STRP	0.064088,0.0,0,0	Slew =,2.01	3R3	4	0	3,899,388:76:0	
2931	97	95	09:12:45.666	117HI105A106A4BX	7STRP	-0.063837,0.0005	Slew =12.01	3R3	4	0	3,899,389:38:0	
2932	97	95	09:12:54.333	117HI105A106A4BY	7STRP	0.064088,0.0,0,0	Slew =,2.01	3R3	4	0	3,899,389:51:0	
2933	97	95	09:13:29.666	117HI105A106A4BZ	7STRP	-0.063837,0.0005	Slew =12.01	3R3	4	0	3,899,390:13:0	
2934	97	95	09:13:38.333	117HI105A106A4CA	7STRP	0.064088,0.0,0,0	Slew =,2.01	3R3	4	0	3,899,390:26:0	
2935	97	95	09:14:13.666	117HI105A106A4CB	7STRP	-0.063837,0.0005	Slew =12.01	3R3	4	0	3,899,390:79:0	
2936	97	95	09:14:22.333	117HI105A106A4CC	7STRP	0.064088,0.0,0,0	Slew =,2.01	3R3	4	0	3,899,391:01:0	
2937	97	95	09:14:57.666	117HI105A106A4CD	7STRP	-0.063837,0.0005	Slew =12.01	3R3	4	0	3,899,391:54:0	
2938	97	95	09:15:06.333	117HI105A106A4CE	7STRP	0.064088,0.0,0,0	Slew =,2.01	3R3	4	0	3,899,391:67:0	
2939	97	95	09:15:41.666	117HI105A106A4CF	7STRP	-0.063837,0.0005	Slew =12.01	3R3	4	0	3,899,392:29:0	
2940	97	95	09:15:50.333	117HI105A106A4CG	7STRP	0.064088,0.0,0,0	Slew =,2.01	3R3	4	0	3,899,392:42:0	
2941	97	95	09:16:25.666	117HI105A106A4CH	7STRP	-0.063837,0.0005	Slew =12.01	3R3	4	0	3,899,393:04:0	
2942	97	95	09:16:34.333	117HI105A106A4CI	7STRP	0.064088,0.0,0,0	Slew =,2.01	3R3	4	0	3,899,393:17:0	
2943	97	95	09:17:09.666	117HI105A106A4CJ	7STRP	-0.063837,0.0005	Slew =12.01	3R3	4	0	3,899,393:70:0	
2944	97	95	09:17:18.333	117HI105A106A4CK	7STRP	0.064088,0.0,0,0	Slew =,2.01	3R3	4	0	3,899,393:83:0	
2945	97	95	09:17:53.666	117HI105A106A4CL	7STRP	-0.063837,0.0005	Slew =12.01	3R3	4	0	3,899,394:45:0	
2946	97	95	09:18:02.333	117HI105A106A4CM	7STRP	0.064088,0.0,0,0	Slew =,2.01	3R3	4	0	3,899,394:58:0	
2947	97	95	09:18:37.666	117HI105A106A4CN	7STRP	-0.063837,0.0005	Slew =12.01	3R3	4	0	3,899,395:20:0	
2948	97	95	09:18:46.333	117HI105A106A4CO	7STRP	0.064088,0.0,0,0	Slew =,2.01	3R3	4	0	3,899,395:33:0	
2949	97	95	09:19:21.666	117HI105A106A4CP	7STRP	-0.063837,0.0005	Slew =12.01	3R3	4	0	3,899,395:86:0	
2950	97	95	09:19:30.333	117HI105A106A4CQ	7STRP	0.064088,0.0,0,0	Slew =,2.01	3R3	4	0	3,899,396:08:0	
2951	97	95	09:20:05.666	117HI105A106A4CR	7STRP	-0.063837,0.0005	Slew =12.01	3R3	4	0	3,899,396:61:0	
2952	97	95	09:20:14.333	117HI105A106A4CS	7STRP	0.064088,0.0,0,0	Slew =,2.01	3R3	4	0	3,899,396:74:0	
2953	97	95	09:20:49.666	117HI105A106A4CT	7STRP	-0.063837,0.0005	Slew =12.01	3R3	4	0	3,899,397:36:0	
2954	97	95	09:20:58.333	117HI105A106A4CU	7STRP	0.064088,0.0,0,0	Slew =,2.01	3R3	4	0	3,899,397:49:0	
2955	97	95	09:21:33.666	117HI105A106A4CV	7STRP	-0.063837,0.0005	Slew =12.01	3R3	4	0	3,899,398:11:0	
2956	97	95	09:21:42.333	117HI105A106A4CW	7STRP	0.064088,0.0,0,0	Slew =,2.01	3R3	4	0	3,899,398:24:0	
2957	97	95	09:22:17.666	117HI105A106A4CX	7STRP	-0.063837,0.0005	Slew =12.01	3R3	4	0	3,899,398:77:0	
2958	97	95	09:22:26.333	117HI105A106A4CY	7STRP	0.064088,0.0,0,0	Slew =,2.01	3R3	4	0	3,899,398:90:0	
2959	97	95	09:23:01.666	117HI105A106A4CZ	7STRP	-0.063837,0.0005	Slew =12.01	3R3	4	0	3,899,399:52:0	
2960	97	95	09:23:10.333	117HI105A106A4DA	7STRP	0.064088,0.0,0,0	Slew =,2.01	3R3	4	0	3,899,399:65:0	
2961	97	95	09:23:45.666	117HI105A106A4DB	7STRP	-0.063837,0.0005	Slew =12.01	3R3	4	0	3,899,400:27:0	
2962	97	95	09:23:48.333		DMS:	: *RUNUP	R7, TRACK *3, FWD, TIC 4930.60 +/- 2	3R3	4	0	3,899,400:31:0	
2963	97	95	09:23:49.733		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC *4930.72 +/- 2	3R3	4	0	3,899,400:33:1	
2964	97	95	09:23:54.333	117HI105A106A4DC	7STRP	0.064088,0.0,0,0	Slew =,2.01	3R3	4	0	3,899,400:40:0	
2965	97	95	09:24:06.333		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *4934.61 +/- 2	3R3	4	0	3,899,400:58:0	
2966	97	95	09:24:26.333		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *4939.30 +/- 2	3R3	4	0	3,899,400:88:0	
2967	97	95	09:24:29.666	117HI105A106A4DD	7STRP	-0.063837,0.0005	Slew =12.01	3R3	4	0	3,899,401:02:0	
2968	97	95	09:24:38.333	117HI105A106A4DE	7STRP	0.064088,0.0,0,0	Slew =,2.01	3R3	4	0	3,899,401:15:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2969	97	95	09:25:13.666	117HI105A106A4DF	7STRP	-0.063837,0.0005	Slew =12.01	3R3	4	0	3,899,401:68:0	
2970	97	95	09:25:22.333	117HI105A106A4DG	7STRP	0.064088,0.0,0,0	Slew =,2.01	3R3	4	0	3,899,401:81:0	
2971	97	95	09:25:57.666	117HI105A106A4DH	7STRP	-0.063837,0.0005	Slew =12.01	3R3	4	0	3,899,402:43:0	
2972	97	95	09:26:06.333	117HI105A106A4DI	7STRP	0.064088,0.0,0,0	Slew =,2.01	3R3	4	0	3,899,402:56:0	
2973	97	95	09:26:41.666	117HI105A106A4DJ	7STRP	-0.063837,0.0005	Slew =12.01	3R3	4	0	3,899,403:18:0	
2974	97	95	09:26:50.333	117HI105A106A4DK	7STRP	0.064088,0.0,0,0	Slew =,2.01	3R3	4	0	3,899,403:31:0	
2975	97	95	09:27:25.666	117HI105A106A4DL	7STRP	-0.063837,0.0005	Slew =12.01	3R3	4	0	3,899,403:84:0	
2976	97	95	09:27:34.333	117HI105A106A4DM	7STRP	0.064088,0.0,0,0	Slew =,2.01	3R3	4	0	3,899,404:06:0	
2977	97	95	09:28:09.666	117HI105A106A4DN	7STRP	-0.063837,0.0005	Slew =12.01	3R3	4	0	3,899,404:59:0	
2978	97	95	09:28:18.333	117HI105A106A4DO	7STRP	0.064088,0.0,0,0	Slew =,2.01	3R3	4	0	3,899,404:72:0	
2979	97	95	09:28:53.666	117HI105A106A4DP	7STRP	-0.063837,0.0005	Slew =12.01	3R3	4	0	3,899,405:34:0	
2980	97	95	09:29:02.333	117HI105A106A4DQ	7STRP	0.064088,0.0,0,0	Slew =,2.01	3R3	4	0	3,899,405:47:0	
2981	97	95	09:29:37.666	117HI105A106A4DR	7STRP	-0.063837,0.0005	Slew =12.01	3R3	4	0	3,899,406:09:0	
2982	97	95	09:29:46.333	117HI105A106A4DS	7STRP	0.064088,0.0,0,0	Slew =,2.01	3R3	4	0	3,899,406:22:0	
2983	97	95	09:30:21.666	117HI105A106A4DT	7STRP	-0.063837,0.0005	Slew =12.01	3R3	4	0	3,899,406:75:0	
2984	97	95	09:30:30.333	117HI105A106A4DU	7STRP	0.064088,0.0,0,0	Slew =,2.01	3R3	4	0	3,899,406:88:0	
2985	97	95	09:31:05.666	117HI105A106A4DV	7STRP	-0.063837,0.0005	Slew =12.01	3R3	4	0	3,899,407:50:0	
2986	97	95	09:31:14.333	117HI105A106A4DW	7STRP	0.064088,0.0,0,0	Slew =,2.01	3R3	4	0	3,899,407:63:0	
2987	97	95	09:31:49.666	117HI105A106A4DX	7STRP	-0.063837,0.0005	Slew =12.01	3R3	4	0	3,899,408:25:0	
2988	97	95	09:31:58.333	117HI105A106A4DY	7STRP	0.064088,0.0,0,0	Slew =,2.01	3R3	4	0	3,899,408:38:0	
2989	97	95	09:32:33.666	117HI105A106A4DZ	7STRP	-0.063837,0.0005	Slew =12.01	3R3	4	0	3,899,409:00:0	
2990	97	95	09:32:42.333	117HI105A106A4EA	7STRP	0.064088,0.0,0,0	Slew =,2.01	3R3	4	0	3,899,409:13:0	
2991	97	95	09:33:17.666	117HI105A106A4EB	7STRP	-0.063837,0.0005	Slew =12.01	3R3	4	0	3,899,409:66:0	
2992	97	95	09:33:26.333	117HI105A106A4EC	7STRP	0.064088,0.0,0,0	Slew =,2.01	3R3	4	0	3,899,409:79:0	
2993	97	95	09:34:01.666	117HI105A106A4ED	7STRP	-0.063837,0.0005	Slew =12.01	3R3	4	0	3,899,410:41:0	
2994	97	95	09:34:10.333	117HI105A106A4EE	7STRP	0.064088,0.0,0,0	Slew =,2.01	3R3	4	0	3,899,410:54:0	
2995	97	95	09:34:45.666	117HI105A106A4EF	7STRP	-0.063837,0.0005	Slew =12.01	3R3	4	0	3,899,411:16:0	
2996	97	95	09:34:54.333	117HI105A106A4EG	7STRP	0.064088,0.0,0,0	Slew =,2.01	3R3	4	0	3,899,411:29:0	
2997	97	95	09:35:29.666	117HI105A106A4EH	7STRP	-0.063837,0.0005	Slew =12.01	3R3	4	0	3,899,411:82:0	
2998	97	95	09:35:38.333	117HI105A106A4EI	7STRP	0.064088,0.0,0,0	Slew =,2.01	3R3	4	0	3,899,412:04:0	
2999	97	95	09:36:13.666	117HI105A106A4EJ	7STRP	-0.063837,0.0005	Slew =12.01	3R3	4	0	3,899,412:57:0	
3000	97	95	09:36:22.333	117HI105A106A4EK	7STRP	0.064088,0.0,0,0	Slew =,2.01	3R3	4	0	3,899,412:70:0	
3001	97	95	09:36:51.000		DMS:	: *RUNUP	R7, TRACK *3, FWD, TIC 4939.36 +/- 2	3R3	4	0	3,899,413:22:0	
3002	97	95	09:36:52.400		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC *4939.48 +/- 2	3R3	4	0	3,899,413:24:1	
3003	97	95	09:36:57.666	117HI105A106A4EL	7STRP	-0.063837,0.0005	Slew =12.01	3R3	4	0	3,899,413:32:0	
3004	97	95	09:37:06.333	117HI105A106A4EM	7STRP	0.064088,0.0,0,0	Slew =,2.01	3R3	4	0	3,899,413:45:0	
3005	97	95	09:37:08.333		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *4943.21 +/- 2	3R3	4	0	3,899,413:48:0	
3006	97	95	09:37:28.333		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *4947.90 +/- 2	3R3	4	0	3,899,413:78:0	
3007	97	95	09:37:41.666	117HI105A106A4EN	7STRP	-0.063837,0.0005	Slew =12.01	3R3	4	0	3,899,414:07:0	
3008	97	95	09:37:50.333	117HI105A106A4EO	7STRP	0.064088,0.0,0,0	Slew =,2.01	3R3	4	0	3,899,414:20:0	
3009	97	95	09:38:25.666	117HI105A106A4EP	7STRP	-0.063837,0.0005	Slew =12.01	3R3	4	0	3,899,414:73:0	
3010	97	95	09:38:34.333	117HI105A106A4EQ	7STRP	0.064088,0.0,0,0	Slew =,2.01	3R3	4	0	3,899,414:86:0	
3011	97	95	09:39:09.666	117HI105A106A4ER	7STRP	-0.063837,0.0005	Slew =12.01	3R3	4	0	3,899,415:48:0	
3012	97	95	09:39:18.333	117HI105A106A4ES	7STRP	0.064088,0.0,0,0	Slew =,2.01	3R3	4	0	3,899,415:61:0	
3013	97	95	09:39:53.666	117HI105A106A4ET	7STRP	-0.063837,0.0005	Slew =12.01	3R3	4	0	3,899,416:23:0	
3014	97	95	09:40:02.333	117HI105A106A4EU	7STRP	0.064088,0.0,0,0	Slew =,2.01	3R3	4	0	3,899,416:36:0	
3015	97	95	09:40:37.666	117HI105A106A4EV	7STRP	-0.063837,0.0005	Slew =12.01	3R3	4	0	3,899,416:89:0	
3016	97	95	09:40:46.333	117HI105A106A4EW	7STRP	0.064088,0.0,0,0	Slew =,2.01	3R3	4	0	3,899,417:11:0	
3017	97	95	09:41:21.666	117HI105A106A4EX	7STRP	-0.063837,0.0005	Slew =12.01	3R3	4	0	3,899,417:64:0	
3018	97	95	09:41:30.333	117HI105A106A4EY	7STRP	0.064088,0.0,0,0	Slew =,2.01	3R3	4	0	3,899,417:77:0	
3019	97	95	09:42:05.666	117HI105A106A4EZ	7STRP	-0.063837,0.0005	Slew =12.01	3R3	4	0	3,899,418:39:0	
3020	97	95	09:42:14.333	117HI105A106A4FA	7STRP	0.064088,0.0,0,0	Slew =,2.01	3R3	4	0	3,899,418:52:0	
3021	97	95	09:42:49.666	117HI105A106A4FB	7STRP	-0.063837,0.0005	Slew =12.01	3R3	4	0	3,899,419:14:0	
3022	97	95	09:42:58.333	117HI105A106A4FC	7STRP	0.064088,0.0,0,0	Slew =,2.01	3R3	4	0	3,899,419:27:0	
3023	97	95	09:43:33.666	117HI105A106A4FD	7STRP	-0.063837,0.0005	Slew =12.01	3R3	4	0	3,899,419:80:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
3024	97	95	09:43:42.333	117HI105A106A4FE	7STRP	0.064088,0.0,0,0	Slew =,2.01	3R3	4	0	3,899,420:02:0	
3025	97	95	09:44:17.666	117HI105A106A4FF	7STRP	-0.063837,0.0005	Slew =12.01	3R3	4	0	3,899,420:55:0	
3026	97	95	09:44:26.333	117HI105A106A4FG	7STRP	0.064088,0.0,0,0	Slew =,2.01	3R3	4	0	3,899,420:68:0	
3027	97	95	09:45:01.666	117HI105A106A4FH	7STRP	-0.063837,0.0005	Slew =12.01	3R3	4	0	3,899,421:30:0	
3028	97	95	09:45:10.333	117HI105A106A4FI	7STRP	0.064088,0.0,0,0	Slew =,2.01	3R3	4	0	3,899,421:43:0	
3029	97	95	09:45:45.666	117HI105A106A4FJ	7STRP	-0.063837,0.0005	Slew =12.01	3R3	4	0	3,899,422:05:0	
3030	97	95	09:45:54.333	117HI105A106A4FK	7STRP	0.064088,0.0,0,0	Slew =,2.01	3R3	4	0	3,899,422:18:0	
3031	97	95	09:46:29.666	117HI105A106A4FL	7STRP	-0.063837,0.0005	Slew =12.01	3R3	4	0	3,899,422:71:0	
3032	97	95	09:46:38.333	117HI105A106A4FM	7STRP	0.064088,0.0,0,0	Slew =,2.01	3R3	4	0	3,899,422:84:0	
3033	97	95	09:47:13.666	117HI105A106A4FN	7STRP	-0.063837,0.0005	Slew =12.01	3R3	4	0	3,899,423:46:0	
3034	97	95	09:47:22.333	117HI105A106A4FO	7STRP	0.064088,0.0,0,0	Slew =,2.01	3R3	4	0	3,899,423:59:0	
3035	97	95	09:47:57.666	117HI105A106A4FP	7STRP	-0.063837,0.0005	Slew =12.01	3R3	4	0	3,899,424:21:0	
3036	97	95	09:48:06.333	117HI105A106A4FQ	7STRP	0.064088,0.0,0,0	Slew =,2.01	3R3	4	0	3,899,424:34:0	
3037	97	95	09:48:41.666	117HI105A106A4FR	7STRP	-0.063837,0.0005	Slew =12.01	3R3	4	0	3,899,424:87:0	
3038	97	95	09:48:50.333	117HI105A106A4FS	7STRP	0.064088,0.0,0,0	Slew =,2.01	3R3	4	0	3,899,425:09:0	
3039	97	95	09:49:25.666	117HI105A106A4FT	7STRP	-0.063837,0.0005	Slew =12.01	3R3	4	0	3,899,425:62:0	
3040	97	95	09:49:34.333	117HI105A106A4FU	7STRP	0.064088,0.0,0,0	Slew =,2.01	3R3	4	0	3,899,425:75:0	
3041	97	95	09:49:53.000		DMS:	: *RUNUP	R7, TRACK *3, FWD, TIC 4947.96 +/- 2	3R3	4	0	3,899,426:12:0	
3042	97	95	09:49:54.400		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC *4948.08 +/- 2	3R3	4	0	3,899,426:14:1	
3043	97	95	09:50:09.666	117HI105A106A4FV	7STRP	-0.063837,0.0005	Slew =12.01	3R3	4	0	3,899,426:37:0	
3044	97	95	09:50:11.000		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *4951.97 +/- 2	3R3	4	0	3,899,426:39:0	
3045	97	95	09:50:18.333	117HI105A106A4FW	7STRP	0.064088,0.0,0,0	Slew =,2.01	3R3	4	0	3,899,426:50:0	
3046	97	95	09:50:31.000		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *4956.66 +/- 2	3R3	4	0	3,899,426:69:0	
3047	97	95	09:50:53.666	117HI105A106A4FX	7STRP	-0.063837,0.0005	Slew =12.01	3R3	4	0	3,899,427:12:0	
3048	97	95	09:51:02.333	117HI105A106A4FY	7STRP	0.064088,0.0,0,0	Slew =,2.01	3R3	4	0	3,899,427:25:0	
3049	97	95	09:51:37.666	117HI105A106A4FZ	7STRP	-0.063837,0.0005	Slew =12.01	3R3	4	0	3,899,427:78:0	
3050	97	95	09:51:46.333	117HI105A106A4GA	7STRP	0.064088,0.0,0,0	Slew =,2.01	3R3	4	0	3,899,428:00:0	
3051	97	95	09:52:21.666	117HI11A	**CSMOS**	GE	***** GROUP END CSMOS	3R3	4	0	3,899,428:53:0	
3052	**97**	**95**	**09:53:51.667**	**G7JNAWGWIN03**		**-----START------**		**3R3**	**4**	**0**	**: :**	
3053	97	95	09:58:49.666	165HX4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	3R3	4	0	3,899,434:89:0	
3054	97	95	09:58:50.333	165HX4B	7SCAN	NORM,64.742999,2	Check S/P Position	3R3	4	0	3,899,434:90:0	
3055	97	95	10:02:44.333	117HX	**CSMOS**	GS	***** GROUP START CSMOS	3R3	4	0	3,899,438:77:0	
3056	97	95	10:02:53.666	117HX105A106A4A	7STRP	-0.012901,0.0,0,	Slew =,0.31	3R3	4	0	3,899,439:00:0	
3057	97	95	10:02:55.000		DMS:	: *RUNUP	R7, TRACK *3, FWD, TIC 4956.72 +/- 2	3R3	4	0	3,899,439:02:0	
3058	97	95	10:02:56.400		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC *4956.84 +/- 2	3R3	4	0	3,899,439:04:1	
3059	97	95	10:03:13.000		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *4960.73 +/- 2	3R3	4	0	3,899,439:29:0	
3060	97	95	10:03:33.000		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *4965.41 +/- 2	3R3	4	0	3,899,439:59:0	
3061	97	95	10:03:38.333	117HX105A106A4B	7STRP	0.013231,0.0005,	Slew =12.01	3R3	4	0	3,899,439:67:0	
3062	97	95	10:03:45.000	117HX105A106A4C	7STRP	-0.012901,0.0,0,	Slew =,0.31	3R3	4	0	3,899,439:77:0	
3063	97	95	10:04:29.666	117HX105A106A4D	7STRP	0.013231,0.0005,	Slew =12.01	3R3	4	0	3,899,440:53:0	
3064	97	95	10:04:36.333	117HX105A106A4E	7STRP	-0.012901,0.0,0,	Slew =,0.31	3R3	4	0	3,899,440:63:0	
3065	97	95	10:05:21.000	117HX105A106A4F	7STRP	0.013231,0.0005,	Slew =12.01	3R3	4	0	3,899,441:39:0	
3066	97	95	10:05:27.666	117HX105A106A4G	7STRP	-0.012901,0.0,0,	Slew =,0.31	3R3	4	0	3,899,441:49:0	
3067	97	95	10:06:12.333	117HX105A106A4H	7STRP	0.013231,0.0005,	Slew =12.01	3R3	4	0	3,899,442:25:0	
3068	97	95	10:06:19.000	117HX105A106A4I	7STRP	-0.012901,0.0,0,	Slew =,0.31	3R3	4	0	3,899,442:35:0	
3069	97	95	10:07:03.666	117HX105A106A4J	7STRP	0.013231,0.0005,	Slew =12.01	3R3	4	0	3,899,443:11:0	
3070	97	95	10:07:10.333	117HX105A106A4K	7STRP	-0.012901,0.0,0,	Slew =,0.31	3R3	4	0	3,899,443:21:0	
3071	97	95	10:07:55.000	117HX105A106A4L	7STRP	0.013231,0.0005,	Slew =12.01	3R3	4	0	3,899,443:88:0	
3072	97	95	10:08:01.666	117HX105A106A4M	7STRP	-0.012901,0.0,0,	Slew =,0.31	3R3	4	0	3,899,444:07:0	
3073	97	95	10:08:46.333	117HX105A106A4N	7STRP	0.013231,0.0005,	Slew =12.01	3R3	4	0	3,899,444:74:0	
3074	97	95	10:08:53.000	117HX105A106A4O	7STRP	-0.012901,0.0,0,	Slew =,0.31	3R3	4	0	3,899,444:84:0	
3075	97	95	10:09:37.666	117HX105A106A4P	7STRP	0.013231,0.0005,	Slew =12.01	3R3	4	0	3,899,445:60:0	
3076	97	95	10:09:44.333	117HX105A106A4Q	7STRP	-0.012901,0.0,0,	Slew =,0.31	3R3	4	0	3,899,445:70:0	
3077	97	95	10:10:29.000	117HX105A106A4R	7STRP	0.013231,0.0005,	Slew =12.01	3R3	4	0	3,899,446:46:0	
3078	97	95	10:10:35.666	117HX105A106A4S	7STRP	-0.012901,0.0,0,	Slew =,0.31	3R3	4	0	3,899,446:56:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
3079	97	95	10:11:20.333	117HX11A	**CSMOS**	GE	***** GROUP END CSMOS	3R3	4	0	3,899,447:32:0	
3080	97	95	10:11:20.333	176HI6B	6TMREC	**NRC**	NO RECORD Record Mode Change	3R3	4	0	3,899,447:32:0	
3081	97	95	10:11:29.000		DMS:	: *RUNUP	R7, TRACK *3, FWD, TIC 4965.47 +/- 2	3R3	4	0	3,899,447:45:0	
3082	97	95	10:11:30.400		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC *4965.59 +/- 2	3R3	4	0	3,899,447:47:1	
3083	97	95	10:11:32.333		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *4966.05 +/- 2	3R3	4	0	3,899,447:50:0	
3084	97	95	10:11:47.000		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *4969.48 +/- 2	3R3	4	0	3,899,447:72:0	
3085	97	95	10:53:22.333	488BA6A	6TMSED	FILL,CL3	Sci, Eng, and D/L Chan	3R3	4	0	3,899,488:84:0	
3086	97	95	11:01:31.000	165GF4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	3R3	4	0	3,899,496:89:0	
3087	97	95	11:01:31.666	165GF4B	7SCAN	NORM,69.601999,2	Check S/P Position	3R3	4	0	3,899,496:90:0	
3088	97	95	11:03:07.666	488BA6B	6TMSED	FILL,CL2	Sci, Eng, and D/L Chan	3R3	4	0	3,899,498:52:0	
3089	97	95	11:05:25.666	117GF	**CSMOS**	GS	***** GROUP START CSMOS	3R3	4	0	3,899,500:77:0	
3090	97	95	11:05:35.000	117GF105A106A4A	7STRP	0.004,0.0,0,0,0,	Slew =,0.32	3R3	4	0	3,899,501:00:0	
3091	97	95	11:05:35.000	176GF6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	3R3	4	0	3,899,501:00:0	
3092	97	95	11:05:52.333	117GF11A	**CSMOS**	GE	***** GROUP END CSMOS	3R3	4	0	3,899,501:26:0	
3093	97	95	11:06:08.333	176GF6B	6TMREC	**NRC**	NO RECORD Record Mode Change	3R3	4	0	3,899,501:50:0	
3094	97	95	11:06:17.000		DMS:	: *RUNUP	R7, TRACK *3, FWD, TIC 4969.54 +/- 2	3R3	4	0	3,899,501:63:0	
3095	97	95	11:06:18.400		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC *4969.66 +/- 2	3R3	4	0	3,899,501:65:1	
3096	97	95	11:06:20.333		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *4970.12 +/- 2	3R3	4	0	3,899,501:68:0	
3097	97	95	11:06:27.666		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *4971.84 +/- 2	3R3	4	0	3,899,501:79:0	
3098	97	95	11:13:39.000	165GV4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	3R3	4	0	3,899,508:89:0	
3099	97	95	11:13:39.666	165GV4B	7SCAN	NORM,62.587,23.4	Check S/P Position	3R3	4	0	3,899,508:90:0	
3100	97	95	11:14:39.000	488BA6C	6TMSED	NORM,CL2	Sci, Eng, and D/L Chan	3R3	4	0	3,899,509:88:0	
3101	97	95	11:17:33.666	117GV	**CSMOS**	GS	***** GROUP START CSMOS	3R3	4	0	3,899,512:77:0	
3102	97	95	11:17:43.000	117GV105A106A4A	7STRP	0.004,0.0,0,0,0,	Slew =,0.32	3R3	4	0	3,899,513:00:0	
3103	97	95	11:17:43.000	176GV6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	3R3	4	0	3,899,513:00:0	
3104	97	95	11:18:00.333	117GV11A	**CSMOS**	GE	***** GROUP END CSMOS	3R3	4	0	3,899,513:26:0	
3105	97	95	11:18:16.333	176GV6B	6TMREC	**NRC**	NO RECORD Record Mode Change	3R3	4	0	3,899,513:50:0	
3106	97	95	11:18:25.000		DMS:	: *RUNUP	R7, TRACK *3, FWD, TIC 4971.90 +/- 2	3R3	4	0	3,899,513:63:0	
3107	97	95	11:18:26.400		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC *4972.02 +/- 2	3R3	4	0	3,899,513:65:1	
3108	97	95	11:18:28.333		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *4972.47 +/- 2	3R3	4	0	3,899,513:68:0	
3109	97	95	11:18:35.666		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *4974.19 +/- 2	3R3	4	0	3,899,513:79:0	
3110	97	95	11:24:27.666	488BA6D	6TMSED	NORM,CL3	Sci, Eng, and D/L Chan	3R3	4	0	3,899,519:61:0	
3111	97	95	11:54:05.666	165GA4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	3R3	4	0	3,899,548:89:0	
3112	97	95	11:54:06.333	165GA4B	7SCAN	NORM,79.582,25.1	Check S/P Position	3R3	4	0	3,899,548:90:0	
3113	97	95	11:58:00.333	117GA	**CSMOS**	GS	***** GROUP START CSMOS	3R3	4	0	3,899,552:77:0	
3114	97	95	11:58:09.666	176GA6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	3R3	4	0	3,899,553:00:0	
3115	97	95	11:58:09.666	117GA105A106A4A	7STRP	0.004,0.0,0,0,0,	Slew =,0.32	3R3	4	0	3,899,553:00:0	
3116	97	95	11:58:27.000	117GA11A	**CSMOS**	GE	***** GROUP END CSMOS	3R3	4	0	3,899,553:26:0	
3117	97	95	11:58:43.000	176GA6B	6TMREC	**NRC**	NO RECORD Record Mode Change	3R3	4	0	3,899,553:50:0	
3118	97	95	11:58:51.666		DMS:	: *RUNUP	R7, TRACK *3, FWD, TIC 4974.25 +/- 2	3R3	4	0	3,899,553:63:0	
3119	97	95	11:58:53.066		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC *4974.37 +/- 2	3R3	4	0	3,899,553:65:1	
3120	97	95	11:58:55.000		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *4974.82 +/- 2	3R3	4	0	3,899,553:68:0	
3121	97	95	11:59:02.333		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *4976.54 +/- 2	3R3	4	0	3,899,553:79:0	
3122	97	95	12:00:00.333	488BA6E	6TMSED	NORM,DL3	Sci, Eng, and D/L Chan	3R3	4	0	3,899,554:75:0	
3123	97	95	12:30:38.333	488BB6A	6TMSED	FILL,DL3	Sci, Eng, and D/L Chan	3R3	4	0	3,899,585:11:0	
3124	97	95	13:02:35.666	488BB6B	6TMSED	FILL,DL4	Sci, Eng, and D/L Chan	3R3	4	0	3,899,616:66:0	
3125	97	95	13:06:45.000	488BB6C	6TMSED	NORM,DL4	Sci, Eng, and D/L Chan	3R3	4	0	3,899,620:76:0	
3126	**97**	**95**	**14:09:40.332**	**G7NNNIMSLD15-**		**-----START------**		**3R3**	**4**	**0**	**: :**	
3127	**97**	**95**	**14:10:41.000**	**20EP6A**	**6CKSUM**	**NIMS**	**NIMS,1000,14BC**	**3R3**	**4**	**0**	**3,899,684:06:0**	
3128	**97**	**95**	**14:11:41.666**	**20EP5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**3R3**	**4**	**0**	**3,899,685:06:0**	
3129	**97**	**95**	**14:12:42.333**	**20EP5B**	**37MRL**		**Memory Realocate (software operates from R**	**3R3**	**4**	**0**	**3,899,686:06:0**	
3130	**97**	**95**	**14:13:43.000**	**20EP6B**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**3R3**	**4**	**0**	**3,899,687:06:0**	
3131	**97**	**95**	**14:14:43.666**	**20EP6C**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**3R3**	**4**	**0**	**3,899,688:06:0**	
3132	**97**	**95**	**14:15:44.333**	**20EP5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**3,899,689:06:0**	
3133	**97**	**95**	**14:16:45.000**	**20EP5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**3,899,690:06:0**	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
3134	**97**	**95**	**14:17:45.666**	**20EP4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**3,899,691:06:0**
3135	**97**	**95**	**14:18:46.333**	**20EP4B**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**3,899,692:06:0**
3136	**97**	**95**	**14:19:46.999**	**G7NNNIMSLD15-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**
3137	**97**	**95**	**14:20:34.332**	**G7GNGLOBAL02-**		**-----START------**		**2R3**	**4**	**0**	**: :**
3138	97	95	14:20:42.333	165FC4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,899,693:89:0
3139	97	95	14:20:43.000	165FC4B	7SCAN	NORM,62.878,23.6	Check S/P Position	2R3	4	0	3,899,693:90:0
3140	**97**	**95**	**14:22:40.333**	**125FC4A**	**37IST**	**0,2,0,OFF,0,1,2**	**Gain State 3**	**3R3**	**4**	**0**	**3,899,695:84:0**
3141	97	95	14:22:40.333	125FC11A	NIMSINIT	GE	##### GROUP END INIT	3R3	4	0	3,899,695:84:0
3142	97	95	14:22:40.333	125FC	NIMSINIT	GS	##### GROUP START INIT	3R3	4	0	3,899,695:84:0
3143	97	95	14:23:41.000	127FC	NIMSTAB	GS	%%%%% GROUP START TAB	3R3	4	0	3,899,696:84:0
3144	**97**	**95**	**14:23:41.666**	**127FC4A**	**37ETB**	**04,C4,35,FF,FF**	**Loads wavelength edit table**	**3R3**	**4**	**0**	**3,899,696:85:0**
3145	97	95	14:23:49.666	127FC11A	NIMSTAB	GE	%%%%% GROUP END TAB	3R3	4	0	3,899,697:06:0
3146	97	95	14:24:32.333	175FC422A6A	6DMSC	R28,3	DMS Control	3R3	4	0	3,899,697:70:0
3147	97	95	14:24:37.000	117FC	**CSMOS**	GS	***** GROUP START CSMOS	3R3	4	0	3,899,697:77:0
3148	97	95	14:24:39.000		DMS:	: *RUNUP	R28, TRACK *3, FWD, TIC 4976.60 +/- 2	3R3	4	0	3,899,697:80:0
3149	97	95	14:24:43.000		DMS:	**: *RECORD**	R28, TRACK 3, FWD, TIC *4978.10 +/- 2	3R3	4	0	3,899,697:86:0
3150	97	95	14:24:43.000		DMS:	: *AT_SPD	R28, TRACK 3, FWD, TIC 4978.10 +/- 2	3R3	4	0	3,899,697:86:0
3151	97	95	14:24:43.000	175FC176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	3R3	4	0	3,899,697:86:0
3152	**97**	**95**	**14:24:46.318**	**G7GNGLOBAL02-**	**NIMPBK**	**301FC**	**GANYMEDE GLOBAL SURFACE MAP**	**3R3**	**4**	**0**	**: :**
3153	97	95	14:24:46.333	117FC105A106A4A	**7STRP**	**0.00628,0.0,0,0,**	**Slew =,0.03**	3R3	4	0	3,899,698:00:0
3154	97	95	14:28:17.000	117FC105A106A4B	**7STRP**	**-0.0063,0.009,0,**	**Slew =,2.01**	3R3	4	0	3,899,701:43:0
3155	97	95	14:28:25.000	117FC105A106A4C	**7STRP**	**0.00628,0.0,0,0,**	**Slew =,0.03**	3R3	4	0	3,899,701:55:0
3156	**97**	**95**	**14:31:55.651**	**G7GNGLOBAL02-**	**DESELC**	**300FC**	**GANYMEDE GLOBAL SURFACE MAP**	**3R3**	**4**	**0**	**: :**
3157	97	95	14:31:55.666	117FC11A	**CSMOS**	GE	***** GROUP END CSMOS	3R3	4	0	3,899,705:07:0
3158	97	95	14:31:57.000	175FC422A6B	6DMSC	RDY,0	DMS Control Tape stop	3R3	4	0	3,899,705:09:0
3159	97	95	14:31:57.000		DMS:	**: *RUNDOWN**	R28, TRACK 3, FWD, TIC *5359.55 +/- 2	3R3	4	0	3,899,705:09:0
3160	**97**	**95**	**14:32:55.666**	**G7GNGLOBAL02-**		**-----STOP-------**		**3R3**	**4**	**0**	**: :**
3161	97	95	15:48:59.666	488BB6D	6TMSED	NORM,DL5	Sci, Eng, and D/L Chan	3R3	4	0	3,899,781:27:0
3162	97	95	15:59:39.666	488BB6E	6TMSED	NORM,DL6	Sci, Eng, and D/L Chan	3R3	4	0	3,899,791:77:0
3163	**97**	**95**	**16:35:16.266**	**G7JNFEA13001-**		**-----START------**		**3R3**	**4**	**0**	**: :**
3164	97	95	16:36:11.666	165EZ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	3R3	4	0	3,899,827:89:0
3165	97	95	16:36:12.333	165EZ4B	7SCAN	NORM,79.653,25.9	Check S/P Position	3R3	4	0	3,899,827:90:0
3166	97	95	16:38:09.666	125EZ11A	NIMSINIT	GE	##### GROUP END INIT	3R3	4	0	3,899,829:84:0
3167	97	95	16:38:09.666	125EZ	NIMSINIT	GS	##### GROUP START INIT	3R3	4	0	3,899,829:84:0
3168	**97**	**95**	**16:38:09.666**	**125EZ4A**	**37IST**	**0,2,0,OFF,0,1,0**	**Gain State 2**	**2R3**	**4**	**0**	**3,899,829:84:0**
3169	**97**	**95**	**16:39:10.333**	**127EZ4A**	**37IOP**	**5,1**	**Short Map, Grating Start Position =01**	**2R5**	**4**	**1**	**3,899,830:84:0**
3170	97	95	16:39:10.333	127EZ	NIMSTAB	GS	%%%%% GROUP START TAB	2R5	4	1	3,899,830:84:0
3171	**97**	**95**	**16:39:11.000**	**127EZ4B**	**37ETB**	**,00,05,FF,F8,05,**	**Loads wavelength edit table**	**2R5**	**4**	**1**	**3,899,830:85:0**
3172	97	95	16:39:19.000	127EZ11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R5	4	1	3,899,831:06:0
3173	97	95	16:40:04.333	175EZ422A6A	6DMSC	R7,3	DMS Control	2R5	4	1	3,899,831:74:0
3174	97	95	16:40:06.333	117EZ	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,899,831:77:0
3175	97	95	16:40:11.000		DMS:	: *RUNUP	R7, TRACK *3, FWD, TIC 5359.85 +/- 2	2R5	4	1	3,899,831:84:0
3176	97	95	16:40:12.333	175EZ176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	3,899,831:86:0
3177	97	95	16:40:12.400		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC 5359.97 +/- 2	2R5	4	1	3,899,831:86:1
3178	97	95	16:40:12.400		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *5359.97 +/- 2	2R5	4	1	3,899,831:86:1
3179	**97**	**95**	**16:40:15.646**	**G7JNFEA13001-**	**NIMPBK**	**301FD**	**JUPITER FEATURE TRACK 130 DEG PH**	**2R5**	**4**	**1**	**: :**
3180	97	95	16:40:15.666	117EZ105A106A4A	**7STRP**	**0.0108,0.0,0,0,0**	**Slew =,0.11**	2R5	4	1	3,899,832:00:0
3181	**97**	**95**	**16:41:54.980**	**G7JNFEA13001-**	**DESELC**	**300FD**	**JUPITER FEATURE TRACK 130 DEG PH**	**2R5**	**4**	**1**	**: :**
3182	97	95	16:41:55.666	117EZ11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,899,833:59:0
3183	97	95	16:41:57.000	175EZ422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,899,833:61:0
3184	97	95	16:41:57.000	175EZ6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,899,833:61:0
3185	97	95	16:41:57.000		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *5384.48 +/- 2	2R5	4	1	3,899,833:61:0
3186	**97**	**95**	**16:42:20.933**	**G7JNFEA13001-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**
3187	97	95	16:43:16.333	165HJ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,899,834:89:0
3188	97	95	16:43:17.000	165HJ4B	7SCAN	NORM,78.57,25.38	Check S/P Position	2R5	4	1	3,899,834:90:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
3189	97	95	16:44:09.000	117HJ	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,899,835:77:0	
3190	97	95	16:44:18.333	117HJ105A106A4A	7STRP	-0.019202,0.0,0,	Slew =,0.32	2R5	4	1	3,899,836:00:0	
3191	97	95	16:44:18.333	176HJ6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R5	4	1	3,899,836:00:0	
3192	97	95	16:45:22.333	117HJ105A106A4B	7STRP	0.019352,-0.0015	Slew =12.01	2R5	4	1	3,899,837:05:0	
3193	97	95	16:45:27.666	117HJ105A106A4C	7STRP	-0.019202,0.0,0,	Slew =,0.32	2R5	4	1	3,899,837:13:0	
3194	97	95	16:46:31.666	117HJ105A106A4D	7STRP	0.019352,-0.0015	Slew =12.01	2R5	4	1	3,899,838:18:0	
3195	97	95	16:46:37.000	117HJ105A106A4E	7STRP	-0.019202,0.0,0,	Slew =,0.32	2R5	4	1	3,899,838:26:0	
3196	97	95	16:47:41.000	117HJ105A106A4F	7STRP	0.019352,-0.0015	Slew =12.01	2R5	4	1	3,899,839:31:0	
3197	97	95	16:47:46.333	117HJ105A106A4G	7STRP	-0.019202,0.0,0,	Slew =,0.32	2R5	4	1	3,899,839:39:0	
3198	97	95	16:48:50.333	117HJ105A106A4H	7STRP	0.019352,-0.0015	Slew =12.01	2R5	4	1	3,899,840:44:0	
3199	97	95	16:48:55.666	117HJ105A106A4I	7STRP	-0.019202,0.0,0,	Slew =,0.32	2R5	4	1	3,899,840:52:0	
3200	97	95	16:49:59.666	117HJ105A106A4J	7STRP	0.019352,-0.0015	Slew =12.01	2R5	4	1	3,899,841:57:0	
3201	97	95	16:50:05.000	117HJ105A106A4K	7STRP	-0.019202,0.0,0,	Slew =,0.32	2R5	4	1	3,899,841:65:0	
3202	97	95	16:51:09.000	117HJ105A106A4L	7STRP	0.019352,-0.0015	Slew =12.01	2R5	4	1	3,899,842:70:0	
3203	97	95	16:51:14.333	117HJ105A106A4M	7STRP	-0.019202,0.0,0,	Slew =,0.32	2R5	4	1	3,899,842:78:0	
3204	97	95	16:52:18.333	117HJ105A106A4N	7STRP	0.019352,-0.0015	Slew =12.01	2R5	4	1	3,899,843:83:0	
3205	97	95	16:52:23.666	117HJ105A106A4O	7STRP	-0.019202,0.0,0,	Slew =,0.32	2R5	4	1	3,899,844:00:0	
3206	97	95	16:53:27.666	117HJ105A106A4P	7STRP	0.019352,-0.0015	Slew =12.01	2R5	4	1	3,899,845:05:0	
3207	97	95	16:53:33.000	117HJ105A106A4Q	7STRP	-0.019202,0.0,0,	Slew =,0.32	2R5	4	1	3,899,845:13:0	
3208	97	95	16:54:37.000	117HJ105A106A4R	7STRP	0.019352,-0.0015	Slew =12.01	2R5	4	1	3,899,846:18:0	
3209	97	95	16:54:42.333	117HJ105A106A4S	7STRP	-0.019202,0.0,0,	Slew =,0.32	2R5	4	1	3,899,846:26:0	
3210	97	95	16:55:46.333	117HJ105A106A4T	7STRP	0.019352,-0.0015	Slew =12.01	2R5	4	1	3,899,847:31:0	
3211	97	95	16:55:51.666	117HJ105A106A4U	7STRP	-0.019202,0.0,0,	Slew =,0.32	2R5	4	1	3,899,847:39:0	
3212	97	95	16:56:05.000		DMS:	: *RUNUP	R7, TRACK *3, FWD, TIC 5384.54 +/- 2	2R5	4	1	3,899,847:59:0	
3213	97	95	16:56:06.400		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC *5384.66 +/- 2	2R5	4	1	3,899,847:61:1	
3214	97	95	16:56:21.000		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *5388.08 +/- 2	2R5	4	1	3,899,847:83:0	
3215	97	95	16:56:41.000		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *5392.77 +/- 2	2R5	4	1	3,899,848:22:0	
3216	97	95	16:56:55.666	117HJ105A106A4V	7STRP	0.019352,-0.0015	Slew =12.01	2R5	4	1	3,899,848:44:0	
3217	97	95	16:57:01.000	117HJ105A106A4W	7STRP	-0.019202,0.0,0,	Slew =,0.32	2R5	4	1	3,899,848:52:0	
3218	97	95	16:58:05.000	117HJ105A106A4X	7STRP	0.019352,-0.0015	Slew =12.01	2R5	4	1	3,899,849:57:0	
3219	97	95	16:58:10.333	117HJ105A106A4Y	7STRP	-0.019202,0.0,0,	Slew =,0.32	2R5	4	1	3,899,849:65:0	
3220	97	95	16:59:14.333	117HJ105A106A4Z	7STRP	0.019352,-0.0015	Slew =12.01	2R5	4	1	3,899,850:70:0	
3221	97	95	16:59:19.666	117HJ105A106A4AA	7STRP	-0.019202,0.0,0,	Slew =,0.32	2R5	4	1	3,899,850:78:0	
3222	97	95	17:00:00.333	488BC6A	6TMSED	NORM,GL6	Sci, Eng, and D/L Chan	2R5	4	1	3,899,851:48:0	
3223	97	95	17:00:01.000	282NQ432A431A6A	6RCDSL	DDSNCG,PLSDSL,EP	Record Deselect (DDS o	2R5	4	1	3,899,851:49:0	
3224	97	95	17:00:01.666	282NQ432A6A	6RTSL1		R/T Select of DDS and	2R5	4	1	3,899,851:50:0	
3225	97	95	17:00:23.666	117HJ105A106A4AB	7STRP	0.019352,-0.0015	Slew =12.01	2R5	4	1	3,899,851:83:0	
3226	97	95	17:00:29.000	117HJ105A106A4AC	7STRP	-0.019202,0.0,0,	Slew =,0.32	2R5	4	1	3,899,852:00:0	
3227	97	95	17:01:33.000	117HJ105A106A4AD	7STRP	0.019352,-0.0015	Slew =12.01	2R5	4	1	3,899,853:05:0	
3228	**97**	**95**	**17:01:33.600**	**G7JNFEA13002-**		**-----START------**		**2R5**	**4**	**1**	**: :**	
3229	97	95	17:01:38.333	117HJ105A106A4AE	**7STRP**	**-0.019202,0.0,0,**	**Slew =,0.32**	2R5	4	1	3,899,853:13:0	
3230	97	95	17:02:42.333	176HJ6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,899,854:18:0	
3231	97	95	17:02:42.333	117HJ11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,899,854:18:0	
3232	97	95	17:02:51.000		DMS:	: *RUNUP	R7, TRACK *3, FWD, TIC 5392.83 +/- 2	2R5	4	1	3,899,854:31:0	
3233	97	95	17:02:52.400		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC *5392.95 +/- 2	2R5	4	1	3,899,854:33:1	
3234	97	95	17:02:54.333		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *5393.40 +/- 2	2R5	4	1	3,899,854:36:0	
3235	97	95	17:03:07.666		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *5396.53 +/- 2	2R5	4	1	3,899,854:56:0	
3236	97	95	17:04:30.333	165FA4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,899,855:89:0	
3237	97	95	17:04:31.000	165FA4B	7SCAN	NORM,80.177999,2	Check S/P Position	2R5	4	1	3,899,855:90:0	
3238	97	95	17:05:21.000	175FA422A6A	6DMSC	R7,3	DMS Control	2R5	4	1	3,899,856:74:0	
3239	97	95	17:05:23.000	117FA	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,899,856:77:0	
3240	97	95	17:05:27.666		DMS:	: *RUNUP	R7, TRACK *3, FWD, TIC 5396.59 +/- 2	2R5	4	1	3,899,856:84:0	
3241	97	95	17:05:29.000	175FA176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	3,899,856:86:0	
3242	97	95	17:05:29.066		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC 5396.71 +/- 2	2R5	4	1	3,899,856:86:1	
3243	97	95	17:05:29.066		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *5396.71 +/- 2	2R5	4	1	3,899,856:86:1	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
3244	**97**	**95**	**17:05:32.312**	**G7JNFEA13002-**	**NIMPBK**	**301FE**	**JUPITER FEATURE TRACK 130 DEG PH**	**2R5**	**4**	**1**	**: :**	
3245	97	95	17:05:32.333	117FA105A106A4A	**7STRP**	**0.0108,0.0,0,0,0**	**Slew =,0.11**	2R5	4	1	3,899,857:00:0	
3246	97	95	17:07:12.333	117FA11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,899,858:59:0	
3247	97	95	17:07:13.666	175FA422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,899,858:61:0	
3248	97	95	17:07:13.666	175FA6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,899,858:61:0	
3249	97	95	17:07:13.666		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *5421.22 +/- 2	2R5	4	1	3,899,858:61:0	
3250	**97**	**95**	**17:07:37.600**	**G7JNFEA13002-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**	
3251	**97**	**95**	**17:10:30.266**	**33A4A**	**37MPT**	**1,193,193**	**Modify Parameter Table (affects scanning m**	**2R5**	**4**	**1**	**3,899,861:83:0**	
3252	97	95	17:11:51.600	488BC6B	6TMSED	FILL,GL6	Sci, Eng, and D/L Chan	2R5	4	1	3,899,863:23:0	
3253	97	95	17:20:40.933	165GP4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,899,871:89:0	
3254	97	95	17:20:41.600	165GP4B	7SCAN	NORM,90.502999,2	Check S/P Position	2R5	4	1	3,899,871:90:0	
3255	97	95	17:24:35.600	117GP	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,899,875:77:0	
3256	97	95	17:24:44.933	117GP105A106A4A	7STRP	0.004,0.0,0,0,0,	Slew =,0.32	2R5	4	1	3,899,876:00:0	
3257	97	95	17:24:44.933	176GP6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R5	4	1	3,899,876:00:0	
3258	97	95	17:25:02.266	117GP11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,899,876:26:0	
3259	97	95	17:25:18.266	176GP6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,899,876:50:0	
3260	97	95	17:25:26.933		DMS:	: *RUNUP	R7, TRACK *3, FWD, TIC 5421.28 +/- 2	2R5	4	1	3,899,876:63:0	
3261	97	95	17:25:28.333		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC *5421.40 +/- 2	2R5	4	1	3,899,876:65:1	
3262	97	95	17:25:30.266		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *5421.86 +/- 2	2R5	4	1	3,899,876:68:0	
3263	97	95	17:25:37.600		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *5423.58 +/- 2	2R5	4	1	3,899,876:79:0	
3264	**97**	**95**	**17:25:49.600**	**G7JNPFB13001-**		**-----START------**		**2R5**	**4**	**1**	**: :**	
3265	97	95	17:26:44.933	165FB4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,899,877:89:0	
3266	97	95	17:26:45.600	165FB4B	7SCAN	NORM,79.844,27.2	Check S/P Position	2R5	4	1	3,899,877:90:0	
3267	97	95	17:30:37.600	175FB422A6A	6DMSC	R7,3	DMS Control	2R5	4	1	3,899,881:74:0	
3268	97	95	17:30:39.600	117FB	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,899,881:77:0	
3269	97	95	17:30:44.266		DMS:	: *RUNUP	R7, TRACK *3, FWD, TIC 5423.64 +/- 2	2R5	4	1	3,899,881:84:0	
3270	97	95	17:30:45.600	175FB176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	3,899,881:86:0	
3271	97	95	17:30:45.666		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *5423.76 +/- 2	2R5	4	1	3,899,881:86:1	
3272	97	95	17:30:45.666		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC 5423.76 +/- 2	2R5	4	1	3,899,881:86:1	
3273	97	95	17:30:48.933	117FB105A106A4A	**7STRP**	**0.0108,0.0,0,0,0**	**Slew =,0.11**	2R5	4	1	3,899,882:00:0	
3274	97	95	17:31:23.600	488BC6C	6TMSED	FILL,GL7	Sci, Eng, and D/L Chan	2R5	4	1	3,899,882:52:0	
3275	**97**	**95**	**17:32:28.311**	**G7JNPFB13001-**	**DESELC**	**300FE**	**JUPITER FEATURE TRACK 130 DEG PH**	**2R5**	**4**	**1**	**: :**	
3276	97	95	17:32:28.933	117FB11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,899,883:59:0	
3277	97	95	17:32:30.266		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *5448.27 +/- 2	2R5	4	1	3,899,883:61:0	
3278	97	95	17:32:30.266	175FB6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,899,883:61:0	
3279	97	95	17:32:30.266	175FB422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,899,883:61:0	
3280	**97**	**95**	**17:32:54.266**	**G7JNPFB13001-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**	
3281	97	95	17:33:02.266	488BC6D	6TMSED	NORM,GL7	Sci, Eng, and D/L Chan	2R5	4	1	3,899,884:18:0	
3282	**97**	**95**	**17:35:46.933**	**33B4A**	**37MPT**	**1,129,129**	**Modify Parameter Table (affects scanning m**	**2R5**	**4**	**1**	**3,899,886:83:0**	
3283	97	95	18:48:38.933	165FD4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,899,958:89:0	
3284	97	95	18:48:39.600	165FD4B	7SCAN	NORM,79.674,28.4	Check S/P Position	2R5	4	1	3,899,958:90:0	
3285	**97**	**95**	**18:48:44.266**	**G7JNTHRMNS01-**		**-----START------**		**2R5**	**4**	**1**	**: :**	
3286	97	95	18:50:36.933	125FD11A	NIMSINIT	GE	##### GROUP END INIT	2R5	4	1	3,899,960:84:0	
3287	97	95	18:50:36.933	125FD	NIMSINIT	GS	##### GROUP START INIT	2R5	4	1	3,899,960:84:0	
3288	**97**	**95**	**18:50:36.933**	**125FD4A**	**37IST**	**0,2,0,OFF,0,1,1**	**Gain State 4**	**4R5**	**4**	**1**	**3,899,960:84:0**	
3289	97	95	18:51:37.600	127FD	NIMSTAB	GS	%%%%% GROUP START TAB	4R5	4	1	3,899,961:84:0	
3290	**97**	**95**	**18:51:37.600**	**127FD4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**4R3**	**4**	**0**	**3,899,961:84:0**	
3291	**97**	**95**	**18:51:38.266**	**127FD4B**	**37ETB**	**,CD,02,03,FF,1A,**	**Loads wavelength edit table**	**4R3**	**4**	**0**	**3,899,961:85:0**	
3292	97	95	18:51:46.266	127FD11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	3,899,962:06:0	
3293	97	95	18:52:31.600	175FD422A6A	6DMSC	R7,3	DMS Control	4R3	4	0	3,899,962:74:0	
3294	97	95	18:52:33.600	117FD	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	3,899,962:77:0	
3295	97	95	18:52:38.266		DMS:	: *RUNUP	R7, TRACK *3, FWD, TIC 5448.33 +/- 2	4R3	4	0	3,899,962:84:0	
3296	97	95	18:52:39.600	175FD176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	4R3	4	0	3,899,962:86:0	
3297	97	95	18:52:39.666		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *5448.45 +/- 2	4R3	4	0	3,899,962:86:1	
3298	97	95	18:52:39.666		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC 5448.45 +/- 2	4R3	4	0	3,899,962:86:1	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
3299	97	95	18:52:42.933	117FD105A106A4A	**7STRP**	**0.00285,0.0,0,0,**	**Slew =,0.03**	4R3	4	0	3,899,963:00:0	
3300	**97**	**95**	**18:52:42.975**	**G7JNTHRMNS01-**	**NIMPBK**	**301DJ**	**JUPITER THERMAL NORTH SOUTH STRI**	**4R3**	**4**	**0**	**: :**	
3301	97	95	18:54:19.600	117FD105A106A4B	**7STRP**	**-0.0031,0.008,0,**	**Slew =12.01**	4R3	4	0	3,899,964:54:0	
3302	97	95	18:54:31.600	117FD105A106A4C	**7STRP**	**0.00285,0.0,0,0,**	**Slew =,0.03**	4R3	4	0	3,899,964:72:0	
3303	97	95	18:56:08.266	117FD105A106A4D	**7STRP**	**-0.0031,0.008,0,**	**Slew =12.01**	4R3	4	0	3,899,966:35:0	
3304	97	95	18:56:20.266	117FD105A106A4E	**7STRP**	**0.00285,0.0,0,0,**	**Slew =,0.03**	4R3	4	0	3,899,966:53:0	
3305	97	95	18:57:56.933	117FD105A106A4F	**7STRP**	**-0.0031,0.008,0,**	**Slew =12.01**	4R3	4	0	3,899,968:16:0	
3306	97	95	18:58:08.933	117FD105A106A4G	**7STRP**	**0.00285,0.0,0,0,**	**Slew =,0.03**	4R3	4	0	3,899,968:34:0	
3307	**97**	**95**	**18:58:50.308**	**G7JNTHRMNS01-**	**DESELC**	**300DJ**	**JUPITER THERMAL NORTH SOUTH STRI**	**4R3**	**4**	**0**	**: :**	
3308	**97**	**95**	**18:59:00.308**	**G7JNTHRMNS01-**	**NIMPBK**	**301FJ**	**JUPITER THERMAL NORTH SOUTH STRI**	**4R3**	**4**	**0**	**: :**	
3309	97	95	18:59:45.600	117FD105A106A4H	**7STRP**	**-0.0031,0.008,0,**	**Slew =12.01**	4R3	4	0	3,899,969:88:0	
3310	97	95	18:59:57.600	117FD105A106A4I	**7STRP**	**0.00285,0.0,0,0,**	**Slew =,0.03**	4R3	4	0	3,899,970:15:0	
3311	97	95	19:01:34.266	117FD105A106A4J	**7STRP**	**-0.0031,0.008,0,**	**Slew =12.01**	4R3	4	0	3,899,971:69:0	
3312	97	95	19:01:46.266	117FD105A106A4K	**7STRP**	**0.00285,0.0,0,0,**	**Slew =,0.03**	4R3	4	0	3,899,971:87:0	
3313	97	95	19:03:22.933	117FD105A106A4L	**7STRP**	**-0.0031,0.008,0,**	**Slew =12.01**	4R3	4	0	3,899,973:50:0	
3314	97	95	19:03:34.933	117FD105A106A4M	**7STRP**	**0.00285,0.0,0,0,**	**Slew =,0.03**	4R3	4	0	3,899,973:68:0	
3315	**97**	**95**	**19:03:50.975**	**G7JNTHRMNS01-**	**NIMPBK**	**301DK**	**JUPITER THERMAL NORTH SOUTH STRI**	**4R3**	**4**	**0**	**: :**	
3316	**97**	**95**	**19:04:00.308**	**G7JNTHRMNS01-**	**DESELC**	**300FJ**	**JUPITER THERMAL NORTH SOUTH STRI**	**4R3**	**4**	**0**	**: :**	
3317	97	95	19:05:11.600	117FD105A106A4N	**7STRP**	**-0.0031,0.008,0,**	**Slew =12.01**	4R3	4	0	3,899,975:31:0	
3318	97	95	19:05:23.600	117FD105A106A4O	**7STRP**	**0.00285,0.0,0,0,**	**Slew =,0.03**	4R3	4	0	3,899,975:49:0	
3319	97	95	19:07:00.266	117FD105A106A4P	**7STRP**	**-0.0031,0.008,0,**	**Slew =12.01**	4R3	4	0	3,899,977:12:0	
3320	97	95	19:07:12.266	117FD105A106A4Q	**7STRP**	**0.00285,0.0,0,0,**	**Slew =,0.03**	4R3	4	0	3,899,977:30:0	
3321	97	95	19:08:48.933	117FD105A106A4R	**7STRP**	**-0.0031,0.008,0,**	**Slew =12.01**	4R3	4	0	3,899,978:84:0	
3322	97	95	19:09:00.933	117FD105A106A4S	**7STRP**	**0.00285,0.0,0,0,**	**Slew =,0.03**	4R3	4	0	3,899,979:11:0	
3323	97	95	19:10:37.600	117FD105A106A4T	**7STRP**	**-0.0031,0.008,0,**	**Slew =12.01**	4R3	4	0	3,899,980:65:0	
3324	97	95	19:10:49.600	117FD105A106A4U	**7STRP**	**0.00285,0.0,0,0,**	**Slew =,0.03**	4R3	4	0	3,899,980:83:0	
3325	97	95	19:12:26.266	117FD105A106A4V	**7STRP**	**-0.0031,0.008,0,**	**Slew =12.01**	4R3	4	0	3,899,982:46:0	
3326	97	95	19:12:38.266	117FD105A106A4W	**7STRP**	**0.00285,0.0,0,0,**	**Slew =,0.03**	4R3	4	0	3,899,982:64:0	
3327	97	95	19:14:14.933	117FD105A106A4X	**7STRP**	**-0.0031,0.008,0,**	**Slew =12.01**	4R3	4	0	3,899,984:27:0	
3328	97	95	19:14:26.933	117FD105A106A4Y	**7STRP**	**0.00285,0.0,0,0,**	**Slew =,0.03**	4R3	4	0	3,899,984:45:0	
3329	97	95	19:16:03.600	117FD105A106A4Z	**7STRP**	**-0.0031,0.008,0,**	**Slew =12.01**	4R3	4	0	3,899,986:08:0	
3330	97	95	19:16:15.600	117FD105A106A4AA	**7STRP**	**0.00285,0.0,0,0,**	**Slew =,0.03**	4R3	4	0	3,899,986:26:0	
3331	**97**	**95**	**19:16:54.307**	**G7JNTHRMNS01-**	**DESELC**	**300DK**	**JUPITER THERMAL NORTH SOUTH STRI**	**4R3**	**4**	**0**	**: :**	
3332	97	95	19:17:52.266	117FD11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	3,899,987:80:0	
3333	97	95	19:18:03.600	488BC6E	6TMSED	NORM,GL6	Sci, Eng, and D/L Chan	4R3	4	0	3,899,988:06:0	
3334	97	95	19:18:54.266	175FD422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,899,988:82:0	
3335	97	95	19:18:54.266	175FD6A	6TMREC	**NRC**	NO RECORD Record Mode Change	4R3	4	0	3,899,988:82:0	
3336	97	95	19:18:54.266		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *5817.50 +/- 2	4R3	4	0	3,899,988:82:0	
3337	**97**	**95**	**19:20:04.932**	**G7JNTHRMNS01-**		**-----STOP-------**		**4R3**	**4**	**0**	**: :**	
3338	**97**	**95**	**19:26:58.400**	**G7JNAWGWIN03**		**-----STOP-------**		**4R3**	**4**	**0**	**: :**	
3339	**97**	**95**	**19:28:48.400**	**G7JNAWGWIN04**		**-----START------**		**4R3**	**4**	**0**	**: :**	
3340	97	95	22:19:58.266	165HK4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,900,167:89:0	
3341	97	95	22:19:58.933	165HK4B	7SCAN	NORM,86.226,25.7	Check S/P Position	4R3	4	0	3,900,167:90:0	
3342	97	95	22:23:52.933	117HK	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	3,900,171:77:0	
3343	97	95	22:24:02.266	117HK105A106A4A	7STRP	-0.012601,0.0007	Slew =,0.35	4R3	4	0	3,900,172:00:0	
3344	97	95	22:24:02.266	176HK6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	4R3	4	0	3,900,172:00:0	
3345	97	95	22:24:41.600	117HK105A106A4B	7STRP	0.012901,-0.0019	Slew =12.01	4R3	4	0	3,900,172:59:0	
3346	97	95	22:24:46.933	117HK105A106A4C	7STRP	-0.012601,0.0007	Slew =,0.35	4R3	4	0	3,900,172:67:0	
3347	97	95	22:25:26.266	117HK105A106A4D	7STRP	0.012901,-0.0019	Slew =12.01	4R3	4	0	3,900,173:35:0	
3348	97	95	22:25:31.600	117HK105A106A4E	7STRP	-0.012601,0.0007	Slew =,0.35	4R3	4	0	3,900,173:43:0	
3349	97	95	22:26:10.933	117HK105A106A4F	7STRP	0.012901,-0.0019	Slew =12.01	4R3	4	0	3,900,174:11:0	
3350	97	95	22:26:16.266	117HK105A106A4G	7STRP	-0.012601,0.0007	Slew =,0.35	4R3	4	0	3,900,174:19:0	
3351	97	95	22:26:55.600	117HK105A106A4H	7STRP	0.012901,-0.0019	Slew =12.01	4R3	4	0	3,900,174:78:0	
3352	97	95	22:27:00.933	117HK105A106A4I	7STRP	-0.012601,0.0007	Slew =,0.35	4R3	4	0	3,900,174:86:0	
3353	97	95	22:27:40.266	117HK105A106A4J	7STRP	0.012901,-0.0019	Slew =12.01	4R3	4	0	3,900,175:54:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
3354	97	95	22:27:45.600	117HK105A106A4K	7STRP	-0.012601,0.0007	Slew =,0.35	4R3	4	0	3,900,175	62:0
3355	97	95	22:28:24.933	117HK105A106A4L	7STRP	0.012901,-0.0019	Slew =12.01	4R3	4	0	3,900,176	30:0
3356	97	95	22:28:30.266	117HK105A106A4M	7STRP	-0.012601,0.0007	Slew =,0.35	4R3	4	0	3,900,176	38:0
3357	97	95	22:29:09.600	117HK105A106A4N	7STRP	0.012901,-0.0019	Slew =12.01	4R3	4	0	3,900,177	06:0
3358	97	95	22:29:14.933	117HK105A106A4O	7STRP	-0.012601,0.0007	Slew =,0.35	4R3	4	0	3,900,177	14:0
3359	97	95	22:29:54.266	117HK105A106A4P	7STRP	0.012901,-0.0019	Slew =12.01	4R3	4	0	3,900,177	73:0
3360	97	95	22:29:59.600	117HK105A106A4Q	7STRP	-0.012601,0.0007	Slew =,0.35	4R3	4	0	3,900,177	81:0
3361	97	95	22:30:38.933	117HK105A106A4R	7STRP	0.012901,-0.0019	Slew =12.01	4R3	4	0	3,900,178	49:0
3362	97	95	22:30:44.266	117HK105A106A4S	7STRP	-0.012601,0.0007	Slew =,0.35	4R3	4	0	3,900,178	57:0
3363	97	95	22:31:23.600	117HK105A106A4T	7STRP	0.012901,-0.0019	Slew =12.01	4R3	4	0	3,900,179	25:0
3364	97	95	22:31:28.933	117HK105A106A4U	7STRP	-0.012601,0.0007	Slew =,0.35	4R3	4	0	3,900,179	33:0
3365	97	95	22:32:08.266	117HK105A106A4V	7STRP	0.012901,-0.0019	Slew =12.01	4R3	4	0	3,900,180	01:0
3366	97	95	22:32:13.600	117HK105A106A4W	7STRP	-0.012601,0.0007	Slew =,0.35	4R3	4	0	3,900,180	09:0
3367	97	95	22:32:52.933	117HK105A106A4X	7STRP	0.012901,-0.0019	Slew =12.01	4R3	4	0	3,900,180	68:0
3368	97	95	22:32:58.266	117HK105A106A4Y	7STRP	-0.012601,0.0007	Slew =,0.35	4R3	4	0	3,900,180	76:0
3369	97	95	22:33:37.600	117HK105A106A4Z	7STRP	0.012901,-0.0019	Slew =12.01	4R3	4	0	3,900,181	44:0
3370	97	95	22:33:42.933	117HK105A106A4AA	7STRP	-0.012601,0.0007	Slew =,0.35	4R3	4	0	3,900,181	52:0
3371	97	95	22:34:22.266	117HK105A106A4AB	7STRP	0.012901,-0.0019	Slew =12.01	4R3	4	0	3,900,182	20:0
3372	97	95	22:34:27.600	117HK105A106A4AC	7STRP	-0.012601,0.0007	Slew =,0.35	4R3	4	0	3,900,182	28:0
3373	97	95	22:35:06.933	117HK105A106A4AD	7STRP	0.012901,-0.0019	Slew =12.01	4R3	4	0	3,900,182	87:0
3374	97	95	22:35:12.266	117HK105A106A4AE	7STRP	-0.012601,0.0007	Slew =,0.35	4R3	4	0	3,900,183	04:0
3375	97	95	22:35:48.933		DMS:	: *RUNUP	R7, TRACK *3, FWD, TIC 5817.56 +/- 2	4R3	4	0	3,900,183	59:0
3376	97	95	22:35:50.333		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC *5817.68 +/- 2	4R3	4	0	3,900,183	61:1
3377	97	95	22:35:51.600	117HK105A106A4AF	7STRP	0.012901,-0.0019	Slew =12.01	4R3	4	0	3,900,183	63:0
3378	97	95	22:35:56.933	117HK105A106A4AG	7STRP	-0.012601,0.0007	Slew =,0.35	4R3	4	0	3,900,183	71:0
3379	97	95	22:36:04.933		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *5821.10 +/- 2	4R3	4	0	3,900,183	83:0
3380	97	95	22:36:24.933		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *5825.79 +/- 2	4R3	4	0	3,900,184	22:0
3381	97	95	22:36:36.266	117HK105A106A4AH	7STRP	0.012901,-0.0019	Slew =12.01	4R3	4	0	3,900,184	39:0
3382	97	95	22:36:41.600	117HK105A106A4AI	7STRP	-0.012601,0.0007	Slew =,0.35	4R3	4	0	3,900,184	47:0
3383	97	95	22:37:20.933	117HK105A106A4AJ	7STRP	0.012901,-0.0019	Slew =12.01	4R3	4	0	3,900,185	15:0
3384	97	95	22:37:26.266	117HK105A106A4AK	7STRP	-0.012601,0.0007	Slew =,0.35	4R3	4	0	3,900,185	23:0
3385	97	95	22:38:05.600	117HK105A106A4AL	7STRP	0.012901,-0.0019	Slew =12.01	4R3	4	0	3,900,185	82:0
3386	97	95	22:38:10.933	117HK105A106A4AM	7STRP	-0.012601,0.0007	Slew =,0.35	4R3	4	0	3,900,185	90:0
3387	97	95	22:38:50.266	117HK105A106A4AN	7STRP	0.012901,-0.0019	Slew =12.01	4R3	4	0	3,900,186	58:0
3388	97	95	22:38:55.600	117HK105A106A4AO	7STRP	-0.012601,0.0007	Slew =,0.35	4R3	4	0	3,900,186	66:0
3389	97	95	22:39:34.933	117HK105A106A4AP	7STRP	0.012901,-0.0019	Slew =12.01	4R3	4	0	3,900,187	34:0
3390	97	95	22:39:40.266	117HK105A106A4AQ	7STRP	-0.012601,0.0007	Slew =,0.35	4R3	4	0	3,900,187	42:0
3391	97	95	22:40:19.600	117HK105A106A4AR	7STRP	0.012901,-0.0019	Slew =12.01	4R3	4	0	3,900,188	10:0
3392	97	95	22:40:24.933	117HK105A106A4AS	7STRP	-0.012601,0.0007	Slew =,0.35	4R3	4	0	3,900,188	18:0
3393	97	95	22:41:04.266	117HK105A106A4AT	7STRP	0.012901,-0.0019	Slew =12.01	4R3	4	0	3,900,188	77:0
3394	97	95	22:41:09.600	117HK105A106A4AU	7STRP	-0.012601,0.0007	Slew =,0.35	4R3	4	0	3,900,188	85:0
3395	97	95	22:41:48.933	117HK105A106A4AV	7STRP	0.012901,-0.0019	Slew =12.01	4R3	4	0	3,900,189	53:0
3396	97	95	22:41:54.266	117HK105A106A4AW	7STRP	-0.012601,0.0007	Slew =,0.35	4R3	4	0	3,900,189	61:0
3397	97	95	22:42:33.600	117HK105A106A4AX	7STRP	0.012901,-0.0019	Slew =12.01	4R3	4	0	3,900,190	29:0
3398	97	95	22:42:38.933	117HK105A106A4AY	7STRP	-0.012601,0.0007	Slew =,0.35	4R3	4	0	3,900,190	37:0
3399	97	95	22:43:18.266	117HK105A106A4AZ	7STRP	0.012901,-0.0019	Slew =12.01	4R3	4	0	3,900,191	05:0
3400	97	95	22:43:23.600	117HK105A106A4BA	7STRP	-0.012601,0.0007	Slew =,0.35	4R3	4	0	3,900,191	13:0
3401	97	95	22:44:02.933	117HK11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	3,900,191	72:0
3402	97	95	22:44:15.600	176HK6B	6TMREC	**NRC**	NO RECORD Record Mode Change	4R3	4	0	3,900,192	00:0
3403	97	95	22:44:24.266		DMS:	: *RUNUP	R7, TRACK *3, FWD, TIC 5825.85 +/- 2	4R3	4	0	3,900,192	13:0
3404	97	95	22:44:25.666		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC *5825.97 +/- 2	4R3	4	0	3,900,192	15:1
3405	97	95	22:44:27.600		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *5826.42 +/- 2	4R3	4	0	3,900,192	18:0
3406	97	95	22:44:42.933		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *5830.01 +/- 2	4R3	4	0	3,900,192	41:0
3407	97	95	22:54:15.600	465KH6A	6DTRN	CMD,6DTRN,465KH6	DMS TRACK TURNAROUND	4R3	4	0	3,900,201	81:0
3408	97	95	23:30:00.266	488BD6A	6TMSED	NORM,EL6	Sci, Eng, and D/L Chan	4R3	4	0	3,900,237	22:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
3409	97	95	23:30:00.933	282NR432A431A6A	6RCDSL	DDSNCG,PLSDSL,EP	Record Deselect (DDS o	4R3	4	0	3,900,237:23:0	
3410	97	95	23:30:01.600	282NR432A6A	6RTSL1		R/T Select of DDS and	4R3	4	0	3,900,237:24:0	
3411	**97**	**96**	**00:24:25.733**	**G7HNDARK__04-**		**-----START------**		**4R3**	**4**	**0**	**: :**	
3412	97	96	00:26:21.600	165FE4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,900,292:89:0	
3413	97	96	00:26:22.266	165FE4B	7SCAN	NORM,307.929996,	Check S/P Position	4R3	4	0	3,900,292:90:0	
3414	**97**	**96**	**00:28:19.600**	**125FE4A**	**37IST**	**0,2,0,OFF,0,1,2**	**Gain State 3**	**3R3**	**4**	**0**	**3,900,294:84:0**	
3415	97	96	00:28:19.600	125FE	NIMSINIT	GS	##### GROUP START INIT	3R3	4	0	3,900,294:84:0	
3416	97	96	00:28:19.600	125FE11A	NIMSINIT	GE	##### GROUP END INIT	3R3	4	0	3,900,294:84:0	
3417	97	96	00:29:12.266	175FE422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	3R3	4	0	3,900,295:72:0	
3418	97	96	00:29:20.133		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC *6026.79 +/-	3R3	4	0	3,900,295:83:8	
3419	97	96	00:29:20.266	127FE	NIMSTAB	GS	%%%%% GROUP START TAB	3R3	4	0	3,900,295:84:0	
3420	**97**	**96**	**00:29:20.933**	**127FE4A**	**37ETB**	**07,C7,05,FF,FF,3**	**Loads wavelength edit table**	**3R3**	**4**	**0**	**3,900,295:85:0**	
3421	97	96	00:29:21.533		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC 6026.67 +/-	3R3	4	0	3,900,295:85:9	
3422	97	96	00:29:21.533		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *6026.67 +/-	3R3	4	0	3,900,295:85:9	
3423	97	96	00:29:21.600	175FE176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	3R3	4	0	3,900,295:86:0	
3424	97	96	00:29:28.933	127FE11A	NIMSTAB	GE	%%%%% GROUP END TAB	3R3	4	0	3,900,296:06:0	
3425	**97**	**96**	**00:30:22.963**	**G7HNDARK__04-**	**NIMPBK**	**301FK**	**DARK OBSERVATION**	**3R3**	**4**	**0**	**: :**	
3426	**97**	**96**	**00:31:27.630**	**G7HNDARK__04-**	**DESELC**	**300FK**	**DARK OBSERVATION**	**3R3**	**4**	**0**	**: :**	
3427	97	96	00:31:37.600	175FE6A	6TMREC	**NRC**	NO RECORD Record Mode Change	3R3	4	0	3,900,298:17:0	
3428	97	96	00:31:37.600	175FE422A6B	6DMSC	RDY,0	DMS Control Tape stop	3R3	4	0	3,900,298:17:0	
3429	97	96	00:31:37.600		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *5994.78 +/-	3R3	4	0	3,900,298:17:0	
3430	**97**	**96**	**00:32:31.066**	**G7HNDARK__04-**		**-----STOP-------**		**3R3**	**4**	**0**	**: :**	
3431	97	96	01:42:03.600	488BD6B	6TMSED	NORM,EL4	Sci, Eng, and D/L Chan	3R3	4	0	3,900,367:77:0	
3432	97	96	02:56:43.600	488BD6C	6TMSED	NORM,EL3	Sci, Eng, and D/L Chan	3R3	4	0	3,900,441:63:0	
3433	**97**	**96**	**02:59:07.733**	**G7JNFEA14201-**		**-----START------**		**3R3**	**4**	**0**	**: :**	
3434	97	96	03:00:02.933	165FF4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	3R3	4	0	3,900,444:89:0	
3435	97	96	03:00:03.600	165FF4B	7SCAN	NORM,91.797,26.3	Check S/P Position	3R3	4	0	3,900,444:90:0	
3436	97	96	03:02:00.933	125FF	NIMSINIT	GS	##### GROUP START INIT	3R3	4	0	3,900,446:84:0	
3437	**97**	**96**	**03:02:00.933**	**125FF4A**	**37IST**	**0,2,0,OFF,0,1,0**	**Gain State 2**	**2R3**	**4**	**0**	**3,900,446:84:0**	
3438	97	96	03:02:00.933	125FF11A	NIMSINIT	GE	##### GROUP END INIT	2R3	4	0	3,900,446:84:0	
3439	**97**	**96**	**03:03:01.600**	**127FF4A**	**37IOP**	**5,1**	**Short Map, Grating Start Position =01**	**2R5**	**4**	**1**	**3,900,447:84:0**	
3440	97	96	03:03:01.600	127FF	NIMSTAB	GS	%%%%% GROUP START TAB	2R5	4	1	3,900,447:84:0	
3441	**97**	**96**	**03:03:02.266**	**127FF4B**	**37ETB**		**Loads wavelength edit table**	**2R5**	**4**	**1**	**3,900,447:85:0**	
3442	97	96	03:03:10.266	127FF11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R5	4	1	3,900,448:06:0	
3443	97	96	03:03:54.266	175FF422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,900,448:72:0	
3444	97	96	03:03:57.600	117FF	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,900,448:77:0	
3445	97	96	03:04:02.133		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC *5996.14 +/-	2R5	4	1	3,900,448:83:8	
3446	97	96	03:04:03.533		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *5996.02 +/-	2R5	4	1	3,900,448:85:9	
3447	97	96	03:04:03.533		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC 5996.02 +/-	2R5	4	1	3,900,448:85:9	
3448	97	96	03:04:03.600	175FF176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	3,900,448:86:0	
3449	97	96	03:04:06.933	117FF105A106A4A	**7STRP**	**0.0108,0.0,0,0,0**	**Slew =,0.11**	2R5	4	1	3,900,449:00:0	
3450	**97**	**96**	**03:04:06.957**	**G7JNFEA14201-**	**NIMPBK**	**301FL**	**JUPITER FEATURE TRACK 142 DEG PH**	**2R5**	**4**	**1**	**: :**	
3451	97	96	03:05:46.933	117FF11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,900,450:59:0	
3452	97	96	03:05:58.266	175FF422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,900,450:76:0	
3453	97	96	03:05:58.266		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *5969.12 +/-	2R5	4	1	3,900,450:76:0	
3454	97	96	03:05:58.266	175FF6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,900,450:76:0	
3455	**97**	**96**	**03:06:12.400**	**G7JNFEA14201-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**	
3456	**97**	**96**	**03:11:15.733**	**G7JNPFC14201-**		**-----START------**		**2R5**	**4**	**1**	**: :**	
3457	97	96	03:12:10.933	165FG4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,900,456:89:0	
3458	97	96	03:12:11.600	165FG4B	7SCAN	NORM,91.964,26.5	Check S/P Position	2R5	4	1	3,900,456:90:0	
3459	97	96	03:16:02.266	175FG422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,900,460:72:0	
3460	97	96	03:16:05.600	117FG	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,900,460:77:0	
3461	97	96	03:16:10.133		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC *5970.48 +/-	2R5	4	1	3,900,460:83:8	
3462	97	96	03:16:11.533		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *5970.36 +/-	2R5	4	1	3,900,460:85:9	
3463	97	96	03:16:11.533		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC 5970.36 +/-	2R5	4	1	3,900,460:85:9	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
3464	97	96	03:16:11.600	175FG176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	3,900,460:86:0
3465	97	96	03:16:14.933	117FG105A106A4A	**7STRP**	**0.0108,0.0,0,0,0**	**Slew =,0.11**	2R5	4	1	3,900,461:00:0
3466	97	96	03:17:54.933	117FG11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,900,462:59:0
3467	97	96	03:18:06.266	175FG422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,900,462:76:0
3468	97	96	03:18:06.266	175FG6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,900,462:76:0
3469	97	96	03:18:06.266		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *5943.47 +/-	2R5	4	1	3,900,462:76:0
3470	**97**	**96**	**03:18:20.400**	**G7JNPFC14201-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**
3471	97	96	03:19:32.933	488BD6D	6TMSED	FILL,EL3	Sci, Eng, and D/L Chan	2R5	4	1	3,900,464:24:0
3472	97	96	03:26:35.600	488BD6E	6TMSED	FILL,EL1	Sci, Eng, and D/L Chan	2R5	4	1	3,900,471:21:0
3473	**97**	**96**	**03:28:27.066**	**G7JNPFB14201-**		**-----START------**		**2R5**	**4**	**1**	**: :**
3474	97	96	03:29:22.266	165FH4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,900,473:89:0
3475	97	96	03:29:22.933	165FH4B	7SCAN	NORM,91.818,27.3	Check S/P Position	2R5	4	1	3,900,473:90:0
3476	97	96	03:33:13.600	175FH422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,900,477:72:0
3477	97	96	03:33:16.933	117FH	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,900,477:77:0
3478	97	96	03:33:21.466		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC *5944.82 +/-	2R5	4	1	3,900,477:83:8
3479	97	96	03:33:22.866		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC 5944.70 +/-	2R5	4	1	3,900,477:85:9
3480	97	96	03:33:22.866		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *5944.70 +/-	2R5	4	1	3,900,477:85:9
3481	97	96	03:33:22.933	175FH176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	3,900,477:86:0
3482	97	96	03:33:26.266	117FH105A106A4A	**7STRP**	**0.0108,0.0,0,0,0**	**Slew =,0.11**	2R5	4	1	3,900,478:00:0
3483	97	96	03:35:06.266	117FH11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,900,479:59:0
3484	97	96	03:35:17.600	175FH6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,900,479:76:0
3485	97	96	03:35:17.600	175FH422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,900,479:76:0
3486	97	96	03:35:17.600		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *5917.81 +/-	2R5	4	1	3,900,479:76:0
3487	**97**	**96**	**03:35:31.733**	**G7JNPFB14201-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**
3488	97	96	04:10:42.266	488BE6A	6TMSED	NORM,EL1	Sci, Eng, and D/L Chan	2R5	4	1	3,900,514:78:0
3489	97	96	04:24:11.600	488BE6B	6TMSED	NORM,EL3	Sci, Eng, and D/L Chan	2R5	4	1	3,900,528:18:0
3490	97	96	04:50:35.600	488BE6C	6TMSED	FILL,EL3	Sci, Eng, and D/L Chan	2R5	4	1	3,900,554:28:0
3491	97	96	05:00:00.266	488BE6D	6TMSED	FILL,DL3	Sci, Eng, and D/L Chan	2R5	4	1	3,900,563:56:0
3492	97	96	05:47:39.600	488BE6E	6TMSED	NORM,DL3	Sci, Eng, and D/L Chan	2R5	4	1	3,900,610:68:0
3493	97	96	06:16:12.266	165GS4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,900,638:89:0
3494	97	96	06:16:12.933	165GS4B	7SCAN	NORM,102.382,25.	Check S/P Position	2R5	4	1	3,900,638:90:0
3495	97	96	06:20:06.933	117GS	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,900,642:77:0
3496	97	96	06:20:16.266	117GS105A106A4A	7STRP	0.004,0.0,0,0,0,	Slew =,0.32	2R5	4	1	3,900,643:00:0
3497	97	96	06:20:16.266	176GS6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R5	4	1	3,900,643:00:0
3498	97	96	06:20:33.600	117GS11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,900,643:26:0
3499	97	96	06:20:49.600	176GS6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,900,643:50:0
3500	97	96	06:20:59.466		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC *5919.17 +/-	2R5	4	1	3,900,643:64:8
3501	97	96	06:21:00.866		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC *5919.05 +/-	2R5	4	1	3,900,643:66:9
3502	97	96	06:21:01.600		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *5918.87 +/-	2R5	4	1	3,900,643:68:0
3503	97	96	06:21:08.933		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *5917.16 +/-	2R5	4	1	3,900,643:79:0
3504	97	96	10:01:40.933	165GC4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,900,861:89:0
3505	97	96	10:01:41.600	165GC4B	7SCAN	NORM,102.073999,	Check S/P Position	2R5	4	1	3,900,861:90:0
3506	97	96	10:05:35.600	117GC	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,900,865:77:0
3507	97	96	10:05:44.933	176GC6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R5	4	1	3,900,866:00:0
3508	97	96	10:05:44.933	117GC105A106A4A	7STRP	0.004,0.0,0,0,0,	Slew =,0.32	2R5	4	1	3,900,866:00:0
3509	97	96	10:06:02.266	117GC11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,900,866:26:0
3510	97	96	10:06:18.266	176GC6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,900,866:50:0
3511	97	96	10:06:28.133		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC *5918.51 +/-	2R5	4	1	3,900,866:64:8
3512	97	96	10:06:29.533		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC *5918.39 +/-	2R5	4	1	3,900,866:66:9
3513	97	96	10:06:30.266		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *5918.22 +/-	2R5	4	1	3,900,866:68:0
3514	97	96	10:06:37.600		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *5916.50 +/-	2R5	4	1	3,900,866:79:0
3515	97	96	10:41:47.600	488BF6A	6TMSED	NORM,DL2	Sci, Eng, and D/L Chan	2R5	4	1	3,900,901:59:0
3516	97	96	11:09:31.600	488BF6B	6TMSED	NORM,DL3	Sci, Eng, and D/L Chan	2R5	4	1	3,900,929:07:0
3517	97	96	11:35:07.600	488BF6C	6TMSED	NORM,DL4	Sci, Eng, and D/L Chan	2R5	4	1	3,900,954:36:0
3518	97	96	11:53:54.933	165HZ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,900,972:89:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
3519	97	96	11:53:55.600	165HZ4B	7SCAN	NORM,74.422,25.5	Check S/P Position	2R5	4	1	3,900,972:90:0
3520	**97**	**96**	**11:56:01.733**	**G7NNHEALTH07-**		**-----START------**		**2R5**	**4**	**1**	**: :**
3521	97	96	11:57:49.600	117HZ	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,900,976:77:0
3522	97	96	11:57:54.266	127KI	NIMSTAB	GS	%%%%% GROUP START TAB	2R5	4	1	3,900,976:84:0
3523	**97**	**96**	**11:57:54.266**	**127KI4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**3,900,976:84:0**
3524	**97**	**96**	**11:57:54.933**	**127KI4B**	**37ETB**	**07,C7,02,80,44,3**	**Loads wavelength edit table**	**2R3**	**4**	**0**	**3,900,976:85:0**
3525	97	96	11:57:58.933	176HZ6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R3	4	0	3,900,977:00:0
3526	97	96	11:57:58.933	117HZ105A106A4A	7STRP	0.004,0.0,0,0,0,	Slew =,0.32	2R3	4	0	3,900,977:00:0
3527	97	96	11:58:02.933	127KI11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	3,900,977:06:0
3528	97	96	11:58:16.266	117HZ11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	3,900,977:26:0
3529	**97**	**96**	**11:58:18.933**	**432ER6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**	**NIMS R/T SELECT**	**2R3**	**4**	**0**	**3,900,977:30:0**
3530	97	96	11:58:32.266	176HZ6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	3,900,977:50:0
3531	97	96	11:58:42.133		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC *5917.85 +/-	2R3	4	0	3,900,977:64:8
3532	97	96	11:58:43.533		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC *5917.73 +/-	2R3	4	0	3,900,977:66:9
3533	97	96	11:58:44.266		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *5917.56 +/-	2R3	4	0	3,900,977:68:0
3534	97	96	11:58:51.600		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *5915.84 +/-	2R3	4	0	3,900,977:79:0
3535	**97**	**96**	**11:59:18.266**	**432ES6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**2R3**	**4**	**0**	**3,900,978:28:0**
3536	**97**	**96**	**12:01:05.066**	**G7NNHEALTH07-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**
3537	97	96	12:27:38.933	488BF6D	6TMSED	FILL,DL4	Sci, Eng, and D/L Chan	2R3	4	0	3,901,006:31:0
3538	97	96	12:56:18.266	488BF6E	6TMSED	NORM,DL4	Sci, Eng, and D/L Chan	2R3	4	0	3,901,034:62:0
3539	**97**	**96**	**13:04:47.066**	**G7JNPFB15001-**		**-----START------**		**2R3**	**4**	**0**	**: :**
3540	97	96	13:05:42.266	165FI4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,901,043:89:0
3541	97	96	13:05:42.933	165FI4B	7SCAN	NORM,100.221,26.	Check S/P Position	2R3	4	0	3,901,043:90:0
3542	**97**	**96**	**13:08:40.933**	**127LH4A**	**37IOP**	**5,1**	**Short Map, Grating Start Position =01**	**2R5**	**4**	**1**	**3,901,046:84:0**
3543	97	96	13:08:40.933	127LH	NIMSTAB	GS	%%%%% GROUP START TAB	2R5	4	1	3,901,046:84:0
3544	**97**	**96**	**13:08:41.600**	**127LH4B**	**37ETB**		**Loads wavelength edit table**	**2R5**	**4**	**1**	**3,901,046:85:0**
3545	97	96	13:08:49.600	127LH11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R5	4	1	3,901,047:06:0
3546	97	96	13:09:33.600	175FI422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,901,047:72:0
3547	97	96	13:09:36.933	117FI	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,901,047:77:0
3548	97	96	13:09:41.466		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC *5917.20 +/-	2R5	4	1	3,901,047:83:8
3549	97	96	13:09:42.866		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *5917.08 +/-	2R5	4	1	3,901,047:85:9
3550	97	96	13:09:42.866		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC 5917.08 +/-	2R5	4	1	3,901,047:85:9
3551	97	96	13:09:42.933	175FI176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	3,901,047:86:0
3552	97	96	13:09:46.266	117FI105A106A4A	**7STRP**	**0.0108,0.0,0,0,0**	**Slew =,0.11**	2R5	4	1	3,901,048:00:0
3553	97	96	13:11:26.266	117FI11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,901,049:59:0
3554	97	96	13:11:37.600	175FI422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,901,049:76:0
3555	97	96	13:11:37.600	175FI6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,901,049:76:0
3556	97	96	13:11:37.600		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *5890.19 +/-	2R5	4	1	3,901,049:76:0
3557	**97**	**96**	**13:11:51.733**	**G7JNPFB15001-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**
3558	**97**	**96**	**13:12:39.066**	**G7JNPFC15001-**		**-----START------**		**2R5**	**4**	**1**	**: :**
3559	97	96	13:12:46.933	165FJ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,901,050:89:0
3560	97	96	13:12:47.600	165FJ4B	7SCAN	NORM,100.263,26.	Check S/P Position	2R5	4	1	3,901,050:90:0
3561	97	96	13:16:38.266	175FJ422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,901,054:72:0
3562	97	96	13:16:41.600	117FJ	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,901,054:77:0
3563	97	96	13:16:46.133		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC *5891.54 +/-	2R5	4	1	3,901,054:83:8
3564	97	96	13:16:47.533		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *5891.42 +/-	2R5	4	1	3,901,054:85:9
3565	97	96	13:16:47.533		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC 5891.42 +/-	2R5	4	1	3,901,054:85:9
3566	97	96	13:16:47.600	175FJ176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	3,901,054:86:0
3567	97	96	13:16:50.933	117FJ105A106A4A	**7STRP**	**0.0108,0.0,0,0,0**	**Slew =,0.11**	2R5	4	1	3,901,055:00:0
3568	97	96	13:18:30.933	117FJ11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,901,056:59:0
3569	97	96	13:18:42.266	175FJ422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,901,056:76:0
3570	97	96	13:18:42.266	175FJ6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,901,056:76:0
3571	97	96	13:18:42.266		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *5864.53 +/-	2R5	4	1	3,901,056:76:0
3572	**97**	**96**	**13:18:56.400**	**G7JNPFC15001-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**
3573	**97**	**96**	**13:27:01.733**	**G7JNFEA15003-**		**-----START------**		**2R5**	**4**	**1**	**: :**

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
3574	97	96	13:27:56.933	165FK4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,901,065:89:0
3575	97	96	13:27:57.600	165FK4B	7SCAN	NORM,100.148,26.	Check S/P Position	2R5	4	1	3,901,065:90:0
3576	97	96	13:31:48.266	175FK422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,901,069:72:0
3577	97	96	13:31:51.600	117FK	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,901,069:77:0
3578	97	96	13:31:56.133		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC *5865.89 +/-	2R5	4	1	3,901,069:83:8
3579	97	96	13:31:57.533		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC 5865.77 +/-	2R5	4	1	3,901,069:85:9
3580	97	96	13:31:57.533		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *5865.77 +/-	2R5	4	1	3,901,069:85:9
3581	97	96	13:31:57.600	175FK176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	3,901,069:86:0
3582	97	96	13:32:00.933	117FK105A106A4A	**7STRP**	**0.0108,0.0,0,0,0**	**Slew =,0.11**	2R5	4	1	3,901,070:00:0
3583	**97**	**96**	**13:33:38.268**	**G7JNFEA15003-**	**DESELC**	**300FL**	**JUPITER FEATURE TRACK 150 DEG PH**	**2R5**	**4**	**1**	**: :**
3584	97	96	13:33:40.933	117FK11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,901,071:59:0
3585	97	96	13:33:48.266	175FK6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,901,071:70:0
3586	97	96	13:33:48.266	175FK422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,901,071:70:0
3587	97	96	13:33:48.266		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *5839.81 +/-	2R5	4	1	3,901,071:70:0
3588	**97**	**96**	**13:34:06.400**	**G7JNFEA15003-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**
3589	**97**	**96**	**15:14:12.400**	**G7NNHEALTH08-**		**-----START------**		**2R5**	**4**	**1**	**: :**
3590	**97**	**96**	**15:16:04.933**	**127KJ4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**3,901,172:84:0**
3591	97	96	15:16:04.933	127KJ	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	3,901,172:84:0
3592	**97**	**96**	**15:16:05.600**	**127KJ4B**	**37ETB**	**07,C7,02,80,44,3**	**Loads wavelength edit table**	**2R3**	**4**	**0**	**3,901,172:85:0**
3593	97	96	15:16:13.600	127KJ11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	3,901,173:06:0
3594	**97**	**96**	**15:17:30.266**	**432ET6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**	**NIMS R/T SELECT**	**2R3**	**4**	**0**	**3,901,174:30:0**
3595	**97**	**96**	**15:18:29.600**	**432EU6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**2R3**	**4**	**0**	**3,901,175:28:0**
3596	**97**	**96**	**15:19:15.733**	**G7NNHEALTH08-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**
3597	**97**	**96**	**15:29:22.400**	**G7JNFEZ15701-**		**-----START------**		**2R3**	**4**	**0**	**: :**
3598	97	96	15:30:17.600	165FL4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,901,186:89:0
3599	97	96	15:30:18.266	165FL4B	7SCAN	NORM,101.879,25.	Check S/P Position	2R3	4	0	3,901,186:90:0
3600	**97**	**96**	**15:33:16.266**	**127LI4A**	**37IOP**	**5,1**	**Short Map, Grating Start Position =01**	**2R5**	**4**	**1**	**3,901,189:84:0**
3601	97	96	15:33:16.266	127LI	NIMSTAB	GS	%%%%% GROUP START TAB	2R5	4	1	3,901,189:84:0
3602	**97**	**96**	**15:33:16.933**	**127LI4B**	**37ETB**		**Loads wavelength edit table**	**2R5**	**4**	**1**	**3,901,189:85:0**
3603	97	96	15:33:24.933	127LI11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R5	4	1	3,901,190:06:0
3604	97	96	15:34:08.933	175FL422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,901,190:72:0
3605	97	96	15:34:12.266	117FL	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,901,190:77:0
3606	97	96	15:34:16.800		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC *5841.17 +/-	2R5	4	1	3,901,190:83:8
3607	97	96	15:34:18.200		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *5841.05 +/-	2R5	4	1	3,901,190:85:9
3608	97	96	15:34:18.200		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC 5841.05 +/-	2R5	4	1	3,901,190:85:9
3609	97	96	15:34:18.266	175FL176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	3,901,190:86:0
3610	97	96	15:34:21.600	117FL105A106A4A	**7STRP**	**0.0108,0.0,0,0,0**	**Slew =,0.11**	2R5	4	1	3,901,191:00:0
3611	97	96	15:36:01.600	117FL11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,901,192:59:0
3612	97	96	15:36:12.933	175FL422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,901,192:76:0
3613	97	96	15:36:12.933		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *5814.16 +/-	2R5	4	1	3,901,192:76:0
3614	97	96	15:36:12.933	175FL6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,901,192:76:0
3615	**97**	**96**	**15:36:27.066**	**G7JNFEZ15701-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**
3616	**97**	**96**	**15:41:30.400**	**G7JNFEZ15702-**		**-----START------**		**2R5**	**4**	**1**	**: :**
3617	97	96	15:42:25.600	165FM4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,901,198:89:0
3618	97	96	15:42:26.266	165FM4B	7SCAN	NORM,102.179,25.	Check S/P Position	2R5	4	1	3,901,198:90:0
3619	97	96	15:44:43.600	488BG6A	6TMSED	NORM,DL6	Sci, Eng, and D/L Chan	2R5	4	1	3,901,201:23:0
3620	97	96	15:46:16.933	175FM422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,901,202:72:0
3621	97	96	15:46:20.266	117FM	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,901,202:77:0
3622	97	96	15:46:24.800		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC *5815.51 +/-	2R5	4	1	3,901,202:83:8
3623	97	96	15:46:26.200		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC 5815.39 +/-	2R5	4	1	3,901,202:85:9
3624	97	96	15:46:26.200		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *5815.39 +/-	2R5	4	1	3,901,202:85:9
3625	97	96	15:46:26.266	175FM176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	3,901,202:86:0
3626	**97**	**96**	**15:46:29.596**	**G7JNFEZ15702-**	**NIMPBK**	**301FY**	**JUPITER FEATURE TRACK 157 DEG PH**	**2R5**	**4**	**1**	**: :**
3627	97	96	15:46:29.600	117FM105A106A4A	**7STRP**	**0.0108,0.0,0,0,0**	**Slew =,0.11**	2R5	4	1	3,901,203:00:0
3628	**97**	**96**	**15:48:09.596**	**G7JNFEZ15702-**	**DESELC**	**300FY**	**JUPITER FEATURE TRACK 157 DEG PH**	**2R5**	**4**	**1**	**: :**

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
3629	97	96	15:48:09.600	117FM11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,901,204:59:0	
3630	97	96	15:48:20.933	175FM6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,901,204:76:0	
3631	97	96	15:48:20.933	175FM422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,901,204:76:0	
3632	97	96	15:48:20.933		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *5788.50 +/-	2R5	4	1	3,901,204:76:0	
3633	**97**	**96**	**15:48:35.066**	**G7JNFEZ15702-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**	
3634	**97**	**96**	**15:50:36.400**	**G7JNFEZ15703-**		**-----START------**		**2R5**	**4**	**1**	**: :**	
3635	97	96	15:51:31.600	165FN4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,901,207:89:0	
3636	97	96	15:51:32.266	165FN4B	7SCAN	NORM,102.221999,	Check S/P Position	2R5	4	1	3,901,207:90:0	
3637	97	96	15:55:22.933	175FN422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,901,211:72:0	
3638	97	96	15:55:26.266	117FN	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,901,211:77:0	
3639	97	96	15:55:30.800		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC *5789.85 +/-	2R5	4	1	3,901,211:83:8	
3640	97	96	15:55:32.200		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *5789.73 +/-	2R5	4	1	3,901,211:85:9	
3641	97	96	15:55:32.200		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC 5789.73 +/-	2R5	4	1	3,901,211:85:9	
3642	97	96	15:55:32.266	175FN176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	3,901,211:86:0	
3643	97	96	15:55:35.600	117FN105A106A4A	**7STRP**	**0.0108,0.0,0,0,0**	**Slew =,0.11**	2R5	4	1	3,901,212:00:0	
3644	97	96	15:57:15.600	117FN11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,901,213:59:0	
3645	97	96	15:57:16.933		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *5765.19 +/-	2R5	4	1	3,901,213:61:0	
3646	97	96	15:57:16.933	175FN6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,901,213:61:0	
3647	97	96	15:57:16.933	175FN422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,901,213:61:0	
3648	**97**	**96**	**15:57:41.066**	**G7JNFEZ15703-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**	
3649	**97**	**96**	**15:58:58.400**	**G7JNAWGWIN04**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**	
3650	**97**	**96**	**16:00:00.000**	**20A3EW**	**37A**	**Final Condition**	**NIMS Power ON**	**2R5**	**4**	**0**	**3,901,216:32:6**	
3651	**97**	**96**	**16:00:00.000**	**20A3FF**	**40T2R**	**Final Condition**	**PCT Heater 2 OFF**	**2R5**	**4**	**0**	**3,901,216:32:6**	
3652	**97**	**96**	**16:00:00.000**	**20A3FE**	**40T1PR**	**Final Condition**	**PCT Heater 1 OFF (primary relay)**	**2R5**	**4**	**0**	**3,901,216:32:6**	
3653	**97**	**96**	**16:00:00.000**	**20A3FD**	**40HRPR**	**Final Condition**	**RCT Heater OFF (primary relay)**	**2R5**	**4**	**0**	**3,901,216:32:6**	
3654	**97**	**96**	**16:00:00.000**	**20A3FB**	**37F2PR**	**Final Condition**	**Shield Flash Heater OFF (primary relay)**	**2R5**	**4**	**0**	**3,901,216:32:6**	
3655	**97**	**96**	**16:00:00.000**	**20A3FA**	**37F1PR**	**Final Condition**	**Radiator Flash Heater OFF (primary relay)**	**2R5**	**4**	**0**	**3,901,216:32:6**	
3656	**97**	**96**	**16:00:00.000**	**20A3EZ**	**37C2PR**	**Final Condition**	**Optics Heater 2 OFF (primary relay)**	**2R5**	**4**	**0**	**3,901,216:32:6**	
3657	**97**	**96**	**16:00:00.000**	**20A3EY**	**37C1PR**	**Final Condition**	**Optics Heater 1 OFF (primary relay)**	**2R5**	**4**	**0**	**3,901,216:32:6**	
3658	**97**	**96**	**16:00:00.000**	**20A3EX**	**37HR**	**Final Condition**	**Replacement Heaters OFF**	**2R5**	**4**	**0**	**3,901,216:32:6**	
3659	97	96	16:00:00.266		DMS:	: READY	RDY, TRACK 4, REV, TIC 5765.13 +/-	2R5	4	0	3,901,216:33:0	

			Sequence:	G07B-ARF		Created: 5/15/97	Begin: 97-096/16:00:00 Finish: 97-124/16:00:00				
Line	**YR**	**DOY**	**SCET - GMT**	**PSID**	**Command**	**Parameters**	**Description**	**GCM**	**GO**	**GS**	**RIM MF I**
1	**97**	**96**	**16:00:00.000**	**20A3FB**	**37F2PR**	**Initial Condition**	**Shield Flash Heater OFF (primary relay)**	**2R5**	**4**	**0**	**3,901,216:32:6**
2	**97**	**96**	**16:00:00.000**	**20A3EW**	**37A**	**Initial Condition**	**NIMS Power ON**	**2R5**	**4**	**0**	**3,901,216:32:6**
3	**97**	**96**	**16:00:00.000**	**20A3EX**	**37HR**	**Initial Condition**	**Replacement Heaters OFF**	**2R5**	**4**	**0**	**3,901,216:32:6**
4	**97**	**96**	**16:00:00.000**	**20A3EY**	**37C1PR**	**Initial Condition**	**Optics Heater 1 OFF (primary relay)**	**2R5**	**4**	**0**	**3,901,216:32:6**
5	**97**	**96**	**16:00:00.000**	**20A3EZ**	**37C2PR**	**Initial Condition**	**Optics Heater 2 OFF (primary relay)**	**2R5**	**4**	**0**	**3,901,216:32:6**
6	**97**	**96**	**16:00:00.000**	**20A3FA**	**37F1PR**	**Initial Condition**	**Radiator Flash Heater OFF (primary relay)**	**2R5**	**4**	**0**	**3,901,216:32:6**
7	**97**	**96**	**16:00:00.000**	**20A3FF**	**40T2R**	**Initial Condition**	**PCT Heater 2 OFF**	**2R5**	**4**	**0**	**3,901,216:32:6**
8	**97**	**96**	**16:00:00.000**	**20A3FE**	**40T1PR**	**Initial Condition**	**PCT Heater 1 OFF (primary relay)**	**2R5**	**4**	**0**	**3,901,216:32:6**
9	**97**	**96**	**16:00:00.000**	**20A3FD**	**40HRPR**	**Initial Condition**	**RCT Heater OFF (primary relay)**	**2R5**	**4**	**0**	**3,901,216:32:6**
10	97	96	16:00:00.266		DMS:	: READY	RDY, TRACK 4, REV, TIC 5765.13 +/-	2R5	4	0	3,901,216:33:0
11	**97**	**96**	**16:01:38.266**	**432JB6B**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**2R5**	**4**	**0**	**3,901,217:89:0**
12	97	96	16:01:38.933	432JB431A6A	6RCDSL	DDSNCG,PLSDSL,EP	Record Deselect (DDS o	2R5	4	0	3,901,217:90:0
13	97	96	16:01:39.600	432JB6C	6RTSL1		R/T Select of DDS and	2R5	4	0	3,901,218:00:0
14	**97**	**96**	**16:01:39.600**	**432JB6D**	**6RTSL2**	**NIMNCG,AACSEL,RT**	**AACS SELECT**	**2R5**	**4**	**0**	**3,901,218:00:0**
15	97	96	16:01:47.600	488A6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2R5	4	0	3,901,218:12:0
16	97	96	16:01:47.600	418JA6A	6BUFLO	2	MUB Buffer low water m	2R5	4	0	3,901,218:12:0
17	97	96	16:01:47.600	418JA6B	6BUFHI	10	MUB Buffer high water	2R5	4	0	3,901,218:12:0
18	**97**	**96**	**16:08:48.400**	**G7NNCHOPOF01-**		**-----START------**		**2R5**	**4**	**0**	**: :**
19	**97**	**96**	**16:09:40.266**	**127FJ4A**	**37IOP**	**0,0**	**Safe, Grating Start Position =00**	**2R0**	**4**	**0**	**3,901,225:84:0**
20	97	96	16:09:40.266	127FJ	NIMSTAB	GS	%%%%% GROUP START TAB	2R0	4	0	3,901,225:84:0
21	**97**	**96**	**16:09:40.933**	**127FJ4B**	**37ETB**	**04,C4,02,00,00**	**Loads wavelength edit table**	**2R0**	**4**	**0**	**3,901,225:85:0**
22	97	96	16:09:48.933	127FJ11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R0	4	0	3,901,226:06:0
23	97	96	16:12:42.266	125FJ	NIMSINIT	GS	##### GROUP START INIT	2R0	4	0	3,901,228:84:0
24	**97**	**96**	**16:12:42.266**	**125FJ4A**	**37MB**	**0,0,0,0,0,0**	**Selects mirror (spatial) edit table**	**2R0**	**4**	**0**	**3,901,228:84:0**
25	**97**	**96**	**16:13:42.933**	**125FJ4B**	**37IST**	**1,0,0,OFF,0,0,0**	**Chopper ON, Sync, 63Hz (Ref)**	**260**	**4**	**0**	**3,901,229:84:0**
26	97	96	16:14:43.600	125FJ11A	NIMSINIT	GE	##### GROUP END INIT	260	4	0	3,901,230:84:0
27	**97**	**96**	**16:14:43.600**	**125FJ4C**	**37IST**	**1,1,0,OFF,0,0,0**	**Chopper OFF, N/A, 63Hz (Ref)**	**2O0**	**4**	**0**	**3,901,230:84:0**
28	**97**	**96**	**16:18:55.066**	**G7NNCHOPOF01-**		**-----STOP-------**		**2O0**	**4**	**0**	**: :**
29	97	96	16:45:00.266	444UA443A4A	**7MODE**	**CRU**	AACS CRUISE MODE	2O0	4	0	3,901,260:79:0
30	97	96	16:55:07.600	488A6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	3,901,270:80:0
31	97	96	17:00:00.266	41WA99A	**POWER**	**PWR MODE change**	Change to Maneuver/Playback Mode	2O0	4	0	3,901,275:64:0
32	**97**	**96**	**17:00:04.266**	**41WA3K**	**37F2PR**	**1**	**Shield Flash Heater OFF (primary relay)**	**2O0**	**4**	**0**	**3,901,275:70:0**
33	**97**	**96**	**17:00:14.266**	**41WA3L**	**37F2PR**	**2**	**Shield Flash Heater OFF (primary relay)**	**2O0**	**4**	**0**	**3,901,275:85:0**
34	**97**	**96**	**17:02:24.266**	**41WA3G**	**40T1P**	**1**	**PCT Heater 1 ON (primary relay)**	**2O0**	**4**	**0**	**3,901,278:07:0**
35	**97**	**96**	**17:02:34.266**	**41WA3H**	**40T1P**	**2**	**PCT Heater 1 ON (primary relay)**	**2O0**	**4**	**0**	**3,901,278:22:0**
36	**97**	**96**	**17:02:44.266**	**41WA3I**	**40T2**	**1**	**PCT Heater 2 ON**	**2O0**	**4**	**0**	**3,901,278:37:0**
37	**97**	**96**	**17:02:54.266**	**41WA3J**	**40T2**	**2**	**PCT Heater 2 ON**	**2O0**	**4**	**0**	**3,901,278:52:0**
38	97	96	17:11:04.266	20WA4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	2O0	4	0	3,901,286:59:0
39	97	96	17:11:54.266	20WA4B	7SLEW	DIS,POS,0.0	Stator movement	2O0	4	0	3,901,287:43:0
40	97	96	17:14:27.600	176SA6A	6TMREC	**IPB**	INITIATE PLAYBACK (PB CONTROL) Record Mod	2O0	4	0	3,901,290:00:0
41	97	96	17:55:54.933	176BA6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	2O0	4	0	3,901,331:00:0
42	97	96	17:58:55.600	165BK4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2O0	4	0	3,901,333:89:0
43	97	96	17:58:56.266	165BK4B	7SCAN	NORM,312.23,-17.	Check S/P Position	2O0	4	0	3,901,333:90:0
44	97	96	18:03:00.933	20UK4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	2O0	4	0	3,901,338:02:0
45	97	96	18:03:50.933	20UK4B	7SLEW	DIS,POS,0.0	Stator movement	2O0	4	0	3,901,338:77:0
46	97	96	18:05:00.933	176BB6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	2O0	4	0	3,901,340:00:0
47	97	96	23:23:23.533	488B6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	3,901,654:80:0
48	97	97	00:00:00.200	481UG4A	7VECT		Inert vect update UTC	2O0	4	0	3,901,691:08:0
49	97	97	01:42:03.533	488B6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	3,901,792:02:0
50	97	97	02:41:47.533	488B6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	3,901,851:09:0
51	97	97	03:26:35.533	488B6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	2O0	4	0	3,901,895:37:0
52	97	97	03:50:03.533	488B6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2O0	4	0	3,901,918:56:0
53	97	97	04:45:31.533	488C6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	3,901,973:43:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
54	97	97	10:37:31.533	488C6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2O0	4	0	3,902,321	55:0
55	97	97	10:43:12.200	488C6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	2O0	4	0	3,902,327	20:0
56	97	97	10:52:27.533	488D6A	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	2O0	4	0	3,902,336	34:0
57	97	97	11:04:46.866	488D6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	2O0	4	0	3,902,348	51:0
58	97	97	11:20:11.533	488D6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2O0	4	0	3,902,363	73:0
59	97	97	12:25:29.533	488D6D	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	2O0	4	0	3,902,428	35:0
60	97	97	12:51:55.533	488D6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	3,902,454	48:0
61	97	97	12:56:30.200	488E6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	3,902,459	05:0
62	97	97	13:38:00.200	488E6B	6TMSED	NORM,AH4	Sci, Eng, and D/L Chan	2O0	4	0	3,902,500	09:0
63	97	97	13:54:04.866	176SB6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	2O0	4	0	3,902,516	00:0
64	97	97	14:02:00.200	20UA4B	7SLEW	DIS,POS,0.0	Stator movement	2O0	4	0	3,902,523	76:0
65	97	97	14:03:00.200	20UA4D	**7MODE**	**SPNL**	AACS ALL-SPIN LOW	2O0	4	0	3,902,524	75:0
66	97	97	14:05:00.200	20UA4E	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	2O0	4	0	3,902,526	73:0
67	97	97	14:10:30.200	20UA4G	7VENT	0.611,1.333,8	ALERT -- Thruster fire	2O0	4	0	3,902,532	22:0
68	97	97	14:10:30.866	20UA4H	7VENT	0.611,10.989,8	ALERT -- Thruster fire	2O0	4	0	3,902,532	23:0
69	97	97	14:10:50.866	20UA4I	7VENT	0.611,1.333,6	ALERT -- Thruster fire	2O0	4	0	3,902,532	53:0
70	97	97	14:10:51.533	20UA4J	7VENT	0.611,10.989,6	ALERT -- Thruster fire	2O0	4	0	3,902,532	54:0
71	97	97	14:11:11.533	20UA4K	7VENT	0.611,1.333,4	ALERT -- Thruster fire	2O0	4	0	3,902,532	84:0
72	97	97	14:11:12.200	20UA4L	7VENT	0.611,0.666,5	ALERT -- Thruster fire	2O0	4	0	3,902,532	85:0
73	97	97	14:11:22.200	20UA4M	7VENT	0.611,1.333,4	ALERT -- Thruster fire	2O0	4	0	3,902,533	09:0
74	97	97	14:11:22.866	20UA4N	7VENT	0.611,0.666,5	ALERT -- Thruster fire	2O0	4	0	3,902,533	10:0
75	97	97	14:11:32.866	20UA4O	7VENT	1.211,1.333,10	ALERT -- Thruster fire	2O0	4	0	3,902,533	25:0
76	97	97	14:11:33.533	20UA4P	7VENT	1.211,0.666,12	ALERT -- Thruster fire	2O0	4	0	3,902,533	26:0
77	97	97	14:13:20.200	20UA4S	7VENT	0.611,1.333,7	ALERT -- Thruster fire	2O0	4	0	3,902,535	04:0
78	97	97	14:13:20.866	20UA4T	7VENT	0.611,10.989,7	ALERT -- Thruster fire	2O0	4	0	3,902,535	05:0
79	97	97	14:13:40.866	20UA4U	7VENT	0.611,1.333,1	ALERT -- Thruster fire	2O0	4	0	3,902,535	35:0
80	97	97	14:13:41.533	20UA4V	7VENT	0.611,10.989,1	ALERT -- Thruster fire	2O0	4	0	3,902,535	36:0
81	97	97	14:14:01.533	20UA4AC	7VENT	0.611,1.333,2	ALERT -- Thruster fire	2O0	4	0	3,902,535	66:0
82	97	97	14:14:02.200	20UA4AD	7VENT	0.611,0.666,3	ALERT -- Thruster fire	2O0	4	0	3,902,535	67:0
83	97	97	14:14:12.200	20UA4AE	7VENT	0.611,1.333,2	ALERT -- Thruster fire	2O0	4	0	3,902,535	82:0
84	97	97	14:14:12.866	20UA4AF	7VENT	0.611,0.666,3	ALERT -- Thruster fire	2O0	4	0	3,902,535	83:0
85	97	97	14:14:22.866	20UA4W	7VENT	1.211,1.333,9	ALERT -- Thruster fire	2O0	4	0	3,902,536	07:0
86	97	97	14:14:23.533	20UA4X	7VENT	1.211,0.666,11	ALERT -- Thruster fire	2O0	4	0	3,902,536	08:0
87	97	97	14:15:20.200	20UA4Z	**7MODE**	**CRU**	AACS CRUISE MODE	2O0	4	0	3,902,537	02:0
88	97	97	14:40:29.533	432OU431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	2O0	4	0	3,902,561	82:0
89	97	97	14:40:30.200	432OU6A	6RTSL1		R/T Select of DDS and	2O0	4	0	3,902,561	83:0
90	97	97	14:41:34.866	165BL4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2O0	4	0	3,902,562	89:0
91	97	97	14:41:35.533	165BL4B	7SCAN	NORM,312.23,-17.	Check S/P Position	2O0	4	0	3,902,562	90:0
92	97	97	14:45:40.200	20UL4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	2O0	4	0	3,902,567	02:0
93	97	97	14:46:30.200	20UL4B	7SLEW	DIS,POS,0.0	Stator movement	2O0	4	0	3,902,567	77:0
94	97	97	14:47:40.200	176BD6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	2O0	4	0	3,902,569	00:0
95	97	97	15:40:27.533	488E6C	6TMSED	NORM,AH6	Sci, Eng, and D/L Chan	2O0	4	0	3,902,621	19:0
96	97	97	15:46:00.200	488E6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	3,902,626	63:0
97	97	97	17:24:59.533	488E6E	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	3,902,724	54:0
98	97	97	20:53:05.533	488F6A	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	2O0	4	0	3,902,930	37:0
99	97	97	21:12:38.866	488F6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	3,902,949	68:0
100	97	97	22:32:11.533	488F6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	3,903,028	38:0
101	97	98	01:37:47.533	488F6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	3,903,211	89:0
102	97	98	02:37:31.533	488F6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	3,903,271	05:0
103	97	98	03:20:05.533	488G6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	3,903,313	14:0
104	97	98	03:22:19.533	488G6B	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	2O0	4	0	3,903,315	33:0
105	97	98	03:49:50.200	488G6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	2O0	4	0	3,903,342	52:0
106	97	98	04:24:11.533	488G6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2O0	4	0	3,903,376	50:0
107	97	98	04:33:45.533	418JB6A	6BUFLO	2	MUB Buffer low water m	2O0	4	0	3,903,386	01:0
108	97	98	04:33:45.533	418JB6B	6BUFHI	7	MUB Buffer high water	2O0	4	0	3,903,386	01:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
109	97	98	04:34:45.533	176SF6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	2O0	4	0	3,903,387:00:0
110	97	98	04:41:20.200	20UB4B	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	2O0	4	0	3,903,393:46:0
111	97	98	05:00:20.200	20UB4D	**7MODE**	**INT**	AACS INERTIAL MODE	2O0	4	0	3,903,412:27:0
112	97	98	05:10:26.200	488G6E	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	2O0	4	0	3,903,422:26:0
113	97	98	05:42:30.800	488H6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2O0	4	0	3,903,454:01:0
114	97	98	07:41:21.466	488H6B	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	2O0	4	0	3,903,571:50:0
115	97	98	07:48:59.466	488H6C	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	2O0	4	0	3,903,579:09:0
116	97	98	08:01:04.133	20C6A	6TMSED	NORM,AH1	Sci, Eng, and D/L Chan	2O0	4	0	3,903,591:04:0
117	97	98	08:10:00.133	474AA416A4B	**7MODE**	**INT**	AACS INERTIAL MODE	2O0	4	0	3,903,599:80:0
118	97	98	08:12:00.133	474AA416A4D	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	2O0	4	0	3,903,601:78:0
119	97	98	08:16:14.133	474AA416A4E	7BURN	.483199,-68.9721	ALERT -- Thruster fire	2O0	4	0	3,903,606:04:0
120	97	98	09:27:34.133	474AA416A4L	**7MODE**	**CRU**	AACS CRUISE MODE	2O0	4	0	3,903,676:54:0
121	97	98	10:07:00.133	20C6B	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	2O0	4	0	3,903,715:54:0
122	97	98	11:31:00.133	20C6C	6TMSED	NORM,AH1	Sci, Eng, and D/L Chan	2O0	4	0	3,903,798:61:0
123	97	98	17:00:00.133	444UB443A4A	**7MODE**	**CRU**	AACS CRUISE MODE	2O0	4	0	3,904,124:05:0
124	97	98	17:01:31.466	488I6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	3,904,125:51:0
125	97	98	17:04:02.800	488I6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	3,904,128:05:0
126	97	98	17:09:59.466	432OW431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	2O0	4	0	3,904,133:85:0
127	97	98	17:10:00.133	432OW6A	6RTSL1		R/T Select of DDS and	2O0	4	0	3,904,133:86:0
128	97	98	17:10:03.466	488I6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	3,904,134:00:0
129	97	98	17:10:04.133	20WC4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	2O0	4	0	3,904,134:01:0
130	97	98	17:10:54.133	20WC4B	7SLEW	DIS,POS,0.0	Stator movement	2O0	4	0	3,904,134:76:0
131	97	98	17:11:26.800	488I6D	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	2O0	4	0	3,904,135:34:0
132	97	98	17:12:04.800	176SG6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	2O0	4	0	3,904,136:00:0
133	97	98	17:16:11.466	41WB99A	**POWER**	**PWR MODE change**	Change to Calib/Decon Mode	2O0	4	0	3,904,140:06:0
134	**97**	**98**	**17:16:11.466**	**G7NNRCTRLT01-**		**-----START------**		**2O0**	**4**	**0**	**: :**
135	**97**	**98**	**17:16:15.466**	**41WB3G**	**37F2PR**		**1 Shield Flash Heater OFF (primary relay)**	**2O0**	**4**	**0**	**3,904,140:12:0**
136	**97**	**98**	**17:16:25.466**	**41WB3H**	**37F2PR**		**2 Shield Flash Heater OFF (primary relay)**	**2O0**	**4**	**0**	**3,904,140:27:0**
137	**97**	**98**	**17:16:35.466**	**41WB3I**	**40T1PR**		**1 PCT Heater 1 OFF (primary relay)**	**2O0**	**4**	**0**	**3,904,140:42:0**
138	**97**	**98**	**17:16:45.466**	**41WB3J**	**40T1PR**		**2 PCT Heater 1 OFF (primary relay)**	**2O0**	**4**	**0**	**3,904,140:57:0**
139	**97**	**98**	**17:16:55.466**	**41WB3K**	**40T2R**		**1 PCT Heater 2 OFF**	**2O0**	**4**	**0**	**3,904,140:72:0**
140	**97**	**98**	**17:17:05.466**	**41WB3L**	**40T2R**		**2 PCT Heater 2 OFF**	**2O0**	**4**	**0**	**3,904,140:87:0**
141	97	98	17:27:14.800	176XU6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	2O0	4	0	3,904,151:00:0
142	97	98	17:30:20.800	20XE4A	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	2O0	4	0	3,904,154:06:0
143	97	98	17:34:27.466	20UH4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	2O0	4	0	3,904,158:12:0
144	97	98	17:35:17.466	20UH4B	7SLEW	DIS,POS,0.0	Stator movement	2O0	4	0	3,904,158:87:0
145	97	98	17:37:21.466	176XV6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	2O0	4	0	3,904,161:00:0
146	**97**	**98**	**17:38:22.133**	**185XE10A3A**	**40HRP**		**1 RCT Heater ON (primary relay)**	**2O0**	**4**	**0**	**3,904,162:00:0**
147	**97**	**98**	**17:38:27.466**	**185XE10B3A**	**40HRP**		**2 RCT Heater ON (primary relay)**	**2O0**	**4**	**0**	**3,904,162:08:0**
148	97	98	18:17:59.466	488I6E	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	3,904,201:17:0
149	97	98	19:32:59.466	488J6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	3,904,275:33:0
150	97	99	01:33:31.466	488K6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	3,904,631:85:0
151	97	99	02:33:15.466	488K6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	3,904,691:01:0
152	97	99	03:14:46.133	488K6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	3,904,732:06:0
153	97	99	03:18:03.466	488K6D	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	2O0	4	0	3,904,735:29:0
154	97	99	04:30:55.466	488K6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2O0	4	0	3,904,807:35:0
155	97	99	05:00:21.466	488L6A	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	2O0	4	0	3,904,836:45:0
156	97	99	05:32:25.466	488L6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2O0	4	0	3,904,868:19:0
157	97	99	05:33:08.800	125XE	NIMSINIT	GS	##### GROUP START INIT	2O0	4	0	3,904,868:84:0
158	**97**	**99**	**05:33:08.800**	**125XE4A**	**37IST**	**1,0,0,OFF,0,0,0**	**Chopper ON, Sync, 63Hz (Ref)**	**260**	**4**	**0**	**3,904,868:84:0**
159	**97**	**99**	**05:34:09.466**	**125XE4B**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**3,904,869:84:0**
160	**97**	**99**	**05:35:10.133**	**125XE4C**	**37IST**	**0,2,0,OFF,0,1,3**	**Gain State 1**	**1R0**	**4**	**0**	**3,904,870:84:0**
161	97	99	05:36:10.800	125XE11A	NIMSINIT	GE	##### GROUP END INIT	1R0	4	0	3,904,871:84:0
162	**97**	**99**	**05:36:10.800**	**125XE4D**	**37MB**	**1B,1B,0,0,0,0**	**Selects mirror (spatial) edit table**	**1R0**	**4**	**0**	**3,904,871:84:0**
163	97	99	05:38:12.133	127XE	NIMSTAB	GS	%%%%% GROUP START TAB	1R0	4	0	3,904,873:84:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
164	**97**	**99**	**05:38:12.133**	**127XE4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**1R3**	**4**	**0**	**3,904,873:84:0**
165	**97**	**99**	**05:38:12.800**	**127XE4B**	**37ETB**	**0A,CA,18,03,FF,1**	**Loads wavelength edit table**	**1R3**	**4**	**0**	**3,904,873:85:0**
166	97	99	05:38:20.800	127XE11A	NIMSTAB	GE	%%%%% GROUP END TAB	1R3	4	0	3,904,874:06:0
167	97	99	05:42:19.466	176XE6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	1R3	4	0	3,904,878:00:0
168	97	99	05:44:27.466	20UQ4A	7SCAN	NORM,308.2,-19.4	Check S/P Position	1R3	4	0	3,904,880:10:0
169	97	99	05:45:00.133	418JC6A	6BUFLO	2	MUB Buffer low water m	1R3	4	0	3,904,880:59:0
170	97	99	05:45:00.133	418JC6B	6BUFHI	10	MUB Buffer high water	1R3	4	0	3,904,880:59:0
171	97	99	05:48:23.466	192XE4A	**7CONE**	**17.0,119.7**	Check S/P Position	1R3	4	0	3,904,884:00:0
172	**97**	**99**	**05:50:44.800**	**432XE6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**	**NIMS R/T SELECT**	**1R3**	**4**	**0**	**3,904,886:30:0**
173	**97**	**99**	**05:51:44.133**	**432XF6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**1R3**	**4**	**0**	**3,904,887:28:0**
174	97	99	05:54:27.466	192XE4B	**7CONE**	**17.0,0.0**	Check S/P Position	1R3	4	0	3,904,890:00:0
175	**97**	**99**	**05:56:48.800**	**432XU6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**	**NIMS R/T SELECT**	**1R3**	**4**	**0**	**3,904,892:30:0**
176	**97**	**99**	**05:58:48.800**	**432XV6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**1R3**	**4**	**0**	**3,904,894:28:0**
177	97	99	06:00:31.466	192XE4C	**7CONE**	**17.0,119.7**	Check S/P Position	1R3	4	0	3,904,896:00:0
178	**97**	**99**	**06:02:32.800**	**185XE10C3A**	**40HRPR**	**1**	**RCT Heater OFF (primary relay)**	**1R3**	**4**	**0**	**3,904,898:00:0**
179	**97**	**99**	**06:02:38.133**	**185XE10D3A**	**40HRPR**	**2**	**RCT Heater OFF (primary relay)**	**1R3**	**4**	**0**	**3,904,898:08:0**
180	**97**	**99**	**06:02:52.800**	**432XW6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**	**NIMS R/T SELECT**	**1R3**	**4**	**0**	**3,904,898:30:0**
181	**97**	**99**	**06:03:52.133**	**432XY6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**1R3**	**4**	**0**	**3,904,899:28:0**
182	97	99	06:06:35.466	192XE4D	**7CONE**	**17.0,153.0**	Check S/P Position	1R3	4	0	3,904,902:00:0
183	97	99	06:07:31.466	127XF	NIMSTAB	GS	%%%%% GROUP START TAB	1R3	4	0	3,904,902:84:0
184	**97**	**99**	**06:07:31.466**	**127XF4A**	**37IOP**	**0,0**	**Safe, Grating Start Position =00**	**1R0**	**4**	**0**	**3,904,902:84:0**
185	**97**	**99**	**06:07:32.133**	**127XF4B**	**37ETB**	**04,C4,02,00,00**	**Loads wavelength edit table**	**1R0**	**4**	**0**	**3,904,902:85:0**
186	97	99	06:07:40.133	127XF11A	NIMSTAB	GE	%%%%% GROUP END TAB	1R0	4	0	3,904,903:06:0
187	**97**	**99**	**06:10:33.466**	**125XF4A**	**37MB**	**0,0,0,0,0,0**	**Selects mirror (spatial) edit table**	**1R0**	**4**	**0**	**3,904,905:84:0**
188	97	99	06:10:33.466	125XF	NIMSINIT	GS	##### GROUP START INIT	1R0	4	0	3,904,905:84:0
189	**97**	**99**	**06:11:34.133**	**125XF4B**	**37IST**	**1,0,0,OFF,0,0,0**	**Chopper ON, Sync, 63Hz (Ref)**	**160**	**4**	**0**	**3,904,906:84:0**
190	**97**	**99**	**06:12:34.800**	**125XF4C**	**37IST**	**1,1,0,OFF,0,0,0**	**Chopper OFF, N/A, 63Hz (Ref)**	**1O0**	**4**	**0**	**3,904,907:84:0**
191	97	99	06:12:34.800	125XF11A	NIMSINIT	GE	##### GROUP END INIT	1O0	4	0	3,904,907:84:0
192	97	99	06:18:47.466	41WC99A	**POWER**	**PWR MODE change**	Change to Maneuver/Playback Mode	1O0	4	0	3,904,914:06:0
193	**97**	**99**	**06:18:51.466**	**41WC3K**	**37F2PR**	**1**	**Shield Flash Heater OFF (primary relay)**	**1O0**	**4**	**0**	**3,904,914:12:0**
194	**97**	**99**	**06:19:01.466**	**41WC3L**	**37F2PR**	**2**	**Shield Flash Heater OFF (primary relay)**	**1O0**	**4**	**0**	**3,904,914:27:0**
195	**97**	**99**	**06:21:11.466**	**41WC3G**	**40T1P**	**1**	**PCT Heater 1 ON (primary relay)**	**1O0**	**4**	**0**	**3,904,916:40:0**
196	**97**	**99**	**06:21:21.466**	**41WC3H**	**40T1P**	**2**	**PCT Heater 1 ON (primary relay)**	**1O0**	**4**	**0**	**3,904,916:55:0**
197	**97**	**99**	**06:21:31.466**	**41WC3I**	**40T2**	**1**	**PCT Heater 2 ON**	**1O0**	**4**	**0**	**3,904,916:70:0**
198	**97**	**99**	**06:21:41.466**	**41WC3J**	**40T2**	**2**	**PCT Heater 2 ON**	**1O0**	**4**	**0**	**3,904,916:85:0**
199	**97**	**99**	**06:31:56.132**	**G7NNRCTRLT01-**		**-----STOP-------**		**1O0**	**4**	**0**	**: :**
200	97	99	06:34:52.800	165BM4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	1O0	4	0	3,904,929:89:0
201	97	99	06:34:53.466	165BM4B	7SCAN	NORM,312.23,-17.	Check S/P Position	1O0	4	0	3,904,929:90:0
202	97	99	06:38:58.133	20UM4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	1O0	4	0	3,904,934:02:0
203	97	99	06:39:26.800	432BB6A	6RTSL1		R/T Select of DDS and	1O0	4	0	3,904,934:45:0
204	97	99	06:39:48.133	20UM4B	7SLEW	DIS,POS,0.0	Stator movement	1O0	4	0	3,904,934:77:0
205	97	99	06:40:58.133	176BF6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	1O0	4	0	3,904,936:00:0
206	97	99	10:33:15.466	488L6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,905,165:67:0
207	97	99	11:00:59.466	488M6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,905,193:15:0
208	97	99	11:30:51.400	488M6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,905,222:64:0
209	97	99	12:17:24.066	488M6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,905,268:67:0
210	97	99	12:46:03.400	488M6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,905,297:07:0
211	97	99	15:36:11.400	488M6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,905,465:31:0
212	97	99	17:14:19.400	488N6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	3,905,562:36:0
213	97	99	19:32:59.400	488N6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,905,699:49:0
214	97	100	01:33:31.400	488O6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	3,906,056:10:0
215	97	100	02:26:51.400	488O6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,906,108:78:0
216	97	100	03:11:39.400	488O6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,906,153:15:0
217	97	100	03:45:47.400	488O6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,906,186:84:0
218	97	100	04:49:47.400	488O6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,906,250:20:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
219	97	100	10:11:55.400	488P6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,906,568:74:0	
220	97	100	10:26:51.400	488P6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,906,583:53:0	
221	97	100	10:54:35.400	488P6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,906,611:01:0	
222	97	100	11:30:51.400	488P6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,906,646:80:0	
223	97	100	15:29:47.400	488P6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,906,883:17:0	
224	97	100	17:16:27.400	488Q6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	3,906,988:62:0	
225	97	100	19:32:59.333	488Q6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,907,123:65:0	
226	97	101	01:27:07.333	488R6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	3,907,473:87:0	
227	97	101	02:22:35.333	488R6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,907,528:74:0	
228	97	101	03:11:39.333	488R6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,907,577:31:0	
229	97	101	03:45:47.333	488R6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,907,611:09:0	
230	97	101	04:49:47.333	488R6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,907,674:36:0	
231	97	101	10:07:39.333	488S6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,907,988:70:0	
232	97	101	10:33:15.333	488S6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,908,014:08:0	
233	97	101	11:09:31.333	488S6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,908,049:87:0	
234	97	101	12:10:07.333	488S6D	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,908,109:81:0	
235	97	101	12:42:11.333	488S6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,908,141:55:0	
236	97	101	13:00:27.333	488T6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,908,159:61:0	
237	97	101	15:29:47.333	488T6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,908,307:33:0	
238	97	101	17:10:03.333	488T6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	3,908,406:48:0	
239	97	101	19:28:43.333	488U6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,908,543:61:0	
240	97	101	20:41:19.333	488U6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,908,615:43:0	
241	97	101	21:03:09.333	488U6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,908,637:06:0	
242	97	102	01:22:51.266	488U6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	3,908,893:83:0	
243	97	102	02:18:19.266	488V6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,908,948:70:0	
244	97	102	03:07:23.266	488V6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,908,997:27:0	
245	97	102	03:41:31.266	488V6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,909,031:05:0	
246	97	102	04:49:47.266	488V6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,909,098:52:0	
247	97	102	10:03:23.266	488W6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,909,408:66:0	
248	97	102	10:22:35.266	488W6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,909,427:65:0	
249	97	102	10:52:27.266	488W6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,909,457:23:0	
250	97	102	11:26:35.266	488W6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,909,491:01:0	
251	97	102	15:25:31.266	488W6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,909,727:29:0	
252	97	102	17:10:03.266	488X6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	3,909,830:64:0	
253	97	102	19:28:43.266	488X6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,909,967:77:0	
254	97	103	01:22:51.266	488Y6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	3,910,318:08:0	
255	97	103	02:11:55.266	488Y6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,910,366:56:0	
256	97	103	03:07:23.266	488Y6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,910,421:43:0	
257	97	103	03:41:31.266	488Y6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,910,455:21:0	
258	97	103	04:49:47.266	488Y6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,910,522:68:0	
259	97	103	09:56:59.200	488Z6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,910,826:52:0	
260	97	103	10:18:19.200	488Z6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,910,847:61:0	
261	97	103	10:46:03.200	488Z6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,910,875:09:0	
262	97	103	11:26:35.200	488Z6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,910,915:17:0	
263	97	103	15:25:31.200	488Z6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,911,151:45:0	
264	97	103	17:05:47.200	488AA6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	3,911,250:60:0	
265	97	103	19:22:19.200	488AA6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,911,385:63:0	
266	97	103	20:49:39.200	41WD99A	**POWER**	**PWR MODE change**	Change to Data Taking Mode	1O0	4	0	3,911,472:06:0	
267	**97**	**103**	**20:49:39.200**	**G7NNPCTRLT01-**		**-----START------**		**1O0**	**4**	**0**	: :	
268	**97**	**103**	**20:49:43.200**	**41WD3K**	**37F2PR**	**1**	**Shield Flash Heater OFF (primary relay)**	**1O0**	**4**	**0**	**3,911,472:12:0**	
269	**97**	**103**	**20:49:53.200**	**41WD3L**	**37F2PR**	**2**	**Shield Flash Heater OFF (primary relay)**	**1O0**	**4**	**0**	**3,911,472:27:0**	
270	**97**	**103**	**20:50:03.200**	**41WD3A**	**40T1PR**	**1**	**PCT Heater 1 OFF (primary relay)**	**1O0**	**4**	**0**	**3,911,472:42:0**	
271	**97**	**103**	**20:50:13.200**	**41WD3B**	**40T1PR**	**2**	**PCT Heater 1 OFF (primary relay)**	**1O0**	**4**	**0**	**3,911,472:57:0**	
272	**97**	**103**	**20:50:23.200**	**41WD3C**	**40T2R**	**1**	**PCT Heater 2 OFF**	**1O0**	**4**	**0**	**3,911,472:72:0**	
273	**97**	**103**	**20:50:33.200**	**41WD3D**	**40T2R**	**2**	**PCT Heater 2 OFF**	**1O0**	**4**	**0**	**3,911,472:87:0**	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters		Description	GCM	GO	GS	RIM MF I
274	97	104	00:52:59.866	418JD6A	6BUFLO		2	MUB Buffer low water m	1O0	4	0	3,911,712:67:0
275	97	104	00:52:59.866	418JD6B	6BUFHI		7	MUB Buffer high water	1O0	4	0	3,911,712:67:0
276	97	104	01:18:35.200	488AB6A	6TMSED	NORM,AL5		Sci, Eng, and D/L Chan	1O0	4	0	3,911,738:04:0
277	97	104	02:07:39.200	488AB6B	6TMSED	NORM,AL4		Sci, Eng, and D/L Chan	1O0	4	0	3,911,786:52:0
278	97	104	02:53:35.200	176FA6A	6TMREC	**PPB**		PAUSE PLAYBACK (PB CONTROL) Record Mode C	1O0	4	0	3,911,832:00:0
279	97	104	02:56:43.866	444UC443A4A	**7SAFE**	**UNSTOW**		S/P TO 153 deg cone	1O0	4	0	3,911,835:10:0
280	97	104	02:58:17.200	488AB6C	6TMSED	FILL,AL4		Sci, Eng, and D/L Chan	1O0	4	0	3,911,836:59:0
281	97	104	03:00:43.866	444UC443A4B	**7MODE**	**SPNL**		AACS ALL-SPIN LOW	1O0	4	0	3,911,839:06:0
282	97	104	03:03:07.200	488AB6D	6TMSED	FILL,AL2		Sci, Eng, and D/L Chan	1O0	4	0	3,911,841:39:0
283	97	104	03:09:43.866	444UC443A4C	**7CLK**	**17.45,0.0**		Check S/P Position	1O0	4	0	3,911,847:88:0
284	**97**	**104**	**03:12:43.200**	**125FT4A**	**37IST**	**1,0,0,OFF,0,0,0**		**Chopper ON, Sync, 63Hz (Ref)**	**160**	**4**	**0**	**3,911,850:84:0**
285	97	104	03:12:43.200	125FT	NIMSINIT	GS		##### GROUP START INIT	160	4	0	3,911,850:84:0
286	**97**	**104**	**03:13:43.866**	**125FT4B**	**37IST**	**1,2,0,OFF,0,1,1**		**Chopper ON, Sync, Chopper (Ref)Gain State**	**4R0**	**4**	**0**	**3,911,851:84:0**
287	**97**	**104**	**03:14:44.533**	**125FT4C**	**37MB**	**1B,1B,0,0,0,0**		**Selects mirror (spatial) edit table**	**4R0**	**4**	**0**	**3,911,852:84:0**
288	97	104	03:14:44.533	125FT11A	NIMSINIT	GE		##### GROUP END INIT	4R0	4	0	3,911,852:84:0
289	97	104	03:17:46.533	127FT	NIMSTAB	GS		%%%%% GROUP START TAB	4R0	4	0	3,911,855:84:0
290	**97**	**104**	**03:17:46.533**	**127FT4A**	**37IOP**	**3,0**		**Long Map, Grating Start Position =00**	**4R3**	**4**	**0**	**3,911,855:84:0**
291	**97**	**104**	**03:17:47.200**	**127FT4B**	**37ETB**	**0A,CA,19,FF,C0,1**		**Loads wavelength edit table**	**4R3**	**4**	**0**	**3,911,855:85:0**
292	97	104	03:17:55.200	127FT11A	NIMSTAB	GE		%%%%% GROUP END TAB	4R3	4	0	3,911,856:06:0
293	**97**	**104**	**03:18:11.200**	**432EA6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**		**NIMS R/T SELECT**	**4R3**	**4**	**0**	**3,911,856:30:0**
294	**97**	**104**	**03:20:11.200**	**432EB6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**		**NIMS R/T DESELECT**	**4R3**	**4**	**0**	**3,911,858:28:0**
295	97	104	03:20:53.200	192EQ4A	**7CONE**	**17.0,54.88**		Check S/P Position	4R3	4	0	3,911,859:00:0
296	97	104	03:20:53.866	192EQ4B	**7CLK**	**17.0,244.07**		Check S/P Position	4R3	4	0	3,911,859:01:0
297	**97**	**104**	**03:24:15.200**	**432EC6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**		**NIMS R/T SELECT**	**4R3**	**4**	**0**	**3,911,862:30:0**
298	97	104	03:25:25.866	488AB6E	6TMSED	NORM,AL2		Sci, Eng, and D/L Chan	4R3	4	0	3,911,863:45:0
299	**97**	**104**	**03:34:20.533**	**432ED6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**		**NIMS R/T DESELECT**	**4R3**	**4**	**0**	**3,911,872:28:0**
300	**97**	**104**	**03:34:57.866**	**127FU4A**	**37IOP**	**0,0**		**Safe, Grating Start Position =00**	**4R0**	**4**	**0**	**3,911,872:84:0**
301	97	104	03:34:57.866	127FU	NIMSTAB	GS		%%%%% GROUP START TAB	4R0	4	0	3,911,872:84:0
302	**97**	**104**	**03:34:58.533**	**127FU4B**	**37ETB**	**04,C4,02,00,00**		**Loads wavelength edit table**	**4R0**	**4**	**0**	**3,911,872:85:0**
303	97	104	03:35:06.533	20FH4A	**7SAFE**	**UNSTOW**		S/P TO 153 deg cone	4R0	4	0	3,911,873:06:0
304	97	104	03:35:06.533	127FU11A	NIMSTAB	GE		%%%%% GROUP END TAB	4R0	4	0	3,911,873:06:0
305	97	104	03:36:59.200	125FV	NIMSINIT	GS		##### GROUP START INIT	4R0	4	0	3,911,874:84:0
306	**97**	**104**	**03:36:59.200**	**125FV4A**	**37IST**	**1,0,0,OFF,0,0,0**		**Chopper ON, Sync, 63Hz (Ref)**	**460**	**4**	**0**	**3,911,874:84:0**
307	**97**	**104**	**03:37:59.866**	**125FV4B**	**37IST**	**1,1,0,OFF,0,0,0**		**Chopper OFF, N/A, 63Hz (Ref)**	**4O0**	**4**	**0**	**3,911,875:84:0**
308	97	104	03:39:00.533	125FV11A	NIMSINIT	GE		##### GROUP END INIT	4O0	4	0	3,911,876:84:0
309	**97**	**104**	**03:39:00.533**	**125FV4C**	**37MB**	**0,0,0,0,0,0**		**Selects mirror (spatial) edit table**	**4O0**	**4**	**0**	**3,911,876:84:0**
310	97	104	03:40:12.533	444UD443A4A	**7SAFE**	**UNSTOW**		S/P TO 153 deg cone	4O0	4	0	3,911,878:10:0
311	97	104	03:44:12.533	444UD443A4B	**7MODE**	**CRU**		AACS CRUISE MODE	4O0	4	0	3,911,882:06:0
312	97	104	03:59:59.200	432OQ431A6A	6RCDSL	DDSNCG,PLSNCG,EP		Record Deselect (DDS o	4O0	4	0	3,911,897:61:0
313	97	104	03:59:59.866	432OQ6A	6RTSL1			R/T Select of DDS and	4O0	4	0	3,911,897:62:0
314	97	104	04:04:25.866	41WE99A	**POWER**	**PWR MODE change**		Change to Maneuver/Playback Mode	4O0	4	0	3,911,902:06:0
315	**97**	**104**	**04:04:29.866**	**41WE3K**	**37F2PR**		**1**	**Shield Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,911,902:12:0**
316	**97**	**104**	**04:04:39.866**	**41WE3L**	**37F2PR**		**2**	**Shield Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,911,902:27:0**
317	**97**	**104**	**04:06:49.866**	**41WE3G**	**40T1P**		**1**	**PCT Heater 1 ON (primary relay)**	**4O0**	**4**	**0**	**3,911,904:40:0**
318	**97**	**104**	**04:06:59.866**	**41WE3H**	**40T1P**		**2**	**PCT Heater 1 ON (primary relay)**	**4O0**	**4**	**0**	**3,911,904:55:0**
319	**97**	**104**	**04:07:09.866**	**41WE3I**	**40T2**		**1**	**PCT Heater 2 ON**	**4O0**	**4**	**0**	**3,911,904:70:0**
320	**97**	**104**	**04:07:19.866**	**41WE3J**	**40T2**		**2**	**PCT Heater 2 ON**	**4O0**	**4**	**0**	**3,911,904:85:0**
321	**97**	**104**	**04:08:28.533**	**G7NNPCTRLT01-**		**-----STOP-------**			**4O0**	**4**	**0**	**: :**
322	97	104	04:15:39.200	488AC6A	6TMSED	NORM,AL3		Sci, Eng, and D/L Chan	4O0	4	0	3,911,913:15:0
323	97	104	04:18:29.866	165BS4A	7TMOT	DIS,TMC		Disable IVP - Target Motion	4O0	4	0	3,911,915:89:0
324	97	104	04:18:30.533	165BS4B	7SCAN	NORM,312.23,-17.		Check S/P Position	4O0	4	0	3,911,915:90:0
325	97	104	04:22:35.200	20UJ4A	**7SAFE**	**STOP**		S/P NO MOVEMENT	4O0	4	0	3,911,920:02:0
326	97	104	04:23:25.200	20UJ4B	7SLEW	DIS,POS,0.0		Stator movement	4O0	4	0	3,911,920:77:0
327	97	104	04:24:35.200	176BE6A	6TMREC	**RPB**		RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	3,911,922:00:0
328	97	104	04:44:50.533	488AC6B	6TMSED	FILL,AL3		Sci, Eng, and D/L Chan	4O0	4	0	3,911,942:03:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
329	97	104	05:16:54.533	488AC6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,911,973:68:0	
330	97	104	10:14:03.200	488AC6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,912,267:57:0	
331	97	104	10:35:23.200	488AD6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,912,288:66:0	
332	97	104	11:20:11.200	488AD6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,912,333:03:0	
333	97	104	11:56:53.133	488AD6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,912,369:30:0	
334	97	104	12:25:32.466	488AD6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,912,397:61:0	
335	97	104	12:35:19.133	418JE6A	6BUFLO	2	MUB Buffer low water m	4O0	4	0	3,912,407:31:0	
336	97	104	12:35:19.133	418JE6B	6BUFHI	10	MUB Buffer high water	4O0	4	0	3,912,407:31:0	
337	97	104	15:21:15.133	488AD6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	3,912,571:41:0	
338	97	104	17:01:31.133	488AE6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	3,912,670:56:0	
339	97	104	19:18:03.133	488AE6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	3,912,805:59:0	
340	97	105	01:12:11.133	488AF6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	3,913,155:81:0	
341	97	105	02:07:39.133	488AF6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,913,210:68:0	
342	97	105	02:58:51.133	488AF6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,913,261:35:0	
343	97	105	03:30:51.133	488AF6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,913,293:03:0	
344	97	105	04:41:15.133	488AF6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,913,362:60:0	
345	97	105	09:52:43.133	488AG6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,913,670:64:0	
346	97	105	10:14:03.133	488AG6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,913,691:73:0	
347	97	105	10:43:55.133	488AG6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,913,721:31:0	
348	97	105	11:15:55.133	488AG6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,913,752:90:0	
349	97	105	15:21:15.133	488AG6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	3,913,995:57:0	
350	97	105	17:01:31.133	488AH6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	3,914,094:72:0	
351	97	105	19:13:47.066	488AH6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	3,914,225:55:0	
352	97	106	01:12:11.066	488AI6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	3,914,580:06:0	
353	97	106	02:03:23.066	488AI6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,914,630:64:0	
354	97	106	02:58:51.066	488AI6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,914,685:51:0	
355	97	106	03:28:43.066	488AI6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,914,715:09:0	
356	97	106	04:30:35.066	488AI6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,914,776:26:0	
357	97	106	09:59:07.066	488AJ6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,915,101:19:0	
358	97	106	10:14:03.066	488AJ6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,915,115:89:0	
359	97	106	10:56:43.066	488AJ6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,915,158:16:0	
360	97	106	11:49:34.400	488AJ6D	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,915,210:41:0	
361	97	106	12:21:38.400	488AJ6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,915,242:15:0	
362	97	106	12:30:35.066	488AK6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,915,251:01:0	
363	97	106	15:16:59.066	488AK6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	3,915,415:53:0	
364	97	106	16:55:07.066	488AK6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	3,915,512:58:0	
365	97	106	19:13:47.066	488AL6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	3,915,649:71:0	
366	97	106	20:25:46.400	488AL6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	3,915,720:89:0	
367	97	106	20:47:36.400	488AL6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	3,915,742:52:0	
368	97	107	01:07:55.000	488AL6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	3,916,000:02:0	
369	97	107	02:03:23.000	488AM6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,916,054:80:0	
370	97	107	02:52:27.000	488AM6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,916,103:37:0	
371	97	107	03:22:19.000	488AM6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,916,132:86:0	
372	97	107	04:26:19.000	488AM6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,916,196:22:0	
373	97	107	08:45:55.000	488AN6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,916,452:90:0	
374	97	107	08:52:59.000	488AN6B	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,916,459:89:0	
375	97	107	10:20:49.000	488AN6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,916,546:77:0	
376	97	107	10:26:51.000	488AN6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,916,552:74:0	
377	97	107	11:00:59.000	488AN6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,916,586:52:0	
378	97	107	15:16:59.000	488AO6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	3,916,839:69:0	
379	97	107	16:23:07.000	488AO6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	3,916,905:15:0	
380	97	107	16:57:15.000	488AO6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	3,916,938:84:0	
381	97	107	20:05:39.000	418JF6A	6BUFLO	2	MUB Buffer low water m	4O0	4	0	3,917,125:23:0	
382	97	107	20:05:39.000	418JF6B	6BUFHI	4	MUB Buffer high water	4O0	4	0	3,917,125:23:0	
383	97	107	21:25:16.333	176JA6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	4O0	4	0	3,917,204:00:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
384	97	107	21:50:13.666	488AP6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	3,917,228:62:0	
385	97	107	21:53:47.000	488AP6B	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,917,232:18:0	
386	97	108	01:00:04.333	20UI4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	4O0	4	0	3,917,416:40:0	
387	97	108	01:00:54.333	20UI4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	3,917,417:24:0	
388	97	108	01:02:39.666	418JG6A	6BUFLO	2	MUB Buffer low water m	4O0	4	0	3,917,419:00:0	
389	97	108	01:02:39.666	418JG6B	6BUFHI	10	MUB Buffer high water	4O0	4	0	3,917,419:00:0	
390	97	108	01:02:46.333	176JB6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	3,917,419:10:0	
391	97	108	03:10:53.666	488AP6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,917,545:75:0	
392	97	108	03:52:11.000	488AQ6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,917,586:60:0	
393	97	108	04:29:22.333	488AQ6B	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,917,623:40:0	
394	97	108	05:01:26.333	488AQ6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,917,655:14:0	
395	97	108	08:00:12.933	432MF431A6A	6RCDSL	DDSDSL,PLSNCG,EP	Record Deselect (DDS o	4O0	4	0	3,917,831:88:0	
396	97	108	08:00:13.600	432MF6A	6RTSL1		R/T Select of DDS and	4O0	4	0	3,917,831:89:0	
397	97	108	10:03:22.933	488AR6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,917,953:71:0	
398	97	108	10:31:06.933	488AR6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,917,981:19:0	
399	97	108	10:56:42.933	488AR6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,918,006:48:0	
400	97	108	11:46:24.933	488AR6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,918,055:62:0	
401	97	108	12:15:04.266	488AR6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,918,084:02:0	
402	97	108	15:10:34.933	488AS6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	3,918,257:55:0	
403	97	108	16:31:38.933	488AS6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	3,918,337:71:0	
404	97	108	17:53:00.266	488AS6C	6TMSED	NORM,AH7	Sci, Eng, and D/L Chan	4O0	4	0	3,918,418:22:0	
405	97	108	17:54:46.933	176SJ6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	4O0	4	0	3,918,420:00:0	
406	97	108	18:25:02.266	490UA412A4B	**7MODE**	**INT**	AACS INERTIAL MODE	4O0	4	0	3,918,449:84:0	
407	97	108	18:30:00.266	490UA412A4D	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	4O0	4	0	3,918,454:76:0	
408	97	108	18:34:10.266	490UA412A4E	7VECT	RTH	Inert vect update UTC	4O0	4	0	3,918,458:87:0	
409	97	108	18:34:14.266	490UA412A4F	7TURN	2,RTH	ALERT Thruster	4O0	4	0	3,918,459:02:0	
410	97	108	18:38:02.266	490UA412A406A4A	7STAR	1,3000,95.710999	Star catalog update	4O0	4	0	3,918,462:71:0	
411	97	108	18:38:04.266	490UA412A406A4B	7STAR	2,121,222.03	Star catalog update	4O0	4	0	3,918,462:74:0	
412	97	108	18:38:06.266	490UA412A406A4C	7STAR	31,253,185.95	Star catalog update	4O0	4	0	3,918,462:77:0	
413	97	108	18:38:08.266	490UA412A406A4D	7STAR	4,0,0.0,0.0	Star catalog update	4O0	4	0	3,918,462:80:0	
414	97	108	18:38:10.266	490UA412A406A4E	7STAR	5,0,0.0,0.0	Star catalog update	4O0	4	0	3,918,462:83:0	
415	97	108	18:38:12.266	490UA412A406A4F	7STAR	6,0,0.0,0.0	Star catalog update	4O0	4	0	3,918,462:86:0	
416	97	108	19:46:12.933	490UA412A4L	**7MODE**	**CRU**	AACS CRUISE MODE	4O0	4	0	3,918,530:19:0	
417	97	108	20:01:59.600	432OS431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	4O0	4	0	3,918,545:74:0	
418	97	108	20:02:00.266	432OS6A	6RTSL1		R/T Select of DDS and	4O0	4	0	3,918,545:75:0	
419	97	108	20:30:00.266	488AS6D	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	3,918,573:47:0	
420	97	108	20:31:04.266	20WE4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	4O0	4	0	3,918,574:52:0	
421	97	108	20:31:54.266	20WE4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	3,918,575:36:0	
422	97	108	20:34:32.266	176SK6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	3,918,578:00:0	
423	97	108	22:57:46.933	488AT6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	3,918,719:61:0	
424	97	108	23:55:44.933	176BG6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	4O0	4	0	3,918,777:00:0	
425	97	108	23:58:45.600	165BN4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4O0	4	0	3,918,779:89:0	
426	97	108	23:58:46.266	165BN4B	7SCAN	NORM,317.743999,	Check S/P Position	4O0	4	0	3,918,779:90:0	
427	97	109	00:02:50.933	20UN4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	4O0	4	0	3,918,784:02:0	
428	97	109	00:03:19.600	432BF6A	6RTSL1		R/T Select of DDS and	4O0	4	0	3,918,784:45:0	
429	97	109	00:03:40.933	20UN4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	3,918,784:77:0	
430	97	109	00:04:50.933	176BH6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	3,918,786:00:0	
431	97	109	01:03:38.933	488AT6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	3,918,844:14:0	
432	97	109	02:07:38.933	488AT6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,918,907:41:0	
433	97	109	02:48:10.933	488AT6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,918,947:49:0	
434	97	109	03:18:02.933	488AT6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,918,977:07:0	
435	97	109	04:00:42.933	488AU6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,919,019:25:0	
436	97	109	10:01:35.600	488AV6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,919,376:17:0	
437	97	109	10:07:38.933	488AV6B	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,919,382:16:0	
438	97	109	10:32:03.600	488AV6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,919,406:29:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
439	97	109	10:46:02.933	488AV6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,919,420:14:0	
440	97	109	15:02:02.866	488AV6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	3,919,673:31:0	
441	97	109	16:01:46.866	488AW6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	3,919,732:38:0	
442	97	109	16:12:38.866	488AW6B	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	4O0	4	0	3,919,743:15:0	
443	97	109	16:50:50.866	488AW6C	6TMSED	FILL,AL8	Sci, Eng, and D/L Chan	4O0	4	0	3,919,780:86:0	
444	97	109	17:18:44.866	488AW6D	6TMSED	NORM,AL8	Sci, Eng, and D/L Chan	4O0	4	0	3,919,808:49:0	
445	97	109	18:33:14.866	488AW6E	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	3,919,882:20:0	
446	97	109	23:44:42.866	488AX6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	3,920,190:24:0	
447	97	110	00:59:22.866	488AX6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	3,920,264:10:0	
448	97	110	02:09:46.866	488AX6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,920,333:67:0	
449	97	110	02:39:02.866	488AX6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,920,362:62:0	
450	97	110	02:43:54.866	488AX6E	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,920,367:45:0	
451	97	110	03:06:08.866	488AY6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,920,389:44:0	
452	97	110	03:30:50.866	488AY6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,920,413:83:0	
453	97	110	04:24:07.533	488AY6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,920,466:55:0	
454	97	110	04:56:11.533	488AY6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,920,498:29:0	
455	97	110	05:32:26.866	488AY6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,920,534:16:0	
456	97	110	08:38:02.866	488AZ6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,920,717:67:0	
457	97	110	09:59:56.866	488AZ6B	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,920,798:67:0	
458	97	110	10:09:46.866	488AZ6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,920,808:42:0	
459	97	110	10:21:10.866	488AZ6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,920,819:67:0	
460	97	110	10:26:50.866	488AZ6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,920,825:31:0	
461	97	110	11:26:34.866	488BA6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,920,884:38:0	
462	97	110	11:36:10.200	488BA6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,920,893:82:0	
463	97	110	12:09:49.533	488BA6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,920,927:17:0	
464	97	110	15:02:02.866	488BA6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	3,921,097:47:0	
465	97	110	16:31:38.866	488BA6E	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	3,921,186:12:0	
466	97	110	17:24:40.200	488BB6A	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	4O0	4	0	3,921,238:52:0	
467	97	110	17:27:06.866	488BB6B	6TMSED	FILL,AL8	Sci, Eng, and D/L Chan	4O0	4	0	3,921,240:90:0	
468	97	110	17:28:46.866	488BB6C	6TMSED	NORM,AL8	Sci, Eng, and D/L Chan	4O0	4	0	3,921,242:58:0	
469	97	110	18:24:42.800	488BB6D	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	3,921,297:87:0	
470	97	110	20:11:39.466	488BB6E	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	4O0	4	0	3,921,403:66:0	
471	97	110	20:31:12.800	488BC6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	3,921,423:06:0	
472	97	111	00:08:10.800	488BC6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	3,921,637:59:0	
473	97	111	00:52:58.800	488BC6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	3,921,681:87:0	
474	97	111	02:09:46.800	488BC6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,921,757:83:0	
475	97	111	02:39:38.800	488BD6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,921,787:41:0	
476	97	111	02:56:42.800	488BD6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,921,804:30:0	
477	97	111	03:37:14.800	488BD6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,921,844:38:0	
478	97	111	09:53:00.133	488BE6A	6TMSED	NORM,AH4	Sci, Eng, and D/L Chan	4O0	4	0	3,922,216:04:0	
479	97	111	09:54:58.800	176SL6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	4O0	4	0	3,922,218:00:0	
480	97	111	09:59:06.800	488BE6B	6TMSED	NORM,AH3	Sci, Eng, and D/L Chan	4O0	4	0	3,922,222:08:0	
481	97	111	10:31:06.800	488BE6C	6TMSED	NORM,AH4	Sci, Eng, and D/L Chan	4O0	4	0	3,922,253:67:0	
482	97	111	12:30:00.133	474AB416A4B	**7MODE**	**INT**	AACS INERTIAL MODE	4O0	4	0	3,922,371:29:0	
483	97	111	12:32:00.133	474AB416A4D	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	4O0	4	0	3,922,373:27:0	
484	97	111	12:36:14.133	474AB416A4E	7BURN	SZ,84.1333,-63.9	ALERT -- Thruster fire	4O0	4	0	3,922,377:44:0	
485	97	111	12:57:51.466	474AB416A4G	7BURN	T,84.1333,-63.97	ALERT -- Thruster fire	4O0	4	0	3,922,398:79:0	
486	97	111	14:05:27.466	474AB416A4N	**7MODE**	**CRU**	AACS CRUISE MODE	4O0	4	0	3,922,465:66:0	
487	97	111	15:00:00.133	488BE6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,922,519:61:0	
488	97	111	15:02:02.800	488BE6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	3,922,521:63:0	
489	97	111	15:09:59.466	432ON431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	4O0	4	0	3,922,529:50:0	
490	97	111	15:10:00.133	432ON6A	6RTSL1		R/T Select of DDS and	4O0	4	0	3,922,529:51:0	
491	97	111	15:16:04.133	20WF4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	4O0	4	0	3,922,535:51:0	
492	97	111	15:16:54.133	20WF4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	3,922,536:35:0	
493	97	111	15:19:32.800	176SM6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	3,922,539:00:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
494	97	111	15:27:38.800	488BF6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	3,922,547:01:0
495	**97**	**111**	**15:59:58.133**	**432JC6B**	**6RTDS2**	**NIMNCG,AACDSL,RT**	**AACS DESELECT**	**4O0**	**4**	**0**	**3,922,578:89:0**
496	97	111	16:39:52.800	488BF6B	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	4O0	4	0	3,922,618:41:0
497	97	111	16:42:18.800	488BF6C	6TMSED	FILL,AL8	Sci, Eng, and D/L Chan	4O0	4	0	3,922,620:78:0
498	97	111	16:43:58.800	488BF6D	6TMSED	NORM,AL8	Sci, Eng, and D/L Chan	4O0	4	0	3,922,622:46:0
499	97	111	18:58:50.800	488BF6E	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	3,922,755:81:0
500	97	111	21:34:40.133	176SN6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	4O0	4	0	3,922,910:00:0
501	97	111	21:38:50.800	488BG6A	6TMSED	NORM,BA6	Sci, Eng, and D/L Chan	4O0	4	0	3,922,914:12:0
502	97	111	21:43:00.133	20UE4F	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	4O0	4	0	3,922,918:22:0
503	97	111	21:47:00.133	20UE4G	7STAT	17.45,0.0,90.0	Stator inertial point	4O0	4	0	3,922,922:18:0
504	97	112	00:41:04.066	20WH4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	4O0	4	0	3,923,094:32:0
505	97	112	00:41:54.066	20WH4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	3,923,095:16:0
506	97	112	00:45:00.066	488BG6B	6TMSED	NORM,BL6	Sci, Eng, and D/L Chan	4O0	4	0	3,923,098:22:0
507	97	112	00:46:00.066	488BG6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	3,923,099:21:0
508	97	112	00:49:48.733	176SP6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	3,923,103:00:0
509	97	112	00:52:58.733	488BG6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	3,923,106:12:0
510	97	112	02:09:46.733	488BG6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,923,182:08:0
511	97	112	02:39:38.733	488BH6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,923,211:57:0
512	97	112	03:11:38.733	488BH6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,923,243:25:0
513	97	112	04:13:52.733	488BH6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,923,304:75:0
514	97	112	04:41:14.733	488BH6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,923,331:81:0
515	97	112	04:45:04.066	488BH6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,923,335:61:0
516	97	112	09:18:34.733	488BI6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,923,606:16:0
517	97	112	10:22:34.733	488BI6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,923,669:43:0
518	97	112	11:30:54.066	488BI6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,923,737:04:0
519	97	112	11:56:08.066	176BI6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	4O0	4	0	3,923,762:00:0
520	97	112	11:59:08.733	165BO4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4O0	4	0	3,923,764:89:0
521	97	112	11:59:09.400	165BO4B	7SCAN	NORM,317.743999,	Check S/P Position	4O0	4	0	3,923,764:90:0
522	97	112	11:59:33.400	488BI6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,923,765:35:0
523	97	112	12:03:13.400	20UO4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	4O0	4	0	3,923,769:01:0
524	97	112	12:03:42.733	432BH6A	6RTSL1		R/T Select of DDS and	4O0	4	0	3,923,769:45:0
525	97	112	12:04:03.400	20UO4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	3,923,769:76:0
526	97	112	12:05:14.066	176BJ6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	3,923,771:00:0
527	97	112	13:17:30.733	488BI6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	3,923,842:44:0
528	97	112	14:57:46.733	488BJ6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	3,923,941:59:0
529	97	112	15:12:42.733	488BJ6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	3,923,956:38:0
530	97	112	16:33:28.733	488BJ6C	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	4O0	4	0	3,924,036:27:0
531	97	112	16:35:54.733	488BJ6D	6TMSED	FILL,AL8	Sci, Eng, and D/L Chan	4O0	4	0	3,924,038:64:0
532	97	112	16:37:34.733	488BJ6E	6TMSED	NORM,AL8	Sci, Eng, and D/L Chan	4O0	4	0	3,924,040:32:0
533	97	112	18:54:34.733	488BK6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	3,924,175:77:0
534	97	113	00:40:10.733	488BK6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	3,924,517:59:0
535	97	113	00:59:22.733	488BL6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	3,924,536:58:0
536	97	113	02:09:46.733	488BL6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,924,606:24:0
537	97	113	02:33:14.733	488BL6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,924,629:43:0
538	97	113	02:52:26.733	488BL6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,924,648:42:0
539	97	113	03:15:54.733	488BL6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,924,671:61:0
540	97	113	09:48:26.666	488BM6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,925,059:81:0
541	97	113	10:16:10.666	488BM6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,925,087:29:0
542	97	113	12:41:14.666	488BM6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	3,925,230:72:0
543	97	113	13:23:00.000	488BM6D	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	4O0	4	0	3,925,272:08:0
544	97	113	13:24:56.000	176ST6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	4O0	4	0	3,925,274:00:0
545	97	113	13:32:00.000	20UD4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	3,925,280:90:0
546	97	113	13:33:00.000	20UD4D	**7MODE**	**SPNL**	AACS ALL-SPIN LOW	4O0	4	0	3,925,281:89:0
547	97	113	13:35:00.000	20UD4E	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	4O0	4	0	3,925,283:87:0
548	97	113	13:40:30.000	20UD4G	7VENT	0.611,1.333,8	ALERT -- Thruster fire	4O0	4	0	3,925,289:36:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
549	97	113	13:40:30.666	20UD4H	7VENT	0.611,10.989,8	ALERT -- Thruster fire	4O0	4	0	3,925,289	37:0
550	97	113	13:40:50.666	20UD4I	7VENT	0.611,1.333,6	ALERT -- Thruster fire	4O0	4	0	3,925,289	67:0
551	97	113	13:40:51.333	20UD4J	7VENT	0.611,10.989,6	ALERT -- Thruster fire	4O0	4	0	3,925,289	68:0
552	97	113	13:41:11.333	20UD4K	7VENT	0.611,1.333,4	ALERT -- Thruster fire	4O0	4	0	3,925,290	07:0
553	97	113	13:41:12.000	20UD4L	7VENT	0.611,0.666,5	ALERT -- Thruster fire	4O0	4	0	3,925,290	08:0
554	97	113	13:41:22.000	20UD4M	7VENT	0.611,1.333,4	ALERT -- Thruster fire	4O0	4	0	3,925,290	23:0
555	97	113	13:41:22.666	20UD4N	7VENT	0.611,0.666,5	ALERT -- Thruster fire	4O0	4	0	3,925,290	24:0
556	97	113	13:41:32.666	20UD4O	7VENT	1.211,1.333,10	ALERT -- Thruster fire	4O0	4	0	3,925,290	39:0
557	97	113	13:41:33.333	20UD4P	7VENT	1.211,0.666,12	ALERT -- Thruster fire	4O0	4	0	3,925,290	40:0
558	97	113	13:43:20.000	20UD4S	7VENT	0.611,1.333,7	ALERT -- Thruster fire	4O0	4	0	3,925,292	18:0
559	97	113	13:43:20.666	20UD4T	7VENT	0.611,10.989,7	ALERT -- Thruster fire	4O0	4	0	3,925,292	19:0
560	97	113	13:43:40.666	20UD4U	7VENT	0.611,1.333,1	ALERT -- Thruster fire	4O0	4	0	3,925,292	49:0
561	97	113	13:43:41.333	20UD4V	7VENT	0.611,10.989,1	ALERT -- Thruster fire	4O0	4	0	3,925,292	50:0
562	97	113	13:44:01.333	20UD4AC	7VENT	0.611,1.333,2	ALERT -- Thruster fire	4O0	4	0	3,925,292	80:0
563	97	113	13:44:02.000	20UD4AD	7VENT	0.611,0.666,3	ALERT -- Thruster fire	4O0	4	0	3,925,292	81:0
564	97	113	13:44:12.000	20UD4AE	7VENT	0.611,1.333,2	ALERT -- Thruster fire	4O0	4	0	3,925,293	05:0
565	97	113	13:44:12.666	20UD4AF	7VENT	0.611,0.666,3	ALERT -- Thruster fire	4O0	4	0	3,925,293	06:0
566	97	113	13:44:22.666	20UD4W	7VENT	1.211,1.333,9	ALERT -- Thruster fire	4O0	4	0	3,925,293	21:0
567	97	113	13:44:23.333	20UD4X	7VENT	1.211,0.666,11	ALERT -- Thruster fire	4O0	4	0	3,925,293	22:0
568	97	113	13:45:20.000	20UD4Z	**7MODE**	**CRU**	AACS CRUISE MODE	4O0	4	0	3,925,294	16:0
569	97	113	14:15:28.000	165BP4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4O0	4	0	3,925,323	89:0
570	97	113	14:15:28.666	165BP4B	7SCAN	NORM,317.743999,	Check S/P Position	4O0	4	0	3,925,323	90:0
571	97	113	14:19:32.666	20UF4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	4O0	4	0	3,925,328	01:0
572	97	113	14:20:02.000	432BJ6A	6RTSL1		R/T Select of DDS and	4O0	4	0	3,925,328	45:0
573	97	113	14:20:22.666	20UF4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	3,925,328	76:0
574	97	113	14:21:33.333	176BL6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	3,925,330	00:0
575	97	113	14:51:22.666	488BM6E	6TMSED	NORM,AH6	Sci, Eng, and D/L Chan	4O0	4	0	3,925,359	45:0
576	97	113	15:02:02.666	488BN6A	6TMSED	NORM,AH7	Sci, Eng, and D/L Chan	4O0	4	0	3,925,370	04:0
577	97	113	15:31:00.000	488BN6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	3,925,398	62:0
578	97	113	16:35:36.666	488BN6C	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	4O0	4	0	3,925,462	53:0
579	97	113	16:38:02.666	488BN6D	6TMSED	FILL,AL8	Sci, Eng, and D/L Chan	4O0	4	0	3,925,464	90:0
580	97	113	16:39:42.666	488BN6E	6TMSED	NORM,AL8	Sci, Eng, and D/L Chan	4O0	4	0	3,925,466	58:0
581	97	113	18:48:10.666	488BO6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	3,925,593	63:0
582	97	114	00:44:26.666	488BO6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	3,925,946	04:0
583	97	114	01:03:38.666	488BP6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	3,925,965	03:0
584	97	114	02:09:46.666	488BP6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,926,030	40:0
585	97	114	02:33:14.666	488BP6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,926,053	59:0
586	97	114	03:03:06.666	488BP6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,926,083	17:0
587	97	114	04:02:50.666	488BP6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,926,142	24:0
588	97	114	04:10:41.333	488BQ6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,926,150	02:0
589	97	114	04:39:20.666	488BQ6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,926,178	33:0
590	97	114	08:52:02.666	488BQ6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,926,428	26:0
591	97	114	08:59:22.666	488BQ6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,926,435	49:0
592	97	114	09:56:42.666	488BQ6E	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,926,492	22:0
593	97	114	10:01:14.666	488BR6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,926,496	66:0
594	97	114	10:23:34.666	488BR6B	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,926,518	74:0
595	97	114	10:50:18.666	488BR6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,926,545	23:0
596	97	114	10:54:38.666	488BR6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,926,549	49:0
597	97	114	11:25:38.000	488BR6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,926,580	17:0
598	97	114	11:54:17.333	488BS6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,926,608	48:0
599	97	114	14:51:22.600	488BS6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	3,926,783	61:0
600	97	114	15:27:38.600	488BS6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	3,926,819	49:0
601	97	114	16:29:12.600	488BS6D	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	4O0	4	0	3,926,880	39:0
602	97	114	16:31:38.600	488BS6E	6TMSED	FILL,AL8	Sci, Eng, and D/L Chan	4O0	4	0	3,926,882	76:0
603	97	114	16:33:18.600	488BT6A	6TMSED	NORM,AL8	Sci, Eng, and D/L Chan	4O0	4	0	3,926,884	44:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
604	97	114	18:50:18.600	488BT6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	3,927,019:89:0	
605	97	114	20:01:07.933	488BT6C	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	4O0	4	0	3,927,090:02:0	
606	97	114	20:20:40.600	488BT6D	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	3,927,109:32:0	
607	97	115	00:44:26.600	488BU6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	3,927,370:20:0	
608	97	115	01:10:02.600	488BU6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	3,927,395:49:0	
609	97	115	02:09:46.600	488BU6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,927,454:56:0	
610	97	115	02:28:58.600	488BU6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,927,473:55:0	
611	97	115	02:48:10.600	488BU6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,927,492:54:0	
612	97	115	03:03:06.600	488BV6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,927,507:33:0	
613	97	115	09:39:54.600	488BW6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,927,899:73:0	
614	97	115	10:03:22.600	488BW6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,927,923:01:0	
615	97	115	11:56:26.600	488BW6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	3,928,034:76:0	
616	97	115	14:47:06.600	488BW6D	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	3,928,203:57:0	
617	97	115	16:29:12.600	488BX6A	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	4O0	4	0	3,928,304:55:0	
618	97	115	16:31:38.600	488BX6B	6TMSED	FILL,AL8	Sci, Eng, and D/L Chan	4O0	4	0	3,928,307:01:0	
619	97	115	16:33:18.600	488BX6C	6TMSED	NORM,AL8	Sci, Eng, and D/L Chan	4O0	4	0	3,928,308:60:0	
620	97	115	18:43:54.533	488BX6D	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	3,928,437:75:0	
621	97	116	00:40:10.533	488BY6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	3,928,790:16:0	
622	97	116	01:14:18.533	488BY6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	3,928,823:85:0	
623	97	116	02:09:46.533	488BY6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,928,878:72:0	
624	97	116	02:24:42.533	488BY6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,928,893:51:0	
625	97	116	02:54:34.533	488BY6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,928,923:09:0	
626	97	116	03:37:14.533	488BZ6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,928,965:27:0	
627	97	116	04:00:24.533	488BZ6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,928,988:19:0	
628	97	116	04:29:03.200	488BZ6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,929,016:49:0	
629	97	116	09:33:30.533	488BZ6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,929,317:59:0	
630	97	116	09:59:06.533	488CA6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,929,342:88:0	
631	97	116	11:15:22.533	488CA6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,929,418:36:0	
632	97	116	11:41:30.533	488CA6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	3,929,444:22:0	
633	97	116	11:43:17.866	488CA6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	3,929,446:01:0	
634	97	116	14:42:50.533	488CA6E	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	3,929,623:53:0	
635	97	116	16:24:56.533	488CB6A	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	4O0	4	0	3,929,724:51:0	
636	97	116	16:27:22.533	488CB6B	6TMSED	FILL,AL8	Sci, Eng, and D/L Chan	4O0	4	0	3,929,726:88:0	
637	97	116	16:29:02.533	488CB6C	6TMSED	NORM,AL8	Sci, Eng, and D/L Chan	4O0	4	0	3,929,728:56:0	
638	97	116	18:43:54.533	488CB6D	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	3,929,862:00:0	
639	97	117	00:33:46.466	488CC6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	3,930,208:02:0	
640	97	117	01:14:18.466	488CC6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	3,930,248:10:0	
641	97	117	02:09:46.466	488CC6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,930,302:88:0	
642	97	117	02:24:42.466	488CC6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,930,317:67:0	
643	97	117	02:52:26.466	488CC6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,930,345:15:0	
644	97	117	09:35:38.466	488CD6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,930,743:85:0	
645	97	117	09:59:06.466	488CD6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,930,767:13:0	
646	97	117	11:26:34.466	488CD6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	3,930,853:59:0	
647	97	117	14:42:50.466	488CD6D	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	3,931,047:69:0	
648	97	117	16:20:40.466	488CE6A	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	4O0	4	0	3,931,144:47:0	
649	97	117	16:23:06.466	488CE6B	6TMSED	FILL,AL8	Sci, Eng, and D/L Chan	4O0	4	0	3,931,146:84:0	
650	97	117	16:24:46.466	488CE6C	6TMSED	NORM,AL8	Sci, Eng, and D/L Chan	4O0	4	0	3,931,148:52:0	
651	97	117	18:39:38.466	488CE6D	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	3,931,281:87:0	
652	97	118	00:33:46.466	488CF6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	3,931,632:18:0	
653	97	118	01:14:18.466	488CF6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	3,931,672:26:0	
654	97	118	02:05:30.466	488CF6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,931,722:84:0	
655	97	118	02:20:26.466	488CF6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,931,737:63:0	
656	97	118	02:41:46.466	488CF6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,931,758:72:0	
657	97	118	06:12:58.466	488CG6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	3,931,967:61:0	
658	97	118	06:59:54.400	488CG6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,932,014:08:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
659	97	118	09:29:14.400	488CG6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,932,161:71:0
660	97	118	09:52:42.400	488CG6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,932,184:90:0
661	97	118	11:18:02.400	488CG6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	3,932,269:35:0
662	97	118	14:38:34.400	488CH6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	3,932,467:65:0
663	97	118	16:20:40.400	488CH6B	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	4O0	4	0	3,932,568:63:0
664	97	118	16:23:06.400	488CH6C	6TMSED	FILL,AL8	Sci, Eng, and D/L Chan	4O0	4	0	3,932,571:09:0
665	97	118	16:24:46.400	488CH6D	6TMSED	NORM,AL8	Sci, Eng, and D/L Chan	4O0	4	0	3,932,572:68:0
666	97	118	18:35:22.400	488CH6E	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	3,932,701:83:0
667	97	119	00:29:30.400	488CI6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	3,933,052:14:0
668	97	119	01:14:18.400	488CI6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	3,933,096:42:0
669	97	119	02:05:30.400	488CI6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,933,147:09:0
670	97	119	02:14:02.400	488CI6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,933,155:49:0
671	97	119	02:37:30.400	488CI6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,933,178:68:0
672	97	119	05:28:10.400	488CJ6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	3,933,347:49:0
673	97	119	07:40:26.400	488CJ6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,933,478:32:0
674	97	119	09:29:14.400	488CJ6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,933,585:87:0
675	97	119	10:03:22.400	488CJ6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,933,619:65:0
676	97	119	11:04:56.400	488CJ6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,933,680:55:0
677	97	119	11:33:35.733	488CK6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,933,708:86:0
678	97	119	14:32:10.333	488CK6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	3,933,885:51:0
679	97	119	14:42:50.333	488CK6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	3,933,896:10:0
680	97	119	16:16:24.333	488CK6D	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	4O0	4	0	3,933,988:59:0
681	97	119	16:18:50.333	488CK6E	6TMSED	FILL,AL8	Sci, Eng, and D/L Chan	4O0	4	0	3,933,991:05:0
682	97	119	16:20:30.333	488CL6A	6TMSED	NORM,AL8	Sci, Eng, and D/L Chan	4O0	4	0	3,933,992:64:0
683	97	119	17:53:19.000	432BL6A	6RTSL1		R/T Select of DDS and	4O0	4	0	3,934,084:45:0
684	97	119	18:35:22.333	488CL6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	3,934,126:08:0
685	97	119	19:40:25.666	488CL6C	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	4O0	4	0	3,934,190:39:0
686	97	119	19:59:59.000	488CL6D	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	3,934,209:70:0
687	97	120	00:25:14.333	488CM6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	3,934,472:10:0
688	97	120	01:14:18.333	488CM6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	3,934,520:58:0
689	97	120	02:05:30.333	488CM6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,934,571:25:0
690	97	120	02:33:14.333	488CM6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,934,598:64:0
691	97	120	05:08:58.333	488CM6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	3,934,752:66:0
692	97	120	07:55:22.333	488CN6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,934,917:27:0
693	97	120	09:24:58.333	488CN6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,935,005:83:0
694	97	120	09:56:58.333	488CN6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,935,037:51:0
695	97	120	10:59:47.000	488CN6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,935,099:62:0
696	97	120	11:28:26.333	488CN6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,935,128:02:0
697	97	120	14:32:10.333	488CO6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	3,935,309:67:0
698	97	120	14:38:34.333	488CO6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	3,935,316:06:0
699	**97**	**120**	**15:43:19.666**	**31M3A**	**37AR**	**1**	**NIMS Power OFF**				**3,935,380:10:0**
700	**97**	**120**	**15:43:27.666**	**31M3B**	**37AR**	**2**	**NIMS Power OFF**				**3,935,380:22:0**
701	**97**	**120**	**15:48:27.666**	**31M3C**	**37A**	**1**	**NIMS Power ON**	**260**	**4**	**0**	**3,935,385:17:0**
702	**97**	**120**	**15:48:35.666**	**31M3D**	**37A**	**2**	**NIMS Power ON**	**260**	**4**	**0**	**3,935,385:29:0**
703	**97**	**120**	**15:53:36.333**	**31A5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**260**	**4**	**0**	**3,935,390:25:0**
704	**97**	**120**	**15:54:37.000**	**31A5B**	**37MRL**		**Memory Realocate (software operates from R**	**260**	**4**	**0**	**3,935,391:25:0**
705	**97**	**120**	**15:55:37.666**	**31A6A,**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**260**	**4**	**0**	**3,935,392:25:0**
706	**97**	**120**	**15:56:38.333**	**31A6B,**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**260**	**4**	**0**	**3,935,393:25:0**
707	**97**	**120**	**15:57:59.000**	**31A6C,**	**6CKSUM**	**NIMS**	**NIMS,1000,14B3**	**260**	**4**	**0**	**3,935,394:55:0**
708	97	120	15:58:19.000	31A6D,	6MROH		12 read from LLM1A12,2282,0,A2	260	4	0	3,935,394:85:0
709	97	120	16:10:00.333	488CO6C	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	260	4	0	3,935,406:45:0
710	97	120	16:12:26.333	488CO6D	6TMSED	FILL,AL8	Sci, Eng, and D/L Chan	260	4	0	3,935,408:82:0
711	97	120	16:14:06.333	488CO6E	6TMSED	NORM,AL8	Sci, Eng, and D/L Chan	260	4	0	3,935,410:50:0
712	**97**	**120**	**16:19:53.666**	**31A5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**3,935,416:25:0**
713	**97**	**120**	**16:26:39.000**	**31N5A**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**3,935,422:87:0**

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
714	97	120	18:31:06.333	488CP6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	260	4	0	3,935,546:04:0	
715	97	120	19:04:56.266	488CP6B	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	260	4	0	3,935,579:46:0	
716	97	120	19:07:22.266	488CP6C	6TMSED	FILL,AL8	Sci, Eng, and D/L Chan	260	4	0	3,935,581:83:0	
717	97	120	19:09:02.266	488CP6D	6TMSED	NORM,AL8	Sci, Eng, and D/L Chan	260	4	0	3,935,583:51:0	
718	97	120	19:40:58.266	488CP6E	6TMSED	FILL,AL8	Sci, Eng, and D/L Chan	260	4	0	3,935,615:13:0	
719	97	120	19:59:22.933	488CQ6A	6TMSED	NORM,AL8	Sci, Eng, and D/L Chan	260	4	0	3,935,633:32:0	
720	97	120	21:26:02.266	488CQ6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	260	4	0	3,935,719:05:0	
721	97	121	00:25:14.266	488CQ6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	260	4	0	3,935,896:26:0	
722	**97**	**121**	**00:54:21.733**	**G7NNOPCAL_01-**		**-----START------**		**260**	**4**	**0**	**: :**	
723	97	121	00:58:14.266	125DN	NIMSINIT	GS	##### GROUP START INIT	260	4	0	3,935,928:84:0	
724	**97**	**121**	**00:58:14.266**	**125DN4A**	**37IST**	**1,0,0,OFF,0,0,0**	**Chopper ON, Sync, 63Hz (Ref)**	**260**	**4**	**0**	**3,935,928:84:0**	
725	**97**	**121**	**00:59:14.933**	**125DN4B**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**3,935,929:84:0**	
726	97	121	00:59:14.933	125DN11A	NIMSINIT	GE	##### GROUP END INIT	2R0	4	0	3,935,929:84:0	
727	**97**	**121**	**01:03:17.600**	**125DA4A**	**37IST**	**0,0,0,OFF,0,1,1**	**Gain State 4**	**4R0**	**4**	**0**	**3,935,933:84:0**	
728	97	121	01:03:17.600	125DA	NIMSINIT	GS	##### GROUP START INIT	4R0	4	0	3,935,933:84:0	
729	97	121	01:04:18.266	125DA11A	NIMSINIT	GE	##### GROUP END INIT	4R0	4	0	3,935,934:84:0	
730	**97**	**121**	**01:04:18.266**	**125DA4B**	**37MB**	**1B,1B,0,0,0,0**	**Selects mirror (spatial) edit table**	**4R0**	**4**	**0**	**3,935,934:84:0**	
731	97	121	01:07:20.266	127DA	NIMSTAB	GS	%%%%% GROUP START TAB	4R0	4	0	3,935,937:84:0	
732	**97**	**121**	**01:07:20.266**	**127DA4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**4R3**	**4**	**0**	**3,935,937:84:0**	
733	**97**	**121**	**01:07:20.933**	**127DA4B**	**37ETB**	**07,C7,31,87,00,0**	**Loads wavelength edit table**	**4R3**	**4**	**0**	**3,935,937:85:0**	
734	97	121	01:07:30.266	127DA11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	3,935,938:08:0	
735	**97**	**121**	**01:08:21.600**	**33D4A**	**37ETB**	**07,C7,31,E7,00,0**	**Loads wavelength edit table**	**4R3**	**4**	**0**	**3,935,938:85:0**	
736	**97**	**121**	**01:08:45.600**	**432DA6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**	**NIMS R/T SELECT**	**4R3**	**4**	**0**	**3,935,939:30:0**	
737	97	121	01:09:21.600	125DI11A	NIMSINIT	GE	##### GROUP END INIT	4R3	4	0	3,935,939:84:0	
738	**97**	**121**	**01:09:21.600**	**125DI4A**	**37IST**	**0,2,1,OFF,1,0,1**	**OPCAL**	**4R3**	**4**	**0**	**3,935,939:84:0**	
739	97	121	01:09:21.600	125DI	NIMSINIT	GS	##### GROUP START INIT	4R3	4	0	3,935,939:84:0	
740	**97**	**121**	**01:11:22.933**	**125DJ4A**	**37IST**	**0,2,1,OFF,1,0,1**	**OPCAL**	**4R3**	**4**	**0**	**3,935,941:84:0**	
741	97	121	01:11:22.933	125DJ11A	NIMSINIT	GE	##### GROUP END INIT	4R3	4	0	3,935,941:84:0	
742	97	121	01:11:22.933	125DJ	NIMSINIT	GS	##### GROUP START INIT	4R3	4	0	3,935,941:84:0	
743	**97**	**121**	**01:11:46.266**	**432DI6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**4R3**	**4**	**0**	**3,935,942:28:0**	
744	97	121	01:12:23.600	125EU	NIMSINIT	GS	##### GROUP START INIT	4R3	4	0	3,935,942:84:0	
745	97	121	01:12:23.600	125EU11A	NIMSINIT	GE	##### GROUP END INIT	4R3	4	0	3,935,942:84:0	
746	**97**	**121**	**01:12:23.600**	**125EU4A**	**37MB**	**0,0,0,0,0,0**	**Selects mirror (spatial) edit table**	**4R3**	**4**	**0**	**3,935,942:84:0**	
747	97	121	01:13:24.266	127DX	NIMSTAB	GS	%%%%% GROUP START TAB	4R3	4	0	3,935,943:84:0	
748	**97**	**121**	**01:13:24.266**	**127DX4A**	**37IOP**	**0,0**	**Safe, Grating Start Position =00**	**4R0**	**4**	**0**	**3,935,943:84:0**	
749	**97**	**121**	**01:13:24.933**	**127DX4B**	**37ETB**	**04,C4,02,00,00**	**Loads wavelength edit table**	**4R0**	**4**	**0**	**3,935,943:85:0**	
750	97	121	01:13:34.266	127DX11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R0	4	0	3,935,944:08:0	
751	97	121	01:14:18.266	488CQ6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4R0	4	0	3,935,944:74:0	
752	**97**	**121**	**01:14:24.933**	**125FZ4A**	**37IST**	**1,0,0,OFF,0,0,0**	**Chopper ON, Sync, 63Hz (Ref)**	**460**	**4**	**0**	**3,935,944:84:0**	
753	97	121	01:14:24.933	125FZ	NIMSINIT	GS	##### GROUP START INIT	460	4	0	3,935,944:84:0	
754	97	121	01:15:25.600	125FZ11A	NIMSINIT	GE	##### GROUP END INIT	460	4	0	3,935,945:84:0	
755	**97**	**121**	**01:15:25.600**	**125FZ4B**	**37IST**	**1,1,0,OFF,0,0,0**	**Chopper OFF, N/A, 63Hz (Ref)**	**4O0**	**4**	**0**	**3,935,945:84:0**	
756	**97**	**121**	**01:16:36.400**	**G7NNOPCAL_01-**		**-----STOP-------**		**4O0**	**4**	**0**	**: :**	
757	97	121	02:01:14.266	488CR6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,935,991:21:0	
758	97	121	02:05:13.600	488CR6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,935,995:16:0	
759	97	121	02:09:46.266	488CR6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,935,999:61:0	
760	97	121	02:32:39.600	488CR6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,936,022:28:0	
761	97	121	02:37:30.266	488CR6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,936,027:09:0	
762	97	121	02:58:50.266	488CS6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,936,048:18:0	
763	97	121	03:49:40.933	488CS6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,936,098:44:0	
764	97	121	04:18:20.266	488CS6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,936,126:75:0	
765	97	121	09:23:42.933	488CT6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,936,428:77:0	
766	97	121	09:33:30.266	488CT6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	3,936,438:48:0	
767	97	121	14:30:37.600	488CT6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	3,936,732:35:0	
768	97	121	15:08:26.266	488CT6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	3,936,769:71:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
769	97	121	16:08:10.266	488CU6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	3,936,828:78:0	
770	97	121	18:20:08.266	488CU6B	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	4O0	4	0	3,936,959:34:0	
771	97	121	18:22:34.266	488CU6C	6TMSED	FILL,AL8	Sci, Eng, and D/L Chan	4O0	4	0	3,936,961:71:0	
772	97	121	18:24:14.266	488CU6D	6TMSED	NORM,AL8	Sci, Eng, and D/L Chan	4O0	4	0	3,936,963:39:0	
773	97	121	22:04:26.266	488CU6E	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	3,937,181:19:0	
774	97	122	00:00:00.266	481UH4A	7VECT		Inert vect update UTC	4O0	4	0	3,937,295:46:0	
775	97	122	00:20:58.266	488CV6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	3,937,316:22:0	
776	97	122	01:16:26.200	488CV6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	3,937,371:09:0	
777	97	122	02:00:00.200	481AI4A	7VECT		Inert vect update UTC	4O0	4	0	3,937,414:17:0	
778	97	122	02:01:14.200	488CV6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,937,415:37:0	
779	97	122	02:22:34.200	488CV6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,937,436:46:0	
780	97	122	02:48:10.200	488CV6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,937,461:75:0	
781	97	122	03:39:32.200	488CW6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,937,512:57:0	
782	97	122	04:08:11.533	488CW6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,937,540:88:0	
783	97	122	09:20:42.200	488CW6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,937,850:04:0	
784	97	122	09:48:26.200	488CX6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,937,877:43:0	
785	97	122	10:54:29.533	488CX6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,937,942:73:0	
786	97	122	11:23:08.200	488CX6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,937,971:12:0	
787	97	122	14:23:38.200	488CX6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	3,938,149:59:0	
788	97	122	14:27:54.200	488CX6E	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	3,938,153:79:0	
789	97	122	16:05:44.200	488CY6A	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	4O0	4	0	3,938,250:57:0	
790	97	122	16:08:10.200	488CY6B	6TMSED	FILL,AL8	Sci, Eng, and D/L Chan	4O0	4	0	3,938,253:03:0	
791	97	122	16:09:50.200	488CY6C	6TMSED	NORM,AL8	Sci, Eng, and D/L Chan	4O0	4	0	3,938,254:62:0	
792	97	122	18:00:21.533	432JD431A6A	6RCDSL	DDSNCG,PLSDSL,EP	Record Deselect (DDS o	4O0	4	0	3,938,363:90:0	
793	**97**	**122**	**18:00:22.200**	**432JD6B**	**6RTSL2**	**NIMNCG,AACSEL,RT**	**AACS SELECT**	**4O0**	**4**	**0**	**3,938,364:00:0**	
794	97	122	18:00:22.200	432JD6A	6RTSL1		R/T Select of DDS and	4O0	4	0	3,938,364:00:0	
795	97	122	19:30:40.200	488CY6D	6TMSED	FILL,AL8	Sci, Eng, and D/L Chan	4O0	4	0	3,938,453:28:0	
796	97	122	19:49:04.866	488CY6E	6TMSED	NORM,AL8	Sci, Eng, and D/L Chan	4O0	4	0	3,938,471:47:0	
797	97	122	22:21:30.200	488CZ6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	3,938,622:24:0	
798	97	123	00:14:34.200	488CZ6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	3,938,734:08:0	
799	97	123	01:16:26.200	488CZ6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	3,938,795:25:0	
800	97	123	01:54:50.200	488CZ6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,938,833:23:0	
801	97	123	02:18:18.200	488CZ6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,938,856:42:0	
802	97	123	02:43:54.200	488DA6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,938,881:71:0	
803	97	123	03:34:23.533	488DA6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,938,931:65:0	
804	97	123	04:03:02.200	488DA6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,938,960:04:0	
805	97	123	10:33:14.133	488DB6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	3,939,345:87:0	
806	97	123	11:17:06.800	488DB6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	3,939,389:32:0	
807	97	123	11:41:12.800	488DB6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	3,939,413:17:0	
808	97	123	14:12:58.133	488DB6D	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	3,939,563:25:0	
809	97	123	15:25:12.133	488DB6E	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	4O0	4	0	3,939,634:65:0	
810	97	123	15:27:38.133	488DC6A	6TMSED	FILL,AL8	Sci, Eng, and D/L Chan	4O0	4	0	3,939,637:11:0	
811	97	123	15:29:18.133	488DC6B	6TMSED	NORM,AL8	Sci, Eng, and D/L Chan	4O0	4	0	3,939,638:70:0	
812	97	123	15:46:18.133	488DC6C	6TMSED	FILL,AL8	Sci, Eng, and D/L Chan	4O0	4	0	3,939,655:53:0	
813	97	123	16:51:42.800	488DC6D	6TMSED	NORM,AL8	Sci, Eng, and D/L Chan	4O0	4	0	3,939,720:25:0	
814	97	123	17:59:10.800	176SS6A	6TMREC	**TPB**	TERMINATE PLAYBACK (PB CONTROL) Record Mo	4O0	4	0	3,939,787:00:0	
815	97	123	18:02:00.133	488DC6E	6TMSED	NORM,IL8	Sci, Eng, and D/L Chan	4O0	4	0	3,939,789:72:0	
816	97	123	18:07:16.133		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 5765.13 +/-	4O0	4	0	3,939,795:00:0	
817	97	123	18:07:16.133		DMS:	: *SLEW-TIC	P7, TRACK *2, REV, TIC 5765.13 +/-	4O0	4	0	3,939,795:00:0	
818	97	123	18:07:16.133	465WA6A	6DMST	5000	DMS Slew to TIC	4O0	4	0	3,939,795:00:0	
819	97	123	18:07:17.533		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *5765.25 +/-	4O0	4	0	3,939,795:02:1	
820	97	123	18:07:22.800		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *5766.48 +/-	4O0	4	0	3,939,795:10:0	
821	97	123	18:07:24.000		DMS:	: *RUNUP	P7, TRACK *2, *REV, TIC *5766.54 +/-	4O0	4	0	3,939,795:11:8	
822	97	123	18:07:25.400		DMS:	: *AT_SPD	P7, TRACK 2, REV, TIC *5766.42 +/-	4O0	4	0	3,939,795:13:9	
823	97	123	19:01:54.266		DMS:	**: *RUNDOWN**	P7, TRACK 2, REV, TIC *5000.06 +/-	4O0	4	0	3,939,849:03:2	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
824	97	123	19:01:55.466		DMS:	: *READY	RDY, TRACK 2, REV, TIC *5000.00 +/-	4O0	4	0	3,939,849:05:0	
825	97	123	22:25:46.133	488DD6A	6TMSED	NORM,IL7	Sci, Eng, and D/L Chan	4O0	4	0	3,940,050:60:0	
826	97	124	00:00:57.466	465WB6A	6DMSC	P100,4	DMS Control Tape P/B 100.8kbps	4O0	4	0	3,940,144:73:0	
827	97	124	00:00:57.466		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 5000.00 +/-	4O0	4	0	3,940,144:73:0	
828	97	124	00:00:58.866		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *5000.12 +/-	4O0	4	0	3,940,144:75:1	
829	97	124	00:01:04.133		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *5001.35 +/-	4O0	4	0	3,940,144:83:0	
830	97	124	00:01:05.333		DMS:	: *RUNUP	P100, TRACK *4, *REV, TIC *5001.41 +/-	4O0	4	0	3,940,144:84:8	
831	97	124	00:01:09.200		DMS:	: *P_SLEW	P100, TRACK 4, REV, TIC *4995.91 +/-	4O0	4	0	3,940,144:90:6	
832	97	124	00:01:09.200		DMS:	: *AT_SPD	P100, TRACK 4, REV, TIC 4995.91 +/-	4O0	4	0	3,940,144:90:6	
833	97	124	00:10:18.133	488DD6B	6TMSED	NORM,IL6	Sci, Eng, and D/L Chan	4O0	4	0	3,940,154:04:0	
834	97	124	00:15:00.133	488DD6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	3,940,158:63:0	
835	97	124	00:26:49.466		DMS:	**: *RUNDOWN**	P100, TRACK 4, REV, TIC * 257.79 +/-	4O0	4	0	3,940,170:35:0	
836	97	124	00:26:49.466	465WB6B	6DMSC	RDY,4	DMS Control Tape stop	4O0	4	0	3,940,170:35:0	
837	97	124	00:26:50.666		DMS:	: *READY	RDY, TRACK 4, REV, TIC * 256.99 +/-	4O0	4	0	3,940,170:36:8	
838	97	124	01:00:02.800	20BA4A	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	4O0	4	0	3,940,203:22:0	
839	97	124	01:10:02.133	488DD6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	3,940,213:11:0	
840	97	124	01:54:50.133	488DD6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,940,257:39:0	
841	97	124	01:57:02.800	488DE6A	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,940,259:56:0	
842	97	124	02:14:07.466	488DE6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,940,276:46:0	
843	97	124	02:19:00.133	488DE6C	6TMSED	NORM,AH3	Sci, Eng, and D/L Chan	4O0	4	0	3,940,281:30:0	
844	97	124	02:25:38.133		DMS:	: *DMS-TURN	P7, TRACK 4, REV, TIC 256.99 +/-	4O0	4	0	3,940,287:81:0	
845	97	124	02:25:38.133	465WC6A	6DTRN	CMD,6DTRN,465WC6	DMS TRACK TURNAROUND	4O0	4	0	3,940,287:81:0	
846	97	124	02:25:38.133		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 256.99 +/-	4O0	4	0	3,940,287:81:0	
847	97	124	02:25:39.533		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 257.11 +/-	4O0	4	0	3,940,287:83:1	
848	97	124	02:25:44.800		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 258.34 +/-	4O0	4	0	3,940,288:00:0	
849	97	124	02:25:46.000		DMS:	: *RUNUP	P7, TRACK *4, *REV, TIC * 258.40 +/-	4O0	4	0	3,940,288:01:8	
850	97	124	02:25:47.400		DMS:	: *AT_SPD	P7, TRACK 4, REV, TIC * 258.28 +/-	4O0	4	0	3,940,288:03:9	
851	97	124	02:29:58.733		DMS:	: *REVERSE	P7, TRACK 4, REV, TIC * 199.37 +/-	4O0	4	0	3,940,292:16:9	
852	97	124	02:29:59.933		DMS:	: *RUNUP	P7, TRACK 1, FWD, TIC 199.31 +/-	4O0	4	0	3,940,292:18:7	
853	97	124	02:29:59.933		DMS:	: *TURNARND	P7, TRACK *1, *FWD, TIC * 199.31 +/-	4O0	4	0	3,940,292:18:7	
854	97	124	02:30:01.333		DMS:	: *AT_SPD	P7, TRACK 1, FWD, TIC * 199.43 +/-	4O0	4	0	3,940,292:20:8	
855	97	124	02:30:13.333		DMS:	: *AUTOSTOP	P7, TRACK 1, FWD, TIC * 201.56 +/-	4O0	4	0	3,940,292:38:8	
856	97	124	02:30:14.533		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 201.62 +/-	4O0	4	0	3,940,292:40:6	
857	97	124	02:35:40.800	465WD6A	6DMSC	P100,1	DMS Control Tape P/B 100.8kbps	4O0	4	0	3,940,297:75:0	
858	97	124	02:35:40.800		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 201.62 +/-	4O0	4	0	3,940,297:75:0	
859	97	124	02:35:47.466		DMS:	: *RUNUP	P100, TRACK 1, FWD, TIC 201.62 +/-	4O0	4	0	3,940,297:85:0	
860	97	124	02:35:51.333		DMS:	: *AT_SPD	P100, TRACK 1, FWD, TIC 207.12 +/-	4O0	4	0	3,940,297:90:8	
861	97	124	02:35:51.333		DMS:	: *P_SLEW	P100, TRACK 1, FWD, TIC * 207.12 +/-	4O0	4	0	3,940,297:90:8	
862	97	124	02:37:30.133	488DE6D	6TMSED	NORM,AH4	Sci, Eng, and D/L Chan	4O0	4	0	3,940,299:57:0	
863	97	124	03:07:34.800	465WD6B	6DMSC	RDY,1	DMS Control Tape stop	4O0	4	0	3,940,329:34:0	
864	97	124	03:07:34.800		DMS:	**: *RUNDOWN**	P100, TRACK 1, FWD, TIC *6062.51 +/-	4O0	4	0	3,940,329:34:0	
865	97	124	03:07:36.000		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *6063.31 +/-	4O0	4	0	3,940,329:35:8	
866	97	124	03:23:10.800	465WE6A	6DMSC	P100,2	DMS Control Tape P/B 100.8kbps	4O0	4	0	3,940,344:73:0	
867	97	124	03:23:10.800		DMS:	: *US-RUNUP	P7, TRACK 1, FWD, TIC 6063.31 +/-	4O0	4	0	3,940,344:73:0	
868	97	124	03:23:12.200		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *6063.43 +/-	4O0	4	0	3,940,344:75:1	
869	97	124	03:23:17.466		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *6064.67 +/-	4O0	4	0	3,940,344:83:0	
870	97	124	03:23:18.666		DMS:	: *RUNUP	P100, TRACK *2, *REV, TIC *6064.73 +/-	4O0	4	0	3,940,344:84:8	
871	97	124	03:23:22.533		DMS:	: *AT_SPD	P100, TRACK 2, REV, TIC 6059.23 +/-	4O0	4	0	3,940,344:90:6	
872	97	124	03:23:22.533		DMS:	: *P_SLEW	P100, TRACK 2, REV, TIC *6059.23 +/-	4O0	4	0	3,940,344:90:6	
873	97	124	03:34:13.466	488DE6E	6TMSED	FILL,AH4	Sci, Eng, and D/L Chan	4O0	4	0	3,940,355:66:0	
874	97	124	03:55:18.800	465WF6A	6DMSC	P100,3	DMS Control Tape P/B 100.8kbps	4O0	4	0	3,940,376:53:0	
875	97	124	03:55:18.800		DMS:	**: *RUNDOWN**	P100, TRACK 2, REV, TIC * 164.46 +/-	4O0	4	0	3,940,376:53:0	
876	97	124	03:55:20.000		DMS:	: *RUNUP	P100, TRACK *3, *FWD, TIC * 163.66 +/-	4O0	4	0	3,940,376:54:8	
877	97	124	03:55:23.866		DMS:	: *AT_SPD	P100, TRACK 3, FWD, TIC 169.16 +/-	4O0	4	0	3,940,376:60:6	
878	97	124	03:55:23.866		DMS:	: *P_SLEW	P100, TRACK 3, FWD, TIC * 169.16 +/-	4O0	4	0	3,940,376:60:6	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
879	97	124	04:02:52.133	488DF6A	6TMSED	NORM,AH4	Sci, Eng, and D/L Chan	4O0	4	0	3,940,384:05:0	
880	97	124	04:27:19.466		DMS:	**: *RUNDOWN**	P100, TRACK 3, FWD, TIC *6061.88 +/-	4O0	4	0	3,940,408:22:0	
881	97	124	04:27:19.466	465WF6B	6DMSC	RDY,3	DMS Control Tape stop	4O0	4	0	3,940,408:22:0	
882	97	124	04:27:20.666		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *6062.68 +/-	4O0	4	0	3,940,408:23:8	
883	97	124	04:42:02.800		DMS:	: *US-RUNUP	P7, TRACK *1, FWD, TIC 6062.68 +/-	4O0	4	0	3,940,422:73:0	
884	97	124	04:42:02.800	465WG6A	6DMSC	P100,4	DMS Control Tape P/B 100.8kbps	4O0	4	0	3,940,422:73:0	
885	97	124	04:42:04.200		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *6062.80 +/-	4O0	4	0	3,940,422:75:1	
886	97	124	04:42:09.466		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *6064.03 +/-	4O0	4	0	3,940,422:83:0	
887	97	124	04:42:10.666		DMS:	: *RUNUP	P100, TRACK *4, *REV, TIC *6064.09 +/-	4O0	4	0	3,940,422:84:8	
888	97	124	04:42:14.533		DMS:	: *AT_SPD	P100, TRACK 4, REV, TIC 6058.59 +/-	4O0	4	0	3,940,422:90:6	
889	97	124	04:42:14.533		DMS:	: *P_SLEW	P100, TRACK 4, REV, TIC *6058.59 +/-	4O0	4	0	3,940,422:90:6	
890	97	124	05:14:10.133	465WH6A	6DMSC	P100,3	DMS Control Tape P/B 100.8kbps	4O0	4	0	3,940,454:52:0	
891	97	124	05:14:10.133		DMS:	**: *RUNDOWN**	P100, TRACK 4, REV, TIC * 165.88 +/-	4O0	4	0	3,940,454:52:0	
892	97	124	05:14:11.333		DMS:	: *RUNUP	P100, TRACK *3, *FWD, TIC * 165.08 +/-	4O0	4	0	3,940,454:53:8	
893	97	124	05:14:15.200		DMS:	: *P_SLEW	P100, TRACK 3, FWD, TIC * 170.58 +/-	4O0	4	0	3,940,454:59:6	
894	97	124	05:14:15.200		DMS:	: *AT_SPD	P100, TRACK 3, FWD, TIC 170.58 +/-	4O0	4	0	3,940,454:59:6	
895	97	124	05:15:16.133		DMS:	**: *RUNDOWN**	P100, TRACK 3, FWD, TIC * 358.02 +/-	4O0	4	0	3,940,455:60:0	
896	97	124	05:15:16.133	465WH6B	6DMSC	RDY,3	DMS Control Tape stop	4O0	4	0	3,940,455:60:0	
897	97	124	05:15:17.333		DMS:	: *READY	RDY, TRACK 3, FWD, TIC * 358.82 +/-	4O0	4	0	3,940,455:61:8	
898	97	124	05:29:46.133		DMS:	: READY	RDY, TRACK *4, *REV, TIC 358.82 +/-	4O0	4	0	3,940,470:00:0	
899	97	124	05:29:46.133	465WI6A	6DMSC	RDY,4	DMS Control Tape stop	4O0	4	0	3,940,470:00:0	
900	97	124	05:30:40.133		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 358.82 +/-	4O0	4	0	3,940,470:81:0	
901	97	124	05:30:40.133		DMS:	: *DMS-TURN	P7, TRACK 4, REV, TIC 358.82 +/-	4O0	4	0	3,940,470:81:0	
902	97	124	05:30:40.133	465WJ6A	6DTRN	CMD,6DTRN,465WJ6	DMS TRACK TURNAROUND	4O0	4	0	3,940,470:81:0	
903	97	124	05:30:41.533		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 358.94 +/-	4O0	4	0	3,940,470:83:1	
904	97	124	05:30:46.800		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 360.17 +/-	4O0	4	0	3,940,471:00:0	
905	97	124	05:30:48.000		DMS:	: *RUNUP	P7, TRACK *4, *REV, TIC * 360.23 +/-	4O0	4	0	3,940,471:01:8	
906	97	124	05:30:49.400		DMS:	: *AT_SPD	P7, TRACK 4, REV, TIC * 360.11 +/-	4O0	4	0	3,940,471:03:9	
907	97	124	05:42:15.200		DMS:	: *REVERSE	P7, TRACK 4, REV, TIC * 199.37 +/-	4O0	4	0	3,940,482:31:6	
908	97	124	05:42:16.400		DMS:	: *RUNUP	P7, TRACK 1, FWD, TIC 199.31 +/-	4O0	4	0	3,940,482:33:4	
909	97	124	05:42:16.400		DMS:	: *TURNARND	P7, TRACK *1, *FWD, TIC * 199.31 +/-	4O0	4	0	3,940,482:33:4	
910	97	124	05:42:17.800		DMS:	: *AT_SPD	P7, TRACK 1, FWD, TIC * 199.43 +/-	4O0	4	0	3,940,482:35:5	
911	97	124	05:42:29.800		DMS:	: *AUTOSTOP	P7, TRACK 1, FWD, TIC * 201.56 +/-	4O0	4	0	3,940,482:53:5	
912	97	124	05:42:31.000		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 201.62 +/-	4O0	4	0	3,940,482:55:3	
913	97	124	05:55:00.133	488DF6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,940,494:87:0	
914	97	124	06:14:15.466		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 201.62 +/-	4O0	4	0	3,940,514:00:0	
915	97	124	06:14:15.466		DMS:	: *SLEW-TIC	P7, TRACK 1, FWD, TIC 201.62 +/-	4O0	4	0	3,940,514:00:0	
916	97	124	06:14:15.466		DMS:	: *TURNARND	P7, TRACK 1, FWD, TIC 201.62 +/-	4O0	4	0	3,940,514:00:0	
917	97	124	06:14:15.466	465KX6A	6DMST	1770	DMS Slew to TIC	4O0	4	0	3,940,514:00:0	
918	97	124	06:14:22.133		DMS:	: *RUNUP	P7, TRACK 1, FWD, TIC 201.62 +/-	4O0	4	0	3,940,514:10:0	
919	97	124	06:14:23.533		DMS:	: *AT_SPD	P7, TRACK 1, FWD, TIC * 201.74 +/-	4O0	4	0	3,940,514:12:1	
920	97	124	08:05:53.600		DMS:	**: *RUNDOWN**	P7, TRACK 1, FWD, TIC *1769.94 +/-	4O0	4	0	3,940,624:37:2	
921	97	124	08:05:54.800		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *1770.00 +/-	4O0	4	0	3,940,624:39:0	
922	97	124	08:10:32.133		DMS:	: READY	RDY, TRACK *4, *REV, TIC 1770.00 +/-	4O0	4	0	3,940,629:00:0	
923	97	124	08:10:32.133	465KZ6A	6DMSC	RDY,4	DMS Control Tape stop	4O0	4	0	3,940,629:00:0	
924	97	124	09:10:02.133	488DF6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,940,687:77:0	
925	97	124	09:37:46.133	488DF6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,940,715:25:0	
926	97	124	09:47:40.133	41WF99A	**POWER**	**PWR MODE change**	Change to Calib/Decon Mode	4O0	4	0	3,940,725:06:0	
927	**97**	**124**	**09:47:44.133**	**41WF3G**	**37F2PR**	**1**	**Shield Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,940,725:12:0**	
928	**97**	**124**	**09:47:54.133**	**41WF3H**	**37F2PR**	**2**	**Shield Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,940,725:27:0**	
929	**97**	**124**	**09:48:04.133**	**41WF3I**	**40T1PR**	**1**	**PCT Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**3,940,725:42:0**	
930	**97**	**124**	**09:48:14.133**	**41WF3J**	**40T1PR**	**2**	**PCT Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**3,940,725:57:0**	
931	**97**	**124**	**09:48:24.133**	**41WF3K**	**40T2R**	**1**	**PCT Heater 2 OFF**	**4O0**	**4**	**0**	**3,940,725:72:0**	
932	**97**	**124**	**09:48:34.133**	**41WF3L**	**40T2R**	**2**	**PCT Heater 2 OFF**	**4O0**	**4**	**0**	**3,940,725:87:0**	
933	97	124	09:59:34.133	175ZQ422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4O0	4	0	3,940,736:76:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
934	97	124	09:59:34.133		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 1770.00 +/-	4O0	4	0	3,940,736:76:0	
935	97	124	09:59:35.533		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *1770.12 +/-	4O0	4	0	3,940,736:78:1	
936	97	124	09:59:40.800		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *1771.35 +/-	4O0	4	0	3,940,736:86:0	
937	97	124	09:59:42.000		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC *1771.41 +/-	4O0	4	0	3,940,736:87:8	
938	97	124	09:59:43.400		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC 1771.29 +/-	4O0	4	0	3,940,736:89:9	
939	97	124	09:59:43.400		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *1771.29 +/-	4O0	4	0	3,940,736:89:9	
940	97	124	09:59:43.466	175ZQ176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	4O0	4	0	3,940,736:90:0	
941	97	124	10:05:00.800	175ZQ422A6B	6DMSC	RDY,0	DMS Control Tape stop	4O0	4	0	3,940,742:20:0	
942	97	124	10:05:00.800		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *1696.90 +/-	4O0	4	0	3,940,742:20:0	
943	97	124	10:05:02.000		DMS:	: *READY	RDY, TRACK 4, REV, TIC *1696.84 +/-	4O0	4	0	3,940,742:21:8	
944	97	124	10:07:53.466	41WG99A	**POWER**	**PWR MODE change**	Change to Data Taking Mode	4O0	4	0	3,940,745:06:0	
945	**97**	**124**	**10:07:57.466**	**41WG3K**	**37F2PR**	**1**	**Shield Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,940,745:12:0**	
946	**97**	**124**	**10:08:07.466**	**41WG3L**	**37F2PR**	**2**	**Shield Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,940,745:27:0**	
947	**97**	**124**	**10:08:17.466**	**41WG3A**	**40T1PR**	**1**	**PCT Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**3,940,745:42:0**	
948	**97**	**124**	**10:08:27.466**	**41WG3B**	**40T1PR**	**2**	**PCT Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**3,940,745:57:0**	
949	**97**	**124**	**10:08:37.466**	**41WG3C**	**40T2R**	**1**	**PCT Heater 2 OFF**	**4O0**	**4**	**0**	**3,940,745:72:0**	
950	**97**	**124**	**10:08:47.466**	**41WG3D**	**40T2R**	**2**	**PCT Heater 2 OFF**	**4O0**	**4**	**0**	**3,940,745:87:0**	
951	97	124	10:44:10.133	488DG6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,940,780:86:0	
952	97	124	11:12:49.466	488DG6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,940,809:26:0	
953	97	124	11:45:00.133	488DG6C	6TMSED	NORM,GL4	Sci, Eng, and D/L Chan	4O0	4	0	3,940,841:10:0	
954	97	124	14:19:22.066	488DG6D	6TMSED	NORM,GL7	Sci, Eng, and D/L Chan	4O0	4	0	3,940,993:71:0	
955	**97**	**124**	**16:00:00.000**	**20A3EW**	**37A**	**Final Condition**	**NIMS Power ON**	**4O0**	**4**	**0**	**3,941,093:27:9**	
956	**97**	**124**	**16:00:00.000**	**20A3EY**	**37C1PR**	**Final Condition**	**Optics Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**3,941,093:27:9**	
957	**97**	**124**	**16:00:00.000**	**20A3FF**	**40T2R**	**Final Condition**	**PCT Heater 2 OFF**	**4O0**	**4**	**0**	**3,941,093:27:9**	
958	**97**	**124**	**16:00:00.000**	**20A3EX**	**37HR**	**Final Condition**	**Replacement Heaters OFF**	**4O0**	**4**	**0**	**3,941,093:27:9**	
959	**97**	**124**	**16:00:00.000**	**20A3FD**	**40HRPR**	**Final Condition**	**RCT Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,941,093:27:9**	
960	**97**	**124**	**16:00:00.000**	**20A3FE**	**40T1PR**	**Final Condition**	**PCT Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**3,941,093:27:9**	
961	**97**	**124**	**16:00:00.000**	**20A3FB**	**37F2PR**	**Final Condition**	**Shield Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,941,093:27:9**	
962	**97**	**124**	**16:00:00.000**	**20A3FA**	**37F1PR**	**Final Condition**	**Radiator Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,941,093:27:9**	
963	**97**	**124**	**16:00:00.000**	**20A3EZ**	**37C2PR**	**Final Condition**	**Optics Heater 2 OFF (primary relay)**	**4O0**	**4**	**0**	**3,941,093:27:9**	
964	97	124	16:00:00.066		DMS:	: READY	RDY, TRACK 4, REV, TIC 1696.84 +/-	4O0	4	0	3,941,093:28:0	

G7NNSTRCAL01

```
OAPEL:  G7NNSTRCAL01              ALIAS:  G7NNSTRCAL01
EXT:    A                         PSID:   DB
SCLK1:  03895309:00:0             SCLK2:  03895309:55:0
SCET1:    97-092/12:27:00.481     SCET2:    97-092/12:27:37.147
TARGET: CAL                       PARTITION: 1

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

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

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

WETGID:     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

G7JNAURMAP01

OAPEL: G7JNAURMAP01 ALIAS: G7JNAURMAP01
EXT: R PSID: DC
SCLK1: 03895575:00:0 SCLK2: 03895578:90:0
SCET1: 1997-092/16:55:57.800 SCET2: 1997-092/16:59:59.800
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: 11110 MB_UP: 01111
COMP_FLAG: 0
EST_COMP: 0.0 EST_COMPV: 0.0
RATE_CON1: 00000 RATE_CON2: 00000
NWAVETOT: 408 TLMFMT: RT

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

WETGID: 0302408000 03 02 408 000
WTGRP_SIZ: 2

EDIT TABLE

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

G7JNAURMAP01

```
OAPEL:  G7JNAURMAP01            ALIAS:  G7JNAURMAP01
EXT:    S                       PSID:   DC
SCLK1:  03895579:00:0           SCLK2:  03895581:12:0
SCET1:  1997-092/17:00:00.466   SCET2:  1997-092/17:02:09.800
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:   11101                MB_UP:     10111
COMP_FLAG: 0
EST_COMP:  0.0                  EST_COMPV: 0.0
RATE_CON1: 00000                RATE_CON2: 00000
NWAVETOT:  408                  TLMFMT:    RT

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

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

EDIT TABLE

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

G7JNAURMAP01

```
OAPEL:  G7JNAURMAP01            ALIAS:  G7JNAURMAP01
EXT:    T                       PSID:   DC
SCLK1:  03895637:00:0           SCLK2:  03895640:90:0
SCET1:  1997-092/17:58:39.133   SCET2:  1997-092/18:02:41.133
TARGET: JUPITER                 PARTITION: 1

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

MB_DOWN:    01111               MB_UP:      11110
COMP_FLAG:  0
EST_COMP:   0.0                 EST_COMPV:  0.0
RATE_CON1:  00000               RATE_CON2:  00000
NWAVETOT:   408                 TLMFMT:     RT

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

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

EDIT TABLE

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

G7JNAURMAP01

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OAPEL:  G7JNAURMAP01            ALIAS:  G7JNAURMAP01
EXT:    U                       PSID:   DC
SCLK1:  03895641:00:0           SCLK2:  03895642:12:0
SCET1:  1997-092/18:02:41.800   SCET2:  1997-092/18:03:50.466
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:    10111               MB_UP:      11101
COMP_FLAG:  0
EST_COMP:   0.0                 EST_COMPV:  0.0
RATE_CON1:  00000               RATE_CON2:  00000
NWAVETOT:   408                 TLMFMT:     RT

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

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

EDIT TABLE

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

G7JNAURMAP01

OAPEL: G7JNAURMAP01 ALIAS: G7JNAURMAP01
EXT: V PSID: DC
SCLK1: 03895665:00:0 SCLK2: 03895668:90:0
SCET1: 1997-092/18:26:57.800 SCET2: 1997-092/18:30:59.800
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: 11110 MB_UP: 01111
COMP_FLAG: 0
EST_COMP: 0.0 EST_COMPV: 0.0
RATE_CON1: 00000 RATE_CON2: 00000
NWAVETOT: 408 TLMFMT: RT

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

WETGID: 0302408000 03 02 408 000
WTGRP_SIZ: 2

EDIT TABLE

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

G7JNAURMAP01

```
OAPEL:  G7JNAURMAP01            ALIAS:  G7JNAURMAP01
EXT:    W                       PSID:   DC
SCLK1:  03895669:00:0           SCLK2:  03895670:12:0
SCET1:  1997-092/18:31:00.466   SCET2:  1997-092/18:32:10.133
TARGET: JUPITER                 PARTITION: 1

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

MB_DOWN:    11101               MB_UP:      10111
COMP_FLAG:  0
EST_COMP:   0.0                 EST_COMPV:  0.0
RATE_CON1:  00000               RATE_CON2:  00000
NWAVETOT:   408                 TLMFMT:     RT

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

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

EDIT TABLE

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

G7CNGLOBAL01

```
OAPEL:  G7CNGLOBAL01              ALIAS:  G7CNGLOBAL01
EXT:    A                         PSID:   DD
SCLK1:  03895685:86:0             SCLK2:  03895688:89:0
SCET1:    97-092/18:48:09.133     SCET2:    97-092/18:51:13.133
TARGET: CALLISTO                  PARTITION: 1

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

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

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

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

EDIT TABLE

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

G7HNDARK__01

OAPEL: G7HNDARK__01 ALIAS: G7HNDARK__01
EXT: A PSID: DA
SCLK1: 03896271:90:0 SCLK2: 03896272:89:0
SCET1: 97-093/04:40:42.445 SCET2: 97-093/04:41:42.445
TARGET: SKY PARTITION: 1

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

MB_DOWN: 00000 MB_UP: 00000
COMP_FLAG: 1
EST_COMP: 2.0 EST_COMPV: 0.3
RATE_CON1: 00000 RATE_CON2: 65525
NWAVETOT: 32 TLMFMT: LPU

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

WETGID: 0326032001 03 26 032 001
WTGRP_SIZ: 26

EDIT TABLE

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

G7INCHEMIS01

```
OAPEL:  G7INCHEMIS01              ALIAS:  G7INCHEMIS01
EXT:    A                         PSID:   DE
SCLK1:  03896303:00:0             SCLK2:  03896305:14:0
SCET1:    97-093/05:12:03.111     SCET2:    97-093/05:14:13.777
TARGET: IO                        PARTITION: 1

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

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

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

WETGID:     0326102001          03  26  102  001
WTGRP_SIZ:  26
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	00000	0,0000,0000,0000,0000
1	1FDFF	1,1111,1101,1111,1111
2	00000	0,0000,0000,0000,0000
3	00000	0,0000,0000,0000,0000
4	00100	0,0000,0001,0000,0000
5	1FDFF	1,1111,1101,1111,1111
6	00000	0,0000,0000,0000,0000
7	00000	0,0000,0000,0000,0000
8	00100	0,0000,0001,0000,0000
9	1FDFF	1,1111,1101,1111,1111
10	00100	0,0000,0001,0000,0000
11	00000	0,0000,0000,0000,0000
12	00000	0,0000,0000,0000,0000
13	1FDFF	1,1111,1101,1111,1111
14	00100	0,0000,0001,0000,0000
15	00000	0,0000,0000,0000,0000
16	00100	0,0000,0001,0000,0000
17	1FDFF	1,1111,1101,1111,1111
18	00100	0,0000,0001,0000,0000
19	00000	0,0000,0000,0000,0000
20	00000	0,0000,0000,0000,0000
21	1FDFF	1,1111,1101,1111,1111
22	00000	0,0000,0000,0000,0000
23	00000	0,0000,0000,0000,0000
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

G7INCHEMIS02

```
OAPEL:  G7INCHEMIS02              ALIAS:  G7INCHEMIS02
EXT:    A                         PSID:   DG
SCLK1:  03896543:00:0             SCLK2:  03896545:34:0
SCET1:    97-093/09:14:43.102     SCET2:    97-093/09:17:07.102
TARGET: IO                        PARTITION: 1

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

MB_DOWN:    00000                 MB_UP:      00000
COMP_FLAG:  1
EST_COMP:   2.0                   EST_COMPV:  0.3
RATE_CON1:  00000                 RATE_CON2:  65525
NWAVETOT:   216                   TLMFMT:     LPU

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

WETGID:     0326216001          03  26  216  001
WTGRP_SIZ:  26
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	00580	0,0000,0101,1000,0000
1	1BDFF	1,1011,1101,1111,1111
2	00580	0,0000,0101,1000,0000
3	1BDFF	1,1011,1101,1111,1111
4	00580	0,0000,0101,1000,0000
5	1BDFF	1,1011,1101,1111,1111
6	00580	0,0000,0101,1000,0000
7	1BDFF	1,1011,1101,1111,1111
8	00580	0,0000,0101,1000,0000
9	1BDFF	1,1011,1101,1111,1111
10	00580	0,0000,0101,1000,0000
11	1BDFF	1,1011,1101,1111,1111
12	00580	0,0000,0101,1000,0000
13	1BDFF	1,1011,1101,1111,1111
14	00580	0,0000,0101,1000,0000
15	1BDFF	1,1011,1101,1111,1111
16	00580	0,0000,0101,1000,0000
17	1BDFF	1,1011,1101,1111,1111
18	00580	0,0000,0101,1000,0000
19	1BDFF	1,1011,1101,1111,1111
20	00580	0,0000,0101,1000,0000
21	1BDFF	1,1011,1101,1111,1111
22	00580	0,0000,0101,1000,0000
23	1BDFF	1,1011,1101,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

G7NNHEALTH01

```
OAPEL:  G7NNHEALTH01              ALIAS:  G7NNHEALTH01
EXT:    R                         PSID:   KC
SCLK1:  03897045:00:0             SCLK2:  03897045:12:0
SCET1:  1997-093/17:42:37.733     SCET2:  1997-093/17:42:45.733
TARGET: CAL                       PARTITION: 1

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

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

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

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

EDIT TABLE

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

G7NNHEALTH02

```
OAPEL:  G7NNHEALTH02              ALIAS:  G7NNHEALTH02
EXT:    R                         PSID:   KD
SCLK1:  03897076:00:0             SCLK2:  03897076:12:0
SCET1:  1997-093/18:13:38.400     SCET2:  1997-093/18:13:46.400
TARGET: CAL                       PARTITION: 1

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

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

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

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

EDIT TABLE

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

G7INHRSPEC01

```
OAPEL:  G7INHRSPEC01              ALIAS:  G7INHRSPEC01
EXT:    A                         PSID:   DW
SCLK1:  03897244:00:0             SCLK2:  03897246:85:0
SCET1:    97-093/21:03:30.409     SCET2:    97-093/21:06:28.409
TARGET: IO                        PARTITION: 1

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

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

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

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

EDIT TABLE

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

G7JNPFC04101

```
OAPEL:  G7JNPFC04101              ALIAS:  G7JNPFC04101
EXT:    A                         PSID:   DK
SCLK1:  03897276:00:0             SCLK2:  03897277:58:0
SCET1:    97-093/21:35:51.742     SCET2:    97-093/21:37:31.075
TARGET: JUPITER                   PARTITION: 1

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

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

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

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

EDIT TABLE

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

G7JNFEAP4101

```
OAPEL:  G7JNFEAP4101              ALIAS:  G7JNFEAP4101
EXT:    A                         PSID:   DM
SCLK1:  03897294:00:0             SCLK2:  03897298:83:0
SCET1:    97-093/21:54:03.741     SCET2:    97-093/21:59:01.741
TARGET: JUPITER                   PARTITION: 1

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

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

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

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

EDIT TABLE

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

G7JNRTHOTS01

```
OAPEL:  G7JNRTHOTS01            ALIAS:  G7JNRTHOTS01
EXT:    R                       PSID:   LN
SCLK1:  03897302:00:0           SCLK2:  03897302:12:0
SCET1:  1997-093/22:02:09.066   SCET2:  1997-093/22:02:17.066
TARGET: JUPITER                 PARTITION: 1

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

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

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

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

EDIT TABLE

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

G7JNFEASUB01

```
OAPEL:  G7JNFEASUB01              ALIAS:  G7JNFEASUB01
EXT:    A                         PSID:   DO
SCLK1:  03897354:00:0             SCLK2:  03897359:25:0
SCET1:    97-093/22:54:43.739     SCET2:    97-093/23:00:03.739
TARGET: JUPITER                   PARTITION: 1

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

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

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

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

EDIT TABLE

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

G7JNFEAP4102

```
OAPEL:  G7JNFEAP4102              ALIAS:  G7JNFEAP4102
EXT:    A                         PSID:   DP
SCLK1:  03897368:00:0             SCLK2:  03897372:85:0
SCET1:    97-093/23:08:53.071     SCET2:    97-093/23:13:52.404
TARGET: JUPITER                   PARTITION: 1

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

MB_DOWN:    00000                 MB_UP:      00000
COMP_FLAG:  1
EST_COMP:   2.0                   EST_COMPV:  0.3
RATE_CON1:  00000                 RATE_CON2:  65525
NWAVETOT:     4                   TLMFMT:     LPU

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

WETGID:     0507004001          05  07  004  001
WTGRP_SIZ:  7
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	00000	0,0000,0000,0000,0000
1	01900	0,0001,1001,0000,0000
2	10000	1,0000,0000,0000,0000
3	00000	0,0000,0000,0000,0000
4	00000	0,0000,0000,0000,0000
5	00000	0,0000,0000,0000,0000
6	00000	0,0000,0000,0000,0000

G7JNPFTB4101

```
OAPEL:  G7JNPFTB4101              ALIAS:  G7JNPFTB4101
EXT:    A                         PSID:   DQ
SCLK1:  03897377:00:0             SCLK2:  03897380:46:0
SCET1:    97-093/23:17:59.071     SCET2:    97-093/23:21:31.738
TARGET: JUPITER                   PARTITION: 1

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

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

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

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

EDIT TABLE

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

G7JNRTHOTS02

```
OAPEL:  G7JNRTHOTS02              ALIAS:  G7JNRTHOTS02
EXT:    R                         PSID:   LV
SCLK1:  03897383:00:0             SCLK2:  03897383:12:0
SCET1:  1997-093/23:24:03.066     SCET2:  1997-093/23:24:11.066
TARGET: JUPITER                   PARTITION: 1

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

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

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

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

EDIT TABLE

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

G7JNPFTB4102

```
OAPEL:  G7JNPFTB4102            ALIAS:  G7JNPFTB4102
EXT:    A                       PSID:   DR
SCLK1:  03897443:00:0           SCLK2:  03897446:46:0
SCET1:    97-094/00:24:43.068   SCET2:    97-094/00:28:15.735
TARGET: JUPITER                 PARTITION: 1

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

MB_DOWN:    00000               MB_UP:      00000
COMP_FLAG:  1
EST_COMP:   2.0                 EST_COMPV:  0.3
RATE_CON1:  00000               RATE_CON2:  65525
NWAVETOT:     4                 TLMFMT:     LPU

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

WETGID:     0507004001          05  07  004  001
WTGRP_SIZ:  7
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	00000	0,0000,0000,0000,0000
1	01900	0,0001,1001,0000,0000
2	10000	1,0000,0000,0000,0000
3	00000	0,0000,0000,0000,0000
4	00000	0,0000,0000,0000,0000
5	00000	0,0000,0000,0000,0000
6	00000	0,0000,0000,0000,0000

G7JNPFTD4101

```
OAPEL:  G7JNPFTD4101              ALIAS:  G7JNPFTD4101
EXT:    A                         PSID:   DT
SCLK1:  03897463:00:0             SCLK2:  03897466:46:0
SCET1:    97-094/00:44:56.400     SCET2:    97-094/00:48:29.068
TARGET: JUPITER                   PARTITION: 1

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

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

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

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

EDIT TABLE

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

G7JNRTHOTS03

```
OAPEL:  G7JNRTHOTS03              ALIAS:  G7JNRTHOTS03
EXT:    R                         PSID:   LS
SCLK1:  03897471:00:0             SCLK2:  03897471:12:0
SCET1:  1997-094/00:53:01.733     SCET2:  1997-094/00:53:09.733
TARGET: JUPITER                   PARTITION: 1

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

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

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

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

EDIT TABLE

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

G7INVOLCAN05

```
OAPEL:  G7INVOLCAN05              ALIAS:  G7INVOLCAN05
EXT:    A                         PSID:   EA
SCLK1:  03897481:00:0             SCLK2:  03897481:90:0
SCET1:    97-094/01:03:08.400     SCET2:    97-094/01:04:08.400
TARGET: IO                        PARTITION: 1

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

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

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

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

EDIT TABLE

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

G7HNDARK__02

OAPEL: G7HNDARK__02 ALIAS: G7HNDARK__02
EXT: A PSID: DS
SCLK1: 03897493:00:0 SCLK2: 03897493:90:0
SCET1: 97-094/01:15:16.400 SCET2: 97-094/01:16:16.400
TARGET: SKY PARTITION: 1

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

MB_DOWN: 00000 MB_UP: 00000
COMP_FLAG: 1
EST_COMP: 2.0 EST_COMPV: 0.3
RATE_CON1: 00000 RATE_CON2: 65525
NWAVETOT: 32 TLMFMT: LPU

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

WETGID: 0326032001 03 26 032 001
WTGRP_SIZ: 26

EDIT TABLE

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

G7INCHEMIS04

```
OAPEL:  G7INCHEMIS04              ALIAS:  G7INCHEMIS04
EXT:    A                         PSID:   EB
SCLK1:  03897499:00:0             SCLK2:  03897502:41:0
SCET1:    97-094/01:21:20.399     SCET2:    97-094/01:24:50.399
TARGET: IO                        PARTITION: 1

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

MB_DOWN:    00000                 MB_UP:      00000
COMP_FLAG:  1
EST_COMP:   2.0                   EST_COMPV:  0.3
RATE_CON1:  00000                 RATE_CON2:  65525
NWAVETOT:   216                   TLMFMT:     LPU

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

WETGID:     0326216001          03  26  216  001
WTGRP_SIZ:  26
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	00580	0,0000,0101,1000,0000
1	1BDFF	1,1011,1101,1111,1111
2	00580	0,0000,0101,1000,0000
3	1BDFF	1,1011,1101,1111,1111
4	00580	0,0000,0101,1000,0000
5	1BDFF	1,1011,1101,1111,1111
6	00580	0,0000,0101,1000,0000
7	1BDFF	1,1011,1101,1111,1111
8	00580	0,0000,0101,1000,0000
9	1BDFF	1,1011,1101,1111,1111
10	00580	0,0000,0101,1000,0000
11	1BDFF	1,1011,1101,1111,1111
12	00580	0,0000,0101,1000,0000
13	1BDFF	1,1011,1101,1111,1111
14	00580	0,0000,0101,1000,0000
15	1BDFF	1,1011,1101,1111,1111
16	00580	0,0000,0101,1000,0000
17	1BDFF	1,1011,1101,1111,1111
18	00580	0,0000,0101,1000,0000
19	1BDFF	1,1011,1101,1111,1111
20	00580	0,0000,0101,1000,0000
21	1BDFF	1,1011,1101,1111,1111
22	00580	0,0000,0101,1000,0000
23	1BDFF	1,1011,1101,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

G7ENFLEXUS01

```
OAPEL:  G7ENFLEXUS01              ALIAS:  G7ENFLEXUS01
EXT:    A                         PSID:   DX
SCLK1:  03897540:35:0             SCLK2:  03897541:04:0
SCET1:    97-094/02:03:11.732     SCET2:    97-094/02:03:51.732
TARGET: EUROPA                    PARTITION: 1

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

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

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

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

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	01C00	0,0001,1100,0000,0000
1	1FDFF	1,1111,1101,1111,1111
2	01C00	0,0001,1100,0000,0000
3	1FDFF	1,1111,1101,1111,1111
4	01C00	0,0001,1100,0000,0000
5	1FDFF	1,1111,1101,1111,1111
6	01C00	0,0001,1100,0000,0000
7	1FDFF	1,1111,1101,1111,1111
8	01C00	0,0001,1100,0000,0000
9	1FDFF	1,1111,1101,1111,1111
10	01C00	0,0001,1100,0000,0000
11	1FDFF	1,1111,1101,1111,1111
12	01C00	0,0001,1100,0000,0000
13	1FDFF	1,1111,1101,1111,1111
14	01C00	0,0001,1100,0000,0000
15	1FDFF	1,1111,1101,1111,1111
16	01C00	0,0001,1100,0000,0000
17	1FDFF	1,1111,1101,1111,1111
18	01C00	0,0001,1100,0000,0000
19	1FDFF	1,1111,1101,1111,1111
20	01C00	0,0001,1100,0000,0000
21	1FDFF	1,1111,1101,1111,1111
22	01C00	0,0001,1100,0000,0000
23	1FDFF	1,1111,1101,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

G7ENFLEXUS01

```
OAPEL:  G7ENFLEXUS01              ALIAS:  G7ENFLEXUS01
EXT:    B                         PSID:   DX
SCLK1:  03897552:06:0             SCLK2:  03897556:12:0
SCET1:    97-094/02:15:00.397     SCET2:    97-094/02:19:07.064
TARGET: EUROPA                    PARTITION: 1

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

MB_DOWN:    00000                 MB_UP:      00000
COMP_FLAG:  1
EST_COMP:   2.0                   EST_COMPV:  0.3
RATE_CON1:  00000                 RATE_CON2:  65525
NWAVETOT:   108                   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:     0326108001          03  26  108  001
WTGRP_SIZ:  26
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	00000	0,0000,0000,0000,0000
1	001FF	0,0000,0001,1111,1111
2	00000	0,0000,0000,0000,0000
3	001FF	0,0000,0001,1111,1111
4	00000	0,0000,0000,0000,0000
5	001FF	0,0000,0001,1111,1111
6	00000	0,0000,0000,0000,0000
7	001FF	0,0000,0001,1111,1111
8	00000	0,0000,0000,0000,0000
9	001FF	0,0000,0001,1111,1111
10	00000	0,0000,0000,0000,0000
11	001FF	0,0000,0001,1111,1111
12	00000	0,0000,0000,0000,0000
13	001FF	0,0000,0001,1111,1111
14	00000	0,0000,0000,0000,0000
15	001FF	0,0000,0001,1111,1111
16	00000	0,0000,0000,0000,0000
17	001FF	0,0000,0001,1111,1111
18	00000	0,0000,0000,0000,0000
19	001FF	0,0000,0001,1111,1111
20	00000	0,0000,0000,0000,0000
21	001FF	0,0000,0001,1111,1111
22	00000	0,0000,0000,0000,0000
23	001FF	0,0000,0001,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

G7ENFLEXUS01

```
OAPEL:  G7ENFLEXUS01              ALIAS:  G7ENFLEXUS01
EXT:    C                         PSID:   DX
SCLK1:  03897556:13:0             SCLK2:  03897557:06:0
SCET1:    97-094/02:19:07.730     SCET2:    97-094/02:20:03.731
TARGET: EUROPA                    PARTITION: 1

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

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

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

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

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	01C00	0,0001,1100,0000,0000
1	1FDFF	1,1111,1101,1111,1111
2	01C00	0,0001,1100,0000,0000
3	1FDFF	1,1111,1101,1111,1111
4	01C00	0,0001,1100,0000,0000
5	1FDFF	1,1111,1101,1111,1111
6	01C00	0,0001,1100,0000,0000
7	1FDFF	1,1111,1101,1111,1111
8	01C00	0,0001,1100,0000,0000
9	1FDFF	1,1111,1101,1111,1111
10	01C00	0,0001,1100,0000,0000
11	1FDFF	1,1111,1101,1111,1111
12	01C00	0,0001,1100,0000,0000
13	1FDFF	1,1111,1101,1111,1111
14	01C00	0,0001,1100,0000,0000
15	1FDFF	1,1111,1101,1111,1111
16	01C00	0,0001,1100,0000,0000
17	1FDFF	1,1111,1101,1111,1111
18	01C00	0,0001,1100,0000,0000
19	1FDFF	1,1111,1101,1111,1111
20	01C00	0,0001,1100,0000,0000
21	1FDFF	1,1111,1101,1111,1111
22	01C00	0,0001,1100,0000,0000
23	1FDFF	1,1111,1101,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

G7INCHEMIS05

OAPEL: G7INCHEMIS05 ALIAS: G7INCHEMIS05
EXT: A PSID: EF
SCLK1: 03897704:90:0 SCLK2: 03897708:90:0
SCET1: 97-094/04:49:37.726 SCET2: 97-094/04:53:40.391
TARGET: IO PARTITION: 1

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

MB_DOWN: 00000 MB_UP: 00000
COMP_FLAG: 1
EST_COMP: 2.0 EST_COMPV: 0.3
RATE_CON1: 00000 RATE_CON2: 65525
NWAVETOT: 216 TLMFMT: LPU

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

WETGID: 0326216001 03 26 216 001
WTGRP_SIZ: 26

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	00580	0,0000,0101,1000,0000
1	1BDFF	1,1011,1101,1111,1111
2	00580	0,0000,0101,1000,0000
3	1BDFF	1,1011,1101,1111,1111
4	00580	0,0000,0101,1000,0000
5	1BDFF	1,1011,1101,1111,1111
6	00580	0,0000,0101,1000,0000
7	1BDFF	1,1011,1101,1111,1111
8	00580	0,0000,0101,1000,0000
9	1BDFF	1,1011,1101,1111,1111
10	00580	0,0000,0101,1000,0000
11	1BDFF	1,1011,1101,1111,1111
12	00580	0,0000,0101,1000,0000
13	1BDFF	1,1011,1101,1111,1111
14	00580	0,0000,0101,1000,0000
15	1BDFF	1,1011,1101,1111,1111
16	00580	0,0000,0101,1000,0000
17	1BDFF	1,1011,1101,1111,1111
18	00580	0,0000,0101,1000,0000
19	1BDFF	1,1011,1101,1111,1111
20	00580	0,0000,0101,1000,0000
21	1BDFF	1,1011,1101,1111,1111
22	00580	0,0000,0101,1000,0000
23	1BDFF	1,1011,1101,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

G7JNFEX00203

```
OAPEL:  G7JNFEX00203              ALIAS:  G7JNFEX00203
EXT:    A                         PSID:   EG
SCLK1:  03897735:90:0             SCLK2:  03897737:58:0
SCET1:    97-094/05:20:58.390     SCET2:    97-094/05:22:38.390
TARGET: JUPITER                   PARTITION: 1

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

MB_DOWN:    00000                 MB_UP:      00000
COMP_FLAG:  1
EST_COMP:   2.0                   EST_COMPV:  0.3
RATE_CON1:  00000                 RATE_CON2:  65525
NWAVETOT:    15                   TLMFMT:     LPU

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

WETGID:     0507015001          05  07  015  001
WTGRP_SIZ:  7
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	00000	0,0000,0000,0000,0000
1	11500	1,0001,0101,0000,0000
2	1A000	1,1010,0000,0000,0000
3	00800	0,0000,1000,0000,0000
4	0B810	0,1011,1000,0001,0000
5	00C00	0,0000,1100,0000,0000
6	00000	0,0000,0000,0000,0000

G7ENTYREMA01

```
OAPEL:  G7ENTYREMA01              ALIAS:  G7ENTYREMA01
EXT:    A                         PSID:   EH
SCLK1:  03897769:44:0             SCLK2:  03897782:77:0
SCET1:    97-094/05:54:50.389     SCET2:    97-094/06:08:21.056
TARGET: EUROPA                    PARTITION: 1

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

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

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

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

EDIT TABLE

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

G7NNHEALTH03

```
OAPEL:  G7NNHEALTH03              ALIAS:  G7NNHEALTH03
EXT:    R                         PSID:   KE
SCLK1:  03898063:00:0             SCLK2:  03898063:12:0
SCET1:  1997-094/10:51:36.400     SCET2:  1997-094/10:51:44.400
TARGET: CAL                       PARTITION: 1

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

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

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

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

EDIT TABLE

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

G7JNHOTMAP01

```
OAPEL:  G7JNHOTMAP01              ALIAS:  G7JNHOTMAP01
EXT:    A                         PSID:   FR
SCLK1:  03898081:00:0             SCLK2:  03898092:00:0
SCET1:    97-094/11:09:48.379     SCET2:    97-094/11:20:55.711
TARGET: JUPITER                   PARTITION: 1

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

MB_DOWN:    00000                 MB_UP:      00000
COMP_FLAG:  1
EST_COMP:   2.0                   EST_COMPV:  0.3
RATE_CON1:  00000                 RATE_CON2:  65525
NWAVETOT:    72                   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:     0326072001          03  26  072  001
WTGRP_SIZ:  26
```

EDIT TABLE

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

G7JNFEAP6601

```
OAPEL:  G7JNFEAP6601            ALIAS:  G7JNFEAP6601
EXT:    A                       PSID:   EJ
SCLK1:  03898617:31:0           SCLK2:  03898619:59:0
SCET1:    97-094/20:12:06.359   SCET2:    97-094/20:14:26.358
TARGET: JUPITER                 PARTITION: 1

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

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

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

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

EDIT TABLE

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

G7JNPFTB6601

```
OAPEL:  G7JNPFTB6601            ALIAS:  G7JNPFTB6601
EXT:    A                       PSID:   EK
SCLK1:  03898627:79:0           SCLK2:  03898629:46:0
SCET1:    97-094/20:22:45.024   SCET2:    97-094/20:24:24.358
TARGET: JUPITER                 PARTITION: 1

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

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

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

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

EDIT TABLE

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

G7NNHEALTH04

```
OAPEL:  G7NNHEALTH04              ALIAS:  G7NNHEALTH04
EXT:    R                         PSID:   KF
SCLK1:  03898632:00:0             SCLK2:  03898632:12:0
SCET1:  1997-094/20:26:55.666     SCET2:  1997-094/20:27:03.666
TARGET: CAL                       PARTITION: 1

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

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

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

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

EDIT TABLE

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

G7JNFEAP6602

```
OAPEL:  G7JNFEAP6602              ALIAS:  G7JNFEAP6602
EXT:    A                         PSID:   EL
SCLK1:  03898680:00:0             SCLK2:  03898684:82:0
SCET1:    97-094/21:15:27.689     SCET2:    97-094/21:20:25.022
TARGET: JUPITER                   PARTITION: 1

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

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

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

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

EDIT TABLE

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

G7JNPFTB6602

```
OAPEL:  G7JNPFTB6602              ALIAS:  G7JNPFTB6602
EXT:    A                         PSID:   EM
SCLK1:  03898690:00:0             SCLK2:  03898693:47:0
SCET1:    97-094/21:25:34.356     SCET2:    97-094/21:29:07.689
TARGET: JUPITER                   PARTITION: 1

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

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

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

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

EDIT TABLE

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

G7JNPFC06601

```
OAPEL:  G7JNPFC06601            ALIAS:  G7JNPFC06601
EXT:    A                       PSID:   EN
SCLK1:  03898698:00:0           SCLK2:  03898702:86:0
SCET1:    97-094/21:33:39.689   SCET2:    97-094/21:38:39.688
TARGET: JUPITER                 PARTITION: 1

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

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

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

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

EDIT TABLE

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

G7JNFEA53M01

OAPEL: G7JNFEA53M01 ALIAS: G7JNFEA53M01
EXT: A PSID: EO
SCLK1: 03898731:00:0 SCLK2: 03898736:25:0
SCET1: 97-094/22:07:01.687 SCET2: 97-094/22:12:21.687
TARGET: JUPITER PARTITION: 1

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

MB_DOWN: 00000 MB_UP: 00000
COMP_FLAG: 1
EST_COMP: 2.0 EST_COMPV: 0.3
RATE_CON1: 00000 RATE_CON2: 65525
NWAVETOT: 83 TLMFMT: LPU

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

WETGID: 0326083001 03 26 083 001
WTGRP_SIZ: 26

EDIT TABLE

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

G7JNFEA5UM01

```
OAPEL:  G7JNFEA5UM01              ALIAS:  G7JNFEA5UM01
EXT:    A                         PSID:   EP
SCLK1:  03898781:00:0             SCLK2:  03898785:86:0
SCET1:    97-094/22:57:35.018     SCET2:    97-094/23:02:35.018
TARGET: JUPITER                   PARTITION: 1

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

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

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

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

EDIT TABLE

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

G7NNHEALTH05

```
OAPEL:  G7NNHEALTH05              ALIAS:  G7NNHEALTH05
EXT:    R                         PSID:   KG
SCLK1:  03898801:00:0             SCLK2:  03898801:12:0
SCET1:  1997-094/23:17:48.333     SCET2:  1997-094/23:17:56.333
TARGET: CAL                       PARTITION: 1

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

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

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

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

EDIT TABLE

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

G7GNGLOBAL01

```
OAPEL:  G7GNGLOBAL01              ALIAS:  G7GNGLOBAL01
EXT:    A                         PSID:   ES
SCLK1:  03898870:00:0             SCLK2:  03898875:20:0
SCET1:    97-095/00:27:34.349     SCET2:    97-095/00:32:51.015
TARGET: GANYMEDE                  PARTITION: 1

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

MB_DOWN:    00000                 MB_UP:      00000
COMP_FLAG:  1
EST_COMP:   2.0                   EST_COMPV:  0.3
RATE_CON1:  00000                 RATE_CON2:  65525
NWAVETOT:   192                   TLMFMT:     LPU

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

WETGID:     0326192001          03  26  192  001
WTGRP_SIZ:  26
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	00400	0,0000,0100,0000,0000
1	1BDFF	1,1011,1101,1111,1111
2	00400	0,0000,0100,0000,0000
3	1BDFF	1,1011,1101,1111,1111
4	00400	0,0000,0100,0000,0000
5	1BDFF	1,1011,1101,1111,1111
6	00400	0,0000,0100,0000,0000
7	1BDFF	1,1011,1101,1111,1111
8	00400	0,0000,0100,0000,0000
9	1BDFF	1,1011,1101,1111,1111
10	00400	0,0000,0100,0000,0000
11	1BDFF	1,1011,1101,1111,1111
12	00400	0,0000,0100,0000,0000
13	1BDFF	1,1011,1101,1111,1111
14	00400	0,0000,0100,0000,0000
15	1BDFF	1,1011,1101,1111,1111
16	00400	0,0000,0100,0000,0000
17	1BDFF	1,1011,1101,1111,1111
18	00400	0,0000,0100,0000,0000
19	1BDFF	1,1011,1101,1111,1111
20	00400	0,0000,0100,0000,0000
21	1BDFF	1,1011,1101,1111,1111
22	00400	0,0000,0100,0000,0000
23	1BDFF	1,1011,1101,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

G7GNGLOBAL01

OAPEL: G7GNGLOBAL01 ALIAS: G7GNGLOBAL01
EXT: B PSID: ES
SCLK1: 03898881:61:0 SCLK2: 03898889:03:0
SCET1: 97-095/00:39:22.349 SCET2: 97-095/00:46:49.014
TARGET: GANYMEDE PARTITION: 1

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

MB_DOWN: 00000 MB_UP: 00000
COMP_FLAG: 1
EST_COMP: 2.0 EST_COMPV: 0.3
RATE_CON1: 00000 RATE_CON2: 65525
NWAVETOT: 192 TLMFMT: LPU

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

WETGID: 0326192001 03 26 192 001
WTGRP_SIZ: 26

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	00400	0,0000,0100,0000,0000
1	1BDFF	1,1011,1101,1111,1111
2	00400	0,0000,0100,0000,0000
3	1BDFF	1,1011,1101,1111,1111
4	00400	0,0000,0100,0000,0000
5	1BDFF	1,1011,1101,1111,1111
6	00400	0,0000,0100,0000,0000
7	1BDFF	1,1011,1101,1111,1111
8	00400	0,0000,0100,0000,0000
9	1BDFF	1,1011,1101,1111,1111
10	00400	0,0000,0100,0000,0000
11	1BDFF	1,1011,1101,1111,1111
12	00400	0,0000,0100,0000,0000
13	1BDFF	1,1011,1101,1111,1111
14	00400	0,0000,0100,0000,0000
15	1BDFF	1,1011,1101,1111,1111
16	00400	0,0000,0100,0000,0000
17	1BDFF	1,1011,1101,1111,1111
18	00400	0,0000,0100,0000,0000
19	1BDFF	1,1011,1101,1111,1111
20	00400	0,0000,0100,0000,0000
21	1BDFF	1,1011,1101,1111,1111
22	00400	0,0000,0100,0000,0000
23	1BDFF	1,1011,1101,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

G7GNGLOBAL01

```
OAPEL:  G7GNGLOBAL01              ALIAS:  G7GNGLOBAL01
EXT:    C                         PSID:   ES
SCLK1:  03898893:31:0             SCLK2:  03898897:60:0
SCET1:    97-095/00:51:10.348     SCET2:    97-095/00:55:32.348
TARGET: GANYMEDE                  PARTITION: 1

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

MB_DOWN:    00000                 MB_UP:      00000
COMP_FLAG:  1
EST_COMP:   2.0                   EST_COMPV:  0.3
RATE_CON1:  00000                 RATE_CON2:  65525
NWAVETOT:   192                   TLMFMT:     LPU

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

WETGID:     0326192001          03  26  192  001
WTGRP_SIZ:  26
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	00400	0,0000,0100,0000,0000
1	1BDFF	1,1011,1101,1111,1111
2	00400	0,0000,0100,0000,0000
3	1BDFF	1,1011,1101,1111,1111
4	00400	0,0000,0100,0000,0000
5	1BDFF	1,1011,1101,1111,1111
6	00400	0,0000,0100,0000,0000
7	1BDFF	1,1011,1101,1111,1111
8	00400	0,0000,0100,0000,0000
9	1BDFF	1,1011,1101,1111,1111
10	00400	0,0000,0100,0000,0000
11	1BDFF	1,1011,1101,1111,1111
12	00400	0,0000,0100,0000,0000
13	1BDFF	1,1011,1101,1111,1111
14	00400	0,0000,0100,0000,0000
15	1BDFF	1,1011,1101,1111,1111
16	00400	0,0000,0100,0000,0000
17	1BDFF	1,1011,1101,1111,1111
18	00400	0,0000,0100,0000,0000
19	1BDFF	1,1011,1101,1111,1111
20	00400	0,0000,0100,0000,0000
21	1BDFF	1,1011,1101,1111,1111
22	00400	0,0000,0100,0000,0000
23	1BDFF	1,1011,1101,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

G7GNGLOBAL01

```
OAPEL:  G7GNGLOBAL01              ALIAS:  G7GNGLOBAL01
EXT:    D                         PSID:   ES
SCLK1:  03898870:26:0             SCLK2:  03898875:20:0
SCET1:    97-095/00:27:52.016     SCET2:    97-095/00:32:51.015
TARGET: GANYMEDE                  PARTITION: 1

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

MB_DOWN:    00000                 MB_UP:      00000
COMP_FLAG:  1
EST_COMP:   2.0                   EST_COMPV:  0.3
RATE_CON1:  00000                 RATE_CON2:  65525
NWAVETOT:   192                   TLMFMT:     LPU

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

WETGID:     0326192001          03  26  192  001
WTGRP_SIZ:  26
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	00400	0,0000,0100,0000,0000
1	1BDFF	1,1011,1101,1111,1111
2	00400	0,0000,0100,0000,0000
3	1BDFF	1,1011,1101,1111,1111
4	00400	0,0000,0100,0000,0000
5	1BDFF	1,1011,1101,1111,1111
6	00400	0,0000,0100,0000,0000
7	1BDFF	1,1011,1101,1111,1111
8	00400	0,0000,0100,0000,0000
9	1BDFF	1,1011,1101,1111,1111
10	00400	0,0000,0100,0000,0000
11	1BDFF	1,1011,1101,1111,1111
12	00400	0,0000,0100,0000,0000
13	1BDFF	1,1011,1101,1111,1111
14	00400	0,0000,0100,0000,0000
15	1BDFF	1,1011,1101,1111,1111
16	00400	0,0000,0100,0000,0000
17	1BDFF	1,1011,1101,1111,1111
18	00400	0,0000,0100,0000,0000
19	1BDFF	1,1011,1101,1111,1111
20	00400	0,0000,0100,0000,0000
21	1BDFF	1,1011,1101,1111,1111
22	00400	0,0000,0100,0000,0000
23	1BDFF	1,1011,1101,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

G7GNGLOBAL01

OAPEL: G7GNGLOBAL01 ALIAS: G7GNGLOBAL01
EXT: E PSID: ES
SCLK1: 03898881:78:0 SCLK2: 03898889:03:0
SCET1: 97-095/00:39:33.682 SCET2: 97-095/00:46:49.014
TARGET: GANYMEDE PARTITION: 1

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

MB_DOWN: 00000 MB_UP: 00000
COMP_FLAG: 1
EST_COMP: 2.0 EST_COMPV: 0.3
RATE_CON1: 00000 RATE_CON2: 65525
NWAVETOT: 192 TLMFMT: LPU

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

WETGID: 0326192001 03 26 192 001
WTGRP_SIZ: 26

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	00400	0,0000,0100,0000,0000
1	1BDFF	1,1011,1101,1111,1111
2	00400	0,0000,0100,0000,0000
3	1BDFF	1,1011,1101,1111,1111
4	00400	0,0000,0100,0000,0000
5	1BDFF	1,1011,1101,1111,1111
6	00400	0,0000,0100,0000,0000
7	1BDFF	1,1011,1101,1111,1111
8	00400	0,0000,0100,0000,0000
9	1BDFF	1,1011,1101,1111,1111
10	00400	0,0000,0100,0000,0000
11	1BDFF	1,1011,1101,1111,1111
12	00400	0,0000,0100,0000,0000
13	1BDFF	1,1011,1101,1111,1111
14	00400	0,0000,0100,0000,0000
15	1BDFF	1,1011,1101,1111,1111
16	00400	0,0000,0100,0000,0000
17	1BDFF	1,1011,1101,1111,1111
18	00400	0,0000,0100,0000,0000
19	1BDFF	1,1011,1101,1111,1111
20	00400	0,0000,0100,0000,0000
21	1BDFF	1,1011,1101,1111,1111
22	00400	0,0000,0100,0000,0000
23	1BDFF	1,1011,1101,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

G7GNGLOBAL01

OAPEL: G7GNGLOBAL01 ALIAS: G7GNGLOBAL01
EXT: F PSID: ES
SCLK1: 03898893:52:0 SCLK2: 03898897:60:0
SCET1: 97-095/00:51:24.348 SCET2: 97-095/00:55:32.348
TARGET: GANYMEDE PARTITION: 1

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

MB_DOWN: 00000 MB_UP: 00000
COMP_FLAG: 1
EST_COMP: 2.0 EST_COMPV: 0.3
RATE_CON1: 00000 RATE_CON2: 65525
NWAVETOT: 192 TLMFMT: LPU

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

WETGID: 0326192001 03 26 192 001
WTGRP_SIZ: 26

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	00400	0,0000,0100,0000,0000
1	1BDFF	1,1011,1101,1111,1111
2	00400	0,0000,0100,0000,0000
3	1BDFF	1,1011,1101,1111,1111
4	00400	0,0000,0100,0000,0000
5	1BDFF	1,1011,1101,1111,1111
6	00400	0,0000,0100,0000,0000
7	1BDFF	1,1011,1101,1111,1111
8	00400	0,0000,0100,0000,0000
9	1BDFF	1,1011,1101,1111,1111
10	00400	0,0000,0100,0000,0000
11	1BDFF	1,1011,1101,1111,1111
12	00400	0,0000,0100,0000,0000
13	1BDFF	1,1011,1101,1111,1111
14	00400	0,0000,0100,0000,0000
15	1BDFF	1,1011,1101,1111,1111
16	00400	0,0000,0100,0000,0000
17	1BDFF	1,1011,1101,1111,1111
18	00400	0,0000,0100,0000,0000
19	1BDFF	1,1011,1101,1111,1111
20	00400	0,0000,0100,0000,0000
21	1BDFF	1,1011,1101,1111,1111
22	00400	0,0000,0100,0000,0000
23	1BDFF	1,1011,1101,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

G7JNFEX10803

```
OAPEL:  G7JNFEX10803              ALIAS:  G7JNFEX10803
EXT:    A                         PSID:   EV
SCLK1:  03899049:00:0             SCLK2:  03899050:59:0
SCET1:    97-095/03:28:33.675     SCET2:    97-095/03:30:13.675
TARGET: JUPITER                   PARTITION: 1

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

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

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

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

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	00400	0,0000,0100,0000,0000
1	11501	1,0001,0101,0000,0001
2	1A000	1,1010,0000,0000,0000
3	00802	0,0000,1000,0000,0010
4	0B810	0,1011,1000,0001,0000
5	00C01	0,0000,1100,0000,0001
6	00000	0,0000,0000,0000,0000

G7NNHEALTH06

```
OAPEL:  G7NNHEALTH06            ALIAS:  G7NNHEALTH06
EXT:    R                       PSID:   KH
SCLK1:  03899092:00:0           SCLK2:  03899092:12:0
SCET1:  1997-095/04:12:02.333   SCET2:  1997-095/04:12:10.333
TARGET: CAL                     PARTITION: 1

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

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

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

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

EDIT TABLE

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

G7GNNHILAT01

OAPEL: G7GNNHILAT01 ALIAS: G7GNNHILAT01
EXT: A PSID: FV
SCLK1: 03899120:00:0 SCLK2: 03899122:00:0
SCET1: 97-095/04:40:21.007 SCET2: 97-095/04:42:22.341
TARGET: GANYMEDE PARTITION: 1

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

MB_DOWN: 00000 MB_UP: 00000
COMP_FLAG: 1
EST_COMP: 2.0 EST_COMPV: 0.3
RATE_CON1: 00000 RATE_CON2: 65525
NWAVETOT: 192 TLMFMT: LPU

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

WETGID: 0326192001 03 26 192 001
WTGRP_SIZ: 26

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	00800	0,0000,1000,0000,0000
1	1BDFF	1,1011,1101,1111,1111
2	00800	0,0000,1000,0000,0000
3	1BDFF	1,1011,1101,1111,1111
4	00800	0,0000,1000,0000,0000
5	1BDFF	1,1011,1101,1111,1111
6	00800	0,0000,1000,0000,0000
7	1BDFF	1,1011,1101,1111,1111
8	00800	0,0000,1000,0000,0000
9	1BDFF	1,1011,1101,1111,1111
10	00800	0,0000,1000,0000,0000
11	1BDFF	1,1011,1101,1111,1111
12	00800	0,0000,1000,0000,0000
13	1BDFF	1,1011,1101,1111,1111
14	00800	0,0000,1000,0000,0000
15	1BDFF	1,1011,1101,1111,1111
16	00800	0,0000,1000,0000,0000
17	1BDFF	1,1011,1101,1111,1111
18	00800	0,0000,1000,0000,0000
19	1BDFF	1,1011,1101,1111,1111
20	00800	0,0000,1000,0000,0000
21	1BDFF	1,1011,1101,1111,1111
22	00800	0,0000,1000,0000,0000
23	1BDFF	1,1011,1101,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

G7GNNHILAT01

OAPEL: G7GNNHILAT01 ALIAS: G7GNNHILAT01
EXT: B PSID: FV
SCLK1: 03899122:16:0 SCLK2: 03899135:70:0
SCET1: 97-095/04:42:33.007 SCET2: 97-095/04:56:17.672
TARGET: GANYMEDE PARTITION: 1

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

MB_DOWN: 00000 MB_UP: 00000
COMP_FLAG: 1
EST_COMP: 2.0 EST_COMPV: 0.3
RATE_CON1: 00000 RATE_CON2: 65525
NWAVETOT: 192 TLMFMT: LPU

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

WETGID: 0326192001 03 26 192 001
WTGRP_SIZ: 26

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	00800	0,0000,1000,0000,0000
1	1BDFF	1,1011,1101,1111,1111
2	00800	0,0000,1000,0000,0000
3	1BDFF	1,1011,1101,1111,1111
4	00800	0,0000,1000,0000,0000
5	1BDFF	1,1011,1101,1111,1111
6	00800	0,0000,1000,0000,0000
7	1BDFF	1,1011,1101,1111,1111
8	00800	0,0000,1000,0000,0000
9	1BDFF	1,1011,1101,1111,1111
10	00800	0,0000,1000,0000,0000
11	1BDFF	1,1011,1101,1111,1111
12	00800	0,0000,1000,0000,0000
13	1BDFF	1,1011,1101,1111,1111
14	00800	0,0000,1000,0000,0000
15	1BDFF	1,1011,1101,1111,1111
16	00800	0,0000,1000,0000,0000
17	1BDFF	1,1011,1101,1111,1111
18	00800	0,0000,1000,0000,0000
19	1BDFF	1,1011,1101,1111,1111
20	00800	0,0000,1000,0000,0000
21	1BDFF	1,1011,1101,1111,1111
22	00800	0,0000,1000,0000,0000
23	1BDFF	1,1011,1101,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

G7INTHRMAL06

```
OAPEL:  G7INTHRMAL06              ALIAS:  G7INTHRMAL06
EXT:    A                         PSID:   EW
SCLK1:  03899149:00:0             SCLK2:  03899152:01:0
SCET1:    97-095/05:09:40.339     SCET2:    97-095/05:12:43.006
TARGET: IO                        PARTITION: 1

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

MB_DOWN:    00000                 MB_UP:      00000
COMP_FLAG:  1
EST_COMP:   2.0                   EST_COMPV:  0.3
RATE_CON1:  00000                 RATE_CON2:  65525
NWAVETOT:   192                   TLMFMT:     LPU

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

WETGID:     0326192001          03  26  192  001
WTGRP_SIZ:  26
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	00100	0,0000,0001,0000,0000
1	1BDFF	1,1011,1101,1111,1111
2	00100	0,0000,0001,0000,0000
3	1BDFF	1,1011,1101,1111,1111
4	00100	0,0000,0001,0000,0000
5	1BDFF	1,1011,1101,1111,1111
6	00100	0,0000,0001,0000,0000
7	1BDFF	1,1011,1101,1111,1111
8	00100	0,0000,0001,0000,0000
9	1BDFF	1,1011,1101,1111,1111
10	00100	0,0000,0001,0000,0000
11	1BDFF	1,1011,1101,1111,1111
12	00100	0,0000,0001,0000,0000
13	1BDFF	1,1011,1101,1111,1111
14	00100	0,0000,0001,0000,0000
15	1BDFF	1,1011,1101,1111,1111
16	00100	0,0000,0001,0000,0000
17	1BDFF	1,1011,1101,1111,1111
18	00100	0,0000,0001,0000,0000
19	1BDFF	1,1011,1101,1111,1111
20	00100	0,0000,0001,0000,0000
21	1BDFF	1,1011,1101,1111,1111
22	00100	0,0000,0001,0000,0000
23	1BDFF	1,1011,1101,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

G7GNBRITRL01

```
OAPEL:  G7GNBRITRL01              ALIAS:  G7GNBRITRL01
EXT:    A                         PSID:   EX
SCLK1:  03899219:00:0             SCLK2:  03899223:63:0
SCET1:    97-095/06:20:27.003     SCET2:    97-095/06:25:11.669
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:   360                   TLMFMT:     MPW

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

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

EDIT TABLE

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

G7GNKITTU_01

OAPEL: G7GNKITTU_01 ALIAS: G7GNKITTU_01
EXT: A PSID: EY
SCLK1: 03899241:01:0 SCLK2: 03899252:51:0
SCET1: 97-095/06:42:42.335 SCET2: 97-095/06:54:23.002
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: 360 TLMFMT: MPW

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

WETGID: 0326360001 03 26 360 001
WTGRP_SIZ: 26

EDIT TABLE

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

G7GNGLOBAL02

```
OAPEL:  G7GNGLOBAL02              ALIAS:  G7GNGLOBAL02
EXT:    A                         PSID:   FC
SCLK1:  03899697:90:0             SCLK2:  03899705:06:0
SCET1:    97-095/14:24:46.318     SCET2:    97-095/14:31:55.651
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:   360                   TLMFMT:     MPW

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

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

EDIT TABLE

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

G7JNFEA13001

```
OAPEL:  G7JNFEA13001            ALIAS:  G7JNFEA13001
EXT:    A                       PSID:   EZ
SCLK1:  03899831:90:0           SCLK2:  03899833:57:0
SCET1:    97-095/16:40:15.646   SCET2:    97-095/16:41:54.980
TARGET: JUPITER                 PARTITION: 1

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

MB_DOWN:    00000               MB_UP:      00000
COMP_FLAG:  1
EST_COMP:   2.0                 EST_COMPV:  0.3
RATE_CON1:  00000               RATE_CON2:  65525
NWAVETOT:     4                 TLMFMT:     LPU

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

WETGID:     0507004001          05  07  004  001
WTGRP_SIZ:  7
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	00000	0,0000,0000,0000,0000
1	01900	0,0001,1001,0000,0000
2	10000	1,0000,0000,0000,0000
3	00000	0,0000,0000,0000,0000
4	00000	0,0000,0000,0000,0000
5	00000	0,0000,0000,0000,0000
6	00000	0,0000,0000,0000,0000

G7JNFEA13002

```
OAPEL:  G7JNFEA13002            ALIAS:  G7JNFEA13002
EXT:    A                       PSID:   FA
SCLK1:  03899856:90:0           SCLK2:  03899858:61:0
SCET1:    97-095/17:05:32.312   SCET2:    97-095/17:07:13.666
TARGET: JUPITER                 PARTITION: 1

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

MB_DOWN:    00000               MB_UP:      00000
COMP_FLAG:  1
EST_COMP:   2.0                 EST_COMPV:  0.3
RATE_CON1:  00000               RATE_CON2:  65525
NWAVETOT:    15                 TLMFMT:     LPU

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

WETGID:     0507015001          05  07  015  001
WTGRP_SIZ:  7
```

EDIT TABLE

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

G7JNPFB13001

```
OAPEL:  G7JNPFB13001            ALIAS:  G7JNPFB13001
EXT:    A                       PSID:   FB
SCLK1:  03899881:86:1           SCLK2:  03899883:58:0
SCET1:    97-095/17:30:45.666   SCET2:    97-095/17:32:28.311
TARGET: JUPITER                 PARTITION: 1

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

MB_DOWN:    00000               MB_UP:      00000
COMP_FLAG:  1
EST_COMP:   2.0                 EST_COMPV:  0.3
RATE_CON1:  00000               RATE_CON2:  65525
NWAVETOT:    15                 TLMFMT:     LPU

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

WETGID:     0507015001          05  07  015  001
WTGRP_SIZ:  7
```

EDIT TABLE

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

G7JNTHRMNS01

```
OAPEL:  G7JNTHRMNS01            ALIAS:  G7JNTHRMNS01
EXT:    A                       PSID:   FD
SCLK1:  03899963:00:0           SCLK2:  03899973:90:0
SCET1:    97-095/18:52:42.975   SCET2:    97-095/19:03:49.642
TARGET: JUPITER                 PARTITION: 1

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

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

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

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

EDIT TABLE

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

G7JNTHRMNS01

OAPEL: G7JNTHRMNS01 ALIAS: G7JNTHRMNS01
EXT: B PSID: FD
SCLK1: 03899974:00:0 SCLK2: 03899986:84:0
SCET1: 97-095/19:03:50.308 SCET2: 97-095/19:16:54.307
TARGET: JUPITER PARTITION: 1

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

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

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

WETGID: 0326253001 03 26 253 001
WTGRP_SIZ: 26

EDIT TABLE

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

G7HNDARK__04

OAPEL: G7HNDARK__04 ALIAS: G7HNDARK__04
EXT: A PSID: FE
SCLK1: 03900296:87:0 SCLK2: 03900298:02:0
SCET1: 97-096/00:30:22.963 SCET2: 97-096/00:31:27.630
TARGET: SKY PARTITION: 1

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

MB_DOWN: 00000 MB_UP: 00000
COMP_FLAG: 1
EST_COMP: 2.0 EST_COMPV: 0.3
RATE_CON1: 00000 RATE_CON2: 65525
NWAVETOT: 32 TLMFMT: LPU

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

WETGID: 0326032001 03 26 032 001
WTGRP_SIZ: 26

EDIT TABLE

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

G7JNFEA14201

```
OAPEL:  G7JNFEA14201            ALIAS:  G7JNFEA14201
EXT:    A                       PSID:   FF
SCLK1:  03900449:00:0           SCLK2:  03900450:76:0
SCET1:    97-096/03:04:06.957   SCET2:    97-096/03:05:58.266
TARGET: JUPITER                 PARTITION: 1

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

MB_DOWN:    00000               MB_UP:      00000
COMP_FLAG:  1
EST_COMP:   2.0                 EST_COMPV:  0.3
RATE_CON1:  00000               RATE_CON2:  65525
NWAVETOT:     4                 TLMFMT:     LPU

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

WETGID:     0507004001          05  07  004  001
WTGRP_SIZ:  7
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	00000	0,0000,0000,0000,0000
1	01900	0,0001,1001,0000,0000
2	10000	1,0000,0000,0000,0000
3	00000	0,0000,0000,0000,0000
4	00000	0,0000,0000,0000,0000
5	00000	0,0000,0000,0000,0000
6	00000	0,0000,0000,0000,0000

G7JNPFC14201

```
OAPEL:  G7JNPFC14201            ALIAS:  G7JNPFC14201
EXT:    A                       PSID:   FG
SCLK1:  03900460:86:0           SCLK2:  03900462:76:0
SCET1:    97-096/03:16:11.600   SCET2:    97-096/03:18:06.266
TARGET: JUPITER                 PARTITION: 1

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

MB_DOWN:    00000               MB_UP:      00000
COMP_FLAG:  1
EST_COMP:   2.0                 EST_COMPV:  0.3
RATE_CON1:  00000               RATE_CON2:  65525
NWAVETOT:     4                 TLMFMT:     LPU

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

WETGID:     0507004001          05  07  004  001
WTGRP_SIZ:  7
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	00000	0,0000,0000,0000,0000
1	01900	0,0001,1001,0000,0000
2	10000	1,0000,0000,0000,0000
3	00000	0,0000,0000,0000,0000
4	00000	0,0000,0000,0000,0000
5	00000	0,0000,0000,0000,0000
6	00000	0,0000,0000,0000,0000

G7JNPFB14201

```
OAPEL:  G7JNPFB14201            ALIAS:  G7JNPFB14201
EXT:    A                       PSID:   FH
SCLK1:  03900477:86:0           SCLK2:  03900479:76:0
SCET1:    97-096/03:33:22.933   SCET2:    97-096/03:35:17.600
TARGET: JUPITER                 PARTITION: 1

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

MB_DOWN:    00000               MB_UP:      00000
COMP_FLAG:  1
EST_COMP:   2.0                 EST_COMPV:  0.3
RATE_CON1:  00000               RATE_CON2:  65525
NWAVETOT:     4                 TLMFMT:     LPU

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

WETGID:     0507004001          05  07  004  001
WTGRP_SIZ:  7
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	00000	0,0000,0000,0000,0000
1	01900	0,0001,1001,0000,0000
2	10000	1,0000,0000,0000,0000
3	00000	0,0000,0000,0000,0000
4	00000	0,0000,0000,0000,0000
5	00000	0,0000,0000,0000,0000
6	00000	0,0000,0000,0000,0000

G7NNHEALTH07

```
OAPEL:  G7NNHEALTH07              ALIAS:  G7NNHEALTH07
EXT:    R                         PSID:   KI
SCLK1:  03900978:00:0             SCLK2:  03900978:12:0
SCET1:  1997-096/11:58:59.600     SCET2:  1997-096/11:59:07.600
TARGET: CAL                       PARTITION: 1

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

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

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

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

EDIT TABLE

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

G7JNPFB15001

```
OAPEL:  G7JNPFB15001            ALIAS:  G7JNPFB15001
EXT:    A                       PSID:   FI
SCLK1:  03901047:86:0           SCLK2:  03901049:76:0
SCET1:    97-096/13:09:42.933   SCET2:    97-096/13:11:37.600
TARGET: JUPITER                 PARTITION: 1

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

MB_DOWN:    00000               MB_UP:      00000
COMP_FLAG:  1
EST_COMP:   2.0                 EST_COMPV:  0.3
RATE_CON1:  00000               RATE_CON2:  65525
NWAVETOT:     4                 TLMFMT:     LPU

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

WETGID:     0507004001          05  07  004  001
WTGRP_SIZ:  7
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	00000	0,0000,0000,0000,0000
1	01900	0,0001,1001,0000,0000
2	10000	1,0000,0000,0000,0000
3	00000	0,0000,0000,0000,0000
4	00000	0,0000,0000,0000,0000
5	00000	0,0000,0000,0000,0000
6	00000	0,0000,0000,0000,0000

G7JNPFC15001

```
OAPEL:  G7JNPFC15001            ALIAS:  G7JNPFC15001
EXT:    A                       PSID:   FJ
SCLK1:  03901054:86:0           SCLK2:  03901056:76:0
SCET1:    97-096/13:16:47.600   SCET2:    97-096/13:18:42.266
TARGET: JUPITER                 PARTITION: 1

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

MB_DOWN:    00000               MB_UP:      00000
COMP_FLAG:  1
EST_COMP:   2.0                 EST_COMPV:  0.3
RATE_CON1:  00000               RATE_CON2:  65525
NWAVETOT:     4                 TLMFMT:     LPU

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

WETGID:     0507004001          05  07  004  001
WTGRP_SIZ:  7
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	00000	0,0000,0000,0000,0000
1	01900	0,0001,1001,0000,0000
2	10000	1,0000,0000,0000,0000
3	00000	0,0000,0000,0000,0000
4	00000	0,0000,0000,0000,0000
5	00000	0,0000,0000,0000,0000
6	00000	0,0000,0000,0000,0000

G7JNFEA15003

```
OAPEL:  G7JNFEA15003            ALIAS:  G7JNFEA15003
EXT:    A                       PSID:   FK
SCLK1:  03901069:86:0           SCLK2:  03901071:55:0
SCET1:    97-096/13:31:57.600   SCET2:    97-096/13:33:38.268
TARGET: JUPITER                 PARTITION: 1

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

MB_DOWN:    00000               MB_UP:      00000
COMP_FLAG:  1
EST_COMP:   2.0                 EST_COMPV:  0.3
RATE_CON1:  00000               RATE_CON2:  65525
NWAVETOT:     4                 TLMFMT:     LPU

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

WETGID:     0507004001          05  07  004  001
WTGRP_SIZ:  7
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	00000	0,0000,0000,0000,0000
1	01900	0,0001,1001,0000,0000
2	10000	1,0000,0000,0000,0000
3	00000	0,0000,0000,0000,0000
4	00000	0,0000,0000,0000,0000
5	00000	0,0000,0000,0000,0000
6	00000	0,0000,0000,0000,0000

G7NNHEALTH08

```
OAPEL:  G7NNHEALTH08            ALIAS:  G7NNHEALTH08
EXT:    R                       PSID:   KJ
SCLK1:  03901175:00:0           SCLK2:  03901175:12:0
SCET1:  1997-096/15:18:10.933   SCET2:  1997-096/15:18:18.933
TARGET: CAL                     PARTITION: 1

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

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

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

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

EDIT TABLE

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

G7JNFEZ15702

```
OAPEL:  G7JNFEZ15702            ALIAS:  G7JNFEZ15702
EXT:    A                       PSID:   FM
SCLK1:  03901203:00:0           SCLK2:  03901204:58:0
SCET1:    97-096/15:46:29.596   SCET2:    97-096/15:48:09.596
TARGET: JUPITER                 PARTITION: 1

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

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

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

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

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	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

G7NNRCTRLT01

OAPEL: G7NNRCTRLT01 ALIAS: LSNNRCTRTA01
EXT: R PSID: XU
SCLK1: 03904887:00:0 SCLK2: 03904887:12:0
SCET1: 1997-099/05:51:25.466 SCET2: 1997-099/05:51:33.466
TARGET: CAL PARTITION: 1

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

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

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

WETGID: 0303252000 03 03 252 000
WTGRP_SIZ: 3

EDIT TABLE

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

G7NNRCTRLT01

```
OAPEL:  G7NNRCTRLT01            ALIAS:  LSNNRCTRTA01
EXT:    S                       PSID:   XU
SCLK1:  03904893:00:0           SCLK2:  03904894:12:0
SCET1:  1997-099/05:57:29.466   SCET2:  1997-099/05:58:38.166
TARGET: CAL                     PARTITION: 1

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

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

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

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

EDIT TABLE

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

G7NNRCTRLT01

OAPEL: G7NNRCTRLT01 ALIAS: LSNNRCTRTA01
EXT: T PSID: XU
SCLK1: 03904899:00:0 SCLK2: 03904899:12:0
SCET1: 1997-099/06:03:33.466 SCET2: 1997-099/06:03:41.466
TARGET: CAL PARTITION: 1

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

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

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

WETGID: 0303252000 03 03 252 000
WTGRP_SIZ: 3

EDIT TABLE

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

G7NNPCTRLT01

```
OAPEL:  G7NNPCTRLT01            ALIAS:  G7NNPCTRLT01
EXT:    R                       PSID:   FA
SCLK1:  03911857:00:0           SCLK2:  03911858:12:0
SCET1:  1997-104/03:18:51.866   SCET2:  1997-104/03:20:00.533
TARGET: CAL                     PARTITION: 1

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

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

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

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

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1FFC0	1,1111,1111,1100,0000
1	1FFC0	1,1111,1111,1100,0000
2	1FFC0	1,1111,1111,1100,0000
3	1FFC0	1,1111,1111,1100,0000
4	1FFC0	1,1111,1111,1100,0000
5	1FFC0	1,1111,1111,1100,0000
6	1FFC0	1,1111,1111,1100,0000
7	1FFC0	1,1111,1111,1100,0000
8	1FFC0	1,1111,1111,1100,0000
9	1FFC0	1,1111,1111,1100,0000
10	1FFC0	1,1111,1111,1100,0000
11	1FFC0	1,1111,1111,1100,0000
12	1FF80	1,1111,1111,1000,0000
13	1FF80	1,1111,1111,1000,0000
14	1FF80	1,1111,1111,1000,0000
15	1FF80	1,1111,1111,1000,0000
16	1FF80	1,1111,1111,1000,0000
17	1FF80	1,1111,1111,1000,0000
18	1FF80	1,1111,1111,1000,0000
19	1FF80	1,1111,1111,1000,0000
20	1FF80	1,1111,1111,1000,0000
21	1FF80	1,1111,1111,1000,0000
22	1FF80	1,1111,1111,1000,0000
23	1FF80	1,1111,1111,1000,0000
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

G7NNPCTRLT01

```
OAPEL:  G7NNPCTRLT01            ALIAS:  G7NNPCTRLT01
EXT:    S                       PSID:   FA
SCLK1:  03911863:00:0           SCLK2:  03911872:12:0
SCET1:  1997-104/03:24:55.866   SCET2:  1997-104/03:34:09.866
TARGET: CAL                     PARTITION: 1

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

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

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

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

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1FFC0	1,1111,1111,1100,0000
1	1FFC0	1,1111,1111,1100,0000
2	1FFC0	1,1111,1111,1100,0000
3	1FFC0	1,1111,1111,1100,0000
4	1FFC0	1,1111,1111,1100,0000
5	1FFC0	1,1111,1111,1100,0000
6	1FFC0	1,1111,1111,1100,0000
7	1FFC0	1,1111,1111,1100,0000
8	1FFC0	1,1111,1111,1100,0000
9	1FFC0	1,1111,1111,1100,0000
10	1FFC0	1,1111,1111,1100,0000
11	1FFC0	1,1111,1111,1100,0000
12	1FF80	1,1111,1111,1000,0000
13	1FF80	1,1111,1111,1000,0000
14	1FF80	1,1111,1111,1000,0000
15	1FF80	1,1111,1111,1000,0000
16	1FF80	1,1111,1111,1000,0000
17	1FF80	1,1111,1111,1000,0000
18	1FF80	1,1111,1111,1000,0000
19	1FF80	1,1111,1111,1000,0000
20	1FF80	1,1111,1111,1000,0000
21	1FF80	1,1111,1111,1000,0000
22	1FF80	1,1111,1111,1000,0000
23	1FF80	1,1111,1111,1000,0000
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

G7NNOPCAL_01

OAPEL: G7NNOPCAL_01 ALIAS: G7NNOPCAL_01
EXT: R PSID: DN
SCLK1: 03935940:00:0 SCLK2: 03935942:12:0
SCET1: 1997-121/01:09:26.266 SCET2: 1997-121/01:11:35.600
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: 168 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: 0302168000 03 02 168 000
WTGRP_SIZ: 2

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1E700	1,1110,0111,0000,0000
1	1E700	1,1110,0111,0000,0000
2	1E700	1,1110,0111,0000,0000
3	1E700	1,1110,0111,0000,0000
4	1E700	1,1110,0111,0000,0000
5	1E700	1,1110,0111,0000,0000
6	1E700	1,1110,0111,0000,0000
7	1E700	1,1110,0111,0000,0000
8	1E700	1,1110,0111,0000,0000
9	1E700	1,1110,0111,0000,0000
10	1E700	1,1110,0111,0000,0000
11	1E700	1,1110,0111,0000,0000
12	1E700	1,1110,0111,0000,0000
13	1E700	1,1110,0111,0000,0000
14	1E700	1,1110,0111,0000,0000
15	1E700	1,1110,0111,0000,0000
16	1E700	1,1110,0111,0000,0000
17	1E700	1,1110,0111,0000,0000
18	1E700	1,1110,0111,0000,0000
19	1E700	1,1110,0111,0000,0000
20	1E700	1,1110,0111,0000,0000
21	1E700	1,1110,0111,0000,0000
22	1E700	1,1110,0111,0000,0000
23	1E700	1,1110,0111,0000,0000
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

NIMS G7 OBSTAB

This is a time-ordered ASCII TABLE (listing) of GALILEO NIMS observation parameters for use by downlink data processing of the NIMS G7 data. Each Obstab entry is 512 bytes long but is presented here as 4 lines of 128 characters per entry. Included items come from NIMS commands in (1) the Standard Sequence Data File (SSDF) and (2) the Playback Table Update Process (PTUP), plus some items from (3) the NIMS/CDS software load.

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

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

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

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

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

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

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-------------------------------------------------------------------------------------------------------------------------------
# WETGID       10 319 - 328     .Wavelength selection group ID (unique)         PBK: WET_GID    (realtime <tbd>)
                                  Rule of formation: mmeelllnnn where
                                   mm  = instrument mode (0-15)
                                   ee  = # entries in group
                                   lll = number of wavelengths selected
                                   nnn = sequence number
* WETGRPSIZ     2 329 - 330     .# Wavelength Edit entries (1-26)               PBK: ED_GRP_LEN (realtime SEF: 37ETB <tbd>)
* WETGRP      182 331 - 512     .Wavelength Edit Table group:  WETGRPSIZ        PBK: ED_GRP     (realtime SEF: 37ETB data bytes 2..)
                                  entries, each one has 7 characters.  The
                                  first 2 characters are the repeat count
                                  (01-26).  The other 5 characters contain
                                  5 hex digits, representing the detector
                                  mask in the form BHHHH where B is 0 or 1
                                  and H has range 0-15.  (These entries are
                                  from the 37ETB instrument edit group for
                                  realtime data and from the logical AND of
                                  corresponding entries in the instrument
                                  and playback edit groups for playback data.)
--------------------------------
.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 ).
-------------------------------------------------------------------------------------------------------------------------------
```

```
----------------------------------------------------------------------------------------------------------------------------
G7NNSTRCAL01G7NNSTRCAL01ADB03895309:00:003895309:55:01         CAL      7414 1 1 0 0 012 1 1 0 0 01200010 0000000000 1 2.00.3000
0065525                   17MPW  97-092/12:27:00.481  97-092/12:27:37.147
          0000000000000000000000000000000000000000000000000000000071301700113011FFFF011FFFF011FFFF011FFFF011FFFF011FFFF011FF
FF011FFFF011FFFF011FFFF011FFFF0100000
G7JNAURMAP01G7JNAURMAP01RDC03895575:00:003895578:90:01         JUPITER  3214 1 1 0 0 124 1 1 0 0 12400100 1111001111 0 0.00.0000
0000000                   408RT 1997-092/16:55:57.8001997-092/16:59:59.800
          0000000000000000000000000000000000000000000000000000302408000 2241FFFF0200000

G7JNAURMAP01G7JNAURMAP01SDC03895579:00:003895581:12:01         JUPITER  3214 1 1 0 0 124 1 1 0 0 12400100 1110110111 0 0.00.0000
0000000                   408RT 1997-092/17:00:00.4661997-092/17:02:09.800
          0000000000000000000000000000000000000000000000000000302408000 2241FFFF0200000

G7JNAURMAP01G7JNAURMAP01TDC03895637:00:003895640:90:01         JUPITER  3214 1 1 0 0 124 1 1 0 0 12400100 0111111110 0 0.00.0000
0000000                   408RT 1997-092/17:58:39.1331997-092/18:02:41.133
          0000000000000000000000000000000000000000000000000000302408000 2241FFFF0200000

G7JNAURMAP01G7JNAURMAP01UDC03895641:00:003895642:12:01         JUPITER  3214 1 1 0 0 124 1 1 0 0 12400100 1011111101 0 0.00.0000
0000000                   408RT 1997-092/18:02:41.8001997-092/18:03:50.466
          0000000000000000000000000000000000000000000000000000302408000 2241FFFF0200000

G7JNAURMAP01G7JNAURMAP01VDC03895665:00:003895668:90:01         JUPITER  3214 1 1 0 0 124 1 1 0 0 12400100 1111001111 0 0.00.0000
0000000                   408RT 1997-092/18:26:57.8001997-092/18:30:59.800
          0000000000000000000000000000000000000000000000000000302408000 2241FFFF0200000

G7JNAURMAP01G7JNAURMAP01WDC03895669:00:003895670:12:01         JUPITER  3214 1 1 0 0 124 1 1 0 0 12400100 1110110111 0 0.00.0000
0000000                   408RT 1997-092/18:31:00.4661997-092/18:32:10.133
          0000000000000000000000000000000000000000000000000000302408000 2241FFFF0200000

G7CNGLOBAL01G7CNGLOBAL01ADD03895685:86:003895688:89:01         CALLISTO 3414 1 1 0 0 124 1 1 0 0 12400012 0000000000 1 2.00.3000
0065525                   360MPW  97-092/18:48:09.133  97-092/18:51:13.133
          0300300300000300290280280290280320340310310320300290326360001260 11BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF01000000100000
G7HNDARK__01G7HNDARK__01ADA03896271:90:003896272:89:01         SKY      3414 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                    32LPU  97-093/04:40:42.445  97-093/04:41:42.445
          0000000000000000000000000000000000000000000000000032603200126011FDFF011FDFF0100000010000001000000100000010000001000
0001000000100000010000001000000100000010000001000000100000010000001000000100000010000001000000100000010000001000000100000
G7INCHEMIS01G7INCHEMIS01ADE03896303:00:003896305:14:01         IO       3214 1 1 0 0 124 1 1 0 0 12400012 0000000000 1 2.00.3000
0065525                   102LPU  97-093/05:12:03.111  97-093/05:14:13.777
          0300300300000300290280280290280320340310310320300290326102001260100000011FDFF0100000010000001001000011FDFF010000001000
0001001000011FDFF0100100010000001000000011FDFF0100100010000001001000011FDFF0100100010000001000000011FDFF0100000010000001000000100000
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G7INCHEMIS02G7INCHEMIS02ADG03896543:00:003896545:34:01         IO       3214 1 1 0 0 124 1 1 0 0 12400012 0000000000 1 2.00.3000
0065525                  216LPU  97-093/09:14:43.102  97-093/09:17:07.102
          030030030000030029028028029028032034031031032030029032621600126010058001 1BDFF0100580011BDFF0100580011BDFF0100580011BDFF0100580011BD
FF0100580011BDFF0100580011BDFF0100580011BDFF0100580011BDFF0100580011BDFF0100580011BDFF0100580011BDFF01000000100000
G7NNHEALTH01G7NNHEALTH01RKC03897045:00:003897045:12:01         CAL      3214 1 1 0 0 124 1 1 0 0 12400100 0000000000 0 0.00.0000
0000000                  003RT 1997-093/17:42:37.7331997-093/17:42:45.733
          00000000000000000000000000000000000000000000000000302003000 201080442500000

G7NNHEALTH02G7NNHEALTH02RKD03897076:00:003897076:12:01         CAL      3214 1 1 0 0 124 1 1 0 0 12400100 0000000000 0 0.00.0000
0000000                  003RT 1997-093/18:13:38.4001997-093/18:13:46.400
          00000000000000000000000000000000000000000000000000302003000 201080442500000

G7INHRSPEC01G7INHRSPEC01ADW03897244:00:003897246:85:01         IO       3214 1 1 0 0 124 1 1 0 0 12400012 0000000000 1 2.00.3000
0065525                  360MPW  97-093/21:03:30.409  97-093/21:06:28.409
          030030030000030029028028029028032034031031032030029032636000126011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF01000000100000
G7JNPFC04101G7JNPFC04101ADK03897276:00:003897277:58:01         JUPITER  5214 1 1 0 1 4 6 1 1 0 1 4 600010 0000000000 1 2.00.3000
0065525                   25LPU  97-093/21:35:51.742  97-093/21:37:31.075
          00000000000000000000000000000000000000000000000000507025001 701004000111D810119900010190201 0B8100100C010100000

G7JNFEAP4101G7JNFEAP4101ADM03897294:00:003897298:83:01         JUPITER  5214 1 1 0 1 4 6 1 1 0 1 4 600010 0000000000 1 2.00.3000
0065525                   25LPU  97-093/21:54:03.741  97-093/21:59:01.741
          00000000000000000000000000000000000000000000000000507025001 701004000111D810119900010190201 0B8100100C010100000

G7JNRTHOTS01G7JNRTHOTS01RLN03897302:00:003897302:12:01         JUPITER  3214 1 1 0 0 124 1 1 0 0 12400100 1101111011 0 0.00.0000
0000000                  408RT 1997-093/22:02:09.0661997-093/22:02:17.066
          00000000000000000000000000000000000000000000000000302408000 2241FFFF0200000

G7JNFEASUB01G7JNFEASUB01ADO03897354:00:003897359:25:01         JUPITER  3214 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                   80LPU  97-093/22:54:43.739  97-093/23:00:03.739
          00000000000000000000000000000000000000000000000000326080001260111400011140001114000111400011140001114000111400011940
00011A400011A400010A400010A400010A400010AC00010A800010A800011A800011A800011A800011A800011280001128000112800011280001000000100000
G7JNFEAP4102G7JNFEAP4102ADP03897368:00:003897372:85:01         JUPITER  5214 1 1 0 1 4 6 1 1 0 1 4 600010 0000000000 1 2.00.3000
0065525                    4LPU  97-093/23:08:53.071  97-093/23:13:52.404
          00000000000000000000000000000000000000000000000000507004001 701000000101900011000001000000100000010000001000000100000

G7JNPFTB4101G7JNPFTB4101ADQ03897377:00:003897380:46:01         JUPITER  5214 1 1 0 1 4 6 1 1 0 1 4 600010 0000000000 1 2.00.3000
0065525                   25LPU  97-093/23:17:59.071  97-093/23:21:31.738
          00000000000000000000000000000000000000000000000000507025001 701004000111D810119900010190201 0B8100100C010100000

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G7JNRTHOTS02G7JNRTHOTS02RLV03897383:00:003897383:12:01         JUPITER  3214 1 1 0 0 124 1 1 0 0 12400100 1101111011 0 0.00.0000
0000000                  408RT 1997-093/23:24:03.0661997-093/23:24:11.066
          00000000000000000000000000000000000000000000000000302408000 2241FFFF0200000

G7JNPFTB4102G7JNPFTB4102ADR03897443:00:003897446:46:01         JUPITER  5214 1 1 0 1 4 6 1 1 0 1 4 600010 0000000000 1 2.00.3000
0065525                   4LPU  97-094/00:24:43.068  97-094/00:28:15.735
          00000000000000000000000000000000000000000000000507004001 701000000101900011000001000000100000010000001000000100000

G7JNPFTD4101G7JNPFTD4101ADT03897463:00:003897466:46:01         JUPITER  5214 1 1 0 1 4 6 1 1 0 1 4 600010 0000000000 1 2.00.3000
0065525                   25LPU  97-094/00:44:56.400  97-094/00:48:29.068
          00000000000000000000000000000000000000000000000507025001 701004000111D810119900010190201OB8100100C010100000

G7JNRTHOTS03G7JNRTHOTS03RLS03897471:00:003897471:12:01         JUPITER  3214 1 1 0 0 124 1 1 0 0 12400100 1101111011 0 0.00.0000
0000000                  408RT 1997-094/00:53:01.7331997-094/00:53:09.733
          00000000000000000000000000000000000000000000000302408000 2241FFFF0200000

G7INVOLCAN05G7INVOLCAN05AEA03897481:00:003897481:90:01         IO       3414 1 1 0 0 124 1 1 0 0 12400012 0000000000 1 2.00.3000
0065525                  408MPW  97-094/01:03:08.400  97-094/01:04:08.400
          03003003000003002902802802902803203403103103203002903264080012601 1FFFF011FFFF011FFFF011FFFF011FFFF011FFFF011FFFF011FFFF011FF
FF011FFFF011FFFF011FFFF011FFFF011FFFF011FFFF011FFFF011FFFF011FFFF011FFFF011FFFF011FFFF011FFFF011FFFF01000000100000
G7HNDARK__02G7HNDARK__02ADS03897493:00:003897493:90:01         SKY      3214 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                   32LPU  97-094/01:15:16.400  97-094/01:16:16.400
          00000000000000000000000000000000000000000000000000326032001260 11FDFF011FDFF0100000010000001000000100000010000001000
0001000000100000010000001000000100000010000001000000100000010000001000000100000010000001000000100000010000001000000100000
G7INCHEMIS04G7INCHEMIS04AEB03897499:00:003897502:41:01         IO       3214 1 1 0 0 124 1 1 0 0 12400012 0000000000 1 2.00.3000
0065525                  216LPU  97-094/01:21:20.399  97-094/01:24:50.399
          03003003000003002902802802902803203403103103203002903262160012601 00100580011BDFF0100580011BDFF0100580011BDFF0100580011BD
FF0100580011BDFF0100580011BDFF0100580011BDFF0100580011BDFF0100580011BDFF0100580011BDFF0100580011BDFF01000000100000
G7ENFLEXUS01G7ENFLEXUS01ADX03897540:35:003897541:04:01         EUROPA   3314 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                  228LPU  97-094/02:03:11.732  97-094/02:03:51.732
          00000000000000000000000000000000000000000000000000326228001260 101C00011FDFF0101C00011FDFF0101C00011FDFF0101C00011FD
FF0101C00011FDFF0101C00011FDFF0101C00011FDFF0101C00011FDFF0101C00011FDFF0101C00011FDFF0101C00011FDFF01000000100000
G7ENFLEXUS01G7ENFLEXUS01BDX03897552:06:003897556:12:01         EUROPA   3414 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                  108LPU  97-094/02:15:00.397  97-094/02:19:07.064
          00000000000000000000000000000000000000000000000000326108001260 10000001001FF0100000010 01FF0100000010 01FF0100000010 01
FF0100000010 01FF0100000010 01FF0100000010 01FF0100000010 01FF0100000010 01FF0100000010 01FF0100000010 01FF0100000010 01FF01000000100000
G7ENFLEXUS01G7ENFLEXUS01CDX03897556:13:003897557:06:01         EUROPA   3414 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                  228LPU  97-094/02:19:07.730  97-094/02:20:03.731
          00000000000000000000000000000000000000000000000000326228001260 101C00011FDFF0101C00011FDFF0101C00011FDFF0101C00011FD
FF0101C00011FDFF0101C00011FDFF0101C00011FDFF0101C00011FDFF0101C00011FDFF0101C00011FDFF0101C00011FDFF01000000100000
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G7INCHEMIS05G7INCHEMIS05AEF03897704:90:003897708:90:01         IO       3214 1 1 0 0 124 1 1 0 0 12400012 0000000000 1 2.00.3000
0065525                  216LPU  97-094/04:49:37.726  97-094/04:53:40.391
          0300300300000300290280280290280320340310310320300290326216001260100580011BDFF0100580011BDFF0100580011BDFF0100580011BD
FF0100580011BDFF0100580011BDFF0100580011BDFF0100580011BDFF0100580011BDFF0100580011BDFF0100580011BDFF01000000100000
G7JNFEX00203G7JNFEX00203AEG03897735:90:003897737:58:01         JUPITER  5214 1 1 0 1 4 6 1 1 0 1 4 600010 0000000000 1 2.00.3000
0065525                   15LPU  97-094/05:20:58.390  97-094/05:22:38.390
          0000000000000000000000000000000000000000000000000507015001 701000000111500011A0000100800010B8100100C000100000

G7ENTYREMA01G7ENTYREMA01AEH03897769:44:003897782:77:01         EUROPA   3214 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                  360MPW  97-094/05:54:50.389  97-094/06:08:21.056
          0000000000000000000000000000000000000000000000000032636000126011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF01000000100000
G7NNHEALTH03G7NNHEALTH03RKE03898063:00:003898063:12:01         CAL      3214 1 1 0 0 124 1 1 0 0 12400100 0000000000 0 0.00.0000
0000000                  003RT 1997-094/10:51:36.4001997-094/10:51:44.400
          0000000000000000000000000000000000000000000000000302003000 201080442500000

G7JNHOTMAP01G7JNHOTMAP01AFR03898081:00:003898092:00:01         JUPITER  3214 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                   72LPU  97-094/11:09:48.379  97-094/11:20:55.711
          0000000000000000000000000000000000000000000000000032607200126010000701000070100007010000701000070100007010000701000
070100007010000701000070100007010000701000070100007010000701000070100007010000701000070100007010000701000070100007010000
G7JNFEAP6601G7JNFEAP6601AEJ03898617:31:003898619:59:01         JUPITER  5214 1 1 0 1 4 6 1 1 0 1 4 600010 0000000000 1 2.00.3000
0065525                   25LPU  97-094/20:12:06.359  97-094/20:14:26.358
          0000000000000000000000000000000000000000000000000507025001 701004000111D810119900010190201 0B8100100C010100000

G7JNPFTB6601G7JNPFTB6601AEK03898627:79:003898629:46:01         JUPITER  5214 1 1 0 1 4 6 1 1 0 1 4 600010 0000000000 1 2.00.3000
0065525                   25LPU  97-094/20:22:45.024  97-094/20:24:24.358
          0000000000000000000000000000000000000000000000000507025001 701004000111D810119900010190201 0B8100100C010100000

G7NNHEALTH04G7NNHEALTH04RKF03898632:00:003898632:12:01         CAL      3214 1 1 0 0 124 1 1 0 0 12400100 0000000000 0 0.00.0000
0000000                  003RT 1997-094/20:26:55.6661997-094/20:27:03.666
          0000000000000000000000000000000000000000000000000302003000 201080442500000

G7JNFEAP6602G7JNFEAP6602AEL03898680:00:003898684:82:01         JUPITER  5214 1 1 0 1 4 6 1 1 0 1 4 600010 0000000000 1 2.00.3000
0065525                   25LPU  97-094/21:15:27.689  97-094/21:20:25.022
          0000000000000000000000000000000000000000000000000507025001 701004000111D810119900010190201 0B8100100C010100000

G7JNPFTB6602G7JNPFTB6602AEM03898690:00:003898693:47:01         JUPITER  5214 1 1 0 1 4 6 1 1 0 1 4 600010 0000000000 1 2.00.3000
0065525                   25LPU  97-094/21:25:34.356  97-094/21:29:07.689
          0000000000000000000000000000000000000000000000000507025001 701004000111D810119900010190201 0B8100100C010100000

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G7JNPFC06601G7JNPFC06601AEN03898698:00:003898702:86:01         JUPITER  5214 1 1 0 1 4 6 1 1 0 1 4 600010 0000000000 1 2.00.3000
0065525                   25LPU  97-094/21:33:39.689  97-094/21:38:39.688
          00000000000000000000000000000000000000000000000000507025001 701004000111D810119900010190201OB8100100C010100000

G7JNFEA53M01G7JNFEA53M01AEO03898731:00:003898736:25:01         JUPITER  3414 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                   83LPU  97-094/22:07:01.687  97-094/22:12:21.687
          00000000000000000000000000000000000000000000000000032608300126010100301010030101003010110301001030101107010010701001
0701001070100107010010701001070100107010010701000070100007010000701000070100007010000701000070100007010000701000070100000100000
G7JNFEA5UM01G7JNFEA5UM01AEP03898781:00:003898785:86:01         JUPITER  3414 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                   80MPW  97-094/22:57:35.018  97-094/23:02:35.018
          00000000000000000000000000000000000000000000000000032608000126010000701000070100007010000701000070100007010000701000
0701000070100007010000701000070100007010000701000070100007010000F010000F010000F010000F010000F010000F010000F010000F01000000100000
G7NNHEALTH05G7NNHEALTH05RKG03898801:00:003898801:12:01         CAL      3214 1 1 0 0 124 1 1 0 0 12400100 0000000000 0 0.00.0000
0000000                   003RT 1997-094/23:17:48.3331997-094/23:17:56.333
          00000000000000000000000000000000000000000000000000302003000 201080442500000

G7GNGLOBAL01G7GNGLOBAL01AES03898870:00:003898875:20:01         GANYMEDE 3314 1 1 0 0 124 1 1 0 0 12400012 0000000000 1 2.00.3000
0065525                   192LPU  97-095/00:27:34.349  97-095/00:32:51.015
          03003003000003002902802802902803203403103103203002903261920012601004000 11BDFF0100400011BDFF0100400011BDFF0100400011BD
FF0100400011BDFF0100400011BDFF0100400011BDFF0100400011BDFF0100400011BDFF0100400011BDFF0100400011BDFF01000001000000
G7GNGLOBAL01G7GNGLOBAL01BES03898881:61:003898889:03:01         GANYMEDE 3314 1 1 0 0 124 1 1 0 0 12400012 0000000000 1 2.00.3000
0065525                   192LPU  97-095/00:39:22.349  97-095/00:46:49.014
          03003003000003002902802802902803203403103103203002903261920012601004000 11BDFF0100400011BDFF0100400011BDFF0100400011BD
FF0100400011BDFF0100400011BDFF0100400011BDFF0100400011BDFF0100400011BDFF0100400011BDFF0100400011BDFF01000001000000
G7GNGLOBAL01G7GNGLOBAL01CES03898893:31:003898897:60:01         GANYMEDE 3314 1 1 0 0 124 1 1 0 0 12400012 0000000000 1 2.00.3000
0065525                   192LPU  97-095/00:51:10.348  97-095/00:55:32.348
          03003003000003002902802802902803203403103103203002903261920012601004000 11BDFF0100400011BDFF0100400011BDFF0100400011BD
FF0100400011BDFF0100400011BDFF0100400011BDFF0100400011BDFF0100400011BDFF0100400011BDFF0100400011BDFF01000001000000
G7GNGLOBAL01G7GNGLOBAL01DES03898870:26:003898875:20:01         GANYMEDE 3314 1 1 0 0 124 1 1 0 0 12400012 0000000000 1 2.00.3000
0065525                   192LPU  97-095/00:27:52.016  97-095/00:32:51.015
          03003003000003002902802802902803203403103103203002903261920012601004000 11BDFF0100400011BDFF0100400011BDFF0100400011BD
FF0100400011BDFF0100400011BDFF0100400011BDFF0100400011BDFF0100400011BDFF0100400011BDFF0100400011BDFF01000001000000
G7GNGLOBAL01G7GNGLOBAL01EES03898881:78:003898889:03:01         GANYMEDE 3314 1 1 0 0 124 1 1 0 0 12400012 0000000000 1 2.00.3000
0065525                   192LPU  97-095/00:39:33.682  97-095/00:46:49.014
          03003003000003002902802802902803203403103103203002903261920012601004000 11BDFF0100400011BDFF0100400011BDFF0100400011BD
FF0100400011BDFF0100400011BDFF0100400011BDFF0100400011BDFF0100400011BDFF0100400011BDFF0100400011BDFF01000001000000
G7GNGLOBAL01G7GNGLOBAL01FES03898893:52:003898897:60:01         GANYMEDE 3314 1 1 0 0 124 1 1 0 0 12400012 0000000000 1 2.00.3000
0065525                   192LPU  97-095/00:51:24.348  97-095/00:55:32.348
          03003003000003002902802802902803203403103103203002903261920012601004000 11BDFF0100400011BDFF0100400011BDFF0100400011BD
FF0100400011BDFF0100400011BDFF0100400011BDFF0100400011BDFF0100400011BDFF0100400011BDFF0100400011BDFF01000001000000
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G7JNFEX10803G7JNFEX10803AEV03899049:00:003899050:59:01         JUPITER  5214 1 1 0 1 4 6 1 1 0 1 4 600010 0000000000 1 2.00.3000
0065525                   19LPU  97-095/03:28:33.675  97-095/03:30:13.675
          00000000000000000000000000000000000000000000000000507019001 701004000111501011A0000100802010B8100100C010100000

G7NNHEALTH06G7NNHEALTH06RKH03899092:00:003899092:12:01         CAL      3214 1 1 0 0 124 1 1 0 0 12400100 0000000000 0 0.00.0000
0000000                   003RT 1997-095/04:12:02.3331997-095/04:12:10.333
          00000000000000000000000000000000000000000000000000302003000 201080442500000

G7GNNHILAT01G7GNNHILAT01AFV03899120:00:003899122:00:01         GANYMEDE 3314 1 1 0 0 124 1 1 0 0 12400012 0000000000 1 2.00.3000
0065525                   192LPU  97-095/04:40:21.007  97-095/04:42:22.341
          03003003000003002902802802902803203403103103203002903261920012601008000 11BDFF0100800011BDFF0100800011BDFF0100800011BD
FF0100800011BDFF0100800011BDFF0100800011BDFF0100800011BDFF0100800011BDFF0100800011BDFF0100800011BDFF01000000100000
G7GNNHILAT01G7GNNHILAT01BFV03899122:16:003899135:70:01         GANYMEDE 3314 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                   192LPU  97-095/04:42:33.007  97-095/04:56:17.672
          00000000000000000000000000000000000000000000000000326192001260100800011BDFF0100800011BDFF0100800011BDFF0100800011BD
FF0100800011BDFF0100800011BDFF0100800011BDFF0100800011BDFF0100800011BDFF0100800011BDFF0100800011BDFF01000000100000
G7INTHRMAL06G7INTHRMAL06AEW03899149:00:003899152:01:01         IO       3414 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                   192LPU  97-095/05:09:40.339  97-095/05:12:43.006
          00000000000000000000000000000000000000000000000000326192001260100100011BDFF0100100011BDFF0100100011BDFF0100100011BD
FF0100100011BDFF0100100011BDFF0100100011BDFF0100100011BDFF0100100011BDFF0100100011BDFF0100100011BDFF01000000100000
G7GNBRITRL01G7GNBRITRL01AEX03899219:00:003899223:63:01         GANYMEDE 3314 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                   360MPW  97-095/06:20:27.003  97-095/06:25:11.669
          00000000000000000000000000000000000000000000000000326360001260 11BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF01000000100000
G7GNKITTU_01G7GNKITTU_01AEY03899241:01:003899252:51:01         GANYMEDE 3314 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                   360MPW  97-095/06:42:42.335  97-095/06:54:23.002
          00000000000000000000000000000000000000000000000000326360001260 11BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF01000000100000
G7GNGLOBAL02G7GNGLOBAL02AFC03899697:90:003899705:06:01         GANYMEDE 3314 1 1 0 0 124 1 1 0 0 12400012 0000000000 1 2.00.3000
0065525                   360MPW  97-095/14:24:46.318  97-095/14:31:55.651
          03003003000003002902802802902803203403103103203002903263600012601 1BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF01000000100000
G7JNFEA13001G7JNFEA13001AEZ03899831:90:003899833:57:01         JUPITER  5214 1 1 0 1 4 6 1 1 0 1 4 600010 0000000000 1 2.00.3000
0065525                    4LPU  97-095/16:40:15.646  97-095/16:41:54.980
          00000000000000000000000000000000000000000000000000507004001 701000000101900011000001000000100000010000001000000100000

G7JNFEA13002G7JNFEA13002AFA03899856:90:003899858:61:01         JUPITER  5214 1 1 0 1 4 6 1 1 0 1 4 600010 0000000000 1 2.00.3000
0065525                   15LPU  97-095/17:05:32.312  97-095/17:07:13.666
          00000000000000000000000000000000000000000000000000507015001 701004000111500011A0000100800010981001 00C000100000

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G7JNPFB13001G7JNPFB13001AFB03899881:86:103899883:58:01         JUPITER  5214 1 1 0 1 4 6 1 1 0 1 4 600010 0000000000 1 2.00.3000
0065525                   15LPU  97-095/17:30:45.666  97-095/17:32:28.311
          00000000000000000000000000000000000000000000000000507015001 701004000111500011A000010080001098100100C000100000

G7JNTHRMNS01G7JNTHRMNS01AFD03899963:00:003899973:90:01         JUPITER  3414 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                   80LPU  97-095/18:52:42.975  97-095/19:03:49.642
          00000000000000000000000000000000000000000000000000326080001260100007010000701000070100007010000701000070100007010000701000
07010000701000070100007010000701000070100007010000701000070100007010000F010000F010000F010000F010000F010000F010000F010000F01000000100000
G7JNTHRMNS01G7JNTHRMNS01BFD03899974:00:003899986:84:01         JUPITER  3414 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                  253LPU  97-095/19:03:50.308  97-095/19:16:54.307
          00000000000000000000000000000000000000000000000000326253001260100 3FF01007FF01007FF01007FF01007FF01007FF01007FF01007FF01007
FF01007FF01007FF01007FF01007FF01007FF01007FF01003FF01003FF01003FF01003FF01003FF01003FF01003FF01003FF01003FF01003FF01000000100000
G7HNDARK__04G7HNDARK__04AFE03900296:87:003900298:02:01         SKY      3314 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                   32LPU  97-096/00:30:22.963  97-096/00:31:27.630
          00000000000000000000000000000000000000000000000000326032001260 11FDFF011FDFF010000001000000100000010000001000000100000
00010000001000000100000010000001000000100000010000001000000100000010000001000000100000010000001000000100000010000001000000100000
G7JNFEA14201G7JNFEA14201AFF03900449:00:003900450:76:01         JUPITER  5214 1 1 0 1 4 6 1 1 0 1 4 600010 0000000000 1 2.00.3000
0065525                    4LPU  97-096/03:04:06.957  97-096/03:05:58.266
          00000000000000000000000000000000000000000000000000507004001 701000000101900011000001000000100000010000001000000100000

G7JNPFC14201G7JNPFC14201AFG03900460:86:003900462:76:01         JUPITER  5214 1 1 0 1 4 6 1 1 0 1 4 600010 0000000000 1 2.00.3000
0065525                    4LPU  97-096/03:16:11.600  97-096/03:18:06.266
          00000000000000000000000000000000000000000000000000507004001 701000000101900011000001000000100000010000001000000100000

G7JNPFB14201G7JNPFB14201AFH03900477:86:003900479:76:01         JUPITER  5214 1 1 0 1 4 6 1 1 0 1 4 600010 0000000000 1 2.00.3000
0065525                    4LPU  97-096/03:33:22.933  97-096/03:35:17.600
          00000000000000000000000000000000000000000000000000507004001 701000000101900011000001000000100000010000001000000100000

G7NNHEALTH07G7NNHEALTH07RKI03900978:00:003900978:12:01         CAL      3214 1 1 0 0 124 1 1 0 0 12400100 0000000000 0 0.00.0000
0000000                  003RT 1997-096/11:58:59.6001997-096/11:59:07.600
          00000000000000000000000000000000000000000000000000302003000 201080442500000

G7JNPFB15001G7JNPFB15001AFI03901047:86:003901049:76:01         JUPITER  5214 1 1 0 1 4 6 1 1 0 1 4 600010 0000000000 1 2.00.3000
0065525                    4LPU  97-096/13:09:42.933  97-096/13:11:37.600
          00000000000000000000000000000000000000000000000000507004001 701000000101900011000001000000100000010000001000000100000

G7JNPFC15001G7JNPFC15001AFJ03901054:86:003901056:76:01         JUPITER  5214 1 1 0 1 4 6 1 1 0 1 4 600010 0000000000 1 2.00.3000
0065525                    4LPU  97-096/13:16:47.600  97-096/13:18:42.266
          00000000000000000000000000000000000000000000000000507004001 701000000101900011000001000000100000010000001000000100000

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G7JNFEA15003G7JNFEA15003AFK03901069:86:003901071:55:01         JUPITER  5214 1 1 0 1 4 6 1 1 0 1 4 600010 0000000000 1 2.00.3000
0065525                    4LPU  97-096/13:31:57.600  97-096/13:33:38.268
          00000000000000000000000000000000000000000000000000507004001 701000000101900011000001000000100000001000000100000

G7NNHEALTH08G7NNHEALTH08RKJ03901175:00:003901175:12:01         CAL      3214 1 1 0 0 124 1 1 0 0 12400100 0000000000 0 0.00.0000
0000000                  003RT 1997-096/15:18:10.9331997-096/15:18:18.933
          00000000000000000000000000000000000000000000000000302003000 201080442500000

G7JNFEZ15702G7JNFEZ15702AFM03901203:00:003901204:58:01         JUPITER  5214 1 1 0 1 4 6 1 1 0 1 4 600010 0000000000 1 2.00.3000
0065525                    19LPU  97-096/15:46:29.596  97-096/15:48:09.596
          00000000000000000000000000000000000000000000000000507019001 701000000111D80011A8000100900010B8100100C000100000

G7NNRCTRLT01LSNNRCTRTA01RXU03904887:00:003904887:12:01         CAL      3114 1 1 0 0 124 1 1 0 0 12400100 1101111011 0 0.00.0000
0000000                  252RT 1997-099/05:51:25.4661997-099/05:51:33.466
          00000000000000000000000000000000000000000000000000303252000 312003FF12007FF0200000

G7NNRCTRLT01LSNNRCTRTA01SXU03904893:00:003904894:12:01         CAL      3114 1 1 0 0 124 1 1 0 0 12400100 1101111011 0 0.00.0000
0000000                  252RT 1997-099/05:57:29.4661997-099/05:58:38.166
          00000000000000000000000000000000000000000000000000303252000 312003FF12007FF0200000

G7NNRCTRLT01LSNNRCTRTA01TXU03904899:00:003904899:12:01         CAL      3114 1 1 0 0 124 1 1 0 0 12400100 1101111011 0 0.00.0000
0000000                  252RT 1997-099/06:03:33.4661997-099/06:03:41.466
          00000000000000000000000000000000000000000000000000303252000 312003FF12007FF0200000

G7NNPCTRLT01G7NNPCTRLT01RFA03911857:00:003911858:12:01         CAL      3414 1 1 0 0 124 1 1 0 0 12400100 1101111011 0 0.00.0000
0000000                  252RT 1997-104/03:18:51.8661997-104/03:20:00.533
          00000000000000000000000000000000000000000000000000303252000 3121FFC0121FF800200000

G7NNPCTRLT01G7NNPCTRLT01SFA03911863:00:003911872:12:01         CAL      3414 1 1 0 0 124 1 1 0 0 12400100 1101111011 0 0.00.0000
0000000                  252RT 1997-104/03:24:55.8661997-104/03:34:09.866
          00000000000000000000000000000000000000000000000000303252000 3121FFC0121FF800200000

G7NNOPCAL_01G7NNOPCAL_01RDN03935940:00:003935942:12:01         CAL      3414 1 1 0 0 124 1 1 0 0 12400100 1101111011 0 0.00.0000
0000000                  168RT 1997-121/01:09:26.2661997-121/01:11:35.600
          00000000000000000000000000000000000000000000000000302168000 2241E7000200000

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Chapter 5 - Detailed Observation Designs

Contents

Introduction to Chapter 5

Detailed Observation Designs

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

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

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

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

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

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

NIMS Chopper On

ACTIVITY ID: G7NNCHOPON01-
START TIME: 97-092/12:12:55.067

Activity ID: Orbit G7 Target N Inst N OAPEL CHOPON SeqNo 01 -

Title	NIMS Chopper On			Instrument	NIMS
Requestor	NIMS-SWG/J.HUI	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	Calendar Date	04/02/97	Week 14
Start	JEE-CDS	00002780:00:0	97-092/12:12:55.067	JEE-001/22:50:53.333	
End	JEE-CDS	00002774:00:0	97-092/12:18:59.067	JEE-001/22:44:49.333	
Duration		00000006:00:0	000/00:06:04.000	000/00:06:04.000	

Top Label	G7NNCHOPON01-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	38	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

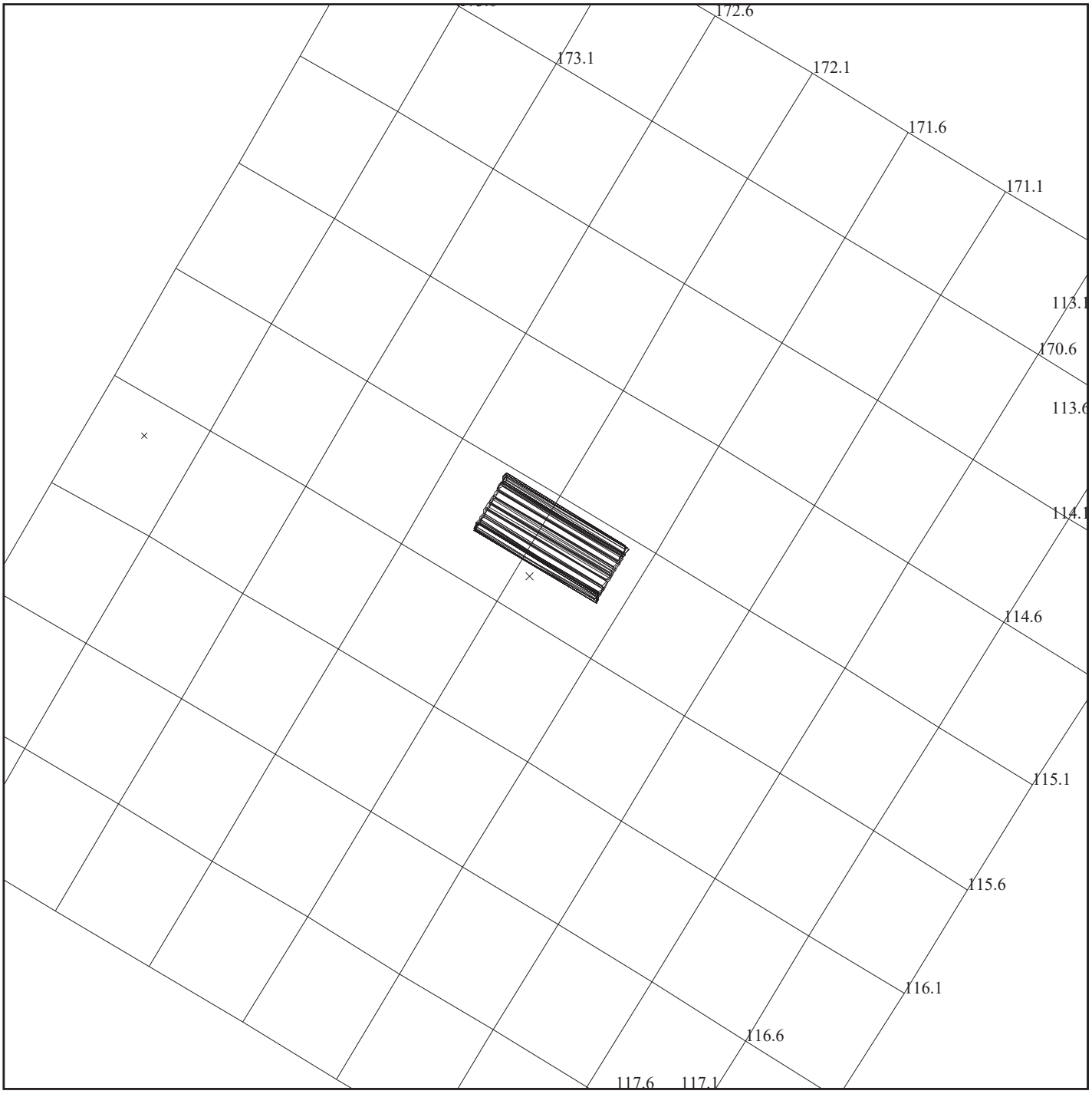
Observation Objective

Configure the NIMS instrument for orbit G7 data taking, i.e. turn the NIMS Chopper on to REFERENCE. This orbit includes observations of Jupiter, Io, Callisto, Europa, and Ganymede.

Design Detail

Use NIMSINIT with the following commands:

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



165DB:TT= 0 TMC= 1 C= -2.50 XC= 0.00 BS= 0/5261 TC=14(Vega)
A= 728 pD= 0 SR=17.450 RA50=278.69 DEC50= 38.85 cone=115.17 clock=172.05
117DB:#SB= 1 OR= 0.750 RR= 2.000 BM=F RC= 1 BS= 0/5261
1:#s= 3 Cs= 4.00 XCs= 0.00 Cr= -4.00 XCr= 0.15 sD= 26 rD= 16

G7NNSTRCAL01

TARGET G3.1 lisac: 5/ 6/1997 12:10: 0

FILE:P.G7NNSTRCAL01

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS **F_R_O_Z_E_N___T_M_C**

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-094/11:03:48.400 -CDS 2766:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 1.000**

OBSERVATION:G7NNSTRCAL01 **DESCRIP:NIMS Star Calibration**

NIMS STAR CALIBRATION

ACTIVITY ID: G7NNSTRCAL01-
START TIME: 97-092/12:22:01.067

Activity ID: Orbit G7 Target N Inst N OAPEL STRCAL SeqNo 01 -

Title	NIMS STAR CALIBRATION			Instrument	NIMS
Requestor	NIMS-AWG/JHUI	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID	Calendar Date	04/02/97	Week 14
Start	JEE-CDS	00002771:00:0	97-092/12:22:01.067	JEE-001/22:41:47.333	
End	JEE-CDS	00002763:00:0	97-092/12:30:06.400	JEE-001/22:33:42.000	
Duration		00000008:00:0	000/00:08:05.333	000/00:08:05.333	

Top Label	G7NNSTRCAL01-				
Bottom Label	NIMS				
Plot Key	NIMS	Type	SCI		
CDS Bytes	153	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

NIMS instrument pointing calibration using a star as a calbrating target. The star is Vega.

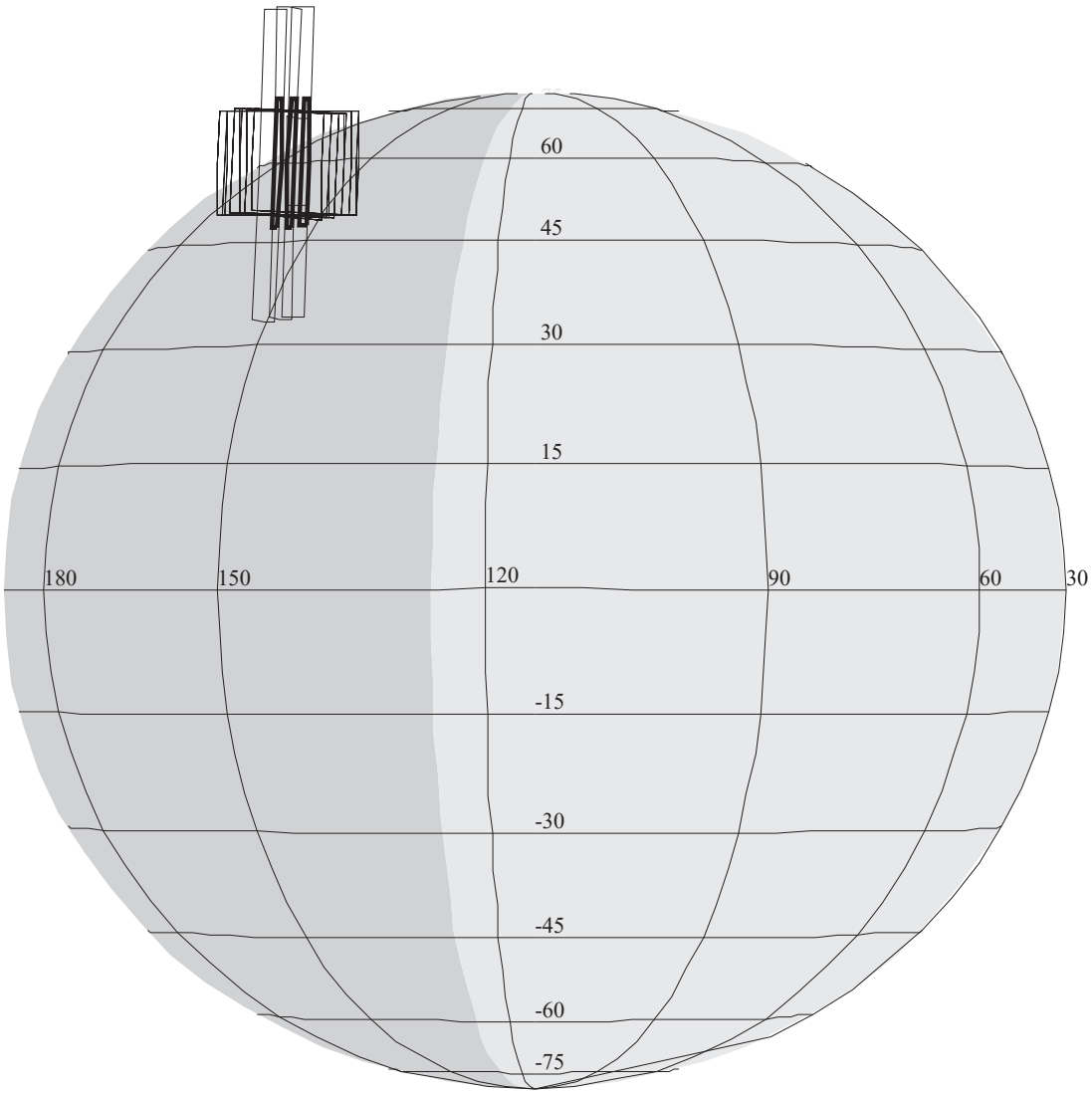
Data Returned

Design Detail

NIMS in Fix Map (XM) mode, Gain State=4. Scan across 4 mrad with 3 strips, 9.85mrad overlap (i.e. move down only 0.15 mrad per next strip) in the strip slew rate is 0.75 mrad/sec. Center the star in the middle strip. Record = MPW. Bring back 17 wavelengths.

Fixed Map (XM), Gain 4, Grating Start 0, MPW, G7SXM17, G7SXM17

Galileo Activity Plan Form 03/17/97 17:37:30 rev 6/95



165AC:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/2763 TC= 1(60 185)
A= 546 pD= 5460 SR=17.450 RA50=224.67 DEC50=-16.88 cone= 92.27 clock= 97.38
165AD:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/8223 TC= 1(60 190)
A= 364 pD= 5460 SR=17.450 RA50=225.00 DEC50=-16.95 cone= 92.60 clock= 97.39
165AE:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/3683 TC= 1(-70 150)
A= 364 pD= 0 SR=17.450 RA50=223.07 DEC50=-20.64 cone= 91.80 clock= 93.35
165AF:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/9143 TC= 1(60 160)
A= 364 pD= 0 SR=17.450 RA50=224.64 DEC50=-16.78 cone= 92.22 clock= 97.47

G7JNAURMAP01

TARGET G3.1 lisac: 5/ 6/1997 12:10: 0

FILE:P.G7JUAURMAP01

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS **F_R_O_Z_E_N___T_M_C**

PERIAPSIS: **THINNING:NIM 1 :UVS 1**

START:JEE 97-094/11:03:48.400 -CDS 2505:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750**

OBSERVATION:G7JUAURMAP01 **DESCRIP:Auroral_Map**

NIMS Aurora Map

ACTIVITY ID: G7JNAURMAP01+
START TIME: 97-092/14:43:34.400

Activity ID: Orbit G7 Target J Inst N OAPEL AURMAP SeqNo 01 +

Title	NIMS Aurora Map			Instrument	NIMS
Requestor	NIMS-MWG/MSEGURA	Team	NIMS	Working Group	MWG

Time System	CDS	Load ID	Calendar Date	04/02/97	Week 14
Start	JEE-CDS	00002631:00:0	97-092/14:43:34.400	JEE-001/20:20:14.000	
End	JEE-CDS	00002397:00:0	97-092/18:40:10.400	JEE-001/16:23:38.000	
Duration		00000234:00:0	000/03:56:36.000	000/03:56:36.000	

Top Label G7JNAURMAP01+
Bottom Label NIMS

Plot Key	NIMS	Type	SCI		
CDS Bytes	140	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	ALL	DMS	No

Observation Objective

Observe H3+ emissions of Jupiter's aurora.

Use different Mirror Block combinations to map out
the 'full' extent of the NIMS footprint.
Mirror Block Groups used:
1) 1E,0F (11110,01111) MP 16-19
2) 1D,17 (11101,10111) MP 12-15
3) 0F,1E (01111,11110) MP 00-03
4) 17,1D (10111,11101) MP 04-07
5) 1E,0F (11110,01110) MP 16-19
6) 1D,17 (11101,10111) MP 12-15

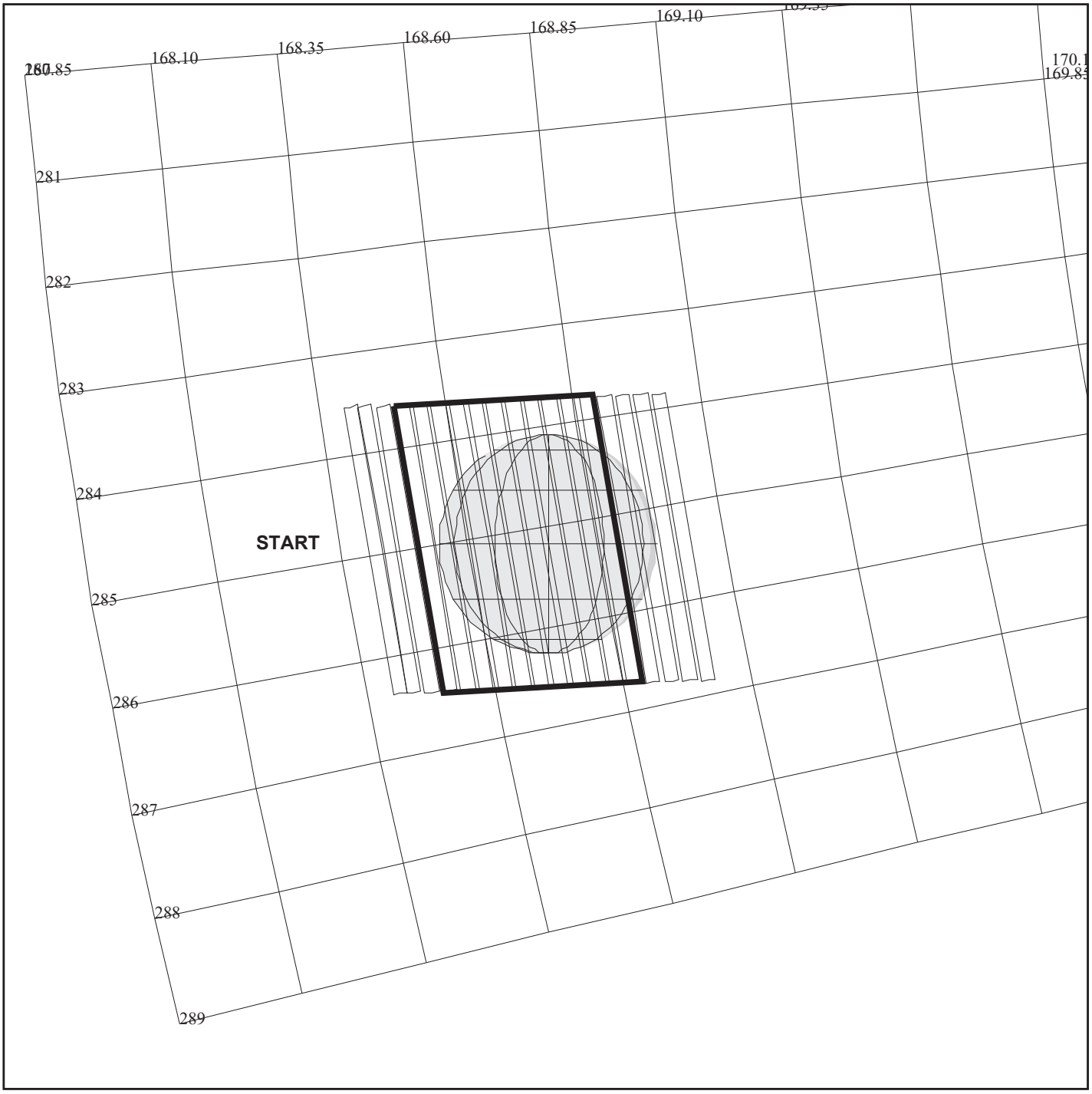
Data Returned

Design Detail

Ride along with UVS and FPSG recording. Wavelengths over 3 to 5 micron region to be returned as Real Time downlink permits. Note: Telemetry has to be 60 bps or greater to support this observation. Three observations:
1) Centered at 60 degrees north latitude, 185 degrees longitude near rising limb for 13 RIMS, nightime; JEE-CDS 2500 to JEE-CDS 2487
2) Centered at 70 degrees south latitude 150 degrees longitude in daylight (just over the terminator) for 13 RIMS; JEE-CDS 2438 to CDS 2425
3). Centered at 60 degrees north latitude; 160 degrees longitude just over the terminator in daylight for 13 RIMS; JEE-CDS 2410 to JEE-CDS 2397.
For each observation, 4 different sets of mirror blocks are used.
First mirror block acquires data in the 4 most equatorial mirror positions.
The next mirror block observes the next poleward set of mirror positions, etc. For the most equatorward mirror block, 4 RIMS of data are taken.
For the other 3 mirror blocks, 3 RIMS of data are acquired.

Long Map (LM), Gain 2, Grating Start 0, R/T, G7JLM408

Galileo Activity Plan Form 03/17/97 17:37:30 rev 6/95



165DD:TT= 0 TMC= 1 C= -5.20 XC= -0.75 BS=20/3693 TC= 3
A= 586 pD= 0 SR=17.450 RA50=328.62 DEC50=-12.94 cone=168.42 clock=284.95
117DD:#SB= 1 OR= 0.020 RR=12.000 BM=F RC= 1 BS=20/3693
1:#s= 1 Cs= 5.70 XCs= 0.50 Cr= 0.00 XCr= 0.00 sD= 860 rD= 2

G7CNGLOBAL01

TARGET G3.1 lisac: 5/ 6/1997 12:10: 0

FILE:P.G7CNGLOBAL01

TARGET BODY : CALLISTO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS **F_R_O_Z_E_N___T_M_C**

PERIAPSIS: **THINNING:NIM 2**

START:CEE 97-092/16:50:58.466 +CDS 115:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.200**

OBSERVATION:G7CNGLOBAL01 **DESCRIP:CALLISTO GLOBAL MAP**

Callisto Global Coverage

ACTIVITY ID: G7CNGLOBAL01-
START TIME: 97-092/18:43:12.466

Activity ID: Orbit G7 Target C Inst N OAPEL GLOBAL SeqNo 01 -

Title	Callisto Global Coverage			Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	04/02/97 Week 14
Start	CEE+CDS	00000111:00:0	97-092/18:43:12.466		CEE+000/01:52:14.000
End	CEE+CDS	00000120:00:0	97-092/18:52:18.466		CEE+000/02:01:20.000
Duration		00000009:00:0	000/00:09:06.000		000/00:09:06.000

Top Label G7CNGLOBAL01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	122	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

The objective is to obtain the best combined spatial and spectral resolution of Callisto's surface; investigate mineralogy and to determine the distribution of compositional units.
This is the first observation which encompasses the extent of the Valhalla multi-ring structure.

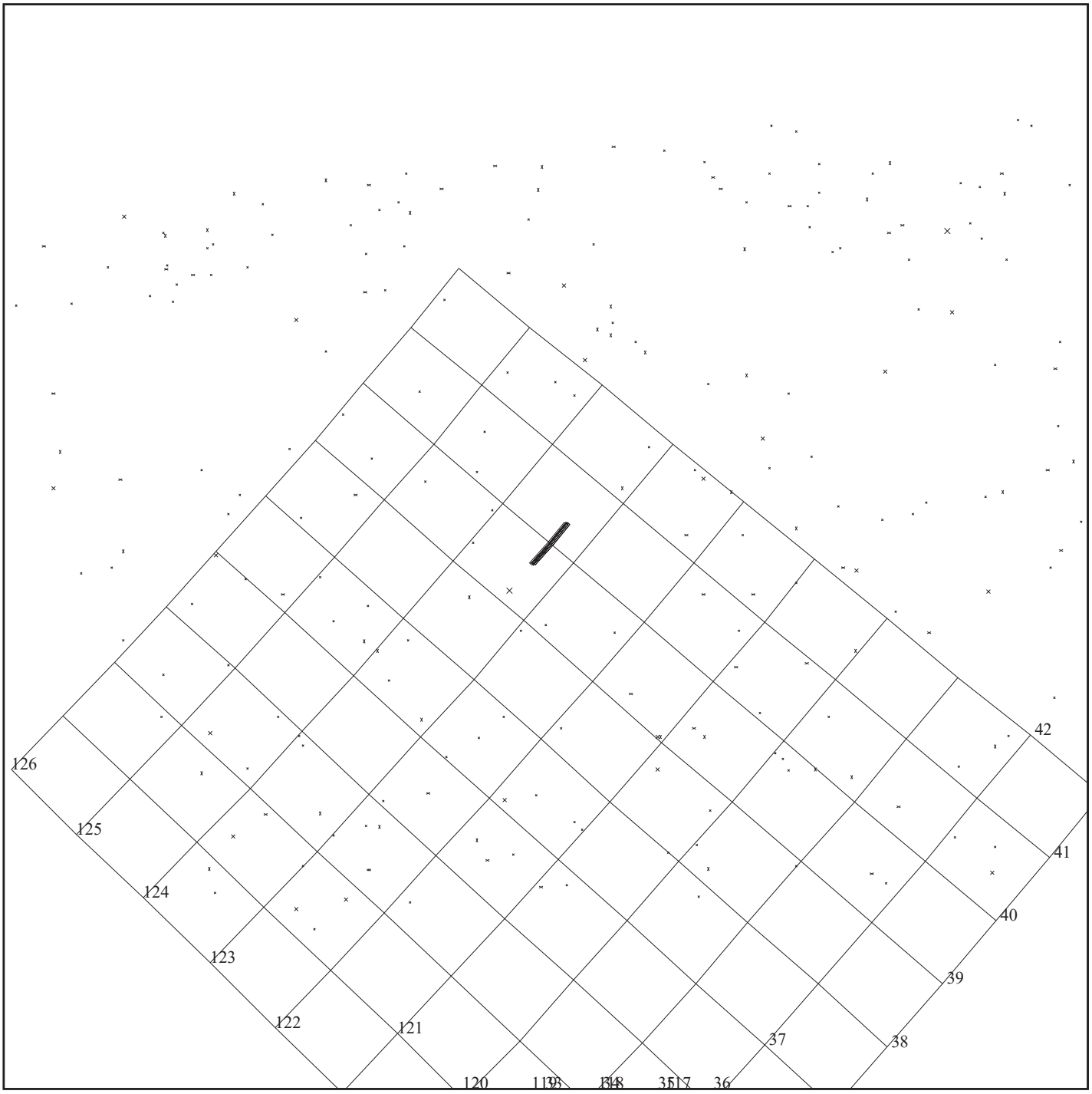
Data Returned

Design Detail

Instrument mode: LM
Instrument gain state: 2
Spatial Resolution: 320 km/NIMSel
Spectral Resolution: 408 wavelengths
Phase angle: 14.75
Coverage in NIMSels: Continuous slew full disk mosaic at Callisto closet approach, cover all lit long and lats. Observation contains one swath.
This observation is happening at the last 10 rims of the UVS G7JAURMAP01-, which is not using the scan platform and the DMS. THE RESOURCE CLAIN IS DESELECTED HERE, but UVS will have the scan-platform and DMS claims in its oapel to avoid conflict.

Long Map (LM), Gain 4, Grating Start 0, MPW, G7CLM442, G7CLM360

Galileo Activity Plan Form 03/17/97 17:37:30 rev 6/95



165DI:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/0527 TC=15(-66.87 281.73)
A= 728 pD= 0 SR=17.450 RA50=281.73 DEC50=-66.87 cone=123.34 clock= 39.97

G7HNDARK__01

TARGET G3.1 lisac: 5/ 6/1997 12:10: 0

FILE:P.G7HNDARK__01

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS **F_R_O_Z_E_N___T_M_C**

PERIAPSIS: **THINNING:NIM 1**

START:JTA 97-093/12:27:54.400 -CDS 462:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.500**

OBSERVATION:G7HNDARK__01 **DESCRIP:NIMS Dark Sky 01**

Dark Observation

ACTIVITY ID: G7HNDARK__01-
START TIME: 97-093/04:32:41.067

Activity ID: Orbit G7 Target H Inst N OAPEL DARK__ SeqNo 01 -

Title	Dark Observation			Instrument	NIMS
Requestor	NIMS-SWG/J.HUI	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	Calendar Date	04/03/97	Week 14
Start	JTA-CDS	00000470:00:0	97-093/04:32:41.067	JTA-000/07:55:13.333	
End	JTA-CDS	00000460:00:0	97-093/04:42:47.734	JTA-000/07:45:06.666	
Duration		00000010:00:0	000/00:10:06.667	000/00:10:06.667	

Top Label G7HNDARK__01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	85	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Obtain 1 rim of dark sky data per day for each day of NIMS observations within the G7 orbit for purposes of calibration.

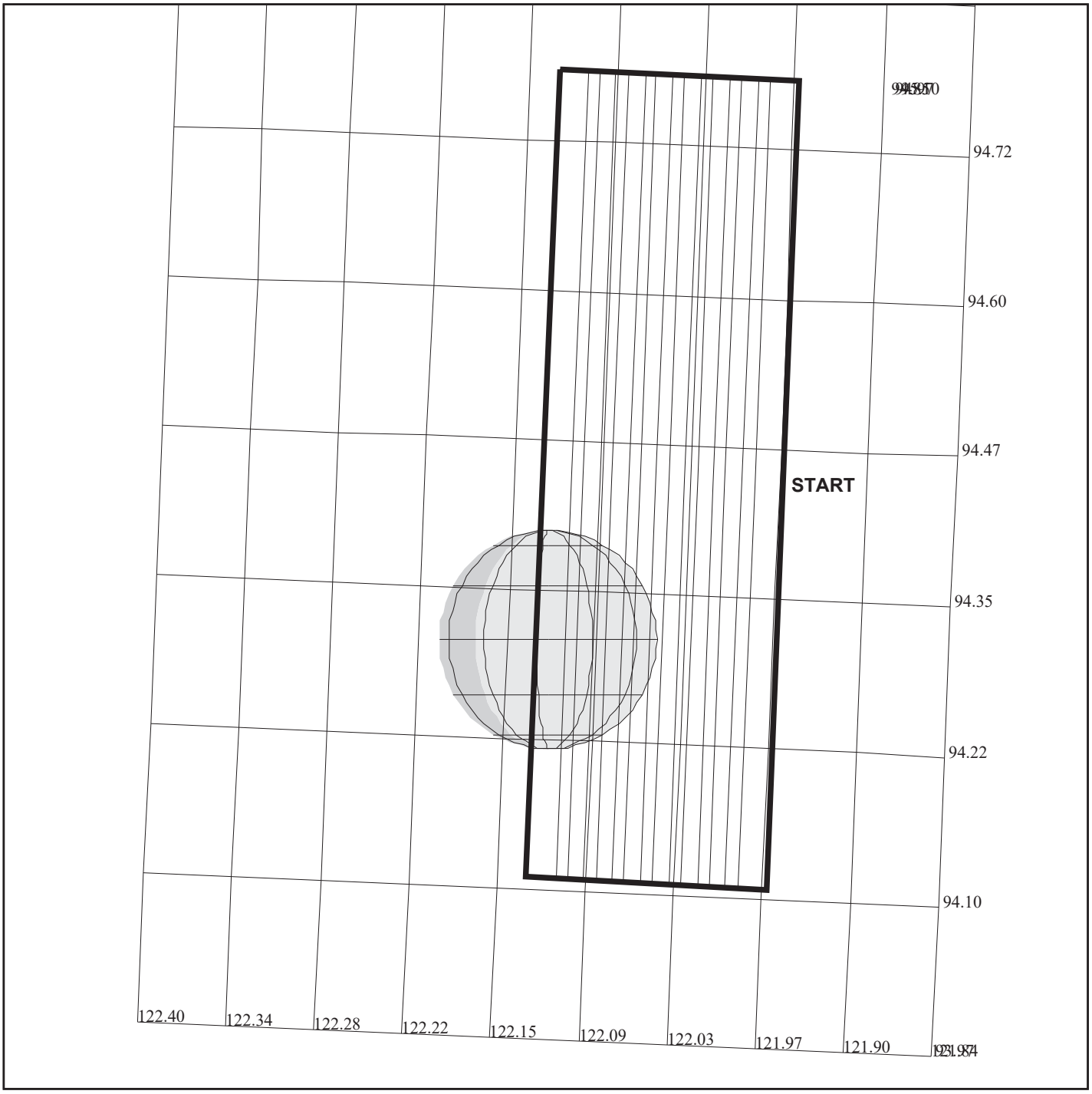
Data Returned

Design Detail

Sit and stare design, target to dark-sky and remain there for 1 rim. Observation to be done in Long Map mode, Gain = 2, record mode = LPU, number of wavelengths = 204.

Long Map (LM), Gain 4, Grating Start 0, LPU, G7DRK34, G7DRK32

Galileo Activity Plan Form 03/17/97 17:37:30 rev 6/95



165DE:TT= 0 TMC= 1 C= -1.75 XC= 2.00 BS= 0/6169 TC= 3
A= 728 pD= 0 SR=17.450 RA50=255.57 DEC50=-24.55 cone=121.97 clock= 94.44
117DE:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/6169
1:#s= 1 Cs= 3.90 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 394 rD= 2

G7INCHEMIS01

TARGET G3.1 lisac: 5/ 6/1997 12:10: 0

FILE:P.G7INCHEMIS01

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS **F_R_O_Z_E_N___T_M_C**

PERIAPSIS: **THINNING:NIM 2**

START:IEE 97-093/21:11:39.733 -CDS 949:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.200**

OBSERVATION:G7INCHEMIS01 **DESCRIP:Io Dayside Monitoring 01**

MONITORING OF IO'S DAYSIDE

ACTIVITY ID: G7INCHEMIS01-
START TIME: 97-093/05:07:03.733

Activity ID: Orbit G7 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	Calendar Date	04/03/97	Week 14
Start	IEE-CDS	00000954:00:0	97-093/05:07:03.733	IEE-000/16:04:36.000	
End	IEE-CDS	00000946:00:0	97-093/05:15:09.067	IEE-000/15:56:30.666	
Duration		00000008:00:0	000/00:08:05.334	000/00:08:05.334	

Top Label	G7INCHEMIS01-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	131	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Dayside monitoring covering wide range of longitudes to look for chemical changes (e.g. SO2 distribution) at resolutions better than ~800 km/nimsel (most observations will have resolutions between 120 and 400 km/nimsel).

Data Returned

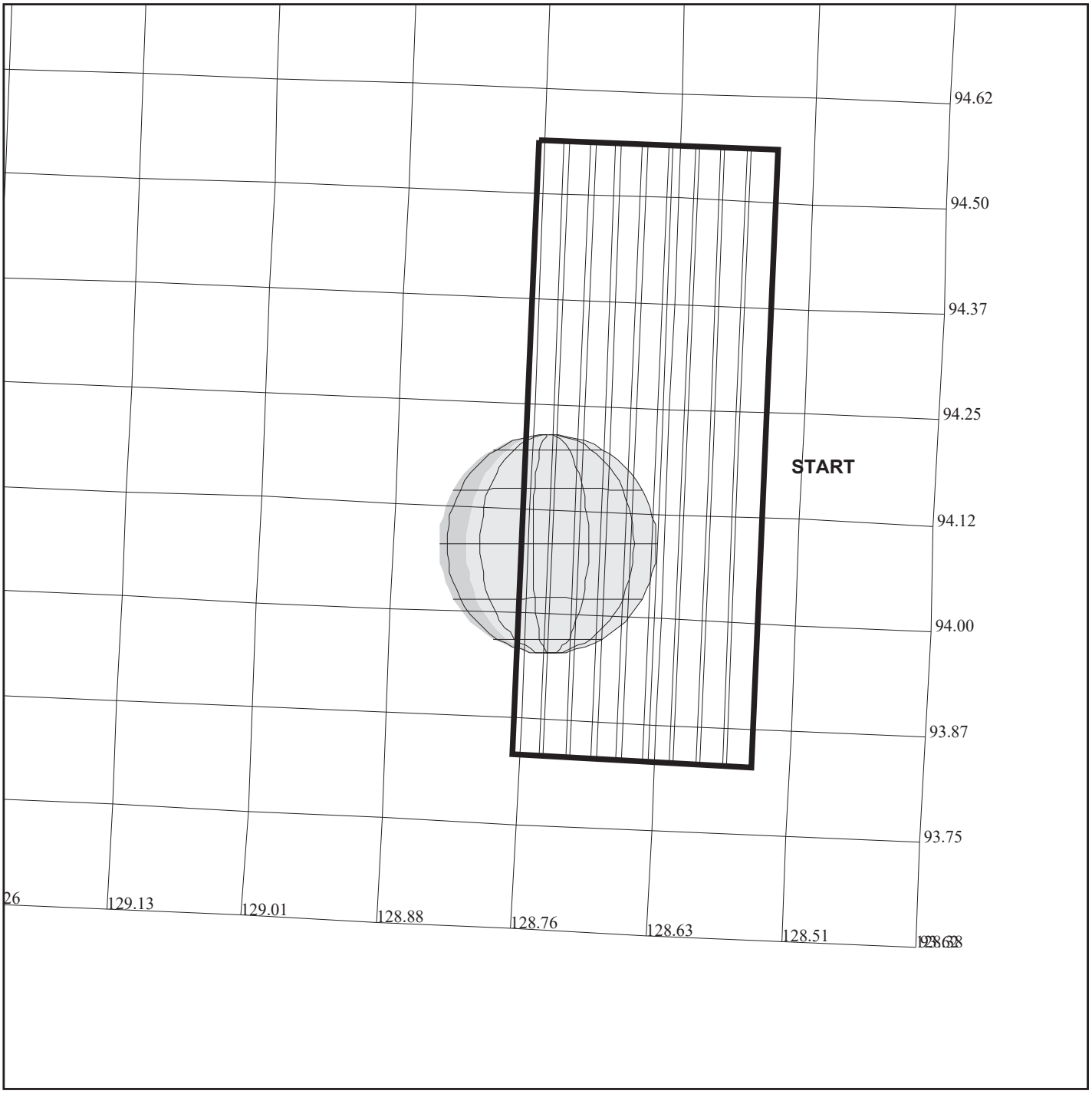
Design Detail

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

Long map, 102 wavelengths.
Tracks used per orbit: 0.05 to 0.42.
Bits To Ground per orbit: 0.3 to 2.2 Mbits.

Long Map (LM), Gain 2, Grating Start 0, LPU, G7ILM244B, G7ILM102B

Galileo Activity Plan Form 03/17/97 17:37:31 rev 6/95



165DG:TT= 0 TMC= 1 C= -2.25 XC= 1.50 BS= 0/9849 TC= 3
A= 182 pD= 0 SR=17.450 RA50=262.80 DEC50=-24.92 cone=128.55 clock= 94.20
117DG:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/9849
1:#s= 1 Cs= 4.30 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 434 rD= 2

G7INCHEMIS02

TARGET G3.1 lisac: 5/ 6/1997 12:10: 0

FILE:P.G7INCHEMIS02

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS **F_R_O_Z_E_N___T_M_C**

PERIAPSIS: **THINNING:NIM 2**

START:IEE 97-093/21:11:39.733 -CDS 709:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.200**

OBSERVATION:G7INCHEMIS02 **DESCRIP:Io Dayside Monitoring 02**

MONITORING OF IO'S DAYSIDE

ACTIVITY ID: G7INCHEMIS02-
START TIME: 97-093/09:11:45.067

Activity ID: Orbit G7 Target I Inst N OAPEL CHEMIS SeqNo 02 -

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

Time System	CDS	Load ID	Calendar Date	04/03/97	Week 14
Start	IEE-CDS	00000712:00:0	97-093/09:11:45.067	IEE-000/11:59:54.666	
End	IEE-CDS	00000706:30:0	97-093/09:17:29.067	IEE-000/11:54:10.666	
Duration		00000005:61:0	000/00:05:44.000	000/00:05:44.000	

Top Label	G7INCHEMIS02-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	155	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Dayside monitoring covering wide range of longitudes to look for chemical changes (e.g. SO2 distribution) at resolutions better than ~800 km/nimsel (most observations will have resolutions between 120 and 400 km/nimsel).

Data Returned

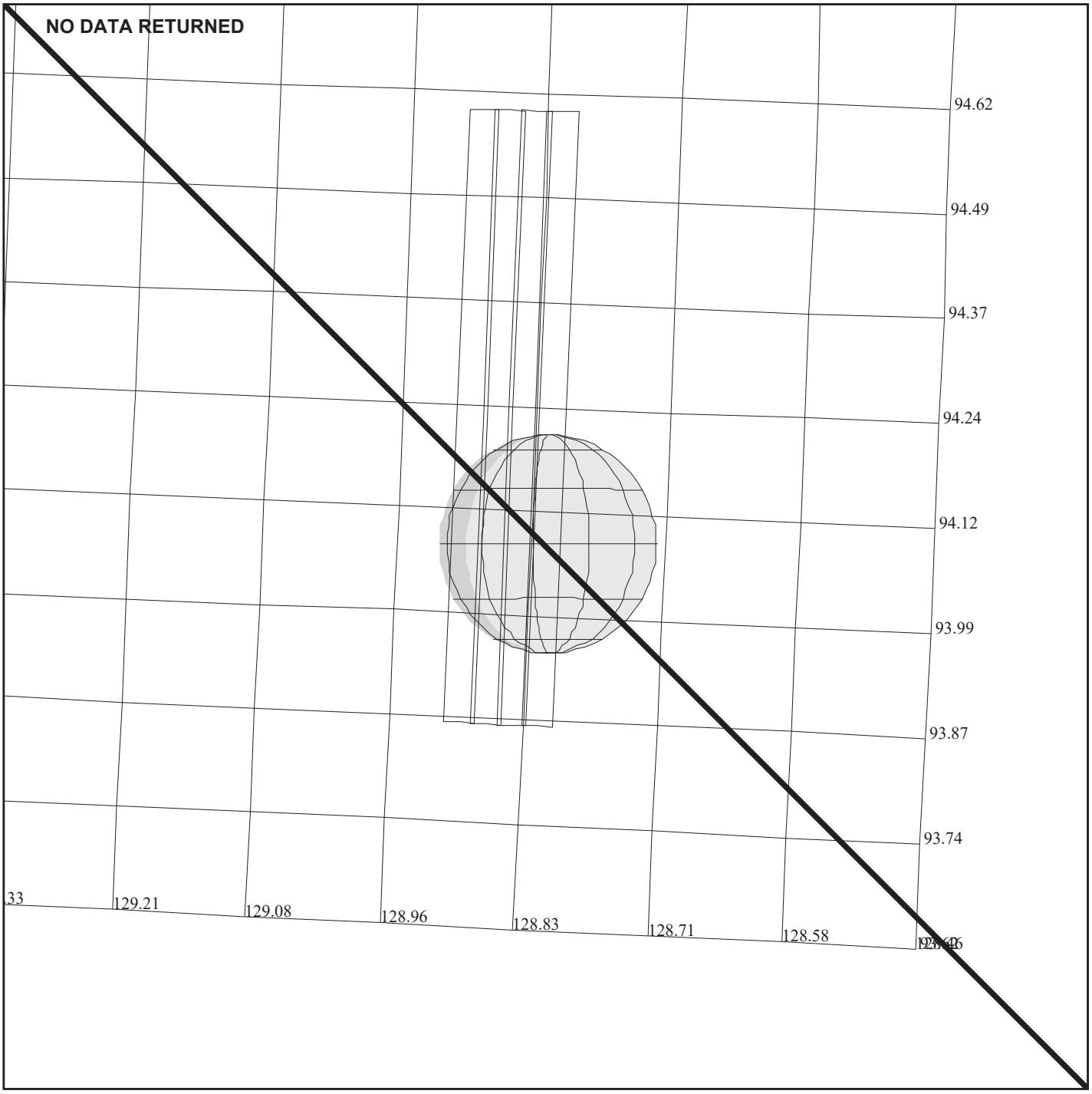
Design Detail

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

Long map, 102 wavelengths.
Tracks used per orbit: 0.05 to 0.42.
Bits To Ground per orbit: 0.3 to 2.2 Mbits.
This observation is tied in with SSI, G7ISSMONLO01-

Long Map (LM), Gain 2, Grating Start 0, LPU, G7ILM244B, G7ILM216B

Galileo Activity Plan Form 03/17/97 17:37:31 rev 6/95



165DH:TT= 0 TMC= 1 C= 1.00 XC= 2.00 BS= 0/0577 TC= 3
A= 182 pD= 0 SR=17.450 RA50=263.09 DEC50=-24.89 cone=128.81 clock= 94.23
117DH:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/0577
1:#s= 1 Cs= 2.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 204 rD= 2

G7INTHRMAL02

TARGET G3.1 lisac: 5/ 6/1997 12:10: 0

FILE:P.G7INTHRMAL02

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS **F_R_O_Z_E_N___T_M_C**

PERIAPSIS: **THINNING:NIM 2**

START:IEE 97-093/21:11:39.733 -CDS 705:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.200**

OBSERVATION:G7INTHRMAL02 **DESCRIP:Io Nightside Monitoring 02**

MONITORING OF IO'S NIGHTSIDE — ACTIVITY ID: G7INTHRMAL02-
START TIME: 97-093/09:17:35.733

Activity ID: Orbit G7 Target I Inst N OAPEL THRMAL SeqNo 02 -

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

Time System	CDS	Load ID		Calendar Date	04/03/97 Week 14
Start	IEE-CDS	00000706:20:0	97-093/09:17:35.733		IEE-000/11:54:04.000
End	IEE-CDS	00000703:00:0	97-093/09:20:51.067		IEE-000/11:50:48.666
Duration		00000003:20:0	000/00:03:15.334		000/00:03:15.334

Top Label G7INTHRMAL02-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	149	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Thermal monitoring of Io's nightside covering as wide a range of longitudes as possible with resolutions better than ~800 km/nimsel. Objective is to search for and map hot spots, thermal anomalies and outbursts on the surface. Observations will also include the limb to search for auroral effects.

No Data Returned

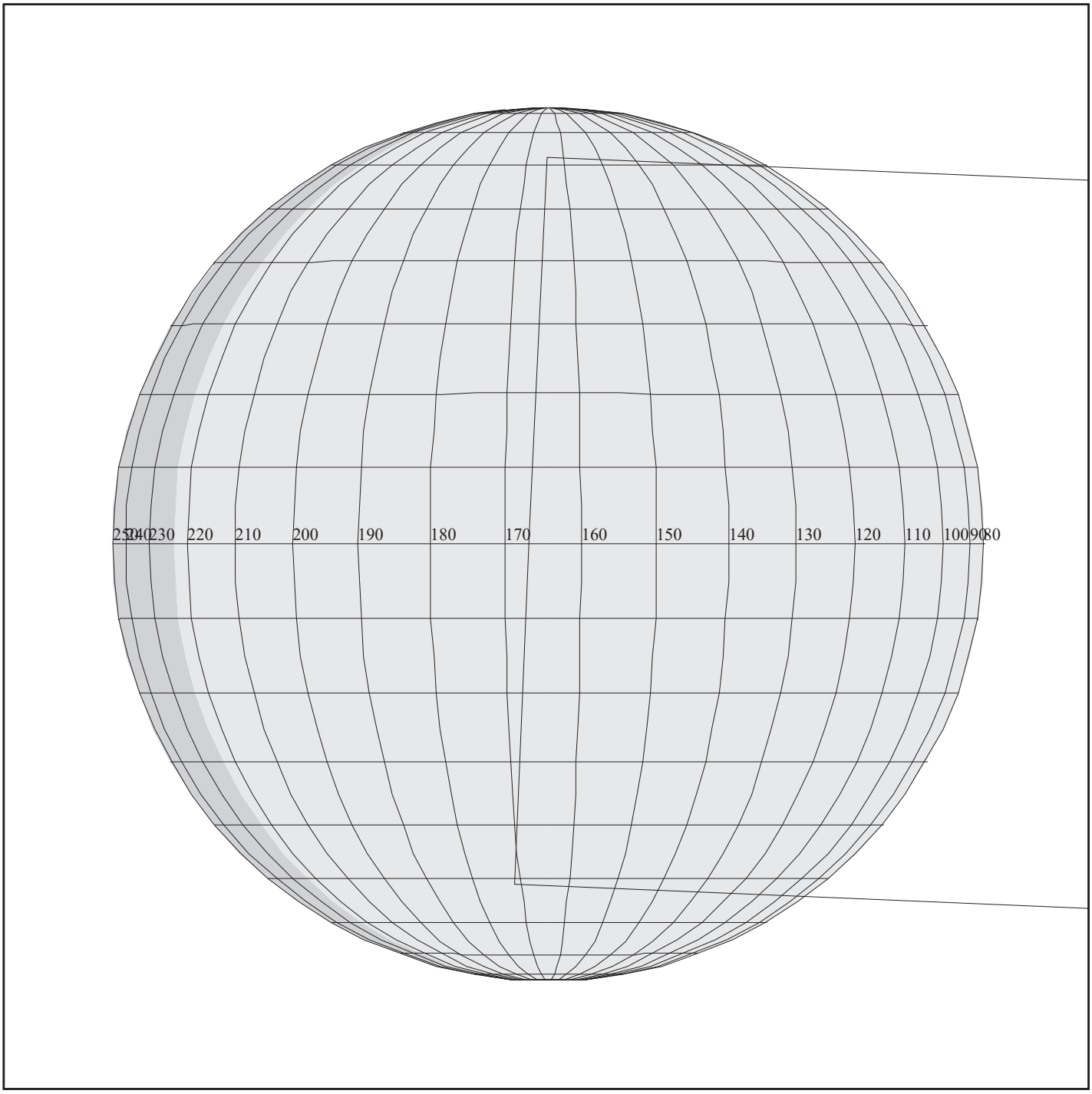
Design Detail

Partial or full disk mosaics within C/A + or - 32 hours in all orbits. High priority orbits are G1, C3, and C10 because these have the highest longitudinal coverage and orbits G7 and G8 because these have the best nighttime resolution for LOKI.

Instrument mode: Long Map,
Number of Wavelengths: 102,
Tracks used per orbit: 0.01 to 0.1,
Bits To Ground used per orbit: 0.01 to 0.5 Mbits.
This observation is tied in with SSI, G7ISSMONLO01-

Long Map (LM), Gain 4, Grating Start 0, LPU, G7ILMDK244B, G7ILMDK102B

Galileo Activity Plan Form 03/17/97 17:37:31 rev 6/95



165IC:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/1213 TC= 1(0 150)
A= 728 pD= 364 SR=17.450 RA50=274.49 DEC50=-24.80 cone=139.15 clock= 93.63

G7NNHEALTH01

TARGET G3.1 lisac: 5/ 6/1997 12:10: 0

FILE:P.G7ESGLOBAL01

TARGET BODY : EUROPA

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS **F_R_O_Z_E_N___T_M_C**

PERIAPSIS: **THINNING:**

START:EEE 97-094/05:58:27.066 -CDS 728:00:0 **BODY PLOT TIME:TARGET-TIME D= 364 S= 0.800**

OBSERVATION:G7ESGLOBAL01 **DESCRIP:Europa_Full_Disk**

G7 NIMS Health Observation

ACTIVITY ID: G7NNHEALTH01-
START TIME: 97-093/17:39:19.733

Activity ID: Orbit G7 Target N Inst N OAPEL HEALTH SeqNo 01 -

Title	G7 NIMS Health Observation			Instrument	NIMS
Requestor	NIMS-SWG/R.	Team	NIM	Working Group	SWG

Time System	CDS	Load ID	Calendar Date	04/03/97	Week 14
Start	IEE-CDS	00000210:00:0	97-093/17:39:19.733	IEE-000/03:32:20.000	
End	IEE-CDS	00000205:00:0	97-093/17:44:23.067	IEE-000/03:27:16.666	
Duration		00000005:00:0	000/00:05:03.334	000/00:05:03.334	

Top Label	G7NNHEALTH01-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	0	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	ALL	DMS	No

Observation Objective

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

Data Returned

Design Detail

Long Map (LM), Gain 2, Grating Start 0, R/T, G7RCVY3

Galileo Activity Plan Form 03/17/97 17:37:31 rev 6/95

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NIMS Software Reload

ACTIVITY ID: G7NNNIMSLD01-
START TIME: 97-093/17:45:23.733

Activity ID: Orbit G7 Target N Inst N OAPEL NIMSLD SeqNo 01 -

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

Time System	CDS	Load ID	Calendar Date	04/03/97	Week 14
Start	IEE-CDS	00000204:00:0	97-093/17:45:23.733	IEE-000/03:26:16.000	
End	IEE-CDS	00000194:00:0	97-093/17:55:30.400	IEE-000/03:16:09.333	
Duration		00000010:00:0	000/00:10:06.667	000/00:10:06.667	

Top Label G7NNNIMSLD01-
Bottom Label

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

Observation Objective

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

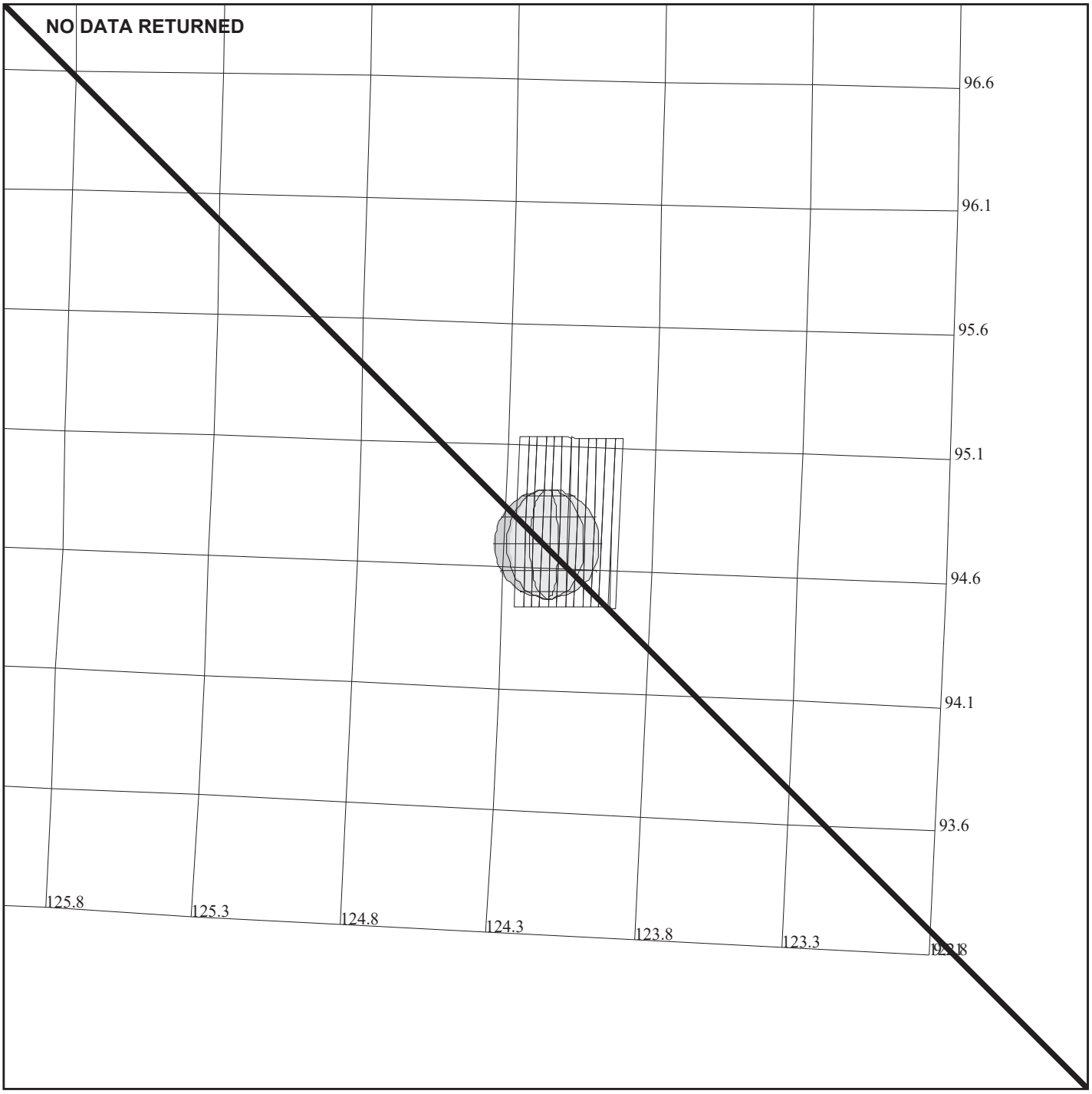
Memory load from CDS to NIMS and restart.
Diagnostic checksum, processor halt, memory reload from CDS,
instrument restart, and operational mode set.

Design Detail

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

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

Galileo Activity Plan Form 03/17/97 17:37:31 rev 6/95



165DJ:TT= 0 TMC= 1 C= -3.50 XC= 0.00 BS= 0/4489 TC= 3
A= 728 pD= 590 SR=17.450 RA50=257.77 DEC50=-24.43 cone=123.91 clock= 94.79
117DJ:#SB= 1 OR= 0.020 RR=12.000 BM=F RC= 1 BS= 0/4489
1:#s= 1 Cs= 3.90 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 590 rD= 2

G7INCHEMIS03

TARGET G3.1 lisac: 5/ 6/1997 12:10: 0

FILE:P.G7INCHEMIS03

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS **F_R_O_Z_E_N___T_M_C**

PERIAPSIS: **THINNING:NIM 2**

START:IEE 97-093/21:11:39.733 -CDS 189:00:0 **BODY PLOT TIME:TARGET-TIME D= 590 S= 0.100**

OBSERVATION:G7INCHEMIS03 **DESCRIP:Io Dayside Monitoring 03**

MONITORING OF IO'S DAYSIDE

ACTIVITY ID: G7INCHEMIS03-
START TIME: 97-093/17:55:30.400

Activity ID: Orbit G7 Target I Inst N OAPEL CHEMIS SeqNo 03 -

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

Time System	CDS	Load ID	Calendar Date	04/03/97	Week 14
Start	IEE-CDS	00000194:00:0	97-093/17:55:30.400	IEE-000/03:16:09.333	
End	IEE-CDS	00000185:55:0	97-093/18:03:59.733	IEE-000/03:07:40.000	
Duration		00000008:36:0	000/00:08:29.333	000/00:08:29.333	

Top Label	G7INCHEMIS03-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	162	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Dayside monitoring covering wide range of longitudes to look for chemical changes (e.g. SO2 distribution) at resolutions better than ~800 km/nimsel (most observations will have resolutions between 120 and 400 km/nimsel).

No Data Returned

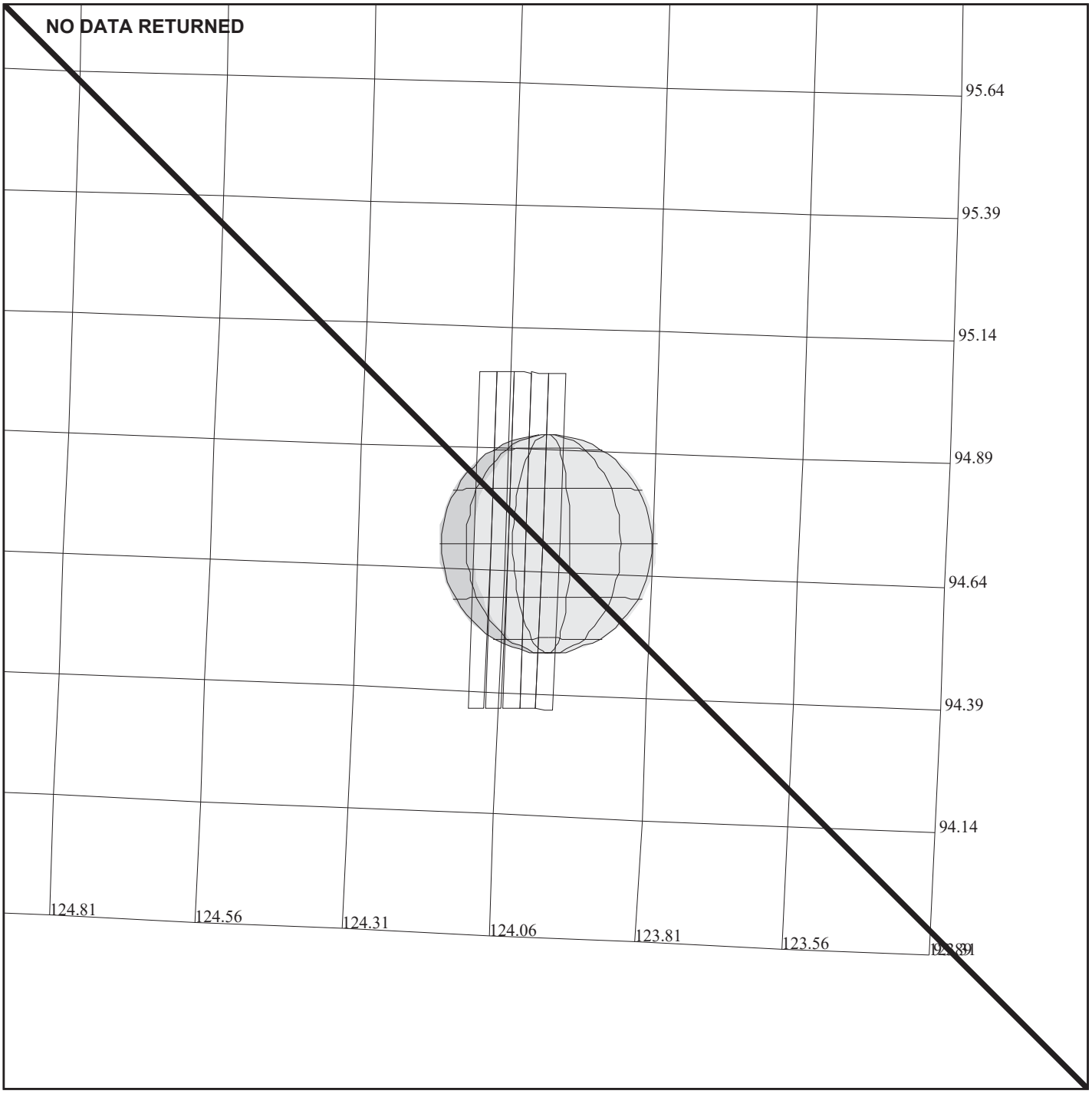
Design Detail

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

Long map, 102 wavelengths.
Tracks used per orbit: 0.05 to 0.42.
Bits To Ground per orbit: 0.3 to 2.2 Mbits.

Long Map (LM), Gain 2, Grating Start 0, MPW, G7ILM442, G7ILM102B

Galileo Activity Plan Form 03/17/97 17:37:31 rev 6/95



165DL:TT= 0 TMC= 1 C= 1.40 XC= 0.00 BS= 0/5399 TC= 3
A= 182 pD= 0 SR=17.450 RA50=257.77 DEC50=-24.42 cone=123.97 clock= 94.71
117DL:#SB= 1 OR= 0.020 RR=12.000 BM=F RC= 1 BS= 0/5399
1:#s= 1 Cs= 1.50 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 230 rD= 2

G7INTHRMAL03

TARGET G3.1 lisac: 5/ 6/1997 12:10: 0

FILE:P.G7INTHRMAL03

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS **F_R_O_Z_E_N___T_M_C**

PERIAPSIS: **THINNING:NIM 2**

START:IEE 97-093/21:11:39.733 -CDS 184:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.200**

OBSERVATION:G7INTHRMAL03 **DESCRIP:Io Nightside Monitoring 03**

MONITORING OF IO'S NIGHTSIDE — ACTIVITY ID: G7INTHRMAL03- — START TIME: 97-093/18:04:09.733

Activity ID: Orbit G7 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	Calendar Date	04/03/97	Week 14
Start	IEE-CDS	00000185:40:0	97-093/18:04:09.733	IEE-000/03:07:30.000	
End	IEE-CDS	00000182:57:0	97-093/18:07:00.400	IEE-000/03:04:39.333	
Duration		00000002:74:0	000/00:02:50.667	000/00:02:50.667	

Top Label	G7INTHRMAL03-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	149	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Thermal monitoring of Io's nightside covering as wide a range of longitudes as possible with resolutions better than ~800 km/nimsel. Objective is to search for and map hot spots, thermal anomalies and outbursts on the surface. Observations will also include the limb to search for auroral effects.

No Data Returned

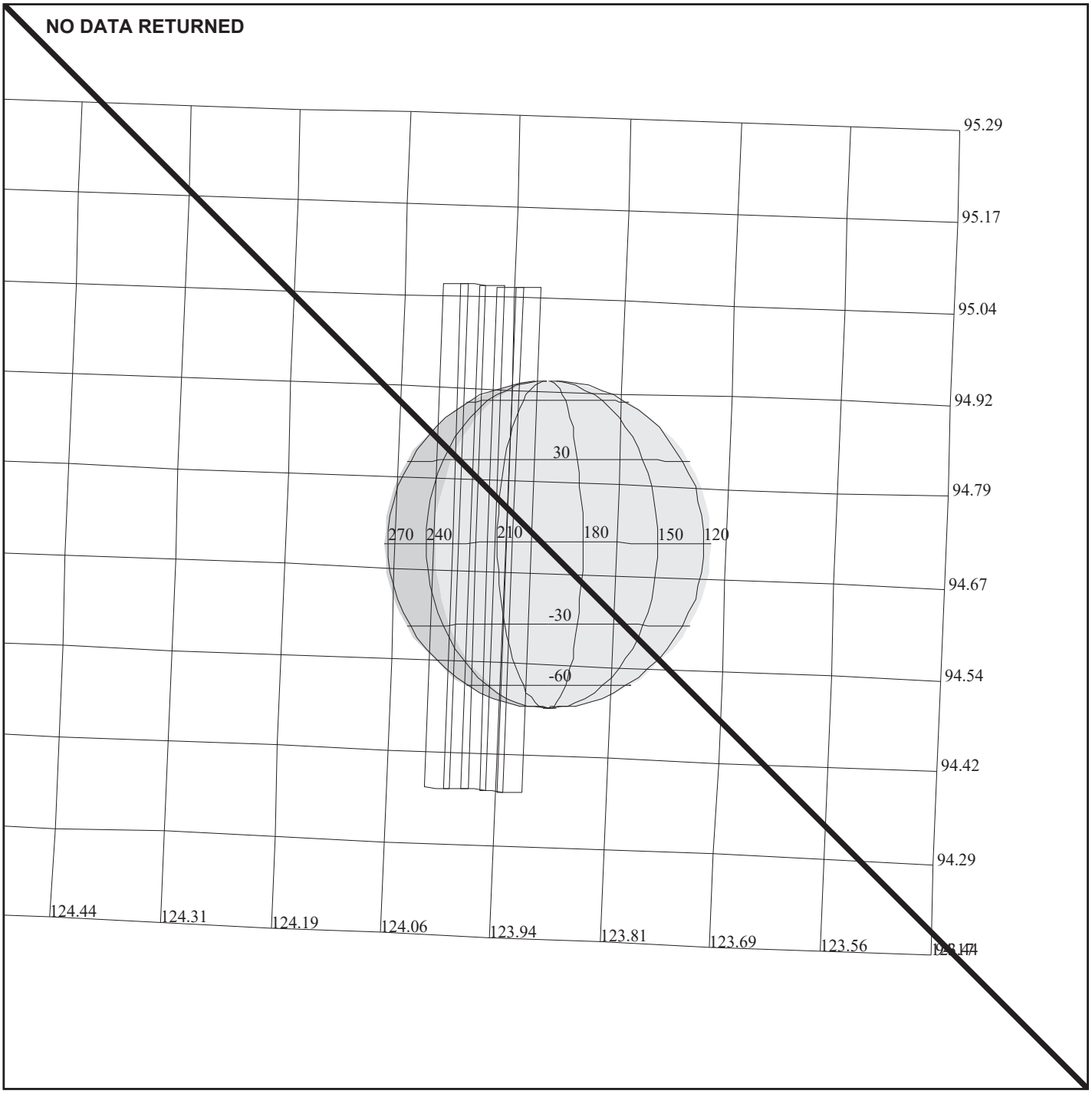
Design Detail

Partial or full disk mosaics within C/A + or - 32 hours in all orbits. High priority orbits are G1, C3, and C10 because these have the highest longitudinal coverage and orbits G7 and G8 because these have the best nighttime resolution for LOKI.

Instrument mode: Long Map,
Number of Wavelengths: 102,
Tracks used per orbit: 0.01 to 0.1,
Bits To Ground used per orbit: 0.01 to 0.5 Mbits.
1 RIM targetting.

Long Map (LM), Gain 4, Grating Start 0, MPW, G7ILM442, G7ILMDK102B

Galileo Activity Plan Form — 03/17/97 17:37:31 — rev 6/95



165DN:TT= 0 TMC= 1 C= 3.70 XC= 0.00 BS= 0/5945 TC= 3
A= 182 pD= 0 SR=17.450 RA50=257.81 DEC50=-24.42 cone=124.01 clock= 94.71
117DN:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/5945
1:#s= 1 Cs= -2.25 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 230 rD= 2

G7INVOLCAN01

TARGET G3.1 lisac: 5/ 6/1997 12:10: 0

FILE:P.G7INVOLCAN01

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS **F_R_O_Z_E_N___T_M_C**

PERIAPSIS: **THINNING:NIM 2**

START:IEE 97-093/21:11:39.733 -CDS 181:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.300**

OBSERVATION:G7INVOLCAN01 **DESCRIP:Io Volcan 01**

MONITORING OF SELECTED VOLCANIC REGIONS ACTIVITY ID: G7INVOLCAN01-
START TIME: 97-093/18:07:20.400

Activity ID: Orbit G7 Target I Inst N OAPEL VOLCAN SeqNo 01 -

Title	MONITORING OF SELECTED VOLCANIC REGIONS	Instrument	NIMS
Requestor	NIMS-SWG/R. LOPES	Team	NIMS Working Group SWG

Time System	CDS	Load ID	Calendar Date	04/03/97	Week 14
Start	IEE-CDS 00000182:27:0	97-093/18:07:20.400		IEE-000/03:04:19.333	
End	IEE-CDS 00000179:00:0	97-093/18:10:40.400		IEE-000/03:00:59.333	
Duration	00000003:27:0	000/00:03:20.000		000/00:03:20.000	

Top Label	G7INVOLCAN01-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	125	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

To monitor time variations in activity of selected regions
(Loki, Pelee, Kanehekili) using selected wavelengths.

No Data Returned

Design Detail

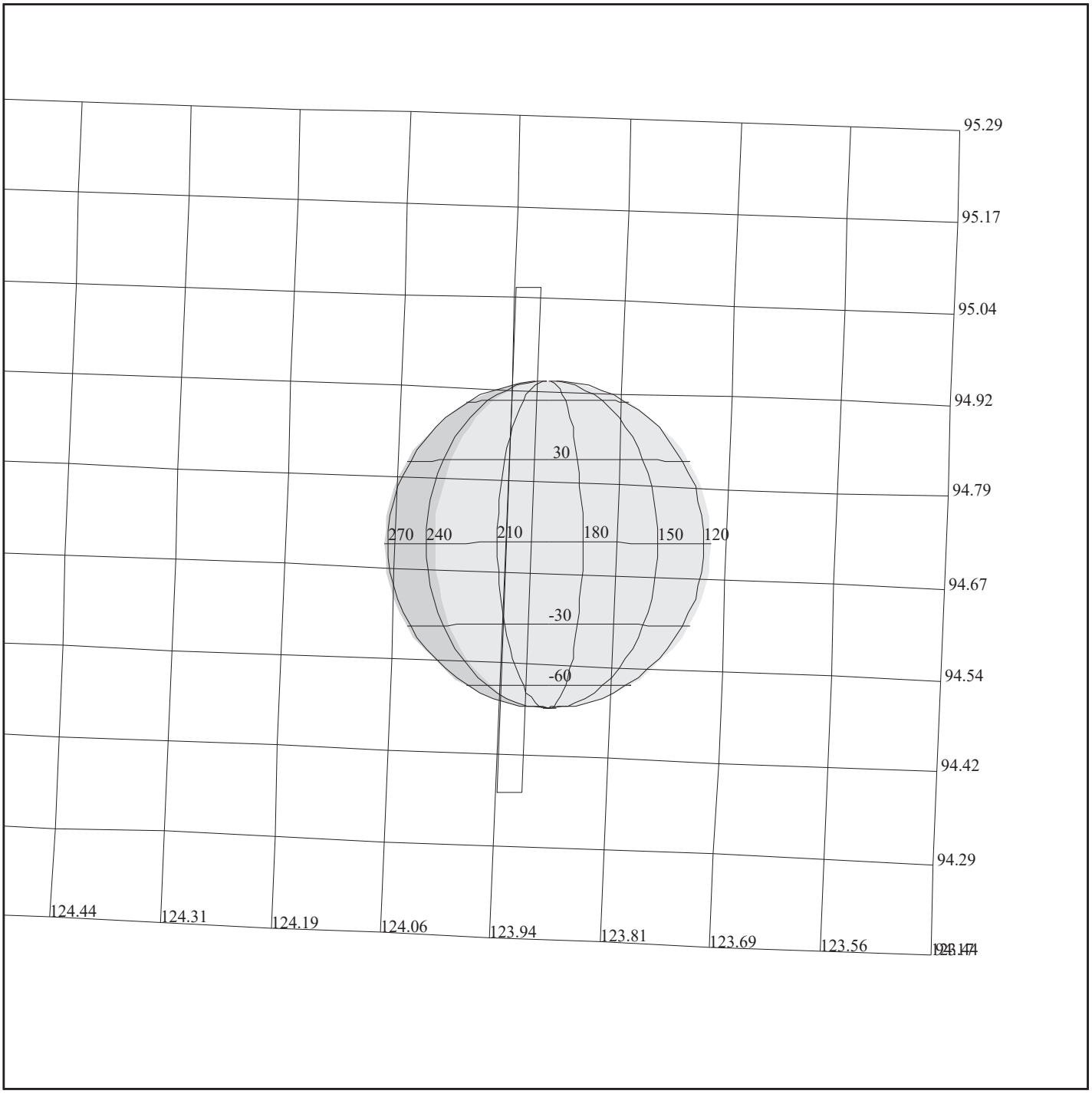
Long Map, 12 wavelengths, 30 secs duration (or less).
Orbit 7 is high priority for Loki region,
will be seen at the best nightside resolution (278 km).
~ 5 observations per orbit.
Tracks: 0.005 per observation.

Locations of features:
- Kanehekili (-10 d. lat. +40 d. long.)
- Pelee (-20 d. lat. -255 d. long.)
- Loki (+12 d. lat. 310 d. long.)

1 rim targetting.

Long Map (LM), Gain 4, Grating Start 0, MPW, G7ILM442, G7ILMDK102B

Galileo Activity Plan Form 03/17/97 17:37:31 rev 6/95



165DN:TT= 0 TMC= 1 C= 3.70 XC= 0.00 BS= 0/5945 TC= 3
A= 182 pD= 0 SR=17.450 RA50=257.81 DEC50=-24.42 cone=124.01 clock= 94.71
117DN:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/5945
1:#s= 1 Cs= -2.25 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 230 rD= 2

G7NNHEALTH02

TARGET G3.1 lisac: 5/ 6/1997 12:10: 0

FILE:P.G7INVOLCAN01

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS **F_R_O_Z_E_N___T_M_C**

PERIAPSIS: **THINNING:NIM 2**

START:IEE 97-093/21:11:39.733 -CDS 181:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.300**

OBSERVATION:G7INVOLCAN01 **DESCRIP:Io Volcan 01**

G7 NIMS Health Observation

ACTIVITY ID: G7NNHEALTH02-
START TIME: 97-093/18:10:47.067

Activity ID: Orbit G7 Target N Inst N OAPEL HEALTH SeqNo 02 -

Title	G7 NIMS Health Observation			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID	Calendar Date	04/03/97	Week 14

Start	IEE-CDS	00000178:81:0	97-093/18:10:47.067	IEE-000/03:00:52.666
End	IEE-CDS	00000173:00:0	97-093/18:16:44.400	IEE-000/02:54:55.333
Duration		00000005:81:0	000/00:05:57.333	000/00:05:57.333

Top Label G7NNHEALTH02-
Bottom Label

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

Observation Objective

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

Data Returned

Design Detail

Long Map (LM), Gain 2, Grating Start 0, R/T, G7RCVY3

Galileo Activity Plan Form 03/17/97 17:37:32 rev 6/95

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NIMS Software Reload

ACTIVITY ID: G7NNNIMSLD02-
START TIME: 97-093/20:42:20.400

Activity ID: Orbit G7 Target N Inst N OAPEL NIMSLD SeqNo 02 -

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

Time System	CDS	Load ID	Calendar Date	04/03/97	Week 14
Start	IEE-CDS	00000029:00:0	97-093/20:42:20.400	IEE-000/00:29:19.333	
End	IEE-CDS	00000019:00:0	97-093/20:52:27.067	IEE-000/00:19:12.666	
Duration		00000010:00:0	000/00:10:06.667	000/00:10:06.667	

Top Label G7NNNIMSLD02-
Bottom Label

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

Observation Objective

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

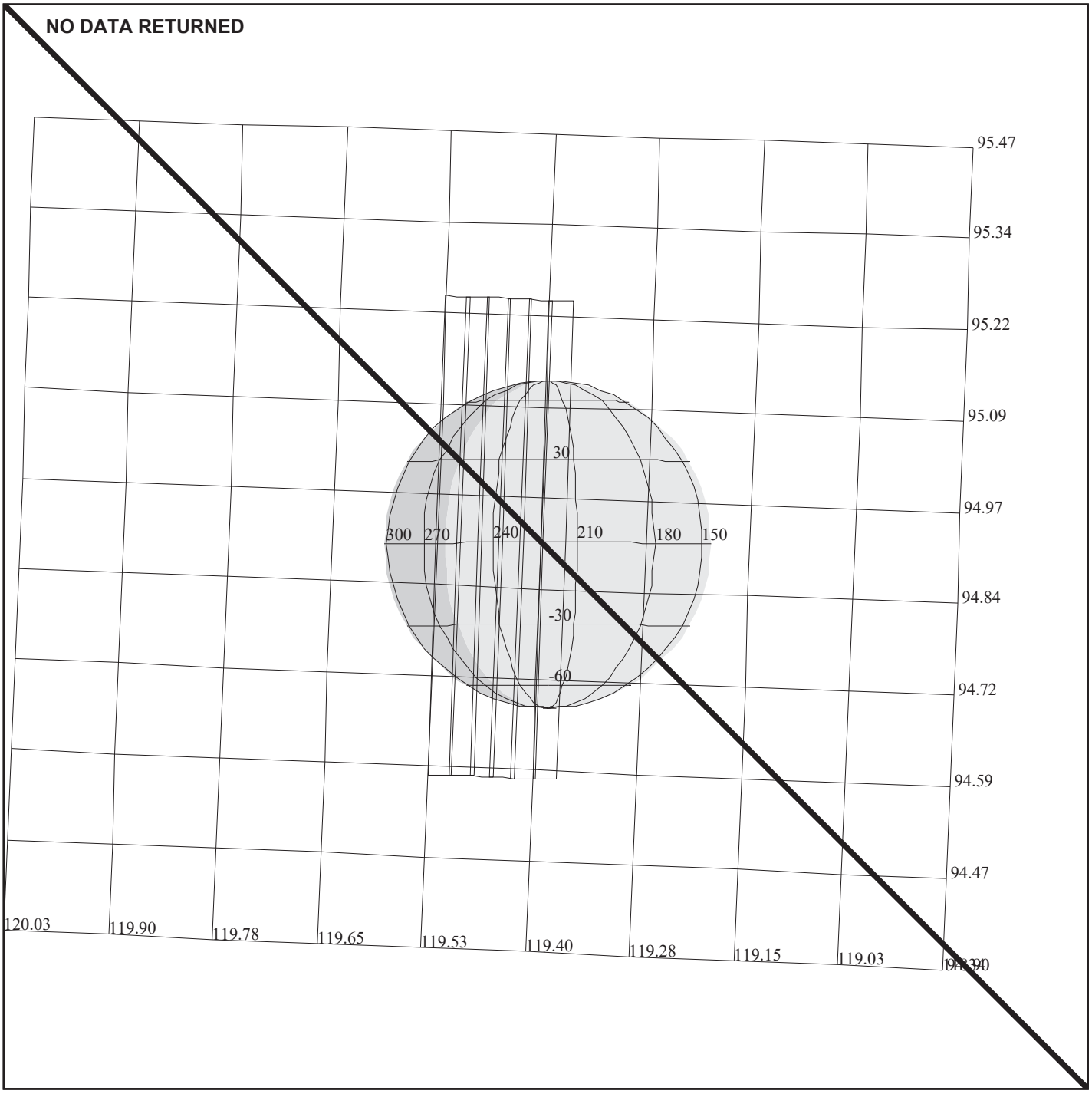
Memory load from CDS to NIMS and restart.
Diagnostic checksum, processor halt, memory reload from CDS,
instrument restart, and operational mode set.

Design Detail

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

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

Galileo Activity Plan Form 03/17/97 17:37:32 rev 6/95



165DU:TT= 0 TMC= 1 C= 3.70 XC= 0.00 BS= 0/6339 TC= 3
A= 728 pD= 0 SR=17.450 RA50=252.91 DEC50=-23.99 cone=119.52 clock= 94.91
117DU:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/6339
1:#s= 1 Cs= -2.75 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 280 rD= 2

G7INVOLCAN02

TARGET G3.1 lisac: 5/ 6/1997 12:10: 0

FILE:P.G7INVOLCAN02

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS **F_R_O_Z_E_N___T_M_C**

PERIAPSIS: **THINNING:NIM 2**

START:IEE 97-093/21:11:39.733 -CDS 14:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.300**

OBSERVATION:G7INVOLCAN02 **DESCRIP:Io Volcan 02**

MONITORING OF SELECTED VOLCANIC REGIONS ACTIVITY ID: G7INVOLCAN02-
START TIME: 97-093/20:53:14.400

Activity ID: Orbit G7 Target I Inst N OAPEL VOLCAN SeqNo 02 -

Title	MONITORING OF SELECTED VOLCANIC REGIONS	Instrument	NIMS
Requestor	NIMS-SWG/R. LOPES	Team	NIMS Working Group SWG

Time System	CDS	Load ID	Calendar Date	04/03/97	Week 14
Start	IEE-CDS	00000018:20:0	97-093/20:53:14.400	IEE-000/00:18:25.333	
End	IEE-CDS	00000012:30:0	97-093/20:59:11.733	IEE-000/00:12:28.000	
Duration		00000005:81:0	000/00:05:57.333	000/00:05:57.333	

Top Label	G7INVOLCAN02-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	156	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

To monitor time variations in activity of selected regions
(Loki, Pelee, Kanehekili) using selected wavelengths.

No Data Returned

Design Detail

Long Map, 12 wavelengths, 30 secs duration (or less).
Orbit 7 is high priority for Loki region,
will be seen at the best nightside resolution (278 km).
~ 5 observations per orbit.
Tracks: 0.005 per observation.

Locations of features:

Kanehekili	(-10 d. lat.	+40 d. long.)
Pelee	(-20 d. lat.	-255 d. long.)
Loki	(+12 d. lat.	310 d. long.)

Long Map (LM), Gain 4, Grating Start 0, LPU, G7ILMDK244B, G7ILMDK102B

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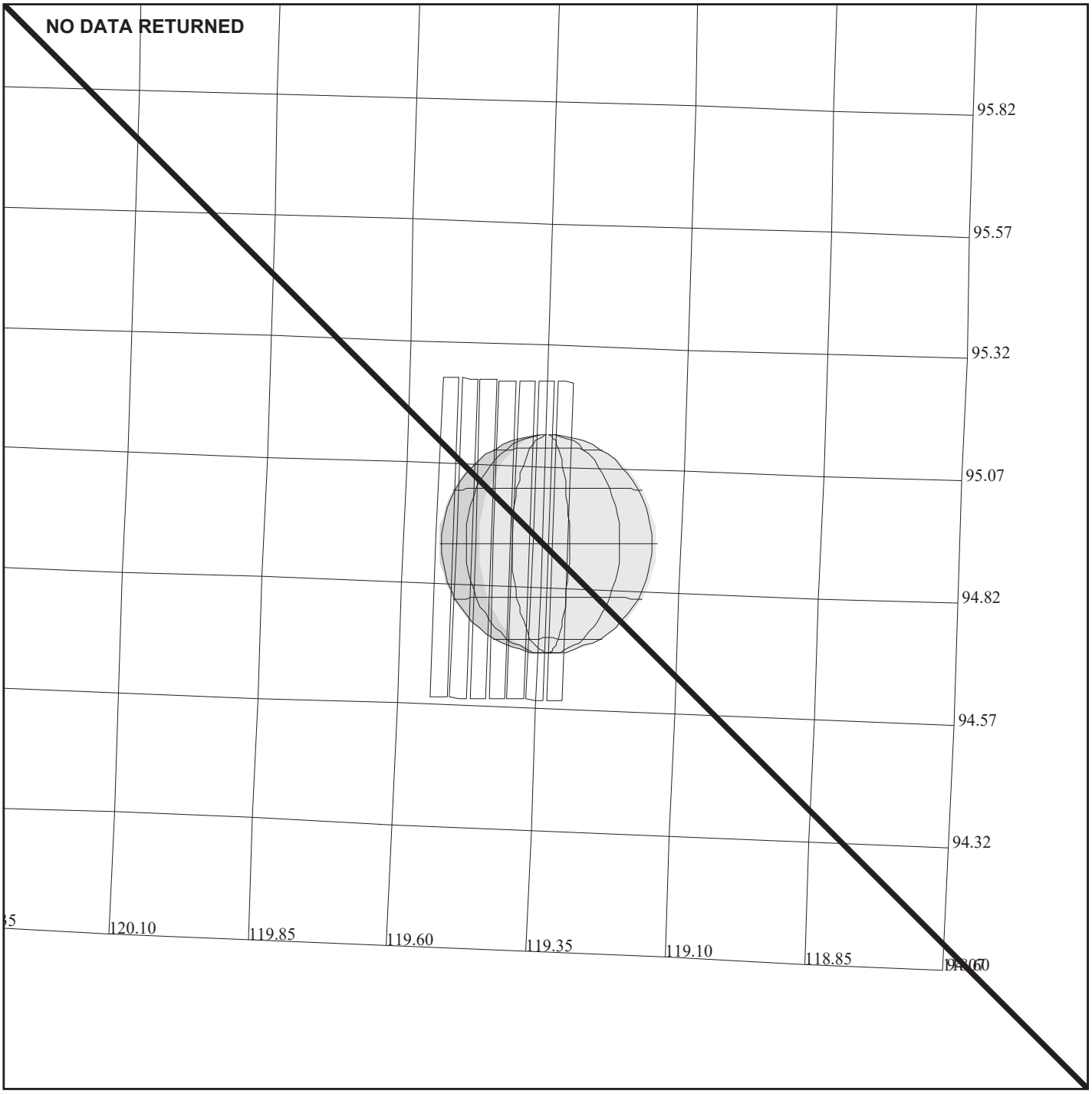

165DV:TT= 0 TMC= 1 C= 1.00 XC= 0.00 BS= 0/6885 TC= 3
A= 182 pD= 0 SR=17.450 RA50=252.68 DEC50=-23.97 cone=119.31 clock= 94.91
117DV:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/6885
1:#s= 1 Cs= 3.50 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 354 rD= 2

G7INTHRMAL04

TARGET G3.1 lisac: 5/ 6/1997 12:10: 0

FILE:P.G7INTHRMAL04

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS **F_R_O_Z_E_N___T_M_C**

PERIAPSIS: **THINNING:NIM 2**

START:IEE 97-093/21:11:39.733 -CDS 11:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.200**

OBSERVATION:G7INTHRMAL04 **DESCRIP:Io Nightside Monitoring 04**

MONITORING OF IO'S NIGHTSIDE ACTIVITY ID: G7INTHRMAL04-
START TIME: 97-093/20:59:21.733

Activity ID: Orbit G7 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	Calendar Date	04/03/97	Week 14
Start	IEE-CDS	00000012:15:0	97-093/20:59:21.733	IEE-000/00:12:18.000	
End	IEE-CDS	00000009:06:0	97-093/21:02:29.733	IEE-000/00:09:10.000	
Duration		00000003:09:0	000/00:03:08.000	000/00:03:08.000	

Top Label G7INTHRMAL04-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	125	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Thermal monitoring of Io's nightside covering as wide a range of longitudes as possible with resolutions better than ~800 km/nimsel. Objective is to search for and map hot spots, thermal anomalies and outbursts on the surface. Observations will also include the limb to search for auroral effects.

No Data Returned

Design Detail

Partial or full disk mosaics within C/A + or - 32 hours in all orbits. High priority orbits are G1, C3, and C10 because these have the highest longitudinal coverage and orbits G7 and G8 because these have the best nighttime resolution for LOKI.

Instrument mode: Long Map,
Number of Wavelengths: 102,
Tracks used per orbit: 0.01 to 0.1,
Bits To Ground used per orbit: 0.01 to 0.5 Mbits.

Long Map (LM), Gain 4, Grating Start 0, MPW, G7ILM442, G7ILMDK102B

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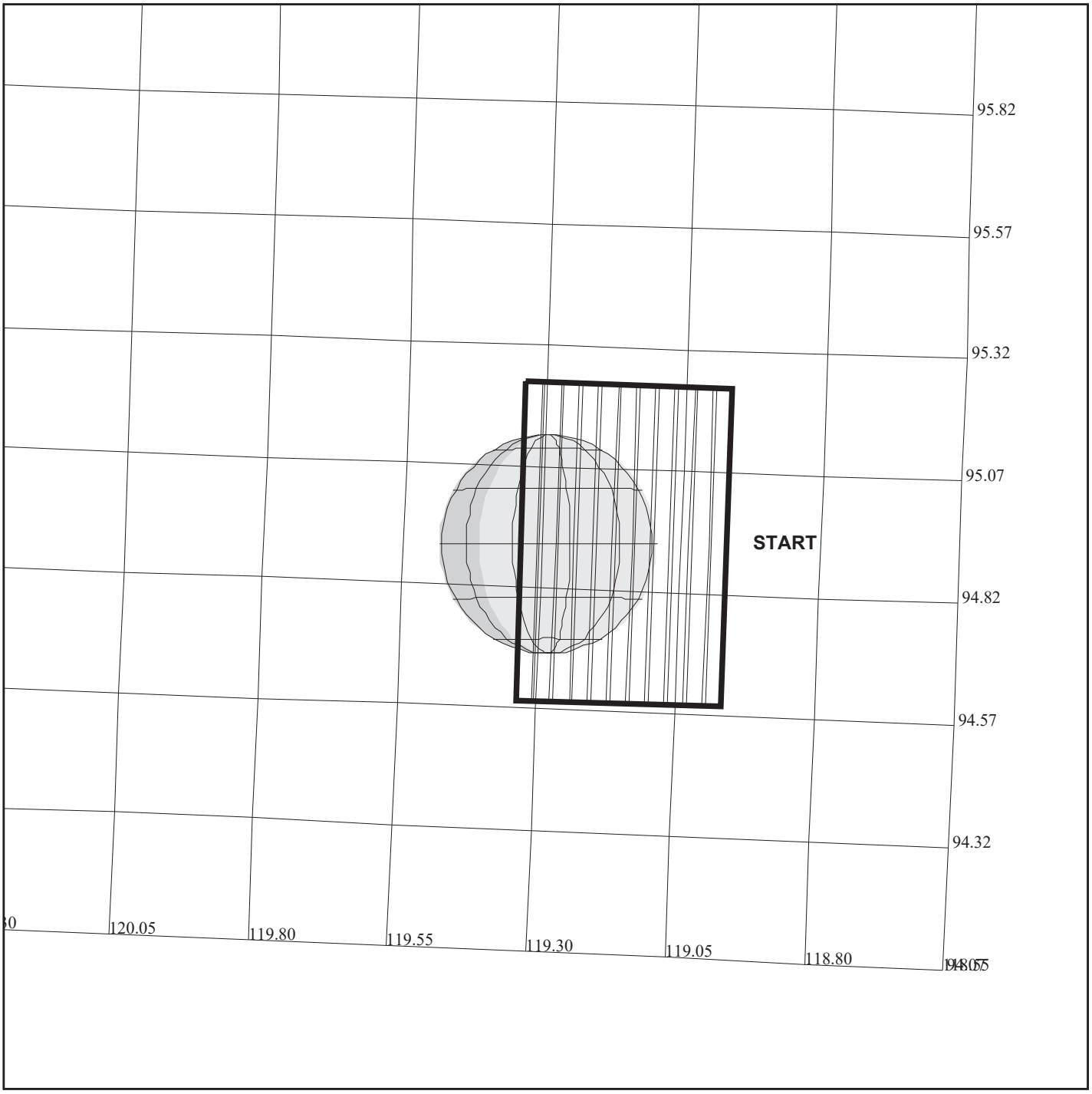

165DW:TT= 0 TMC= 1 C= -4.00 XC= 0.00 BS= 0/7431 TC= 3
A= 182 pD= 0 SR=17.450 RA50=252.32 DEC50=-23.95 cone=118.98 clock= 94.91
117DW:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/7431
1:#s= 1 Cs= 5.30 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 534 rD= 2

G7INHRSPEC01

TARGET G3.1 lisac: 5/ 6/1997 12:10: 0

FILE:P.G7INHRSPEC01

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS **F_R_O_Z_E_N___T_M_C**

PERIAPSIS: **THINNING:NIM 2**

START:IEE 97-093/21:11:39.733 -CDS 8:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.200**

OBSERVATION:G7INHRSPEC01 **DESCRIP:Io High Resolution Dayside Map**

MONITORING OF IO'S DAYSIDE

ACTIVITY ID: G7INHRSPEC01-
START TIME: 97-093/21:02:30.400

Activity ID: Orbit G7 Target I Inst N OAPEL HRSPEC SeqNo 01 -

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

Time System	CDS	Load ID	Calendar Date	04/03/97	Week 14
Start	IEE-CDS 00000009:05:0	97-093/21:02:30.400		IEE-000/00:09:09.333	
End	IEE-CDS 00000004:00:0	97-093/21:07:37.067		IEE-000/00:04:02.666	
Duration	00000005:05:0	000/00:05:06.667		000/00:05:06.667	

Top Label	G7INHRSPEC01-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	143	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

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

Data Returned

Design Detail

Global mosaic in Long Map (408 wavelengths).

Long Map (LM), Gain 2, Grating Start 0, MPW, G7ILM442, G7ILM360

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NIMS Software Reload

ACTIVITY ID: G7NNNIMSLD03-
START TIME: 97-093/21:20:45.734

Activity ID: Orbit G7 Target N Inst N OAPEL NIMSLD SeqNo 03 -

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

NIMS AWG

Time System CDS Load ID Calendar Date 04/03/97 Week 14

Start	JTB-CDS 00000079:00:0	97-093/21:20:45.734	JTB-000/01:19:52.666
End	JTB-CDS 00000069:00:0	97-093/21:30:52.400	JTB-000/01:09:46.000
Duration	00000010:00:0	000/00:10:06.666	000/00:10:06.666

Top Label G7NNNIMSLD03-
Bottom Label

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

Observation Objective

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

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

Design Detail

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

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

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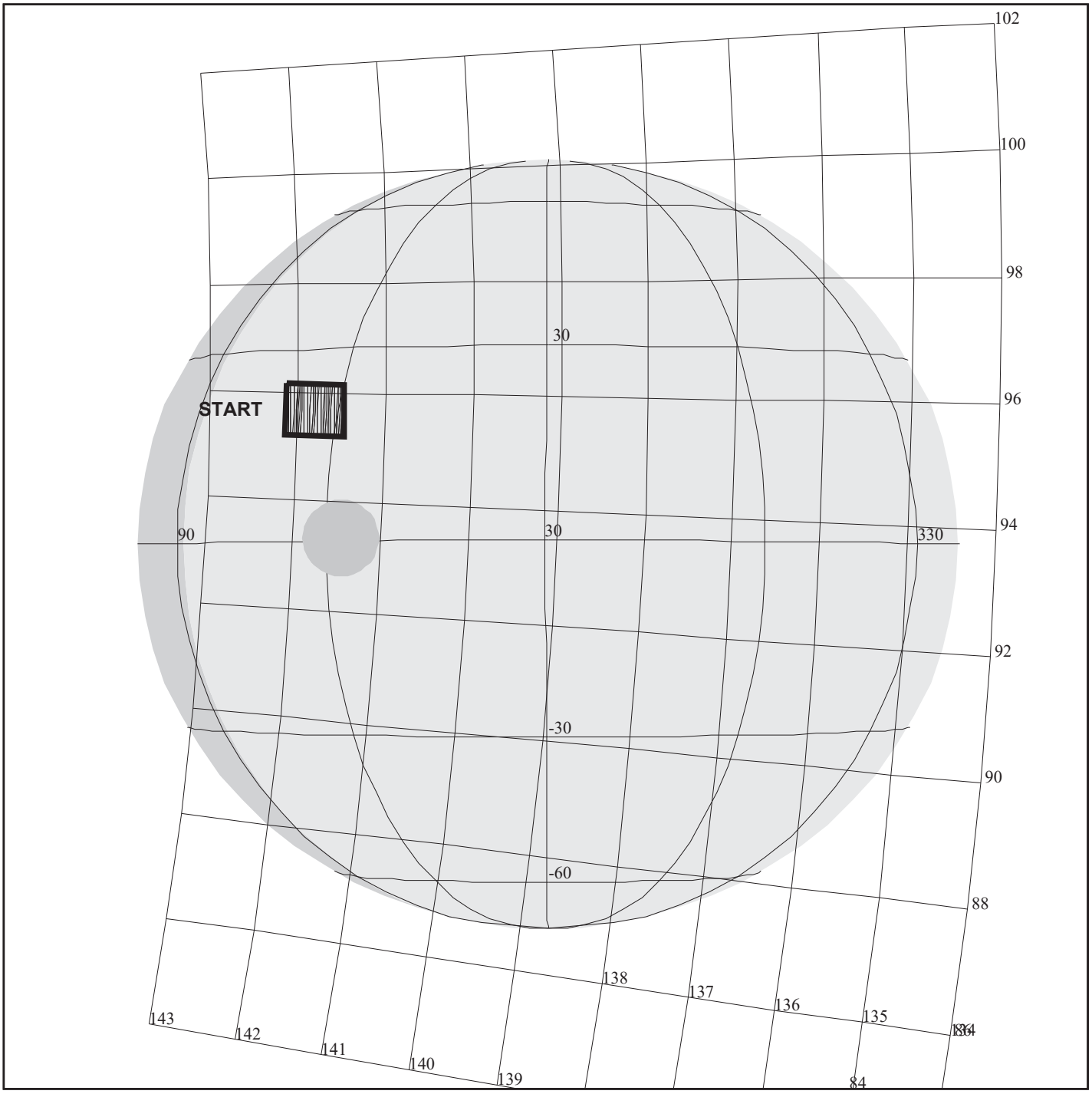

165DK:TT= 0 TMC= 1 C= 5.40 XC= 0.00 BS= 0/3255 TC= 1(20 65)
A= 728 pD= 0 SR=17.450 RA50=277.61 DEC50=-23.23 cone=142.13 clock= 95.68
117DK:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/3255
1:#s= 1 Cs= -10.80 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 300 rD= 2

G7JNPFC04101

TARGET G3.1 lisac: 5/ 6/1997 12:10: 0

FILE:P.G7JNPFC04101

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS **F_R_O_Z_E_N___T_M_C**

PERIAPSIS: **THINNING:NIM 2**

START:JTB 97-093/22:40:38.400 -CDS 64:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750**

OBSERVATION:G7JNPFC04101 **DESCRIP:JUP_FEA_TRK_41_DEG_PHASE_01**

Jupiter 22 N Feature Trk 41 deg phase ACTIVITY ID: G7JNPFC04101-
START TIME: 97-093/21:30:52.400

Activity ID: Orbit G7 Target J Inst N OAPEL PFC041 SeqNo 01 -

Title	Jupiter 22 N Feature Trk 41 deg phase	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team NIMS	Working Group AWG

Time System	CDS	Load ID	Calendar Date 04/03/97 Week 14
Start	JTB-CDS	00000069:00:0 97-093/21:30:52.400	JTB-000/01:09:46.000
End	JTB-CDS	00000062:00:0 97-093/21:37:57.067	JTB-000/01:02:41.333
Duration		00000007:00:0 000/00:07:04.667	000/00:07:04.667

Top Label G7JNPFC04101-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	159	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of 4 OAPELs constituting the North Temperate Belt feature C partial campaign. This is the only observation obtained on a rotation with phase angle approximately 28 degrees. Feature C imaged in 25 colors, using NIMS downlink wavelength table JFT25A. This observation acquired with NTeB feature near the terminator, assuming feature coordinates 20 degrees North latitude (planetographic) and 65 degrees west longitude (System III)
Original Times: Start CDS = 1064:31 End CDS = 1058:31 Duration = 6:00

Data Returned

Design Detail

Short map, Nyquist-sampled observation of 1*1 (10*10 mrad) area centered on NTeB partial comparison feature near 65 degrees West longitude, 22 degrees North latitude.
S/C distance about 0.82 million KM, NIMS IFOV (NIMSEL) = 410 KM;
1*1 mosaic covers 8200*8200 KM. About 100 seconds of scanning, accumulating 0.02554 mbtg in 4 colors, and using 0.00336 tracks.
Four rims reserved for targetting.
This observation referenced to EPOCH JTB.

Short Map (SM), Gain 2, Grating Start 1, LPU, G7JFT68C, G7JFT25A

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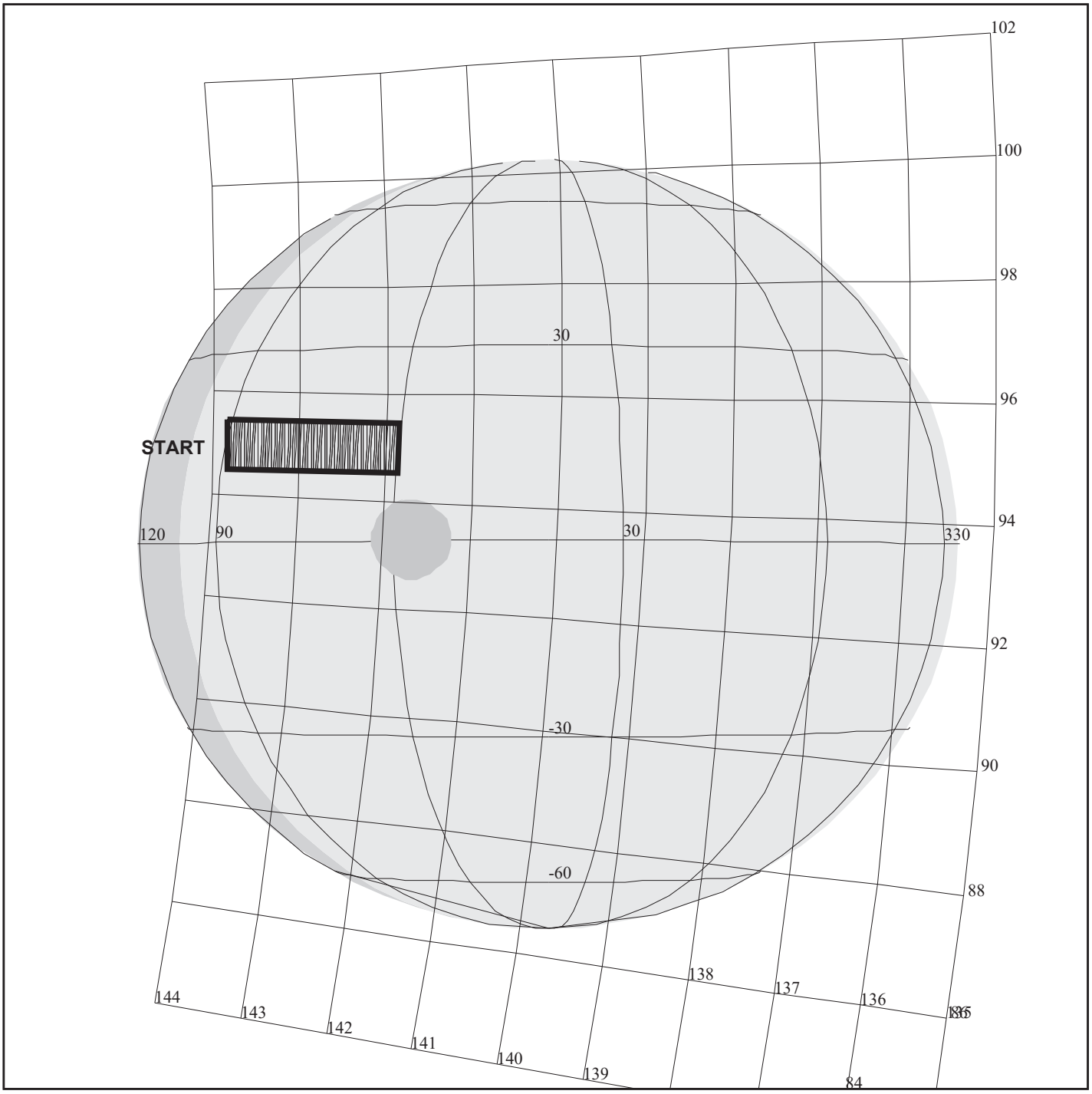

165DM:TT= 0 TMC= 1 C= 27.00 XC= 0.00 BS= 0/6531 TC= 1(14 65)
A= 364 pD= 0 SR=17.450 RA50=279.49 DEC50=-23.47 cone=143.82 clock= 94.99
117DM:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/6531
1:#s= 1 Cs= -32.80 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 900 rD= 2

G7JNFEAP4101

TARGET G3.1 lisac: 5/ 6/1997 12:10: 0

FILE:P.G7JNFEAP4101

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS **F_R_O_Z_E_N___T_M_C**

PERIAPSIS: **THINNING:NIM 2**

START:JTB 97-093/22:40:38.400 -CDS 46:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750**

OBSERVATION:G7JNFEAP4101 **DESCRIP:JUP_FTR/PRTL_TRK_41_PHASE_01**

Jupiter Ftr and Prtl Trk 41 deg part 1 ACTIVITY ID: G7JNFEAP4101-
START TIME: 97-093/21:51:05.734

Activity ID: Orbit G7 Target J Inst N OAPEL FEAP41 SeqNo 01 -

Title	Jupiter Ftr and Prtl Trk 41 deg part 1	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team NIMS	Working Group AWG

Time System	CDS	Load ID	Calendar Date 04/03/97 Week 14
Start	JTB-CDS	00000049:00:0 97-093/21:51:05.734	JTB-000/00:49:32.666
End	JTB-CDS	00000041:00:0 97-093/21:59:11.067	JTB-000/00:41:27.333
Duration		00000008:00:0 000/00:08:05.333	000/00:08:05.333

Top Label G7JNFEAP4101-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	137	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of 8 OAPELs constituting the North Tropical Zone (hopefully Brown Barge) feature track. Also, the first of 4 OAPELs constituting the partial feature track covering additional territory near the Brown Barge. For the primary feature this is the first observation obtained on a rotation with phase angle approximately 28 degrees. For the surrounding territory, this is the first observation at this phase angle. Jupiter imaged in 25 colors, using NIMS downlink wavelength table JFT25A. This observation acquired with feature near the morning terminator, at approximately 35 degrees relative longitude. Original Times: Start CDS = 1044:21 End CDS = 1033:62 Duration = 10:50

Data Returned

Design Detail

Short map, Nyquist-sampled observation of a 3*1 (30*10 mrad) scan of the Northern Tropical Zone hopefully, encompassing the Brown Barge feature. S/C distance about 0.81 million KM, NIMS IFOV (NIMSEL) = 405 KM; 3*1 mosaic covers 24300*8100 KM. About 300 seconds of scanning, accumulating 0.2695 MBTG in 19 colors, and using 0.01008 tracks. Two rims reserved for targetting. This observation referenced to EPOCH JTB.

Short Map (SM), Gain 2, Grating Start 1, LPU, G7JFT68C, G7JFT25A

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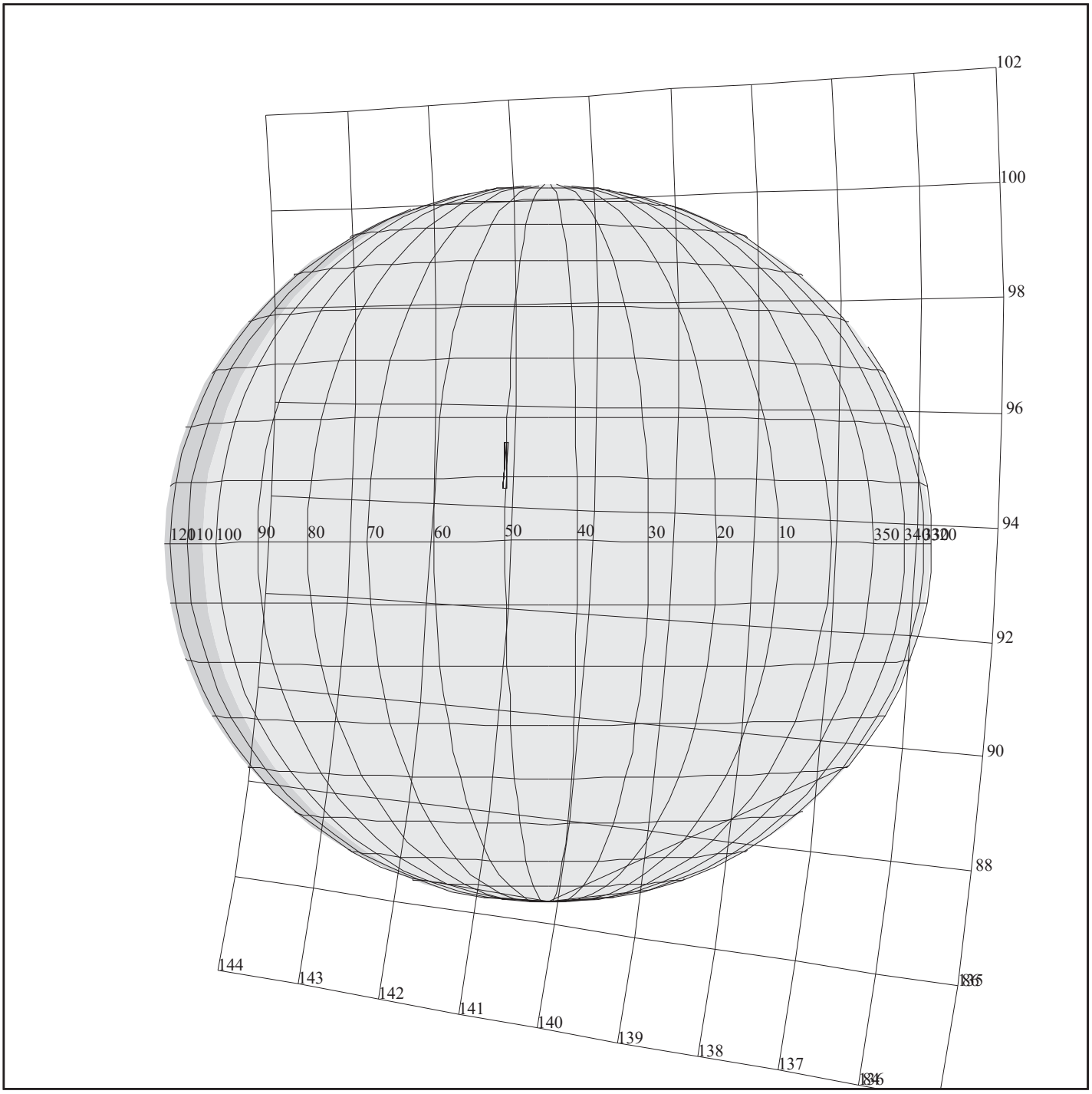

165FT:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/7987 TC= 1(12 50)
A= 364 pD= 0 SR=17.450 RA50=276.57 DEC50=-23.85 cone=141.12 clock= 94.82

G7JNRTHOTS01

TARGET G3.1 lisac: 5/ 6/1997 12:10: 0

FILE:P.G7JNRTHOTS01

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS **F_R_O_Z_E_N___T_M_C**

PERIAPSIS: **THINNING:NIM 2**

START:JTB 97-093/22:40:38.400 -CDS 38:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.700**

OBSERVATION:G7JNRTHOTS01 **DESCRIP:NIMS_JUPITER_HOTMAP_OBSERVATION**

Jupiter Hotspot Real-Time Observation ACTIVITY ID: G7JNRTHOTS01-
START TIME: 97-093/21:59:51.734

Activity ID: Orbit G7 Target J Inst N OAPEL RTHOTS SeqNo 01 -

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

Time System	CDS	Load ID	Calendar Date 04/03/97	Week 14
Start	JTB-CDS	00000040:30:0	97-093/21:59:51.734	JTB-000/00:40:46.666
End	JTB-CDS	00000035:00:0	97-093/22:05:15.067	JTB-000/00:35:23.333
Duration		00000005:30:0	000/00:05:23.333	000/00:05:23.333

Top Label G7JNRTHOTS01-
Bottom Label

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

Observation Objective

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

Data Returned

Design Detail

Long map real-time 1-rim spectra at 4 mirror positions centered on the Hotspot region.
NIMSel coordinates: 210 degrees West longitude, 6.5 degrees North latitude.
Acquired near the cental meridian at approximately 42 degrees phase angle.
Spatial resolution: 500 km/pixel.
CDS 02:70:0 used for targetting.

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

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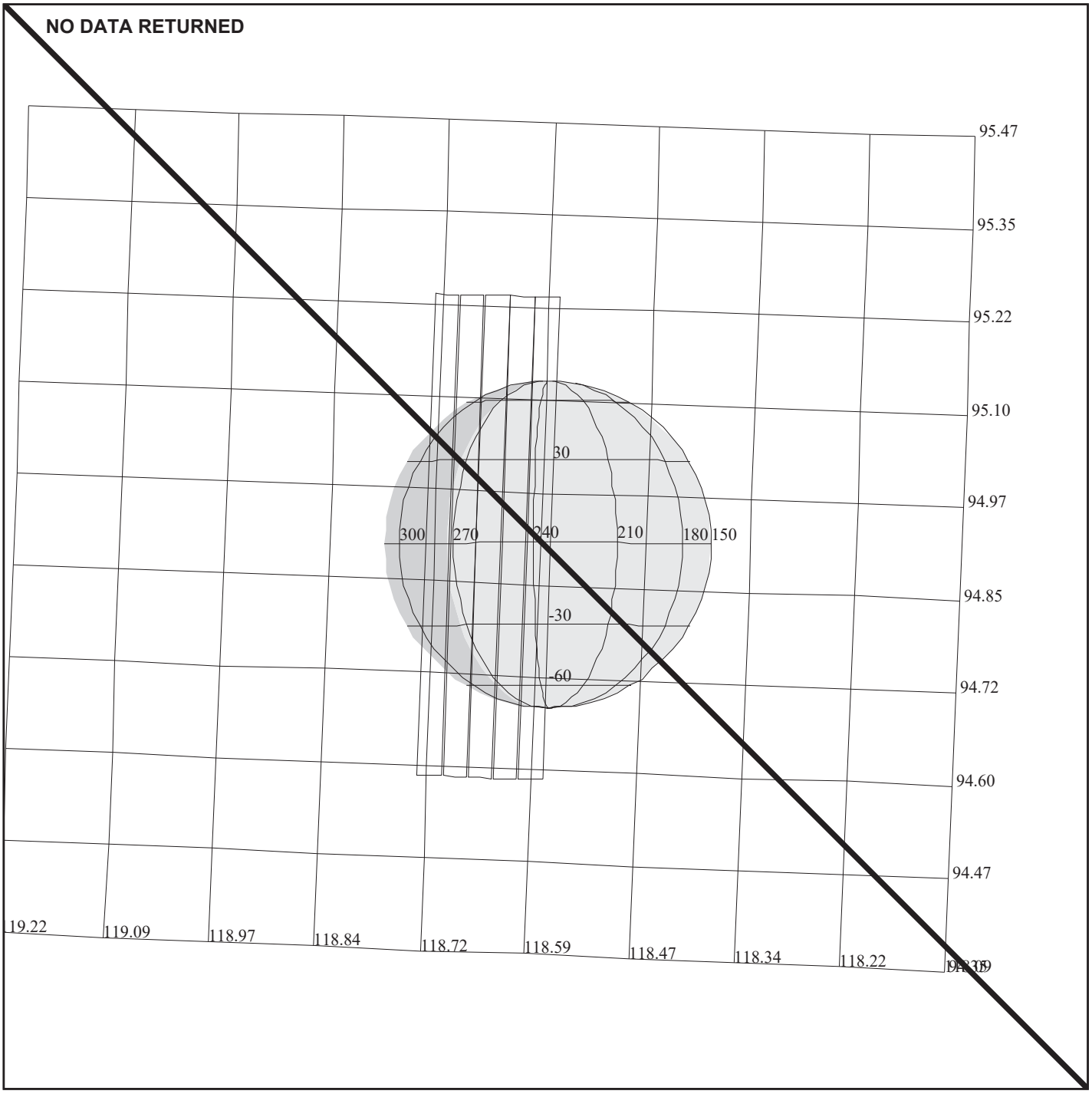

165DY:TT= 0 TMC= 1 C= 3.80 XC= 0.00 BS= 0/3811 TC= 3
A= 728 pD= 0 SR=17.450 RA50=252.04 DEC50=-23.93 cone=118.72 clock= 94.91
117DY:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/3811
1:#s= 1 Cs= -2.25 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 230 rD= 2

G7INVOLCAN03

TARGET G3.1 lisac: 5/ 6/1997 12:10: 0

FILE:P.G7INVOLCAN03

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS **F_R_O_Z_E_N___T_M_C**

PERIAPSIS: **THINNING:NIM 2**

START:IEE 97-093/21:11:39.733 +CDS 82:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.300**

OBSERVATION:G7INVOLCAN03 **DESCRIP:Io Volcan 03**

MONITORING OF SELECTED VOLCANIC REGIONS ACTIVITY ID: G7INVOLCAN03-
START TIME: 97-093/22:29:31.066

Activity ID: Orbit G7 Target I Inst N OAPEL VOLCAN SeqNo 03 -

Title	MONITORING OF SELECTED VOLCANIC REGIONS	Instrument	NIMS
Requestor	NIMS-SWG/R. LOPES	Team	NIMS Working Group SWG

Time System	CDS	Load ID	Calendar Date	04/03/97	Week 14
Start	IEE+CDS	00000077:00:0	97-093/22:29:31.066	IEE+000/01:17:51.333	
End	IEE+CDS	00000084:00:0	97-093/22:36:35.733	IEE+000/01:24:56.000	
Duration		00000007:00:0	000/00:07:04.667	000/00:07:04.667	

Top Label	G7INVOLCAN03-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	149	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

To monitor time variations in activity of selected regions
(Loki, Pelee, Kanehekili) using selected wavelengths.

No Data Returned

Design Detail

Long Map, 12 wavelengths, 30 secs duration (or less).
Orbit 7 is high priority for Loki region,
will be seen at the best nightside resolution (278 km).
~ 5 observations per orbit.
Tracks: 0.005 per observation.

Locations of features:
- Kanehekili (-10 d. lat. +40 d. long.)
- Pelee (-20 d. lat. -255 d. long.)
- Loki (+12 d. lat. 310 d. long.)

Long Map (LM), Gain 4, Grating Start 0, LPU, G7ILMDK244B, G7ILMDK102B

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NIMS Software Load

ACTIVITY ID: G7NNNIMSLD04-
START TIME: 97-093/22:36:35.733

Activity ID: Orbit G7 Target N Inst N OAPEL NIMSLD SeqNo 04 -

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

Time System	CDS	Load ID	Calendar Date	04/03/97	Week 14
Start	IEE+CDS	00000084:00:0	97-093/22:36:35.733	IEE+000/01:24:56.000	
End	IEE+CDS	00000093:00:0	97-093/22:45:41.733	IEE+000/01:34:02.000	
Duration		00000009:00:0	000/00:09:06.000	000/00:09:06.000	

Top Label	G7NNNIMSLD04-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	100	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

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

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

Design Detail

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

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

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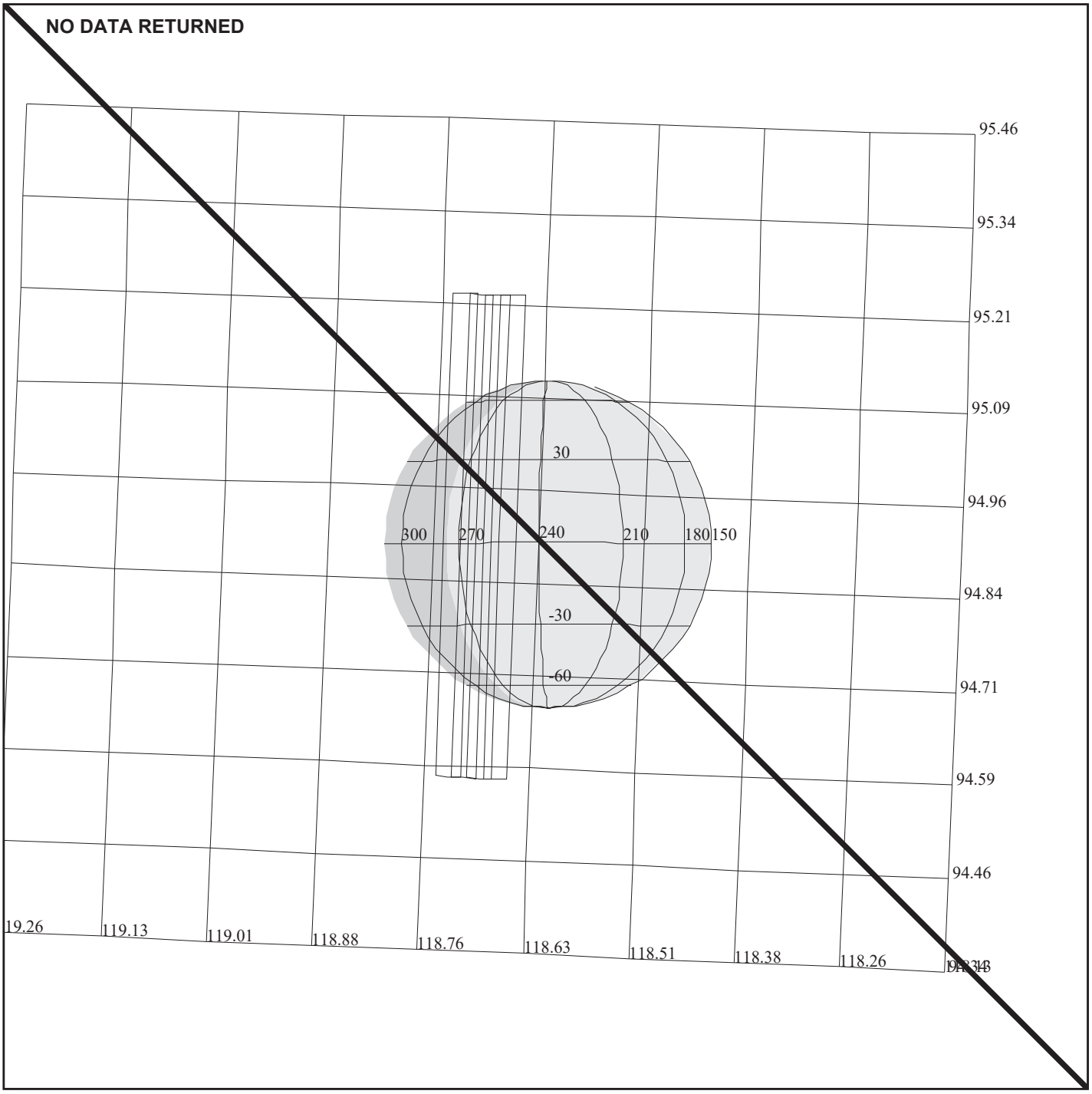


165DZ:TT= 0 TMC= 1 C= 2.20 XC= 0.00 BS= 0/6541 TC= 3
A= 546 pD= 0 SR=17.450 RA50=251.98 DEC50=-23.93 cone=118.67 clock= 94.90
117DZ:#SB= 1 OR= 0.020 RR=12.000 BM=F RC= 1 BS= 0/6541
1:#s= 1 Cs= 1.15 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 182 rD= 2

G7INVOLCAN04

TARGET G3.1 lisac: 5/ 6/1997 12:10: 0

FILE:P.G7INVOLCAN04

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS **F_R_O_Z_E_N___T_M_C**

PERIAPSIS: **THINNING:NIM 2**

START:IEE 97-093/21:11:39.733 +CDS 97:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.300**

OBSERVATION:G7INVOLCAN04 **DESCRIP:Io Volcan 04**

MONITORING OF SELECTED VOLCANIC REGIONS ACTIVITY ID: G7INVOLCAN04-
START TIME: 97-093/22:45:41.733

Activity ID: Orbit G7 Target I Inst N OAPEL VOLCAN SeqNo 04 -

Title	MONITORING OF SELECTED VOLCANIC REGIONS	Instrument	NIMS
Requestor	NIMS-SWG/R. LOPES	Team	NIMS Working Group SWG

Time System	CDS	Load ID	Calendar Date	04/03/97	Week 14
Start	IEE+CDS	00000093:00:0	97-093/22:45:41.733	IEE+000/01:34:02.000	
End	IEE+CDS	00000098:00:0	97-093/22:50:45.066	IEE+000/01:39:05.333	
Duration		00000005:00:0	000/00:05:03.333	000/00:05:03.333	

Top Label G7INVOLCAN04-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	98	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

To monitor time variations in activity of selected regions
(Loki, Pelee, Kanehekili) using selected wavelengths.

No Data Returned

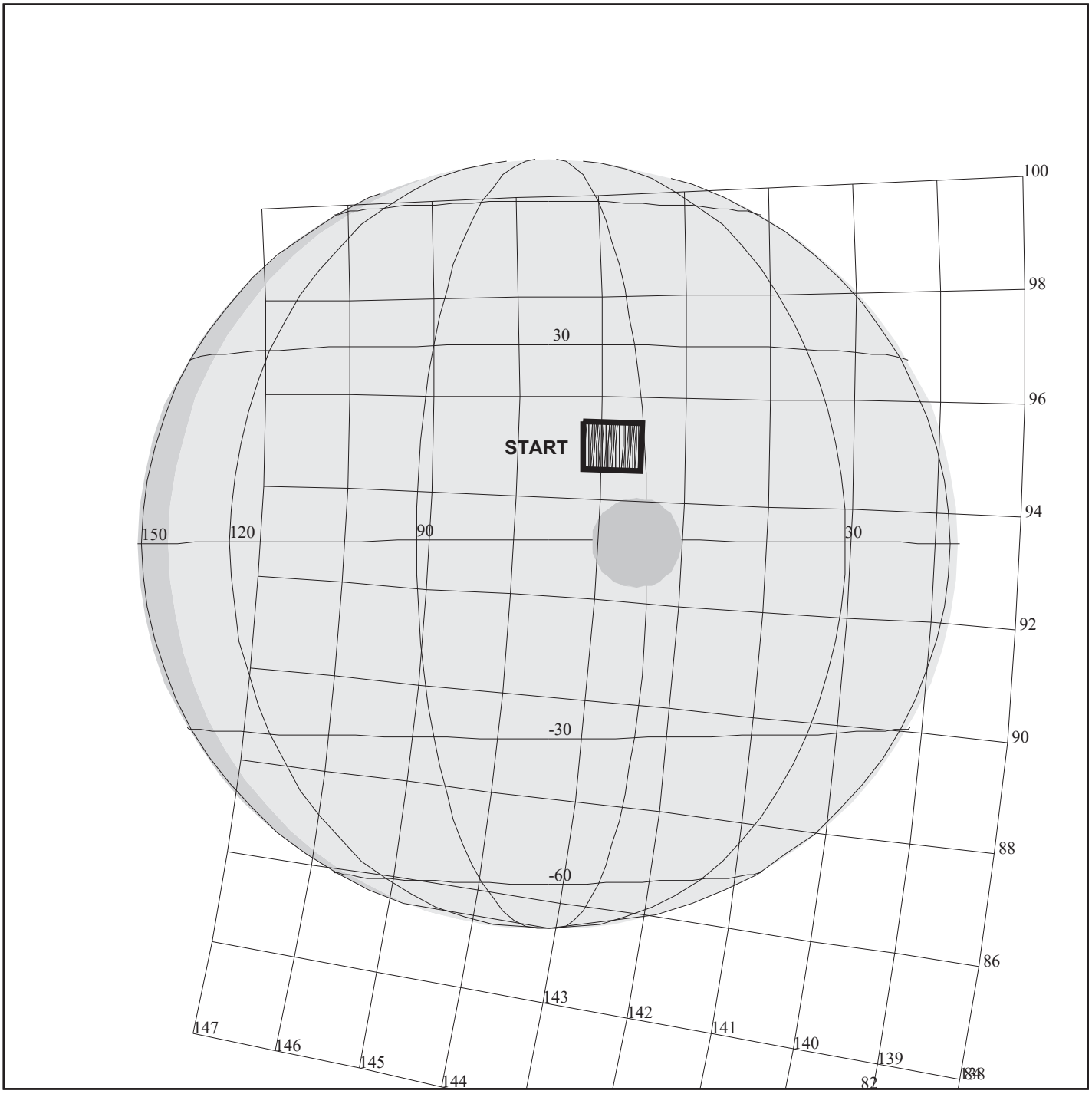
Design Detail

Long Map, 12 wavelengths, 30 secs duration (or less).
Orbit 7 is high priority for Loki region,
will be seen at the best nightside resolution (278 km).
~ 5 observations per orbit.
Tracks: 0.005 per observation.

Locations of features: Kanehekili (-10 d. lat. +40 d. long.)
Pelee (-20 d. lat. -255 d. long.)
Loki (+12 d. lat. 310 d. long.)

Long Map (LM), Gain 4, Grating Start 0, LPU, G7ILMDK244B, G7ILMDK102B

Galileo Activity Plan Form 03/17/97 17:37:33 rev 6/95



165DO:TT= 0 TMC= 1 C= 5.70 XC= 0.00 BS= 0/7451 TC= 1(14 65)
A= 546 pD= 0 SR=17.450 RA50=278.83 DEC50=-23.50 cone=143.21 clock= 95.05
117DO:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/7451
1:#s= 1 Cs= -10.80 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 1092 rD= 2

G7JNFEASUB01

TARGET G3.1 lisac: 5/ 6/1997 12:10: 0

FILE:P.G7JNFEASUB01

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS **F_R_O_Z_E_N___T_M_C**

PERIAPSIS: **THINNING:NIM 2**

START:JTB 97-093/22:40:38.400 +CDS 14:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750**

OBSERVATION:G7JNFEASUB01 **DESCRIP:JUP_CAMP_FEAT_SUB_SPECTRA**

Jupiter Campaign Feature sub-spectra ACTIVITY ID: G7JNFEASUB01-
START TIME: 97-093/22:50:45.066

Activity ID: Orbit G7 Target J Inst N OAPEL FEASUB SeqNo 01 -

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

Time System	CDS	Load ID	Calendar Date 04/03/97 Week 14
Start	JTB+CDS 10:00:0	97-093/22:50:45.066	JTB+000/00:10:06.666
End	JTB+CDS 00000020:00:0	97-093/23:00:51.733	JTB+000/00:20:13.333
Duration	00000010:00:0	000/00:10:06.667	000/00:10:06.667

Top Label G7JNFEASUB01-
Bottom Label

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

Observation Objective

High spectral resolution map of North Tropical Zone campaign feature (14 degrees north planetographic, 65 degrees west) acquired in several CH4 and H2 absorption features. This single partial-spectra map obtained under good lighting conditions (~22 degrees solar incidence angle, ~18 degrees emission angle). During this phase angle of about ~28 degrees rotation, Jupiter imaged in 80 colors distributed among five spectral regions, using NIMS downlink wavelength table JSB80A.
Original Times: Start CDS = 986:04 End CDS = 976:05 Duration = 10:02

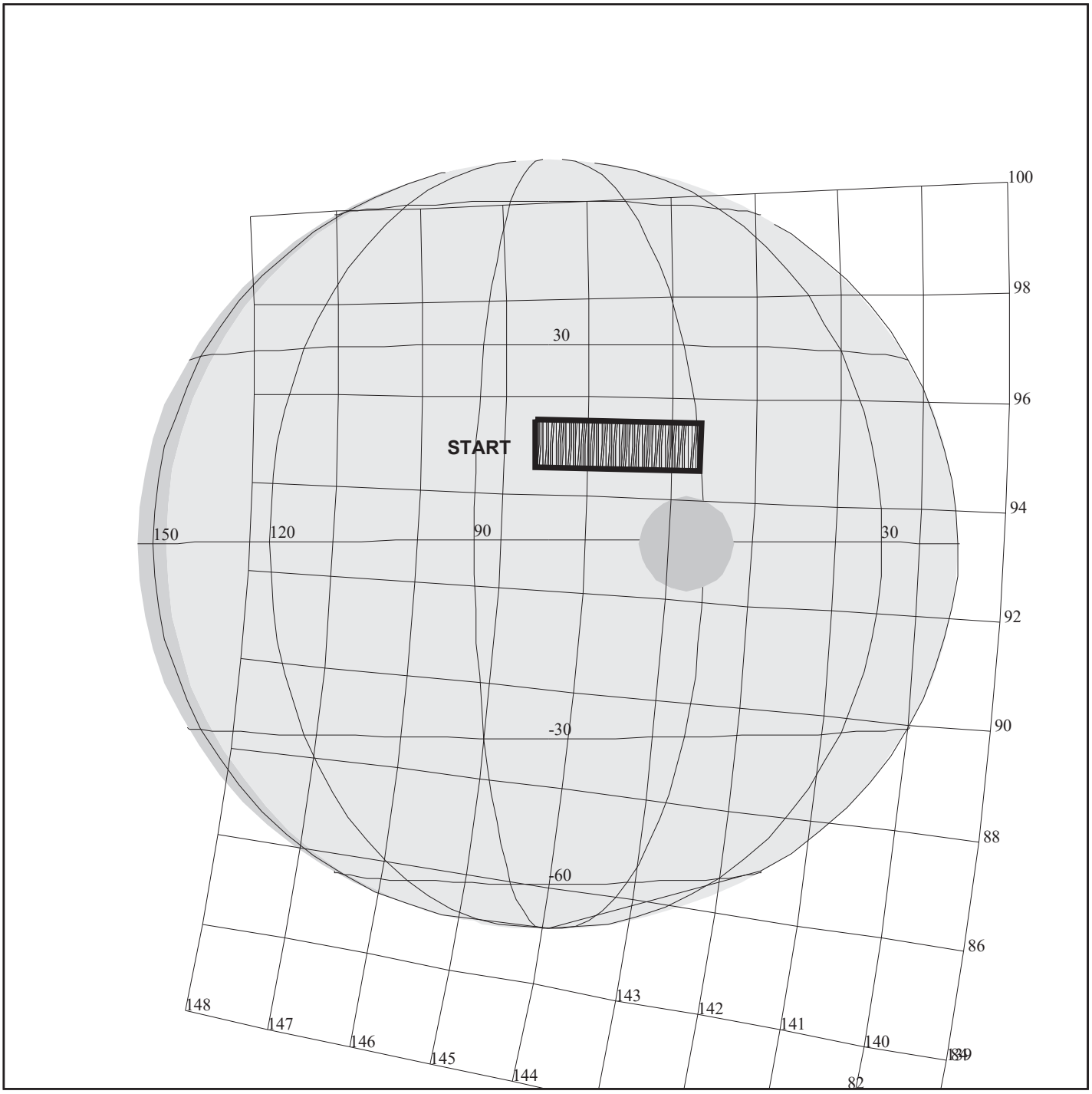
Data Returned

Design Detail

Long map, Nyquist-sampled observation of 1*1 (10*10 mrad) area centered on the North Tropical Zone campaign feature at 14 degrees north, 65 degrees west.
S/C distance about 0.77 million KM. NIMS IFOV = 385 KM.
Map covers 7700*7700 km. About 6 minutes of scanning accumulating 0.36255 MBTG and using 0.01209 tracks.
Four rims reserved for targetting.
This observation referenced to EPOCH JTB.
NOTE 2/17/97: To meet new downlink budget, playback time reduced to 320 seconds from 364 seconds.

Long Map (LM), Gain 2, Grating Start 0, LPU, G7JSB253A, G7JSB80A

Galileo Activity Plan Form 03/17/97 17:37:33 rev 6/95



165DP:TT= 0 TMC= 1 C= 26.50 XC= 0.00 BS= 0/9999 TC= 1(14 65)
A= 728 pD= 0 SR=17.450 RA50=280.36 DEC50=-23.34 cone=144.63 clock= 95.05
117DP:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/9999
1:#s= 1 Cs= -32.80 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 900 rD= 2

G7JNFEAP4102

TARGET G3.1 lisac: 5/ 6/1997 12:10: 0

FILE:P.G7JNFEAP4102

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS **F_R_O_Z_E_N___T_M_C**

PERIAPSIS: **THINNING:NIM 2**

START:JTB 97-093/22:40:38.400 +CDS 28:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750**

OBSERVATION:G7JNFEAP4102 **DESCRIP:JUP_FTR/PRTL_TRK_41_PHASE_02**

Jupiter Ftr and Prtl Trk 41 deg part 2 ACTIVITY ID: G7JNFEAP4102-
START TIME: 97-093/23:03:53.733

Activity ID: Orbit G7 Target J Inst N OAPEL FEAP41 SeqNo 02 -

Title	Jupiter Ftr and Prtl Trk 41 deg part 2	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team NIMS	Working Group AWG

Time System	CDS	Load ID	Calendar Date	04/03/97	Week 14
Start	JTB+CDS	00000023:00:0	97-093/23:03:53.733	JTB+000/00:23:15.333	
End	JTB+CDS	00000033:00:0	97-093/23:14:00.400	JTB+000/00:33:22.000	
Duration		00000010:00:0	000/00:10:06.667	000/00:10:06.667	

Top Label G7JNFEAP4102-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	168	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of 8 OAPELs constituting the North Tropical Zone feature track, centered at 14 degrees north, 65 degrees west. Also the second of 4 OAPELs constituting the partial feature track covering additional territory near (hopefully) the Brown Barge. For the primary feature this is the second observation obtained on a rotation with phase angle approximately 28 degrees. For the surrounding territory, this is the second observation at this phase angle. Jupiter imaged in 25 colors, using NIMS downlink wavelength table JFT25A. This observation acquired with feature near minimum airmass.
Original Times: Start CDS = 972:03 End CDS = 959:46 Duration = 12:48

Data Returned

Design Detail

Short map, Nyquist-sampled observation of a 3*1 (30*10 mrad) scan of the Northern Tropical Zone encompassing (hopefully) the Brown Barge feature.
S/C distance about 0.77 million KM, NIMS IFOV (NIMSEL) = 385 KM;
3*1 mosaic covers 23100*7700 KM. About 300 seconds of scanning, accumulating 0.2695 MBTG in 25 colors, and using 0.01008 tracks.
Four rims reserved for targetting.
This observation referenced to EPOCH JTB.
NOTE 2/17/97: To meet downlink budget, number of colors cut back to 4.

Short Map (SM), Gain 2, Grating Start 1, LPU, G7JFT68C, G7JFT04B

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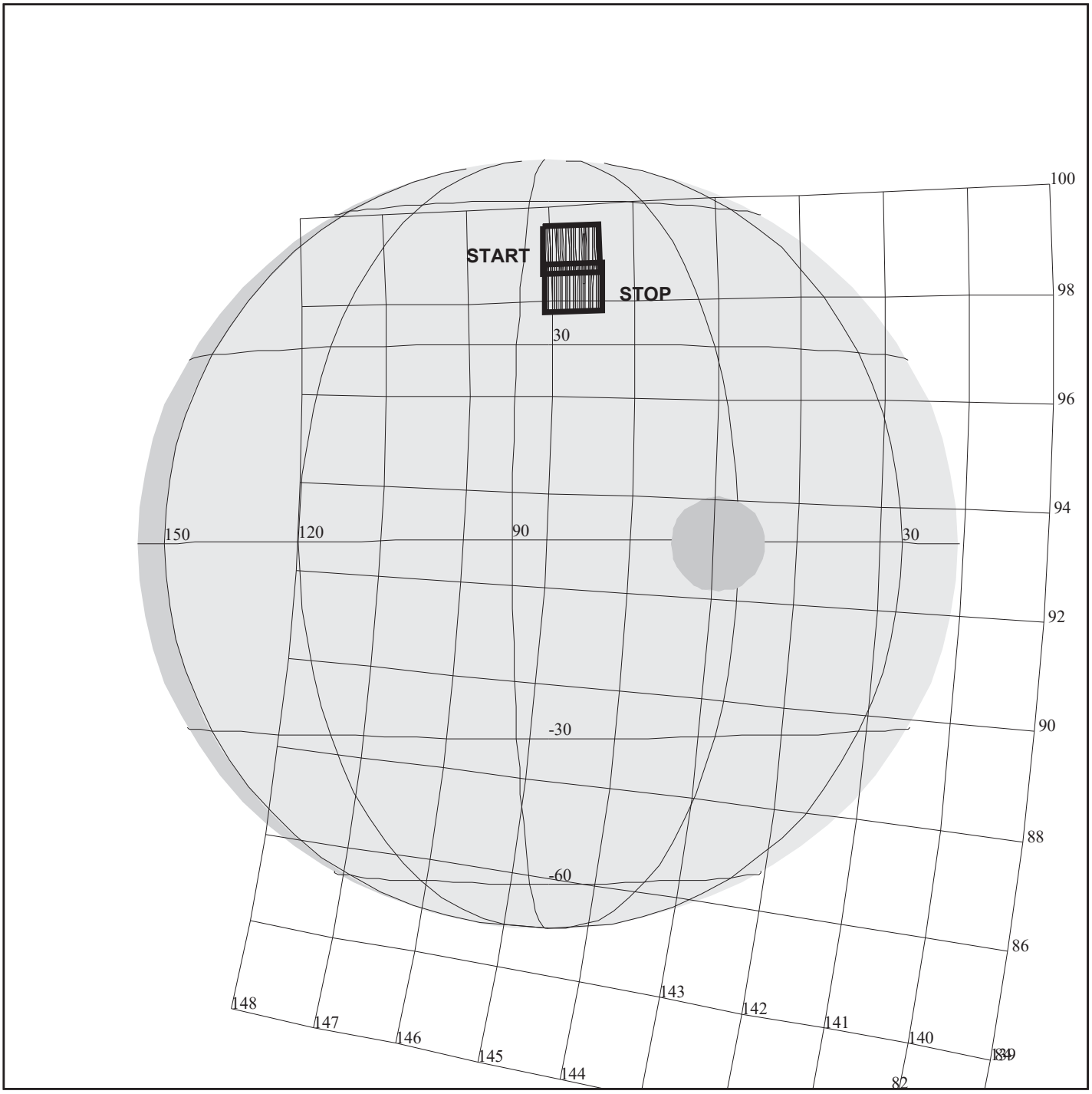

165DQ:TT= 0 TMC= 1 C= 6.00 XC= 3.00 BS= 0/1637 TC= 1(45 81)
A= 546 pD= 0 SR=17.450 RA50=280.63 DEC50=-20.98 cone=145.09 clock= 99.10
117DQ:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/1637
1:#s= 2 Cs= -10.80 XCs= 0.00 Cr= 11.20 XCr= -8.00 sD= 300 rD= 40

G7JNPFTB4101

TARGET G3.1 lisac: 5/ 6/1997 12:10: 0

FILE:P.G7JNPFTB4101

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS **F_R_O_Z_E_N___T_M_C**

PERIAPSIS: **THINNING:NIM 2**

START:JTB 97-093/22:40:38.400 +CDS 37:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750**

OBSERVATION:G7JNPFTB4101 **DESCRIP:JUP_PART_FT_B_41_DEG_01**

Jupiter Partial Ftr. Trk. B 41 deg prt 1 ACTIVITY ID: G7JNPFTB4101-
START TIME: 97-093/23:14:47.733

Activity ID: Orbit G7 Target J Inst N OAPEL PFTB41 SeqNo 01 -

Title	Jupiter Partial Ftr. Trk. B 41 deg prt 1	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS Working Group AWG

Time System	CDS	Load ID	Calendar Date	04/03/97	Week 14
Start	JTB+CDS	00000033:71:0	97-093/23:14:47.733	JTB+000/00:34:09.333	
End	JTB+CDS	00000040:76:0	97-093/23:21:55.733	JTB+000/00:41:17.333	
Duration		00000007:05:0	000/00:07:08.000	000/00:07:08.000	

Top Label G7JNPFTB4101-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	98	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of seven OAPELs constituting the partial feature track B of one of two Little Red Spots near 43 degrees north. This is the first observation obtained on a rotation with phase angle approximately 28 degrees.
Feature B imaged in 25 colors, using NIMS downlink wavelength table JFT25A.
This observation acquired with feature B near minimum air mass, assuming feature coordinates 43 degrees north latitude (planetographic) and 65 degrees west longitude (System III).
Note: 1/16/97: Little Red Spot (LRS) feature predicted to be near 65 degree according to NASA/IRTF observation.
NOTE 2/25/97: Recent IRTF observations now predict LRS at 81 degrees West lon Observation re-targetted accordingly.

Data Returned

Design Detail

Short map, Nyquist-sampled observation of 1*2 (10*20 mrad) area centered on 43 degree north latitude, 65 degrees west longitude. S/C distance about 0.79 million KM, NIMS IFOV (NIMSEL) = 395 KM; 1*2 mosaic covers 7900*14220 K with 20 percent overlap. About 220 seconds of scanning, including 20 seconds for a reposition slew accumulating 0.19762 MBTG in 25 colors, and using 0.00739 tracks. Three rims reserved for targetting.
This observation is referenced to EPOCH JTB.

Short Map (SM), Gain 2, Grating Start 1, LPU, G7JFT68C, G7JFT25A

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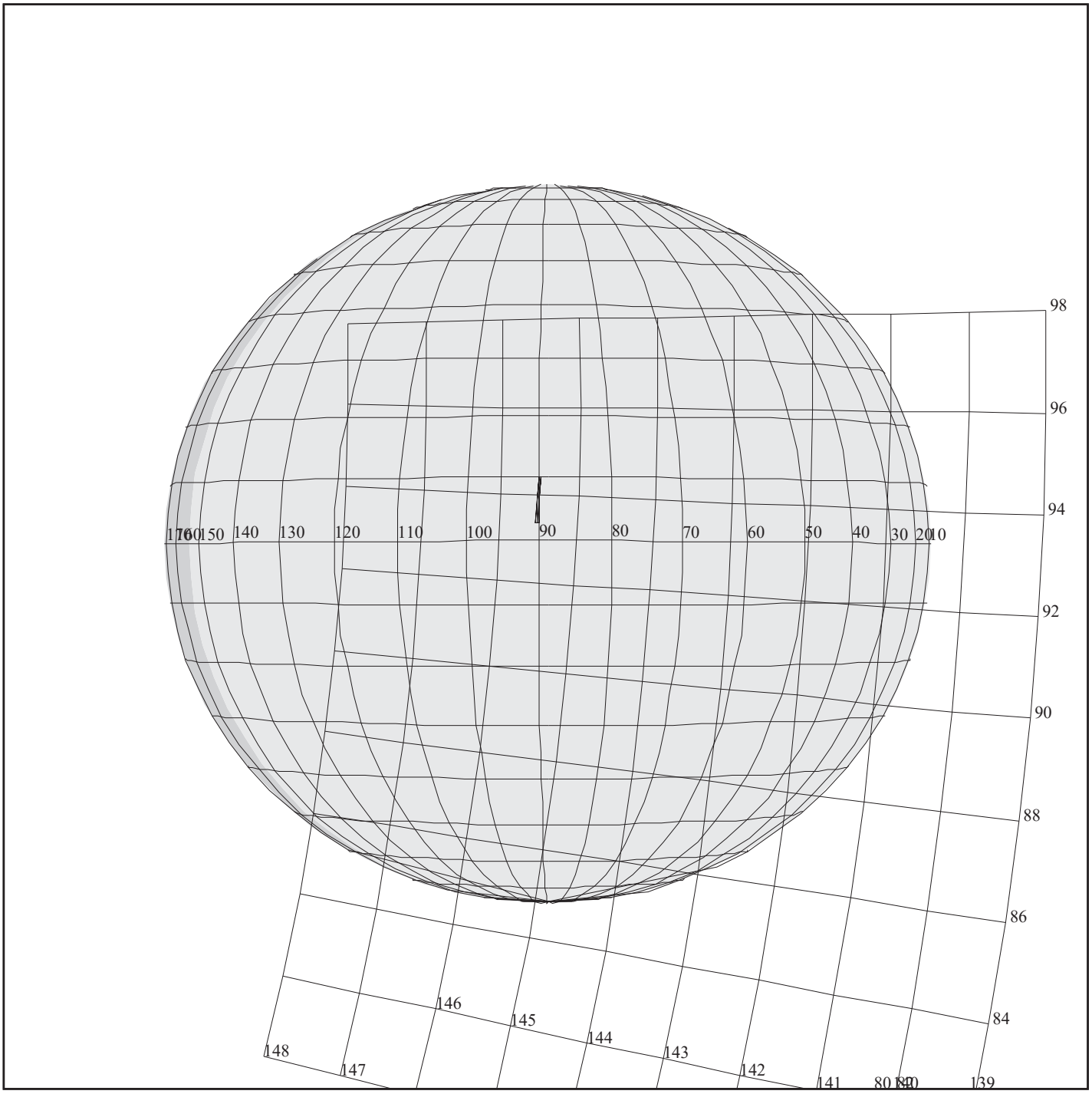

165FW:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/2729 TC= 1(6.5 90)
A= 364 pD= 0 SR=17.450 RA50=281.41 DEC50=-23.89 cone=145.51 clock= 93.89

G7JNRTHOTS02

TARGET G3.1 lisac: 5/ 6/1997 12:10: 0

FILE:P.G7JNRTHOTS02

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS **F_R_O_Z_E_N___T_M_C**

PERIAPSIS: **THINNING:NIM 2**

START:JTB 97-093/22:40:38.400 +CDS 43:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.700**

OBSERVATION:G7JNRTHOTS02 **DESCRIP:NIMS_JUPITER_HOTMAP_OBSERVATION**

Jupiter Real-Time Observation

ACTIVITY ID: G7JNRTHOTS02-
START TIME: 97-093/23:21:56.400

Activity ID: Orbit G7 Target J Inst N OAPEL RTHOTS SeqNo 02 -

Title	Jupiter Real-Time Observation	Instrument	NIMS
Requestor	NIMS-AWG/K. Baines	Team NIMS	Working Group AWG

Time System	CDS	Load ID	Calendar Date 04/03/97	Week 14
Start	JTB+CDS	00000040:77:0	97-093/23:21:56.400	JTB+000/00:41:18.000
End	JTB+CDS	00000047:00:0	97-093/23:28:09.733	JTB+000/00:47:31.333
Duration		00000006:14:0	000/00:06:13.333	000/00:06:13.333

Top Label G7JNRTHOTS02-
Bottom Label

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

Observation Objective

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

Data Returned

Design Detail

Long map real-time 1-rim spectra at 4 mirror positions centered on the Hotspot region.
NIMSel coordinates: 210 degrees West longitude, 6.5 degrees North latitude.
Acquired near the cental meridian at approximately 42 degrees phase angle.
Spatial resolution: 500 km/pixel.
CDS 02:70:0 used for targetting.

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

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NIMS Software Reload

ACTIVITY ID: G7NNNIMSLD05-
START TIME: 97-094/00:10:37.733

Activity ID: Orbit G7 Target N Inst N OAPEL NIMSLD SeqNo 05 -

Title	NIMS Software Reload		Instrument NIMS
Requestor	NIMS-SWG/A. Ocampo	Team NIMS	Working Group SWG

Time System	CDS	Load ID	Calendar Date 04/04/97	Week 14
Start	JTB+CDS	00000089:00:0	97-094/00:10:37.733	JTB+000/01:29:59.333
End	JTB+CDS	00000099:00:0	97-094/00:20:44.400	JTB+000/01:40:06.000
Duration		00000010:00:0	000/00:10:06.667	000/00:10:06.667

Top Label G7NNNIMSLD05-
Bottom Label

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

Observation Objective

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

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

Design Detail

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

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

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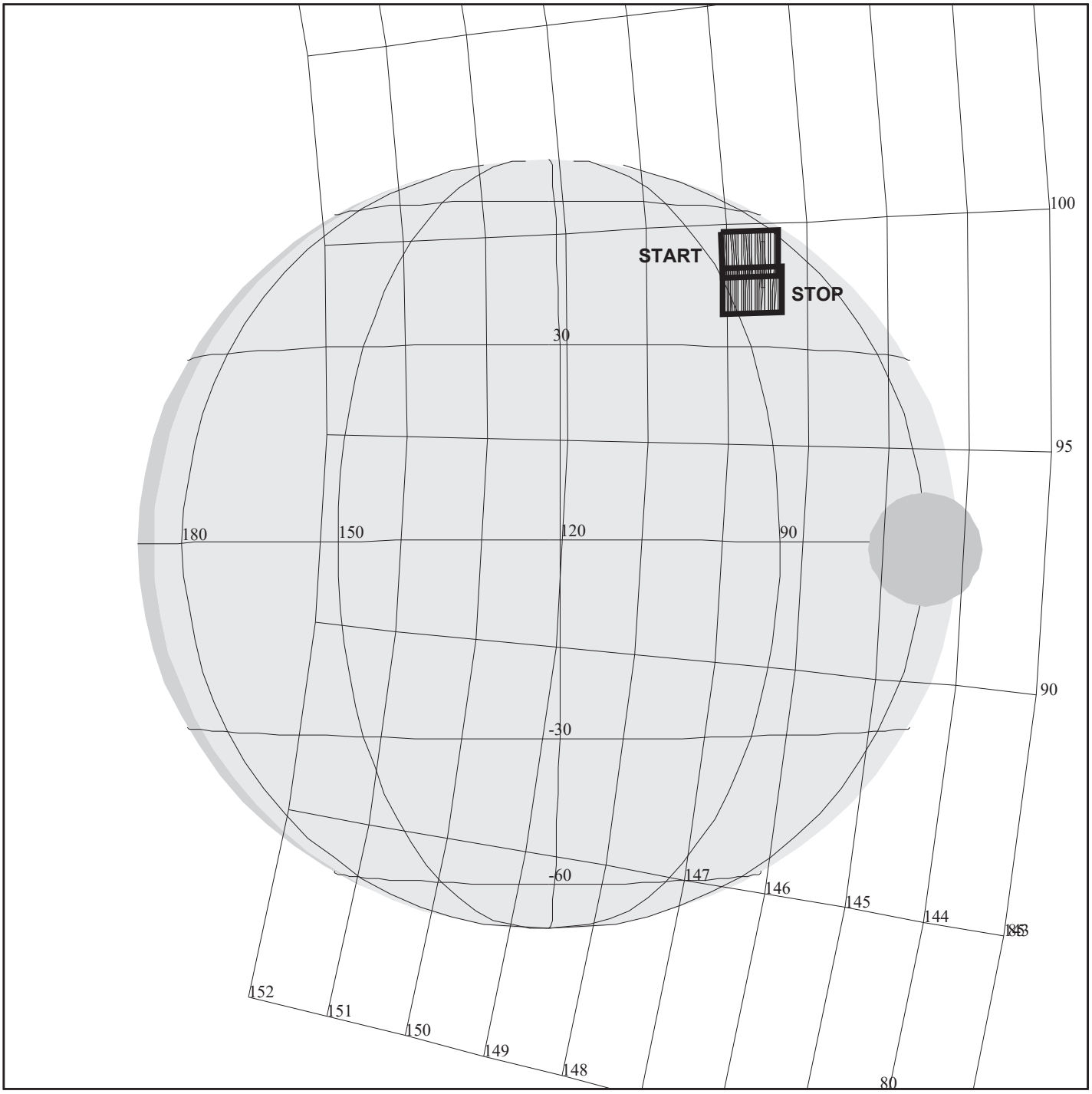

165DR:TT= 0 TMC= 1 C= 6.50 XC= 3.00 BS= 0/3649 TC= 1(45 81)
A= 546 pD= 0 SR=17.450 RA50=282.73 DEC50=-20.72 cone=147.07 clock= 99.33
117DR:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/3649
1:#s= 2 Cs= -10.80 XCs= 0.00 Cr= 11.50 XCr= -8.00 sD= 300 rD= 40

G7JNPFTB4102

TARGET G3.1 lisac: 5/ 6/1997 12:10: 0

FILE:P.G7JNPFTB4102

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS **F_R_O_Z_E_N___T_M_C**

PERIAPSIS: **THINNING:NIM 2**

START:JTB 97-093/22:40:38.400 +CDS 103:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750**

OBSERVATION:G7JNPFTB4102 **DESCRIP:JUP_PART_FT_B_41_DEG_02**

Jupiter Partial Ftr Trk B 41 deg prt 2 ACTIVITY ID: G7JNPFTB4102-
START TIME: 97-094/00:20:44.400

Activity ID: Orbit G7 Target J Inst N OAPEL PFTB41 SeqNo 02 -

Title	Jupiter Partial Ftr Trk B 41 deg prt 2	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team NIMS	Working Group AWG

Time System CDS Load ID Calendar Date 04/04/97 Week 14

Start	JTB+CDS 00000099:00:0	97-094/00:20:44.400	JTB+000/01:40:06.000
End	JTB+CDS 00000108:00:0	97-094/00:29:50.400	JTB+000/01:49:12.000
Duration	00000009:00:0	000/00:09:06.000	000/00:09:06.000

Top Label G7JNPFTB4102-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	98	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of seven OAPELs constituting the partial feature track B of one of two Little Red Spots near 43 degrees north. This is the second observation obtained on a rotation with phase angle approximately 28 degrees.
Feature imaged in 25 colors, using NIMS downlink wavelength table JFT25A.
This observation acquired with feature B near 57 degrees relative longitude, assuming feature coordinates 43 degrees north latitude and 65 degrees West longitude (System III).
NOTE 2/17/97: Colors cut back to 4 to meet downlink budget.

NOTE 2/25/97: Recent IRTF observations now predict LRS at 81 degrees West longitude. Observations re-targetted accordingly.

Data Returned

Design Detail

Short map, Nyquist-sampled observation of 1*2 (10*20 mrad) area centered on 43 degree north latitude, 65 degrees west longitude. S/C distance about 0.78 million KM, NIMS IFOV (NIMSEL) = 390 KM; 1*2 mosaic covers 7800*14040 K with 20 percent overlap. About 220 seconds of scanning, including 20 seconds for a reposition slew accumulating 0.19762 MBTG in 25 colors, and using 0.0073 tracks. Three rims reserved for targetting.
This observation is tied to EPOCH JTB.
NOTE 2/17/97: Colors cut back to meet downlink budget.

Short Map (SM), Gain 2, Grating Start 1, LPU, G7JFT68C, G7JFT04B

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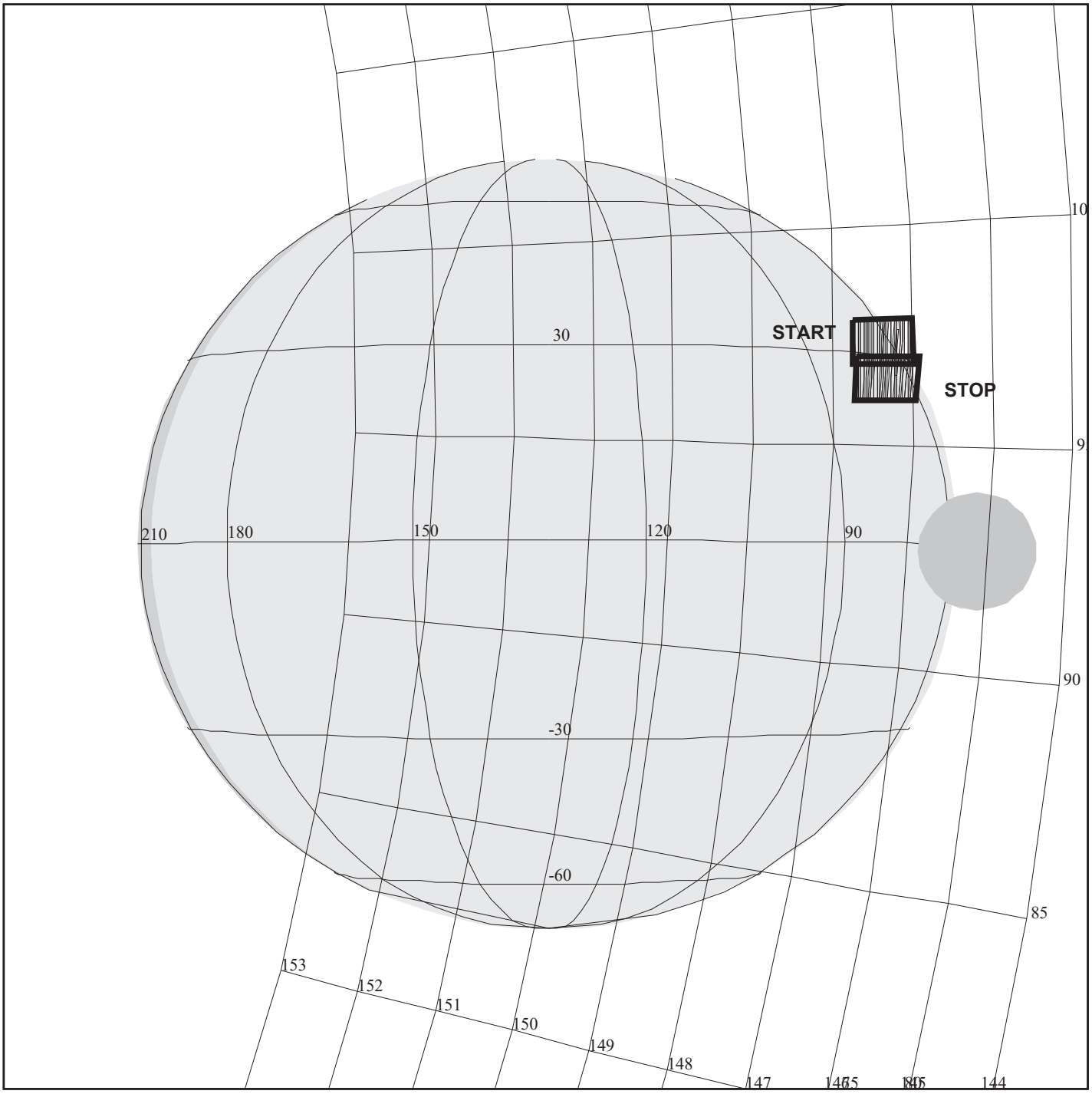

165DT:TT= 0 TMC= 1 C= 9.00 XC= 3.00 BS= 0/7289 TC= 1(30 65)
A= 546 pD= 0 SR=17.450 RA50=282.49 DEC50=-21.82 cone=146.75 clock= 97.37
117DT:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/7289
1:#s= 2 Cs= -10.80 XCs= 0.00 Cr= 11.40 XCr= -8.00 sD= 300 rD= 40

G7JNPFTD4101

TARGET G3.1 lisac: 5/ 6/1997 12:10: 0

FILE:P.G7JNPFTD4101

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS **F_R_O_Z_E_N___T_M_C**

PERIAPSIS: **THINNING:NIM 2**

START:JTB 97-093/22:40:38.400 +CDS 123:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750**

OBSERVATION:G7JNPFTD4101 **DESCRIP:JUP_PART_FT_B_41_DEG_03**

Jupiter Partial Ftr Trk D 41 deg prt 1 ACTIVITY ID: G7JNPFTD4101-
START TIME: 97-094/00:40:57.733

Activity ID: Orbit G7 Target J Inst N OAPEL PFTD41 SeqNo 01 -

Title	Jupiter Partial Ftr Trk D 41 deg prt 1	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team NIMS	Working Group AWG

Time System CDS Load ID Calendar Date 04/04/97 Week 14

Start	JTB+CDS	00000119:00:0	97-094/00:40:57.733	JTB+000/02:00:19.333
End	JTB+CDS	00000128:00:0	97-094/00:50:03.733	JTB+000/02:09:25.333
Duration		00000009:00:0	000/00:09:06.000	000/00:09:06.000

Top Label G7JNPFTD4101-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	98	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

The only OAPEL remaining constituting the partial feature track D of a mid-latitude area near 30 degrees north. This is the first and only observation obtained on a rotation with phase angle approximately 28 degrees. Feature D imaged in 25 colors, using NIMS downlink wavelength table JFT25A. This observation acquired with feature D near 75 degrees relative longitude, assuming feature coordinates 30 degrees north latitude and 65 degrees west longitude (System III).

Data Returned

Design Detail

Short map, Nyquist-sampled observation of 1*2 (10*20 mrad) area centered on 28 degree north latitude, 65 degrees west longitude. S/C distance about 0.89 million KM, NIMS IFOV (NIMSEL) = 445 KM; 1*2 mosaic covers 8900*16020 K with 20 percent overlap. About 220 seconds of scanning, including 20 seconds for a reposition slew accumulating 0.19762 MBTG in 19 colors, and using 0.00739 tracks. Three rims reserved for targetting.
This observation is tie to epoch JTB.

Short Map (SM), Gain 2, Grating Start 1, LPU, G7JFT68C, G7JFT25A

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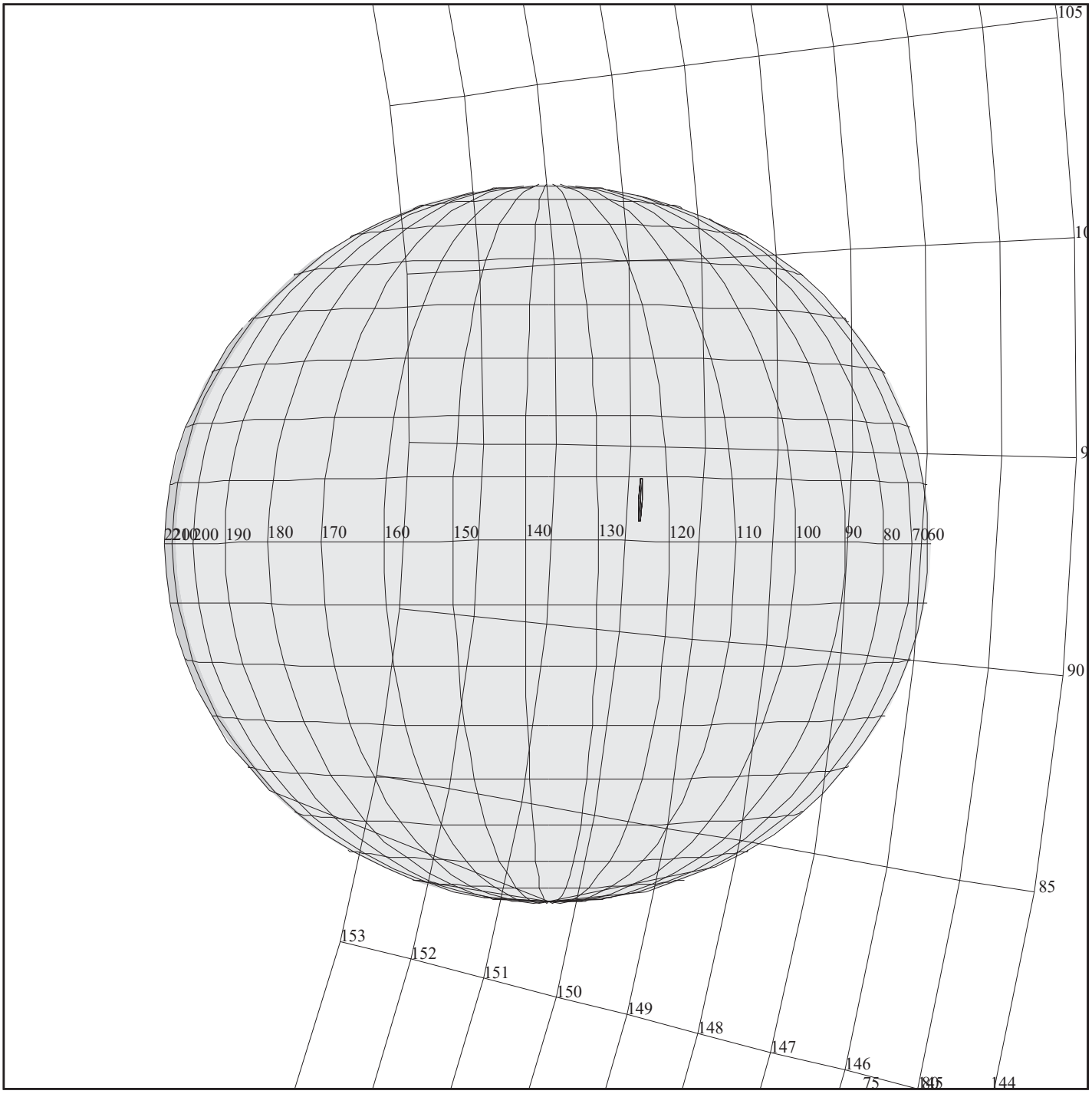


165FY:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/8745 TC= 1(6.5 124)
A= 364 pD= 0 SR=17.450 RA50=286.12 DEC50=-23.35 cone=149.85 clock= 93.58

G7JNRTHOTS03

TARGET G3.1 lisac: 5/ 6/1997 12:10: 0

FILE:P.G7JNRTHOTS03

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS **F_R_O_Z_E_N___T_M_C**

PERIAPSIS: **THINNING:NIM 2**

START:JTB 97-093/22:40:38.400 +CDS 131:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.700**

OBSERVATION:G7JNRTHOTS03 **DESCRIP:NIMS_JUPITER_HOTMAP_OBSERVATION**

Jupiter Real-Time Observation

ACTIVITY ID: G7JNRTHOTS03-
START TIME: 97-094/00:50:51.066

Activity ID: Orbit G7 Target J Inst N OAPEL RTHOTS SeqNo 03 -

Title	Jupiter Real-Time Observation	Instrument	NIMS
Requestor	NIMS-AWG/K. Baines	Team NIMS	Working Group AWG

Time System	CDS	Load ID	Calendar Date	04/04/97	Week 14
Start	JTB+CDS	00000128:71:0	97-094/00:50:51.066	JTB+000/02:10:12.666	
End	JTB+CDS	00000134:00:0	97-094/00:56:07.733	JTB+000/02:15:29.333	
Duration		00000005:20:0	000/00:05:16.667	000/00:05:16.667	

Top Label G7JNRTHOTS03-
Bottom Label

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

Observation Objective

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

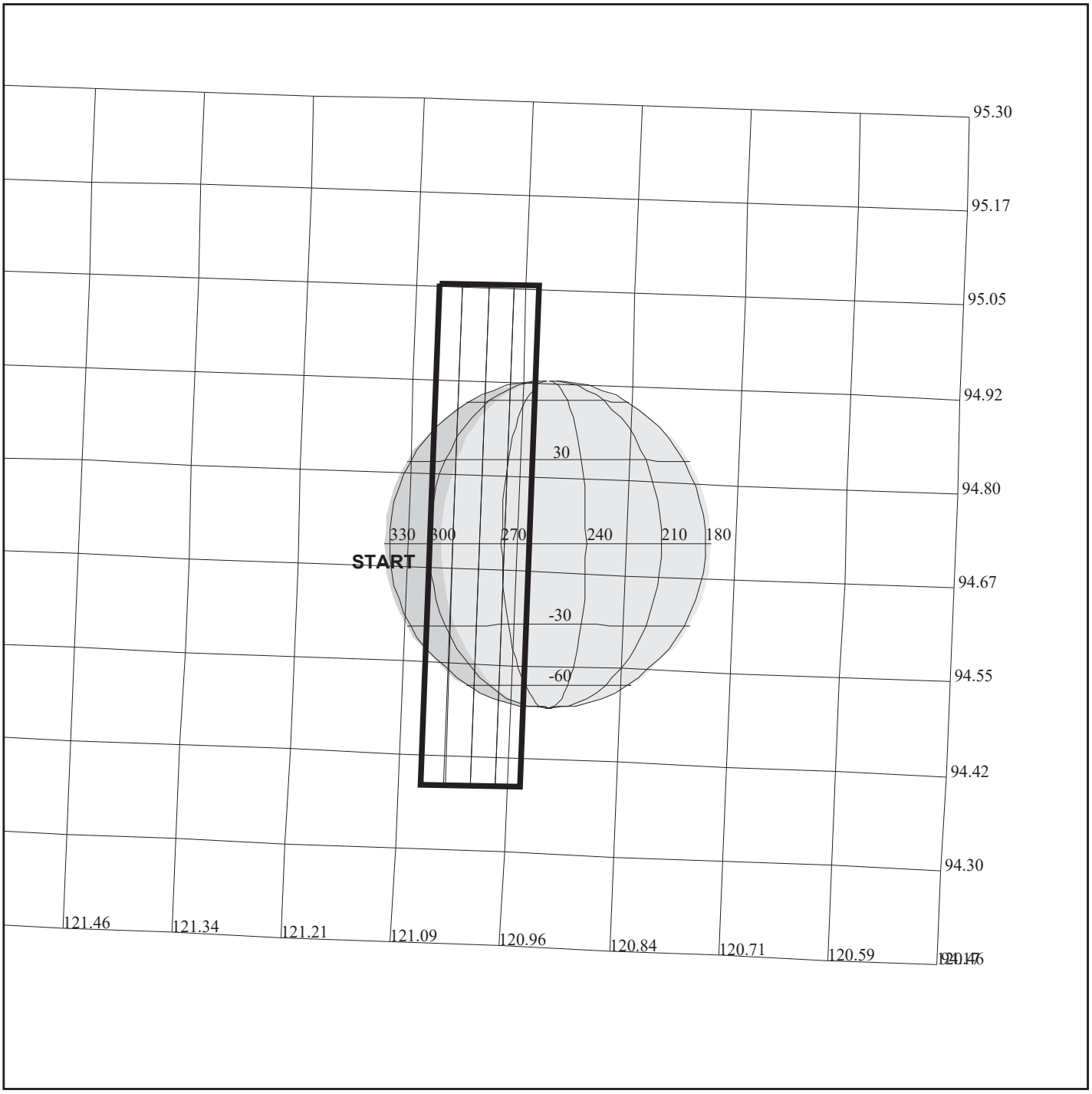
Data Returned

Design Detail

Long map real-time 1-rim spectra at 4 mirror positions centered on the Hotspot region.
NIMSel coordinates: 210 degrees West longitude, 6.5 degrees North latitude.
Acquired near the cental meridian at approximately 42 degrees phase angle.
Spatial resolution: 500 km/pixel.
CDS 02:70:0 used for targetting.

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

Galileo Activity Plan Form 03/17/97 17:37:33 rev 6/95



165EA:TT= 0 TMC= 1 C= 3.40 XC= 0.00 BS= 0/0565 TC= 3
A= 728 pD= 182 SR=17.450 RA50=254.58 DEC50=-24.26 cone=121.06 clock= 94.72
117EA:#SB= 1 OR= 0.020 RR=12.000 BM=F RC= 1 BS= 0/0565
1:#s= 1 Cs= -1.15 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 182 rD= 2

G7INVOLCAN05

TARGET G3.1 lisac: 5/ 6/1997 12:10: 0

FILE:P.G7INVOLCAN05

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS **F_R_O_Z_E_N___T_M_C**

PERIAPSIS: **THINNING:NIM 2**

START:IEE 97-093/21:11:39.733 +CDS 229:00:0 **BODY PLOT TIME:TARGET-TIME D= 182 S= 0.300**

OBSERVATION:G7INVOLCAN05 **DESCRIP:Io Volcan 05**

MONITORING OF SELECTED VOLCANIC REGIONS ACTIVITY ID: G7INVOLCAN05-
START TIME: 97-094/00:58:09.066

Activity ID: Orbit G7 Target I Inst N OAPEL VOLCAN SeqNo 05 -

Title	MONITORING OF SELECTED VOLCANIC REGIONS	Instrument	NIMS
Requestor	NIMS-SWG/R. LOPES	Team	NIMS Working Group SWG

Time System	CDS	Load ID	Calendar Date	04/04/97	Week 14
Start	IEE+CDS 00000224:00:0	97-094/00:58:09.066		IEE+000/03:46:29.333	
End	IEE+CDS 00000231:00:0	97-094/01:05:13.733		IEE+000/03:53:34.000	
Duration	00000007:00:0	000/00:07:04.667		000/00:07:04.667	

Top Label	G7INVOLCAN05-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	98	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

To monitor time variations in activity of selected regions
(Loki, Pelee, Kanehekili) using selected wavelengths.

Data Returned

Design Detail

Long Map, 12 wavelengths, 30 secs duration (or less).
Orbit 7 is high priority for Loki region,
will be seen at the best nightside resolution (278 km).
~ 5 observations per orbit.
Tracks: 0.005 per observation.

Locations of features:
- Kanehekili (-10 d. lat. +40 d. long.)
- Pelee (-20 d. lat. -255 d. long.)
- Loki (+12 d. lat. 310 d. long.)

Long Map (LM), Gain 4, Grating Start 0, MPW, G7ILM42, G7ILM216B

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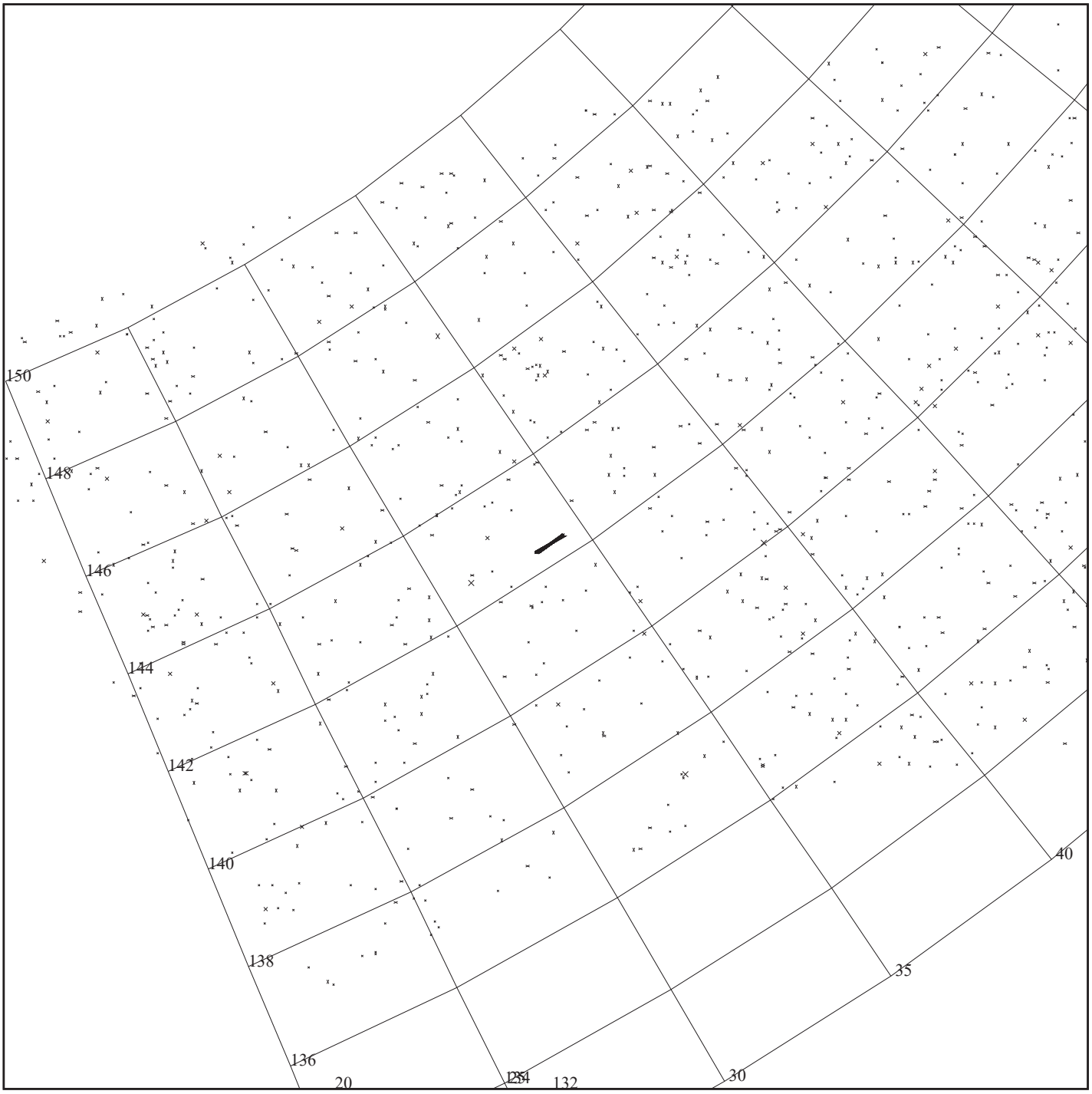

165DS:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/2749 TC=15(-51.92 307.48)
A= 728 pD= 0 SR=17.450 RA50=307.48 DEC50=-51.92 cone=142.42 clock= 33.78

G7HNDARK__02

TARGET G3.1 lisac: 5/ 6/1997 12:10: 0

FILE:P.G7HNDARK__02

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS **F_R_O_Z_E_N___T_M_C**

PERIAPSIS: **THINNING:NIM 1**

START:IEE 97-093/21:11:39.733 +CDS 241:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.500**

OBSERVATION:G7HNDARK__02 **DESCRIP:NIMS Dark Sky 02**

Dark Observation

ACTIVITY ID: G7HNDARK__02-
START TIME: 97-094/01:10:17.066

Activity ID: Orbit G7 Target H Inst N OAPEL DARK__ SeqNo 02 -

Title	Dark Observation			Instrument	NIMS
Requestor	NIMS-SWG/J.HUI	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	04/04/97 Week 14
Start	IEE+CDS	00000236:00:0	97-094/01:10:17.066		IEE+000/03:58:37.333
End	IEE+CDS	00000242:71:0	97-094/01:17:08.399		IEE+000/04:05:28.666
Duration		00000006:71:0	000/00:06:51.333		000/00:06:51.333

Top Label G7HNDARK__02-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	128	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Obtain 1 rim of dark sky data per day for each day of NIMS observations within the G7 orbit for purposes of calibration.

Data Returned

Design Detail

Sit and stare design, target to dark-sky and remain there for 1 rim. Observation to be done in short-map mode, gain = 2, record mode = LPU, number of wavelengths = 51.

Long Map (LM), Gain 2, Grating Start 0, LPU, G7DRK34, G7DRK32

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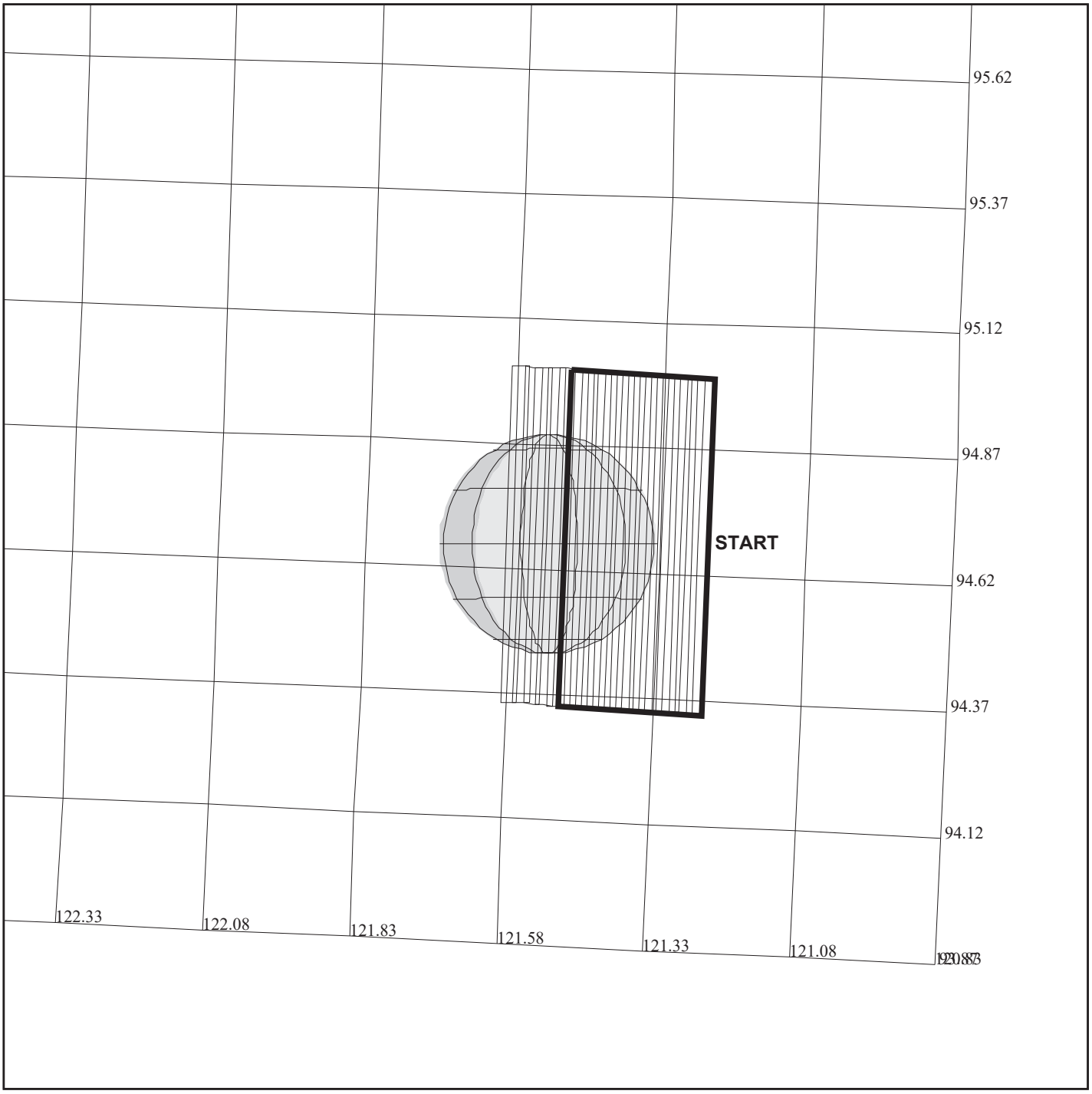

165EB:TT= 0 TMC= 1 C= -3.50 XC= 0.00 BS= 0/3841 TC= 3
A= 728 pD= 0 SR=17.450 RA50=254.79 DEC50=-24.31 cone=121.25 clock= 94.68
117EB:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/3841
1:#s= 1 Cs= 8.80 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 884 rD= 2

G7INCHEMIS04

TARGET G3.1 lisac: 5/ 6/1997 12:10: 0

FILE:P.G7INCHEMIS04

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS **F_R_O_Z_E_N___T_M_C**

PERIAPSIS: **THINNING:NIM 2**

START:IEE 97-093/21:11:39.733 +CDS 247:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.200**

OBSERVATION:G7INCHEMIS04 **DESCRIP:Io Dayside Monitoring 04**

MONITORING OF IO'S DAYSIDE

ACTIVITY ID: G7INCHEMIS04-
START TIME: 97-094/01:17:15.066

Activity ID: Orbit G7 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	Calendar Date	04/04/97	Week 14
Start	IEE+CDS	00000242:81:0	97-094/01:17:15.066	IEE+000/04:05:35.333	
End	IEE+CDS	00000252:00:0	97-094/01:26:27.733	IEE+000/04:14:48.000	
Duration		00000009:10:0	000/00:09:12.667	000/00:09:12.667	

Top Label G7INCHEMIS04-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	162	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Dayside monitoring covering wide range of longitudes to look for chemical changes (e.g. SO2 distribution) at resolutions better than ~800 km/nimsel (most observations will have resolutions between 120 and 400 km/nimsel).

Data Returned

Design Detail

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

Long map, 102 wavelengths.
Tracks used per orbit: 0.05 to 0.42.
Bits To Ground per orbit: 0.3 to 2.2 Mbits.

Long Map (LM), Gain 2, Grating Start 0, LPU, G7ILM244B, G7ILM108

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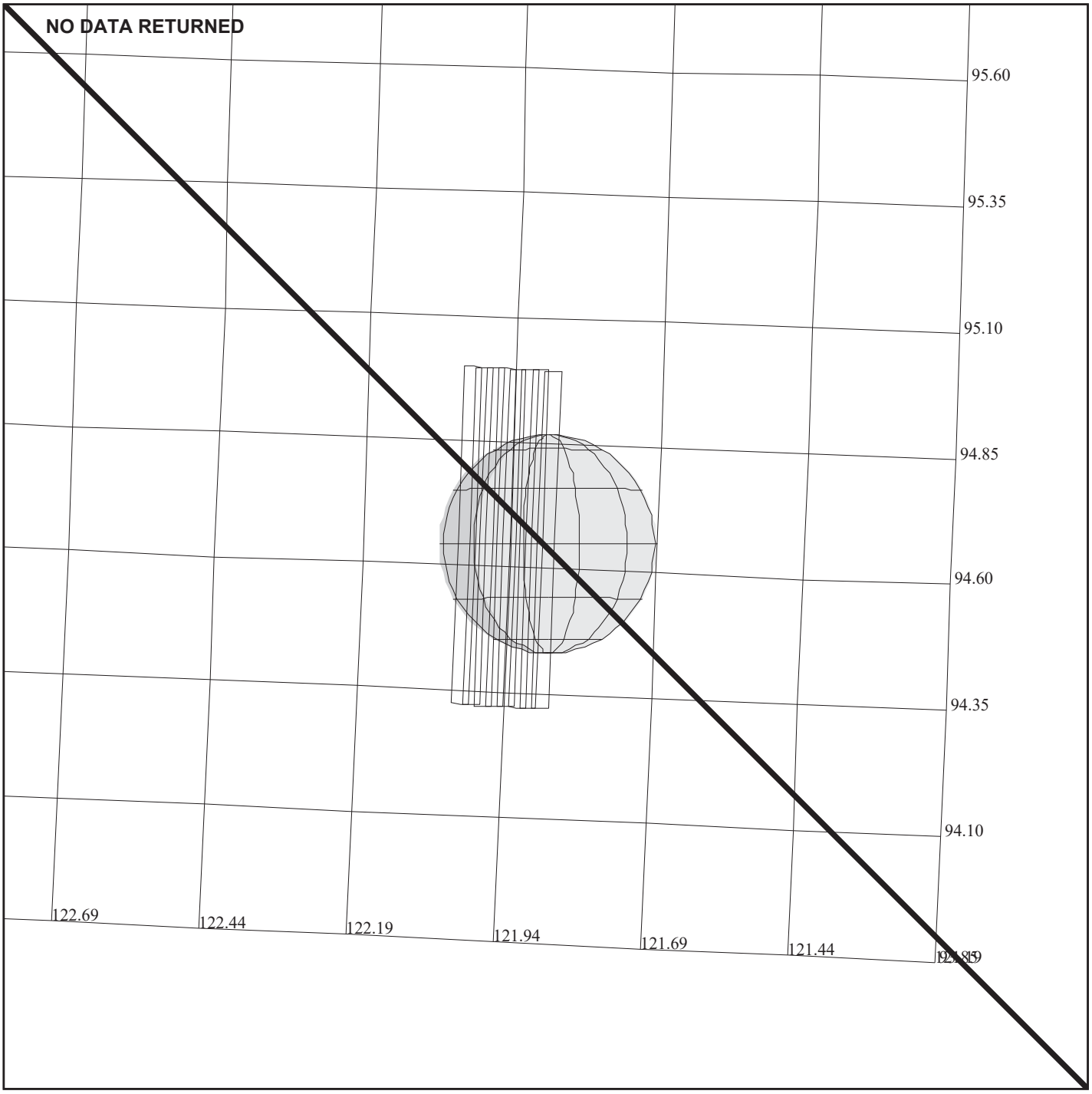

165EC:TT= 0 TMC= 1 C= 1.10 XC= 0.00 BS= 0/5661 TC= 3
A= 728 pD= 0 SR=17.450 RA50=255.47 DEC50=-24.36 cone=121.87 clock= 94.66
117EC:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/5661
1:#s= 1 Cs= 3.90 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 394 rD= 2

G7INTHRMAL05

TARGET G3.1 lisac: 5/ 6/1997 12:10: 0

FILE:P.G7INTHRMAL05

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS **F_R_O_Z_E_N___T_M_C**

PERIAPSIS: **THINNING:NIM 2**

START:IEE 97-093/21:11:39.733 +CDS 257:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.200**

OBSERVATION:G7INTHRMAL05 **DESCRIP:Io Nightside Monitoring 05**

MONITORING OF IO'S NIGHTSIDE — ACTIVITY ID: G7INTHRMAL05-
START TIME: 97-094/01:27:21.733

Activity ID: Orbit G7 Target I Inst N OAPEL THRMAL SeqNo 05 -

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

Time System	CDS	Load ID		Calendar Date	04/04/97 Week 14
Start	IEE+CDS	00000252:81:0	97-094/01:27:21.733		IEE+000/04:15:42.000
End	IEE+CDS	00000260:00:0	97-094/01:34:33.066		IEE+000/04:22:53.333
Duration		00000007:10:0	000/00:07:11.333		000/00:07:11.333

Top Label	G7INTHRMAL05-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	149	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Thermal monitoring of Io's nightside covering as wide a range of longitudes as possible with resolutions better than ~800 km/nimsel. Objective is to search for and map hot spots, thermal anomalies and outbursts on the surface. Observations will also include the limb to search for auroral effects.

No Data Returned

Design Detail

Partial or full disk mosaics within C/A + or - 32 hours in all orbits. High priority orbits are G1, C3, and C10 because these have the highest longitudinal coverage and orbits G7 and G8 because these have the best nighttime resolution for LOKI.

Instrument mode: Long Map,
Number of Wavelengths: 102,
Tracks used per orbit: 0.01 to 0.1,
Bits To Ground used per orbit: 0.01 to 0.5 Mbits.

Long Map (LM), Gain 4, Grating Start 0, LPU, G7ILMDR244B, G7ILMDK102B

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NIMS Software Reload

ACTIVITY ID: G7NNNIMSLD06-
START TIME: 97-094/01:44:39.733

Activity ID: Orbit G7 Target N Inst N OAPEL NIMSLD SeqNo 06 -

Title	NIMS Software Reload			Instrument	NIMS
Requestor	NIMS-SWG/R.	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	Calendar Date	04/04/97	Week 14
Start	EEE-CDS	00000251:00:0	97-094/01:44:39.733	EEE-000/04:13:47.333	
End	EEE-CDS	00000241:00:0	97-094/01:54:46.400	EEE-000/04:03:40.666	
Duration		00000010:00:0	000/00:10:06.667	000/00:10:06.667	

Top Label G7NNNIMSLD06-
Bottom Label

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

Observation Objective

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

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

Design Detail

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

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

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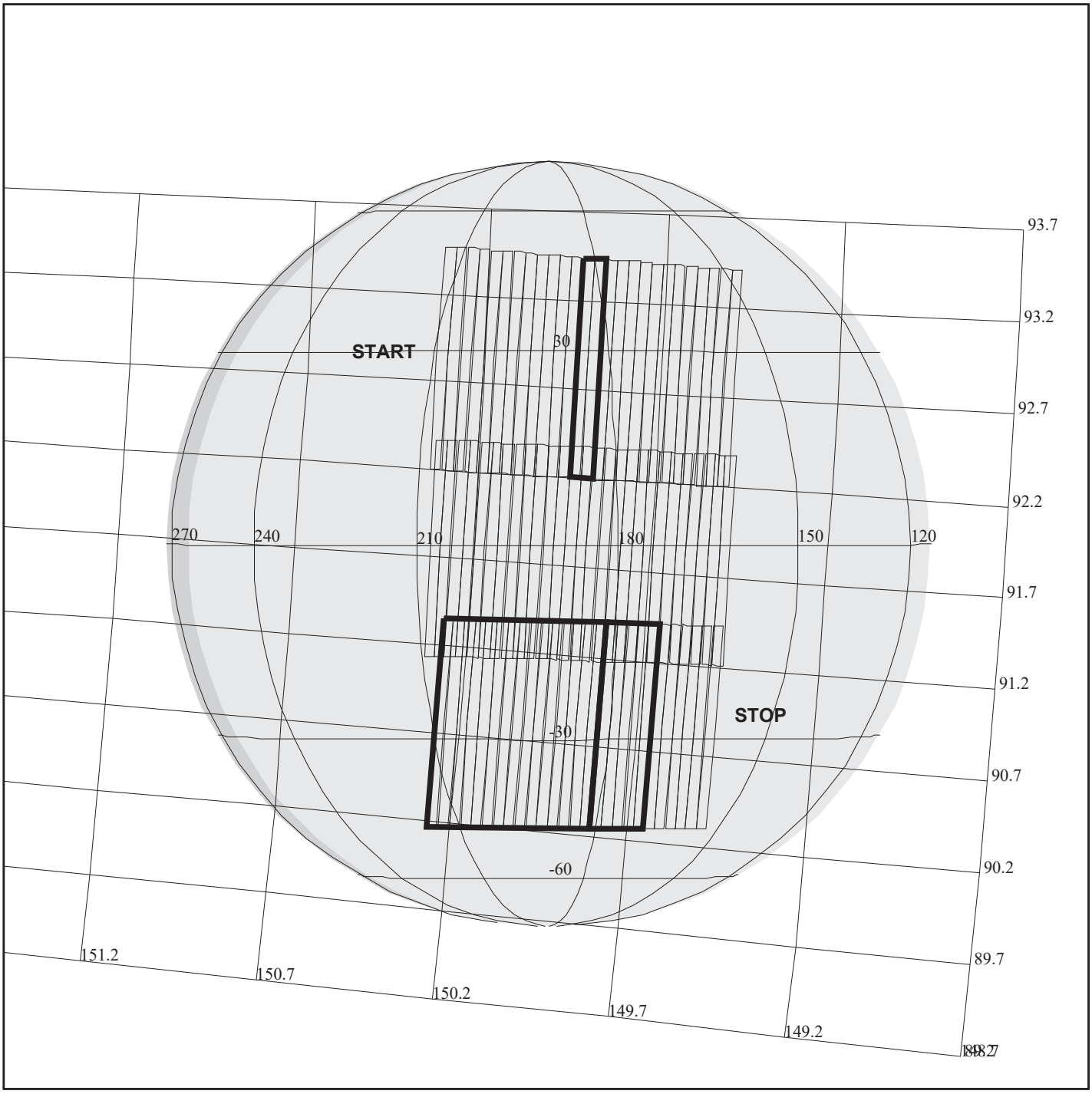

165DX:TT= 0 TMC= 1 C= 5.00 XC= 8.00 BS= 0/0757 TC= 3
A= 728 pD= 4098 SR=17.450 RA50=285.00 DEC50=-23.84 cone=148.76 clock= 93.00
117DX:#SB= 1 OR= 0.030 RR= 6.000 BM=F RC= 1 BS= 0/0757
1:#s= 3 Cs= -13.47 XCs= 0.00 Cr= 13.40 XCr= -8.50 sD= 1352 rD= 20

G7ENFLEXUS01

TARGET G3.1 lisac: 5/ 6/1997 12:10: 0

FILE:P.G7ENFLEXUS01

TARGET BODY : EUROPA

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS **F_R_O_Z_E_N___T_M_C**

PERIAPSIS: **THINNING:NIM 2**

START:EEE 97-094/05:58:27.066 -CDS 236:00:0 **BODY PLOT TIME:END-TIME D= 4098 S= 0.700**

OBSERVATION:G7ENFLEXUS01 **DESCRIP:EUROPA GLOBAL MOSAIC CAMPAIGN**

Europa Global Mosaic Campaign

ACTIVITY ID: G7ENFLEXUS01-
START TIME: 97-094/01:55:40.400

Activity ID: Orbit G7 Target E Inst N OAPEL FLEXUS SeqNo 01 -

Title	Europa Global Mosaic Campaign			Instrument	NIMS
Requestor	NIMS-SWG/A. OCAMPO	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	Calendar Date	04/04/97	Week 14
Start	EEE-CDS	00000240:10:0	97-094/01:55:40.400	EEE-000/04:02:46.666	
End	EEE-CDS	00000213:00:0	97-094/02:23:05.066	EEE-000/03:35:22.000	
Duration		00000027:10:0	000/00:27:24.666	000/00:27:24.666	

Top Label G7ENFLEXUS01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	122	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Part of Global Mosaic Campaign of Europa at a resolution of approximately 80 km/NIMSel. This spectral map of Europa will cover 120-210 degrees west longitude. To search for mineralogical differences and their relationships to the Linea terrain. The Mosaic will be centered around the Flexus Linea region.

Data Returned

Design Detail

Distance: 160,000 KM	Mode: Long Map Phase: 28 deg	Slew Rate: 60 MR/S
Gain: 2	Cone: 142 deg	% Overlap: 28
Long Span: 120-210 deg	Wavelengths: 204	NUM Strips: 3
LAT Span: N/S 90 deg	Booms: Not in F.O.V.	NIMS F.O.V./STRIP: 40%
Coverage: 70	ASD: 0.567	DMS Mode: 7.68
Sub S/C: -0.4 deg	Incid Angle: 11-70 deg.	EMM Angle: 11-90 deg

TLM: LPU
Sub S/C 181 deg Resolution: 80 KM/PX
Area coverage in PIX: 1986

This observation happens when Europa is in transition with Jupiter, i.e. Euorpa is in front of Jupiter.

Long Map (LM), Gain 2,3,4, Grating Start 0, LPU, G7ELM244B, G7ELM228B
Long Map (LM), Gain 2,3,4, Grating Start 0, LPU, G7ELM244B, G7ELM102B

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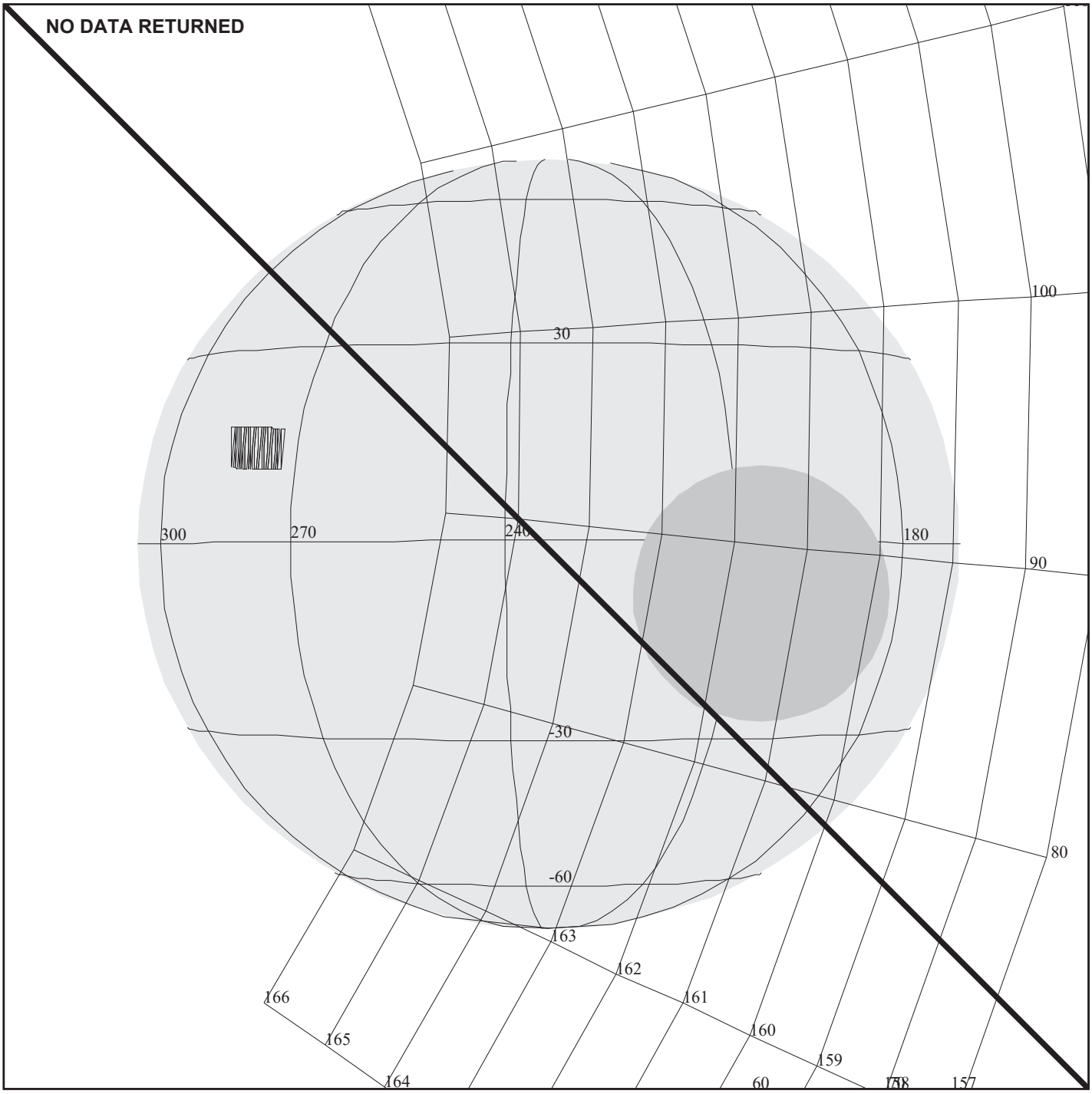

165EE:TT= 0 TMC= 1 C= 5.40 XC= 0.00 BS= 0/1869 TC= 1(14 278.4)
A= 728 pD= 0 SR=17.450 RA50=306.06 DEC50=-18.79 cone=169.00 clock= 93.14
117EE:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/1869
1:#s= 1 Cs= -10.80 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 300 rD= 2

G7JNFEX00202

TARGET G3.1 lisac: 5/ 6/1997 12:10: 0

FILE:P.G7JNFEX00202

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS **F_R_O_Z_E_N___T_M_C**

PERIAPSIS: **THINNING:NIM 2**

START:JTF 97-094/05:25:05.066 -CDS 87:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750**

OBSERVATION:G7JNFEX00202 **DESCRIP:JUP_FEA_TRK_02_DEG_PHASE_02**

Jupiter Feature Track X 2 deg phase pt 2 ACTIVITY ID: G7JNFEX00202-
START TIME: 97-094/03:52:03.733

Activity ID: Orbit G7 Target J Inst N OAPEL FEX002 SeqNo 02 -

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

Time System	CDS	Load ID	Calendar Date 04/04/97 Week 14
Start	JTF-CDS	00000092:00:0 97-094/03:52:03.733	JTF-000/01:33:01.333
End	JTF-CDS	00000065:00:0 97-094/04:19:21.733	JTF-000/01:05:43.333
Duration		00000027:00:0 000/00:27:18.000	000/00:27:18.000

Top Label G7JNFEX00202-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	98	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of five OAPELs constituting the partial feature track X for the North Tropical Zone spot number two. This is the first observation obtained on a rotation with phase angle approximately 2 degrees. Jupiter imaged in 4 colors, using NIMS downlink wavelength table JFT04A. This observation acquired with feature near 50 degrees relative longitude, assuming feature coordinates 14 degrees north latitude and 278.4 degrees west longitude (System III).
Note: FEX is at 278.4 degrees West, on the oppoisite hemisphere from the prim campaign feature FEA).

No Data Returned

Design Detail

Short map, Nyquist-sampled observation of 1*1 (10*10 mrad) North Tropical Zone feature near 278.4 degrees West longitude, 14 degrees north latitude. S/C distance about 0.67 million KM, NIMS IFOV (NIMSEL) = 335 KM; 1*1 mosaic covers 6700*6700 KM. About 100 seconds of scanning, accumulating 0.02554 mbtg in 4 colors, and using 0.00336 tracks. Four rims reserved for targetting. This observation tied to EPOCH JTF. This observation's ending time has been extended to cover the available time for timing changes in the update period. The observation still has the same starting time, design, and duration. (Original time is JTF-CDS 91 to -CDS 85).

Short Map (SM), Gain 2, Grating Start 1, LPU, G7JFT68C, G7JFT04A

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NIMS Software Load

ACTIVITY ID: G7NNNIMSLD07-
START TIME: 97-094/04:36:33.066

Activity ID: Orbit G7 Target N Inst N OAPEL NIMSLD SeqNo 07 -

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

Time System	CDS	Load ID	Calendar Date	04/04/97	Week 14
Start	IEE+CDS	00000440:00:0	97-094/04:36:33.066	IEE+000/07:24:53.333	
End	IEE+CDS	00000450:00:0	97-094/04:46:39.733	IEE+000/07:35:00.000	
Duration		00000010:00:0	000/00:10:06.667	000/00:10:06.667	

Top Label G7NNNIMSLD07-
Bottom Label

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

Observation Objective

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

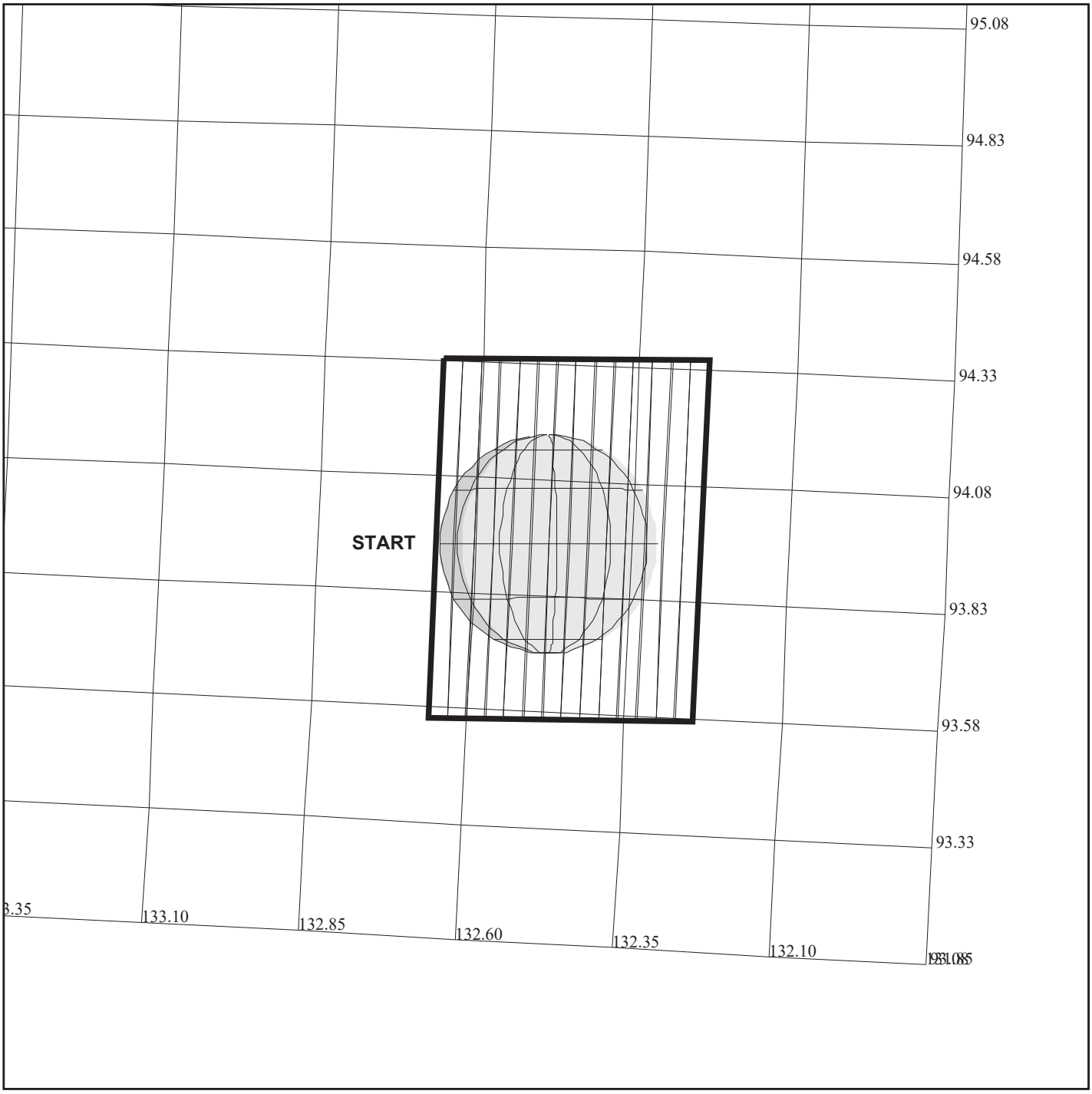
Memory load from CDS to NIMS and restart.
Diagnostic checksum, processor halt, memory reload from CDS,
instrument restart, and operational mode set.

Design Detail

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

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

Galileo Activity Plan Form 03/17/97 17:37:34 rev 6/95



165EF:TT= 0 TMC= 1 C= 3.00 XC= 0.00 BS= 0/1333 TC= 3
A= 728 pD= 0 SR=17.450 RA50=267.34 DEC50=-25.02 cone=132.66 clock= 93.94
117EF:#SB= 1 OR= 0.010 RR=12.000 BM=F RC= 1 BS= 0/1333
1:#s= 1 Cs= -2.40 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 728 rD= 2

G7INCHEMIS05

TARGET G3.1 lisac: 5/ 6/1997 12:10: 0

FILE:P.G7INCHEMIS05

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS **F_R_O_Z_E_N___T_M_C**

PERIAPSIS: **THINNING:NIM 2**

START:IEE 97-093/21:11:39.733 +CDS 453:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.200**

OBSERVATION:G7INCHEMIS05 **DESCRIP:Io Dayside Monitoring 05**

MONITORING OF IO'S DAYSIDE

ACTIVITY ID: G7INCHEMIS05-
START TIME: 97-094/04:47:40.399

Activity ID: Orbit G7 Target I Inst N OAPEL CHEMIS SeqNo 05 -

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

Time System	CDS	Load ID		Calendar Date	04/04/97 Week 14
Start	IEE+CDS	00000451:00:0	97-094/04:47:40.399		IEE+000/07:36:00.666
End	IEE+CDS	00000461:00:0	97-094/04:57:47.066		IEE+000/07:46:07.333
Duration		00000010:00:0	000/00:10:06.667		000/00:10:06.667

Top Label	G7INCHEMIS05-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	162	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Dayside monitoring covering wide range of longitudes to look for chemical changes (e.g. SO2 distribution) at resolutions better than ~800 km/nimsel (most observations will have resolutions between 120 and 400 km/nimsel).

Data Returned

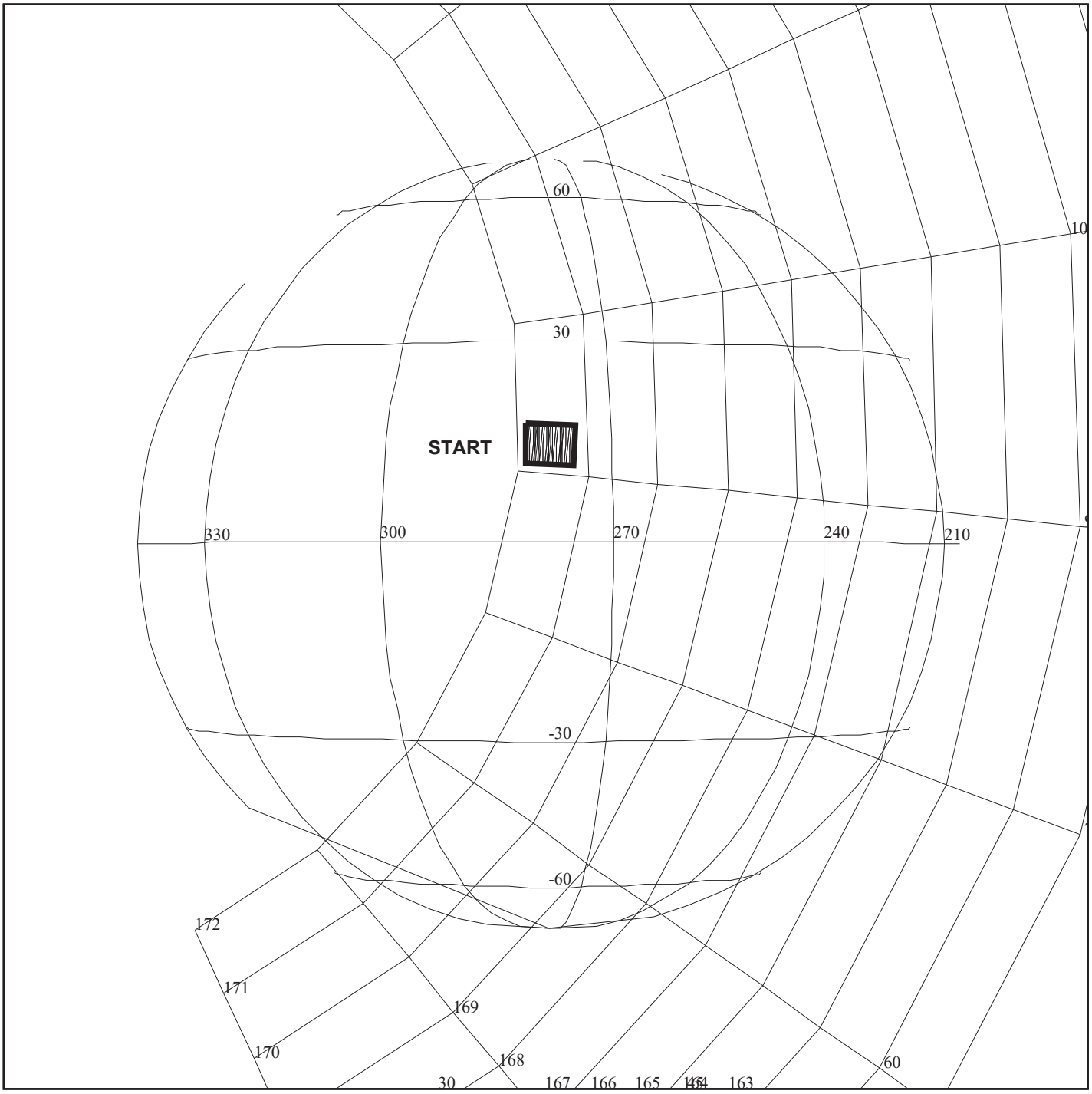
Design Detail

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

Long map, 102 wavelengths.
Tracks used per orbit: 0.05 to 0.42.
Bits To Ground per orbit: 0.3 to 2.2 Mbits.

Long Map (LM), Gain 2, Grating Start 0, LPU, G7ILM244B, G7ILM216B

Galileo Activity Plan Form 03/17/97 17:37:34 rev 6/95



165EG:TT= 0 TMC= 1 C= 5.40 XC= 0.00 BS= 0/6975 TC= 1(14 278.4)
A= 728 pD= 0 SR=17.450 RA50=308.99 DEC50=-17.90 cone=171.92 clock= 92.87
117EG:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/6975
1:#s= 1 Cs= -10.80 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 300 rD= 2

G7JNFEX00203

TARGET G3.1 lisac: 5/ 6/1997 12:10: 0

FILE:P.G7JNFEX00203

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS **F_R_O_Z_E_N___T_M_C**

PERIAPSIS: **THINNING:NIM 2**

START:EEE 97-094/05:58:27.066 -CDS 37:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750**

OBSERVATION:G7JNFEX00203 **DESCRIP:JUP_FEA_TRK_02_DEG_PHASE_03**

Jupiter Feature Track X 2 deg phase pt 3 ACTIVITY ID: G7JNFEX00203-
START TIME: 97-094/05:15:59.066

Activity ID: Orbit G7 Target J Inst N OAPEL FEX002 SeqNo 03 -

Title	Jupiter Feature Track X 2 deg phase pt 3	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team NIMS Working Group	AWG

Time System	CDS	Load ID	Calendar Date	04/04/97	Week 14
Start	EEE-CDS	00000042:00:0	97-094/05:15:59.066	EEE-000/00:42:28.000	
End	EEE-CDS	00000035:00:0	97-094/05:23:03.733	EEE-000/00:35:23.333	
Duration		00000007:00:0	000/00:07:04.667	000/00:07:04.667	

Top Label G7JNFEX00203-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	159	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of five OAPELs constituting the partial feature track X of the North Tropical Zone. This is the second observation obtained on a rotation with phase angle approximately 2 degrees. Jupiter is imaged in 4 colors using NIMS downlink wavelength table JFT04A. This observation acquired with feature near minimum airmass, assuming primary feature coordinates, target at 14 degrees south latitude and 278.4 degrees west longitude.

Note: FEX is at 278.4 degrees West, on the opposite hemisphere from the primary campaign feature FEA).

Data Returned

Design Detail

Short map, Nyquist-sampled observation of 1*1 (10*10 mrad) scan of the North Tropical Zone feature near 278.4 degrees west longitude, 14 degrees north latitude. S/C distance about 0.63 million KM,
NIMS IFOV (NIMSel) = 315 KM; 1*1 mosaic covers 6300*6300 KM.
About 100 seconds of scanning. Data accumulated 0.02554 MBTG in
4 colors, and using 0.00336 tracks. Four rims reserved for targetting.
This observation referenced to EPOCH EEE.

Short Map (SM), Gain 2, Grating Start 1, LPU, G7JFT68A, G7JFT19A

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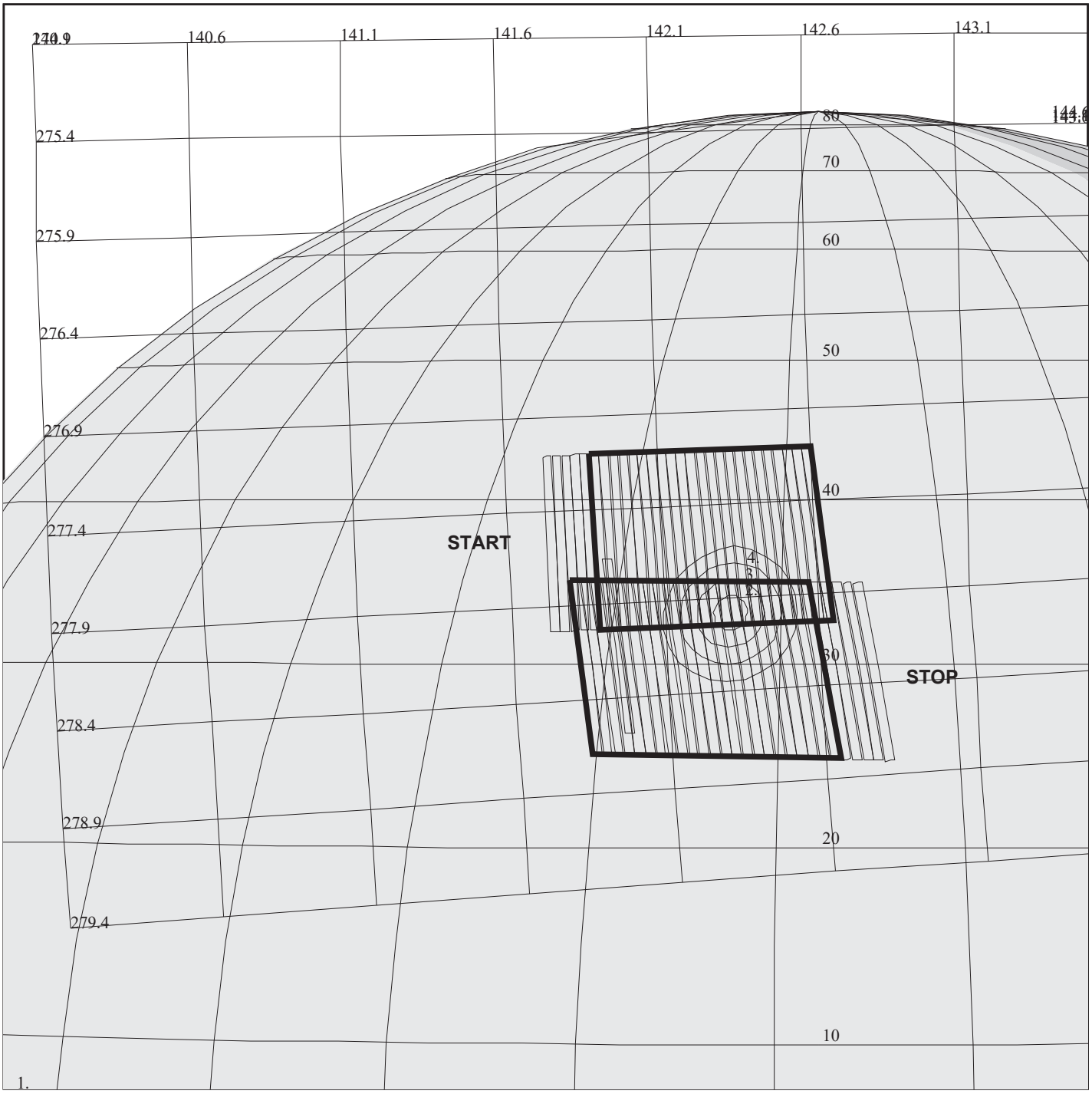

165EH:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/2799 TC= 1(37.5 152.5)
A= 728 pD= 2952 SR=17.450 RA50=353.26 DEC50= -1.88 cone=141.78 clock=277.52
117EH:#SB= 1 OR= 0.030 RR= 3.700 BM=F RC= 1 BS= 0/2799
1:#s= 2 Cs= 14.50 XCs= 0.00 Cr= -14.50 XCr= 7.00 sD= 1456 rD= 40

G7ENTYREMA01

TARGET G3.1 lisac: 5/ 6/1997 12:10: 0

FILE:P.G7ENTYREMA01

TARGET BODY : EUROPA

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS **F_R_O_Z_E_N___T_M_C**

PERIAPSIS: **THINNING:NIM 2**

START:EEE 97-094/05:58:27.066 -CDS 05:00:0 **BODY PLOT TIME:TARGET-TIME D= 2952 S= 2.000**

OBSERVATION:G7ENTYREMA01 **DESCRIP:EUROPA TYRE MACULA REGION**

Europa Tyre Macula Region

ACTIVITY ID: G7ENTYREMA01-
START TIME: 97-094/05:48:20.400

Activity ID: Orbit G7 Target E Inst N OAPEL TYREMA SeqNo 01 -

Title	Europa Tyre Macula Region			Instrument	NIMS
Requestor	NIMS-SWG/A. OCAMPO	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	Calendar Date	04/04/97	Week 14
Start	EEE-CDS	00000010:00:0	97-094/05:48:20.400	EEE-000/00:10:06.666	
End	EEE+CDS	00000012:00:0	97-094/06:10:35.066	EEE+000/00:12:08.000	
Duration		00000022:00:0	000/00:22:14.666	000/00:22:14.666	

Top Label G7ENTYREMA01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	258	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

To search for mineralogical differences and understand the origin of circular feature called Tyre Macula --old crater?-- The Mosaic will be centered at 145 degrees west longitude and 33 degrees north latitude and is approximately 80 X 80 km. NIMS resolution will be approximately 11 km/NIMSel. This observatin has been coordinated with UVS, PPR and SSI.

Data Returned

Design Detail

Distance: 23300 KM	Mode: Long Map	Tracks: 0.041
Phase: 50 deg	Slew Rate: 30 MR/S	Long Span: 140-150 deg
Cone: 140 deg	% Overlap: 30	Lat Span: 30-40 deg
Wavelengths: 408	P/B = 301 Wavelengts	Num of Strips: 2
% Coverage: 1	Resolution: 11 KM/PIX	NIMS FOV/Strip: 57
Sub S/C Long: 151 deg	Booms: Not in F.O.V.	DMS Mode: 7.68
Sub S/C Lat: +1.52 deg	ASD: 3.14 deg	Area Cov/PIX; 982
TLM: MPW	Incid Angle: 46-55 deg	EMM Angle: 28-40 deg
Gain: 2		

THIS OBSERVATION WILL BE TWEAKED.

Long Map (LM), Gain 2, Grating Start 0, MPW, G7ELM442, G7ELM360

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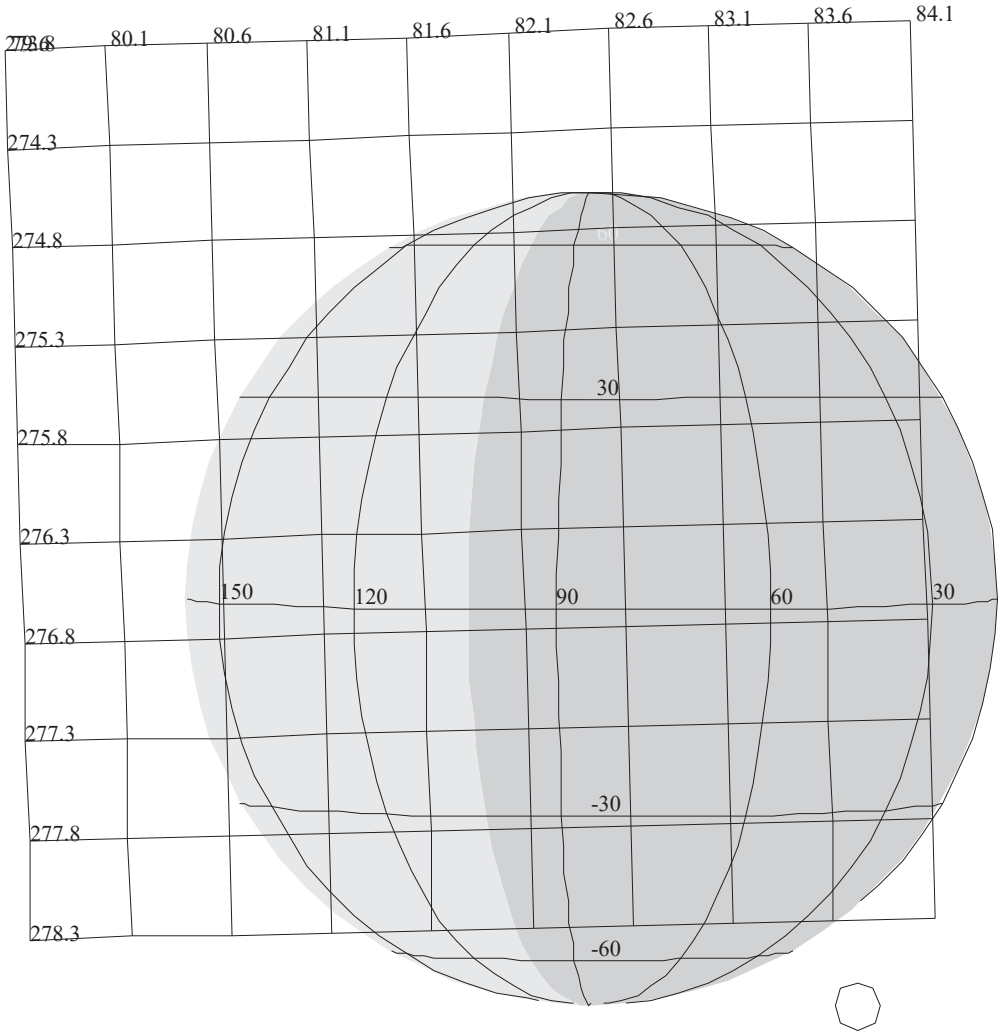

165GQ:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/2455 TC=15(21.159617 50.658146)
A= 728 pD= 0 SR=17.450 RA50= 50.66 DEC50= 21.16 cone= 81.20 clock=274.59
117GQ:#SB= 3 OR= 0.260 RR=12.000 BM=F RC= 1 BS= 0/2455
1:#s= 15 Cs= 33.00 XCs= 0.00 Cr= -41.00 XCr= 1.10 sD= 384 rD= 20
2:#s= 13 Cs= 35.60 XCs= 0.00 Cr= -41.70 XCr= 1.00 sD= 412 rD= 24
3:#s= 13 Cs= 33.00 XCs= 0.00 Cr= -38.00 XCr= 1.00 sD= 390 rD= 22

G7NNHEALTH03

DESIGN G3.1 lisac: 4/ 9/1997 15:15:55

FILE:P.G7EPDRKMAP01

TARGET BODY : EUROPA

MINI:m.G7EPDRKMAP01 **G7 AACS ANOMALY**

S/C EPH:/DATA/NAVIO/T-970320-164.NS

PERIAPSIS: **THINNING: :PPR 1**

START:EEE 97-094/05:58:27.066 +CDS 103:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.600**

OBSERVATION:G7EPDRKMAP01 **DESCRIP:Europa Darkside Map 01**

NIMS Health Observation

ACTIVITY ID: G7NNHEALTH03-
START TIME: 97-094/10:48:38.400

Activity ID: Orbit G7 Target N Inst N OAPEL HEALTH SeqNo 03 -

Title	NIMS Health Observation	Instrument	NIMS
Requestor	NIMS-SWG/A. Ocampo	Team NIMS	Working Group SWG

Time System	CDS	Load ID	Calendar Date	04/04/97	Week 14
Start	JEE-CDS	00000015:00:0	97-094/10:48:38.400	JEE-000/00:15:10.000	
End	JEE-CDS	00000010:00:0	97-094/10:53:41.734	JEE-000/00:10:06.666	
Duration		00000005:00:0	000/00:05:03.334	000/00:05:03.334	

Top Label G7NNHEALTH03-
Bottom Label

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

Observation Objective

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

G7 AACS ANOMALY
Data Returned

Design Detail

Long Map (LM), Gain 2, Grating Start 0, R/T, G7RCVY3

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NIMS Software Reload

ACTIVITY ID: G7NNNIMSLD08-
START TIME: 97-094/10:54:42.400

Activity ID: Orbit G7 Target N Inst N OAPEL NIMSLD SeqNo 08 -

Title	NIMS Software Reload			Instrument	NIMS
Requestor	NIMS-SWG/R.	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	Calendar Date	04/04/97	Week 14
Start	JEE-CDS	00000009:00:0	97-094/10:54:42.400	JEE-000/00:09:06.000	
End	JEE+CDS	00000001:00:0	97-094/11:04:49.066	JEE+000/00:01:00.666	
Duration		00000010:00:0	000/00:10:06.666	000/00:10:06.666	

Top Label	G7NNNIMSLD08-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	0	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	ALL	DMS	No

Observation Objective

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

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

G7 AACS ANOMALY

Design Detail

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

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

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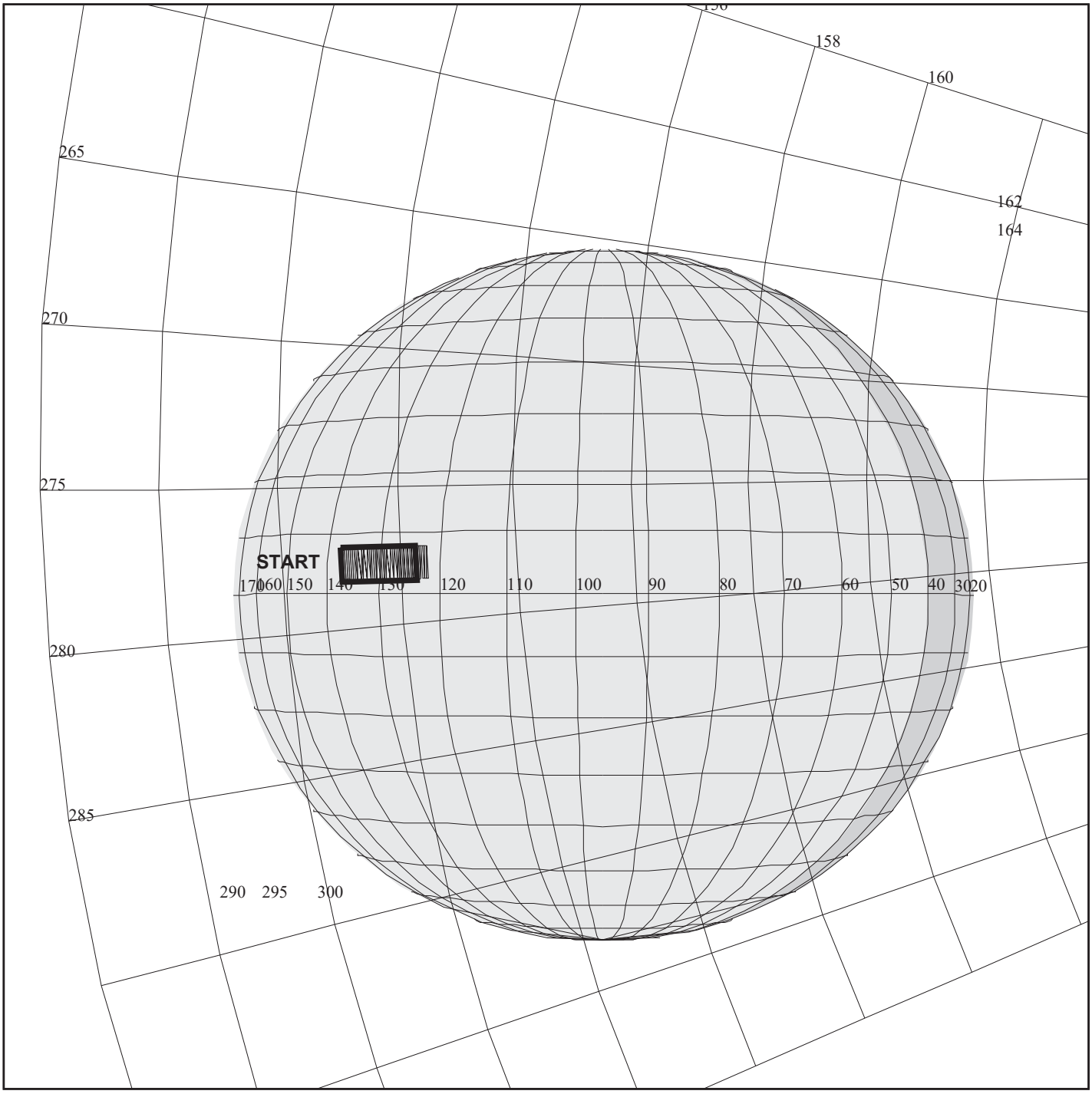

165FR:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/9765 TC=15(-5.441489 344.714776)
A= 728 pD= 0 SR=17.450 RA50=344.71 DEC50= -5.44 cone=151.02 clock=277.73
117FR:#SB= 1 OR= 0.020 RR=12.000 BM=F RC= 1 BS= 0/9765
1:#s= 1 Cs= 15.70 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 2366 rD= 2

G7JNHOTMAP01

DESIGN G3.1 lisac: 4/ 9/1997 15:13:42

FILE:P.G7JNHOTMAP01

CENTRAL BODY:JUPITER III

MINI:m.G7JNHOTMAP01 **G7 AACS ANOMALY**

S/C EPH:/DATA/NAVIO/T-970320-164.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-094/11:03:48.400 +CDS 06:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.709**

OBSERVATION:G7JNHOTMAP01 **DESCRIP:NIMS_JUPITER_HOTMAP_OBSERVATION**

NIMS Jupiter Hotmap Observation ACTIVITY ID: G7JNHOTMAP01-
START TIME: 97-094/11:05:43.066

Activity ID: Orbit G7 Target J Inst N OAPEL HOTMAP SeqNo 01 -

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

Time System CDS Load ID Calendar Date 04/04/97 Week 14

Start	JEE+CDS 00000001:81:0	97-094/11:05:43.066	JEE+000/00:01:54.666
End	JEE+CDS 00000031:00:0	97-094/11:35:09.066	JEE+000/00:31:20.666
Duration	00000029:10:0	000/00:29:26.000	000/00:29:26.000

Top Label G7JNHOTMAP01-
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

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).

G7 AACS ANOMALY
Data Returned

Design Detail

Longmap, Nyquist sampled mapping of hotspot/PES region. One tier acquired, centered on the central meridian near 7.0 degrees North latitude. Tier extends 35 mrads, i.e., 69 NIMS footprints, or 138 NIMS samples at Nyquist sampling. Observation takes 138 X 8.666 = 1200 secs = 00:20:00.
Spacecraft distance 0.694 million KM. NIMS IFOV 347 KM.
During which 0.0402 tracks are used, accumulating 3.83 MBTG in 204 colors.
Observation covers 47900 X 6940 KM. Mean phase angle about 2 degrees.
3.50 rims reserved for targetting.

Long Map (LM), Gain 2, Grating Start 0, LPU, G7JHT238A, G7JHT072

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NIMS Software Reload

ACTIVITY ID: G7NNNIMSLD09-
START TIME: 97-094/13:57:43.066

Activity ID: Orbit G7 Target N Inst N OAPEL NIMSLD SeqNo 09 -

Title	NIMS Software Reload			Instrument	NIMS
Requestor	NIMS-SWG/R.	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	Calendar Date	04/04/97	Week 14
Start	IEE+CDS	00000995:00:0	97-094/13:57:43.066	IEE+000/16:46:03.333	
End	IEE+CDS	00001005:00:0	97-094/14:07:49.733	IEE+000/16:56:10.000	
Duration		00000010:00:0	000/00:10:06.667	000/00:10:06.667	

Top Label G7NNNIMSLD09-
Bottom Label

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

Observation Objective

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

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

G7 AACS ANOMALY

Design Detail

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

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

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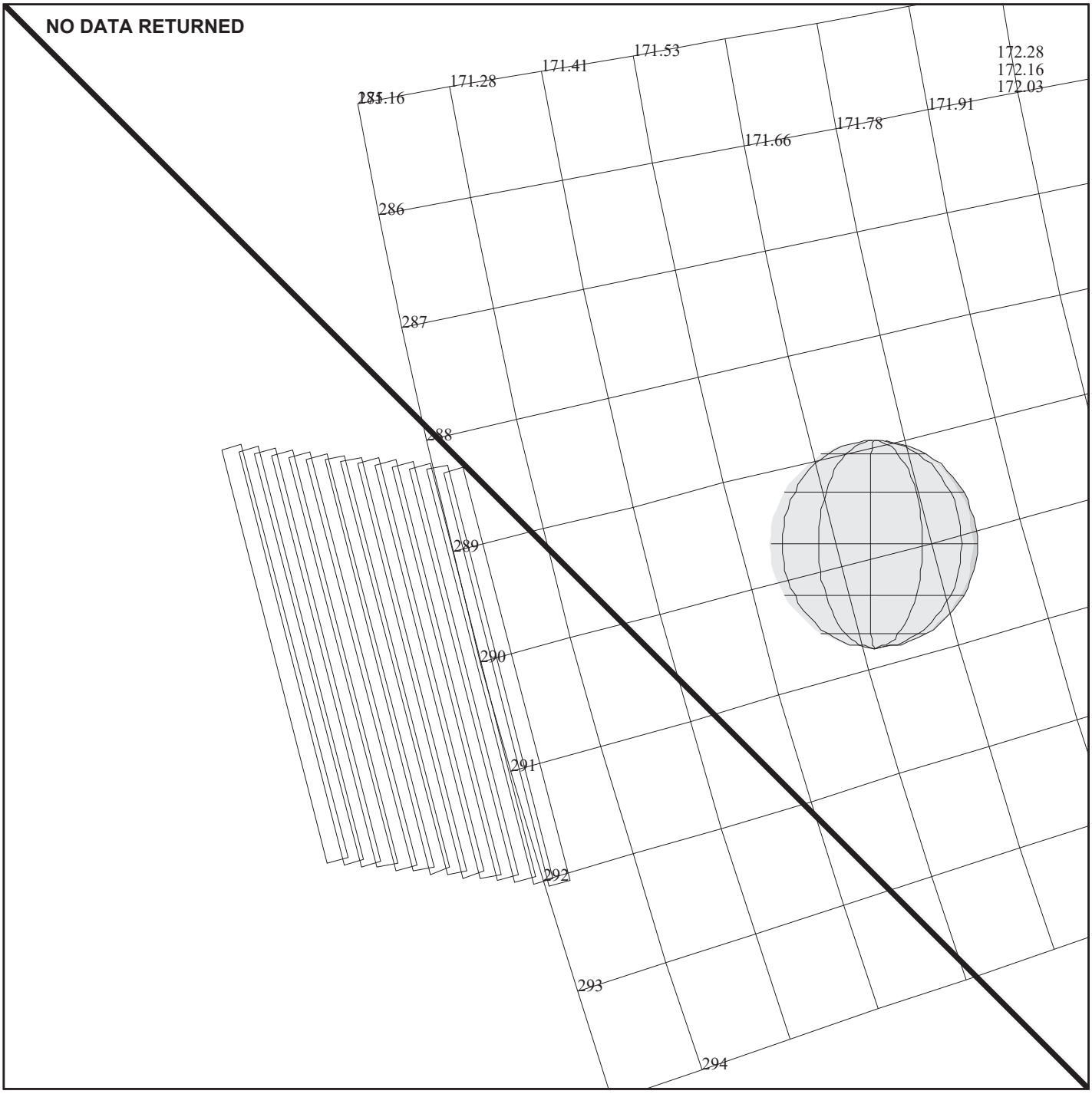


165El:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/2707 TC=15(-14.156114 326.256094)
A= 728 pD= 0 SR=17.450 RA50=326.26 DEC50=-14.16 cone=170.90 clock=289.50
117El:#SB= 1 OR= 0.010 RR=12.000 BM=F RC= 1 BS= 0/2707
1:#s= 1 Cs= -2.40 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 728 rD= 2

G7INCHEMIS06

DESIGN G3.1 lisac: 4/ 9/1997 15: 4:32

FILE:P.G7INCHEMIS06

TARGET BODY : IO

MINI:m.G7INCHEMIS06 — **G7 AACS ANOMALY**

S/C EPH:/DATA/NAVIO/T-970320-164.NS

PERIAPSIS: — **THINNING:NIM 2**

START:IEE 97-093/21:11:39.733 +CDS 1010:00:0 — **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.200**

OBSERVATION:G7INCHEMIS06 — **DESCRIP:Io Dayside Monitoring 06**

MONITORING OF IO'S DAYSIDE

ACTIVITY ID: G7INCHEMIS06-
START TIME: 97-094/14:08:43.733

Activity ID: Orbit G7 Target I Inst N OAPEL CHEMIS SeqNo 06 -

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

Time System	CDS	Load ID	Calendar Date	04/04/97	Week 14
Start	IEE+CDS	00001005:81:0	97-094/14:08:43.733	IEE+000/16:57:04.000	
End	IEE+CDS	00001015:00:0	97-094/14:17:56.399	IEE+000/17:06:16.666	
Duration		00000009:10:0	000/00:09:12.666	000/00:09:12.666	

Top Label G7INCHEMIS06-
Bottom Label

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

Observation Objective

Dayside monitoring covering wide range of longitudes to look for chemical changes (e.g. SO2 distribution) at resolutions better than ~800 km/nimsel (most observations will have resolutions between 120 and 400 km/nimsel).

G7 AACS ANOMALY
No Data Returned

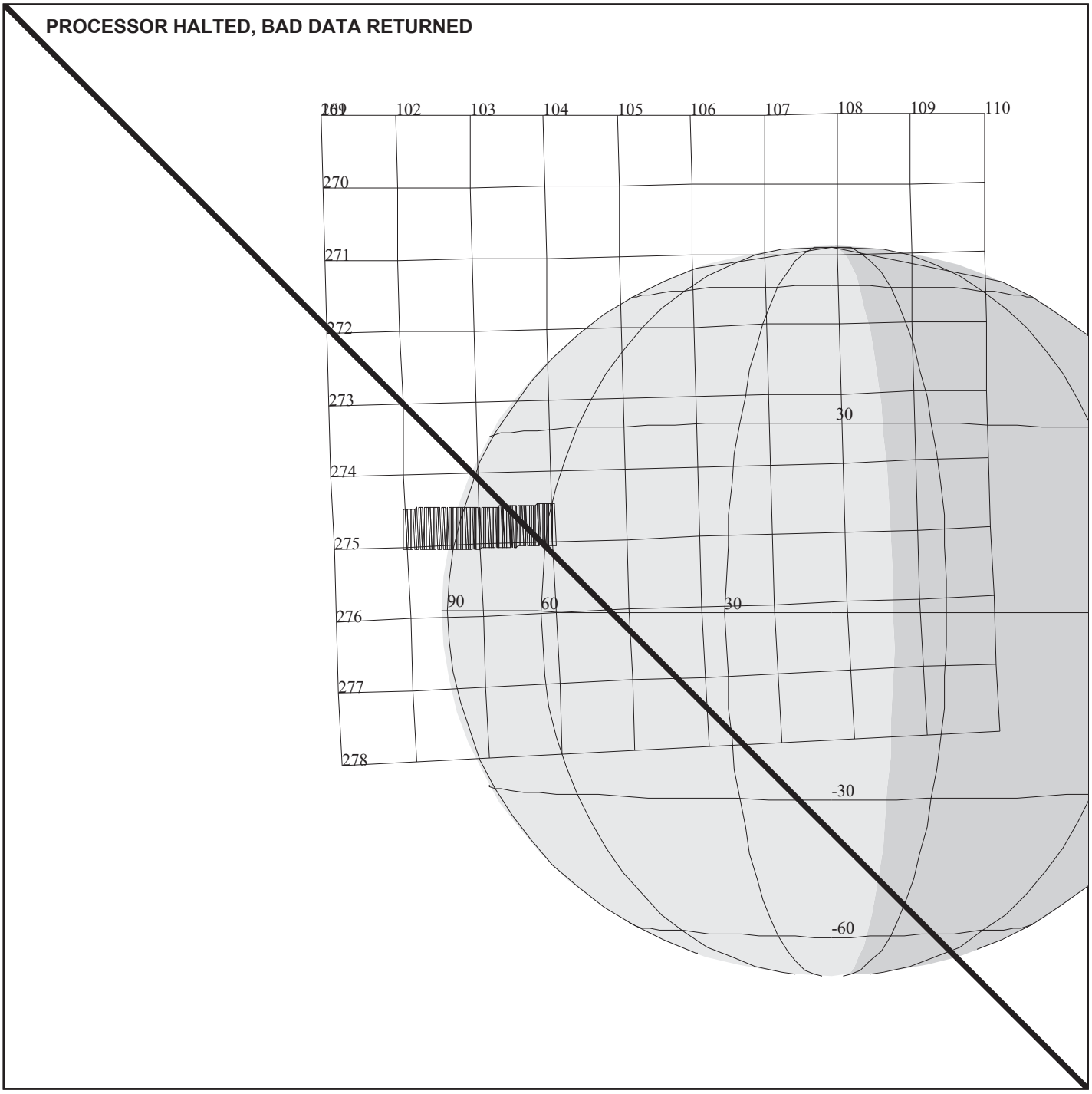
Design Detail

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

Long map, 102 wavelengths.
Tracks used per orbit: 0.05 to 0.42.
Bits To Ground per orbit: 0.3 to 2.2 Mbits.

Long Map (LM), Gain 2, Grating Start 0, LPU, G7ILM228B, G7ILM228B

Galileo Activity Plan Form 03/17/97 17:37:35 rev 6/95



165EJ:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/7135 TC=15(15.141587 29.710618)
A= 728 pD= 0 SR=17.450 RA50= 29.71 DEC50= 15.14 cone=101.97 clock=274.76
117EJ:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/7135
1:#s= 1 Cs= 32.79 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 900 rD= 2

G7JNFEAP6601

DESIGN G3.1 lisac: 4/ 9/1997 14:49:45

FILE:P.G7JNFEAP6601

CENTRAL BODY:JUPITER III

MINI:m.G7JNFEAP6601 **G7 AACS ANOMALY**

S/C EPH:/DATA/NAVIO/T-970320-164.NS

PERIAPSIS: **THINNING:NIM 2**

START:JTC 97-094/21:42:49.666 -CDS 91:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750**

OBSERVATION:G7JNFEAP6601 **DESCRIP:JUP_FT_&_PRTL1_66_DEG_01**

Jupiter Ftr and Prtl Trk 66 deg prt 1 ACTIVITY ID: G7JNFEAP6601-
START TIME: 97-094/20:05:45.666

Activity ID: Orbit G7 Target J Inst N OAPEL FEAP66 SeqNo 01 -

Title	Jupiter Ftr and Prtl Trk 66 deg prt 1	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team NIMS	Working Group AWG

Time System	CDS	Load ID	Calendar Date	04/04/97	Week 14
Start	JTC-CDS	00000096:00:0	97-094/20:05:45.666	JTC-000/01:37:04.000	
End	JTC-CDS	00000085:00:0	97-094/20:16:53.000	JTC-000/01:25:56.666	
Duration		00000011:00:0	000/00:11:07.334	000/00:11:07.334	

Top Label G7JNFEAP6601-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	168	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of 8 OAPELs constituting the North Tropical Zone feature track at 14 degrees North, 65 degrees West. Also the third of 4 OAPELs constituting the Partial Feature Track covering additional territory near the NTZ. This is the first observation obtained on a rotation with phase angle approximately 87 degrees. Jupiter imaged in 25 colors, using NIMS downlink wavelength table JFT25A. This observation acquired with feature near minimum airmass, assuming feature coordinates 14 degrees North latitude and 65 degrees West longitude (System III).

G7 AACS ANOMALY
Processor Halted, Bad Data Returned

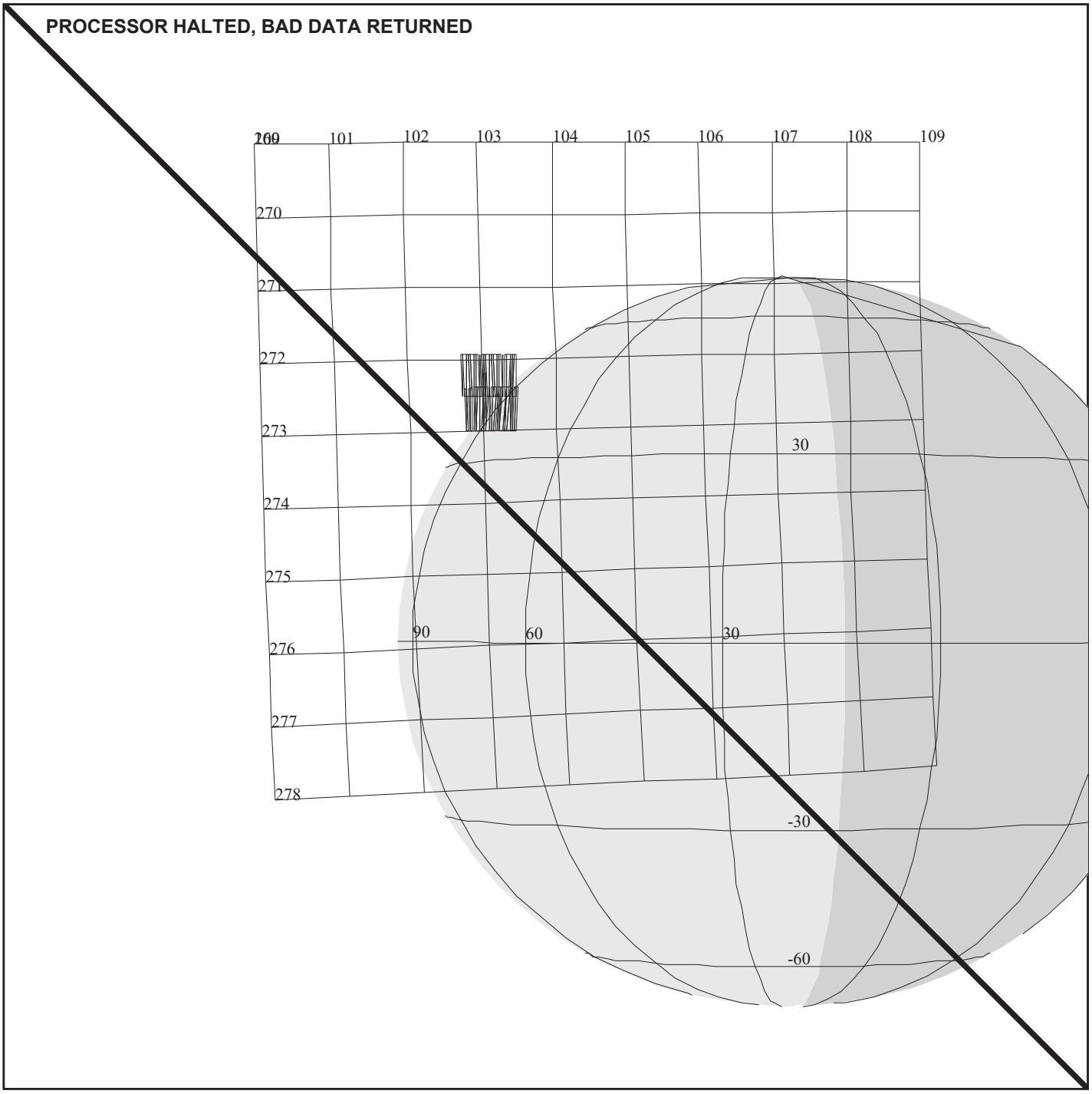
Design Detail

Short map, Nyquist-sampled observation of 3*1 (30*10 mrad) area centered on North Tropical Zone near 65 degrees West longitude, 14 degrees North latitude. S/C distance about 0.730 million KM, NIMS IFOV (NIMSEL) = 365 KM; 3*1 mosaic covers 21900*7300 KM. About 300 seconds of scanning, accumulating 0.2695 MBTG in 25 colors, and using 0.01008 tracks. Four rims reserved for targetting. This observation referenced to EPOCH JTC.

NOTE 2/25/97: Observation re-targetted about 5 degrees West to encompass 81 degrees longitude near the limb now being observed by SSI as well as the 65 degree longitude target being feature tracked by NIMS.

Short Map (SM), Gain 2, Grating Start 1, LPU, G7JFT68C, G7JFT04A

Galileo Activity Plan Form 03/17/97 17:37:35 rev 6/95



165EK:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/8955 TC=15(17.206698 28.087753)
A= 546 pD= 0 SR=17.450 RA50= 28.09 DEC50= 17.21 cone=102.73 clock=272.22
117EK:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/8955
1:#s= 2 Cs= 10.80 XCs= 0.00 Cr= -12.00 XCr= 8.00 sD= 300 rD= 40

G7JNPFTB6601

DESIGN G3.1 lisac: 4/ 9/1997 14:48:11

FILE:P.G7JNPFTB6601

CENTRAL BODY:JUPITER III

MINI:m.G7JNPFTB6601 **G7 AACS ANOMALY**

S/C EPH:/DATA/NAVIO/T-970320-164.NS

PERIAPSIS: **THINNING:NIM 2**

START:JTC 97-094/21:42:49.666 -CDS 81:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750**

OBSERVATION:G7JNPFTB6601 **DESCRIP:JUP_PART_FT_B_66_DEG_01**

Jupiter Partial Ftr Trk B 66 deg prt 1 ACTIVITY ID: G7JNPFTB6601-
START TIME: 97-094/20:18:00.333

Activity ID: Orbit G7 Target J Inst N OAPEL PFTB66 SeqNo 01 -

Title	Jupiter Partial Ftr Trk B 66 deg prt 1	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team NIMS	Working Group AWG

Time System CDS Load ID Calendar Date 04/04/97 Week 14

Start	JTC-CDS	00000083:81:0 97-094/20:18:00.333	JTC-000/01:24:49.333
End	JTC-CDS	00000077:00:0 97-094/20:24:58.333	JTC-000/01:17:51.333
Duration		00000006:81:0 000/00:06:58.000	000/00:06:58.000

Top Label G7JNPFTB6601-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	98	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of seven OAPELs constituting the partial feature track B of one of two Little Red Spots near 43 degrees north. This is the third observation, the first observation obtained on a rotation with phase angle approximately 87 degrees. Jupiter imaged in 25 colors, using NIMS downlink wavelength table JFT25A. This observation acquired with feature B near minimum air mass, assuming feature coordinates 43 degrees north latitude and 65 degrees west longitude (System III).

G7 AACS ANOMALY
Processor Halted, Bad Data Returned

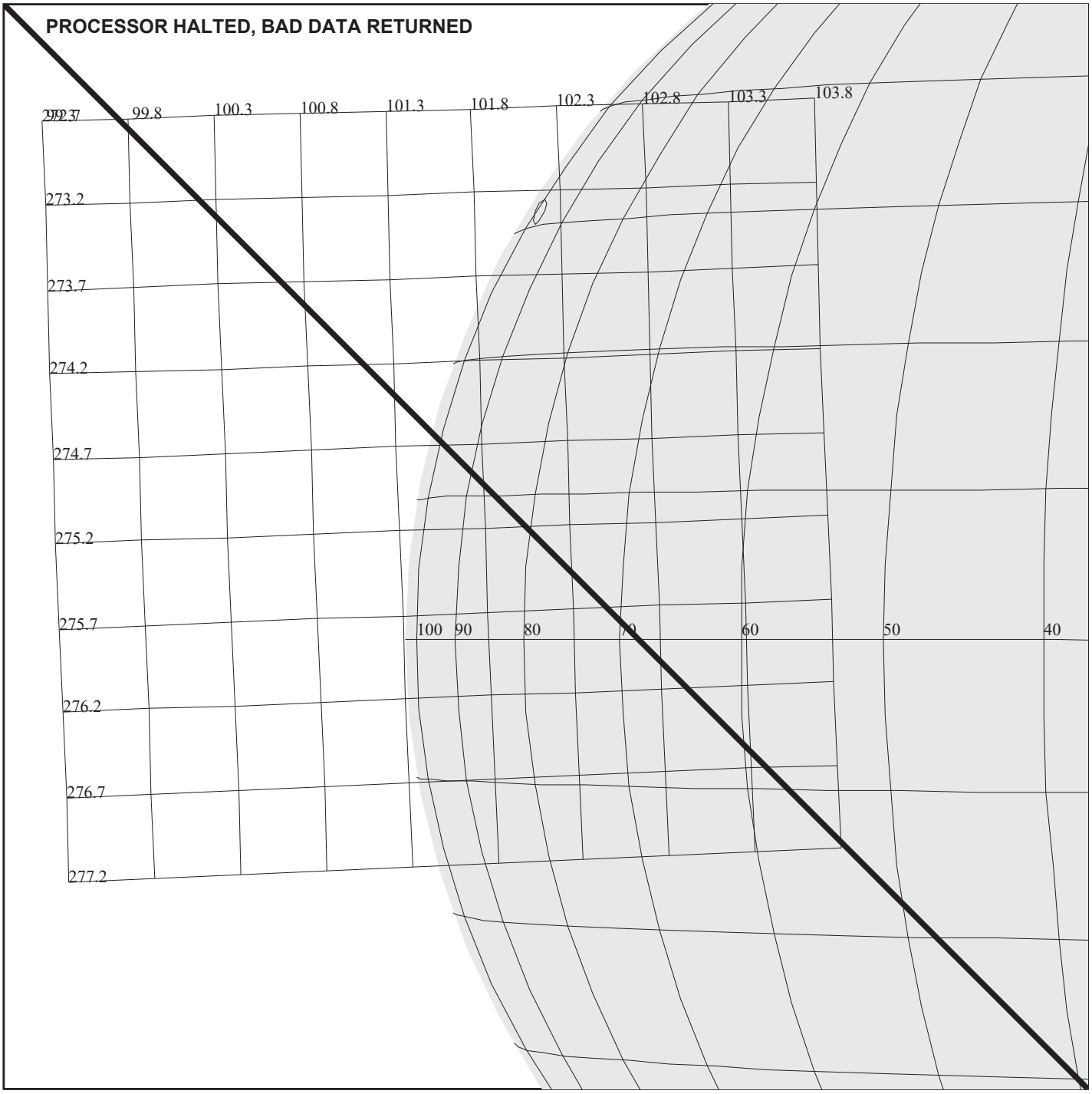
Design Detail

Short map, Nyquist-sampled observation of 1*2 (10*20 mrad) area centered on 4 degree north latitude, 65 degrees west longitude. S/C distance about 0.74 million KM, NIMS IFOV (NIMSEL) = 370 KM; 1*2 mosaic covers 7400*13320 K including 20 percent overlap. About 220 seconds of scanning, including 20 seconds for a reposition slew accumulating 0.19762 MBTG in 25 colors, and using 0.00739 tracks. 3 rims reserved for targetting.
This observation referenced to EPOCH JTC.

NOTE 2/25/97: Recent IRTF observations predict LRS now at 81 degrees West lon
Observation re-targetted accordingly.

Short Map (SM), Gain 2, Grating Start 1, LPU, G7JFT68C, G7JFT04A

Galileo Activity Plan Form 03/17/97 17:37:35 rev 6/95



165GW:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/0047 TC=15(14.433120 29.906364)
A= 364 pD= 0 SR=17.450 RA50= 29.91 DEC50= 14.43 cone=102.02 clock=275.50
117GW:#SB= 1 OR= 0.300 RR=12.000 BM=F RC= 1 BS= 0/0047
1:#s= 30 Cs= -19.50 XCs= 0.00 Cr= 19.20 XCr= -1.30 sD= 198 rD= 16

G7NNHEALTH04

DESIGN G3.1 lisac: 4/ 9/1997 14:44:33

FILE:P.G7JPFTNEM101

CENTRAL BODY:JUPITER III

MINI:m.G7JPFTNEM101 **G7 AACS ANOMALY**

S/C EPH:/DATA/NAVIO/T-970320-164.NS

PERIAPSIS: **THINNING: :PPR 1**

START:JTC 97-094/21:42:49.666 -CDS 75:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 1.750**

OBSERVATION:G7JPFTNEM101 **DESCRIP:FT_NORTHERN_REGION_EMA1**

G7 Health Observation

ACTIVITY ID: G7NNHEALTH04-
START TIME: 97-094/20:25:11.666

Activity ID: Orbit G7 Target N Inst N OAPEL HEALTH SeqNo 04 -

Title	G7 Health Observation	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team NIMS	Working Group AWG

Time System	CDS	Load ID	Calendar Date	04/04/97	Week 14
Start	JTC-CDS	00000076:71:0	97-094/20:25:11.666	JTC-000/01:17:38.000	
End	JTC-CDS	00000071:00:0	97-094/20:31:02.333	JTC-000/01:11:47.333	
Duration		00000005:71:0	000/00:05:50.667	000/00:05:50.667	

Top Label G7NNHEALTH04-
Bottom Label

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

Observation Objective

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

G7 AACS ANOMALY
Processor Halted, Bad Data Returned

Design Detail

Long Map (LM), Gain 2, Grating Start 0, R/T, G7RCVY3

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NIMS Software Load

ACTIVITY ID: G7NNNIMSLD10-
START TIME: 97-094/20:32:03.000

Activity ID: Orbit G7 Target N Inst N OAPEL NIMSLD SeqNo 10 -

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

Time System	CDS	Load ID	Calendar Date	04/04/97	Week 14
Start	JTC-CDS	00000070:00:0	97-094/20:32:03.000	JTC-000/01:10:46.666	
End	JTC-CDS	00000060:00:0	97-094/20:42:09.666	JTC-000/01:00:40.000	
Duration		00000010:00:0	000/00:10:06.666	000/00:10:06.666	

Top Label G7NNNIMSLD10-
Bottom Label

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

Observation Objective

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

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

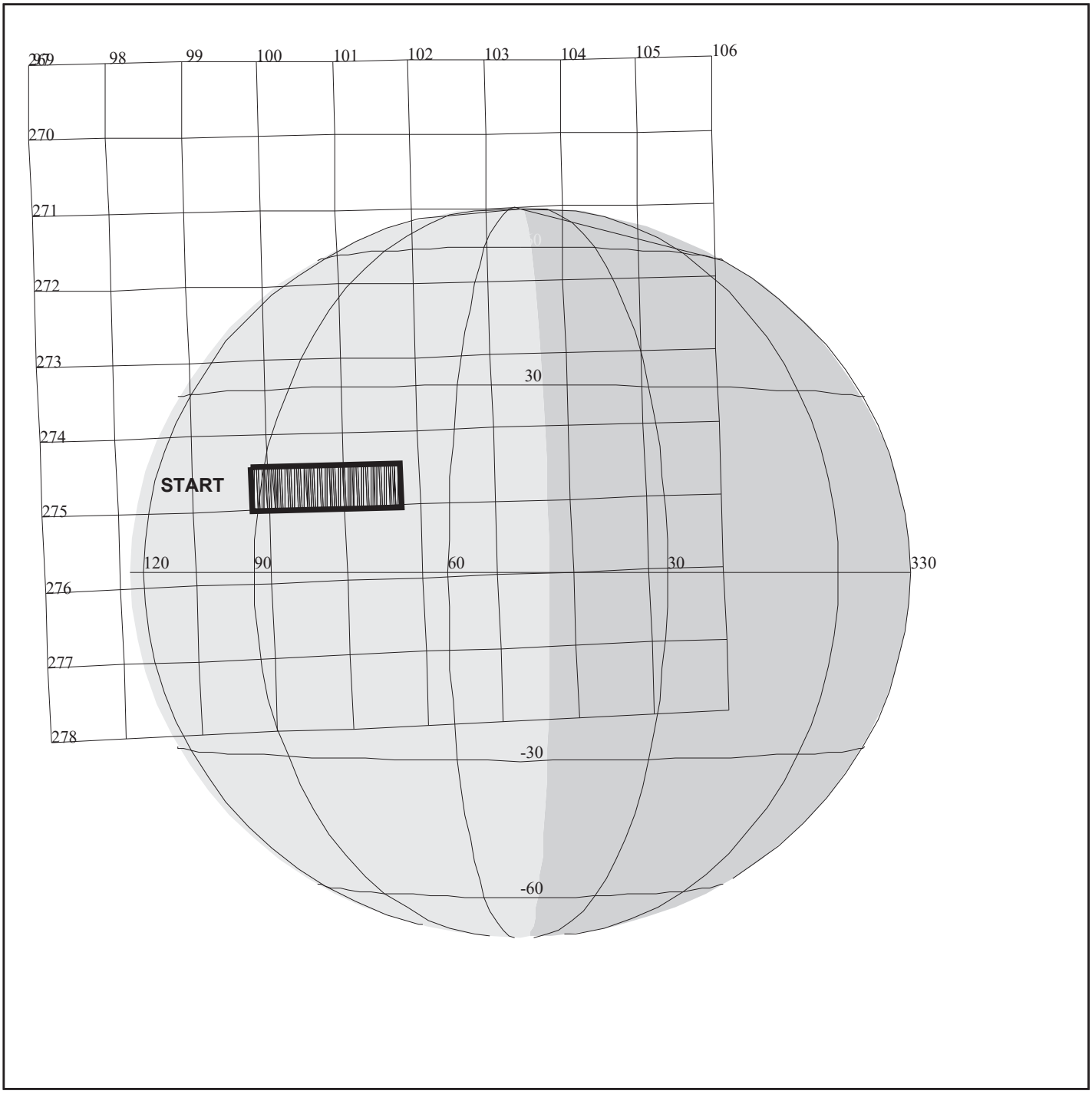
G7 AACS ANOMALY

Design Detail

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

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

Galileo Activity Plan Form 03/17/97 17:37:36 rev 6/95



165EL:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/8783 TC=15(15.883737 31.834620)
A= 364 pD= 0 SR=17.450 RA50= 31.83 DEC50= 15.88 cone= 99.79 clock=274.73
117EL:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/8783
1:#s= 1 Cs= 32.79 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 900 rD= 2

G7JNFEAP6602

DESIGN G3.1 lisac: 4/ 9/1997 14:40:14

FILE:P.G7JNFEAP6602

CENTRAL BODY:JUPITER III

MINI:m.G7JNFEAP6602 **G7 AACS ANOMALY**

S/C EPH:/DATA/NAVIO/T-970320-164.NS

PERIAPSIS: **THINNING:NIM 2**

START:JTC 97-094/21:42:49.666 -CDS 27:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750**

OBSERVATION:G7JNFEAP6602 **DESCRIP:JUP_FT_&_PRTL1_66_DEG_02**

Jupiter Feature Track 66 deg phase pt 2 ACTIVITY ID: G7JNFEAP6602-
START TIME: 97-094/21:12:29.666

Activity ID: Orbit G7 Target J Inst N OAPEL FEAP66 SeqNo 02 -

Title	Jupiter Feature Track 66 deg phase pt 2	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS Working Group AWG

Time System	CDS	Load ID	Calendar Date	04/04/97	Week 14
Start	JTC-CDS	00000030:00:0	97-094/21:12:29.666	JTC-000/00:30:20.000	
End	JTC-CDS	00000022:00:0	97-094/21:20:35.000	JTC-000/00:22:14.666	
Duration		00000008:00:0	000/00:08:05.334	000/00:08:05.334	

Top Label	G7JNFEAP6602-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	98	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of 8 OAPELs constituting the North Tropical Zone Feature Track. Also the fourth of 4 OAPELs constituting the Partial Feature Track covering additional territory near the North Tropical Zone. This is the second observation obtained on a rotation with phase angle approximately 87 degrees. Jupiter imaged in 19 colors, using NIMS downlink wavelength table JFT19A. This observation acquired with North Tropical Zone feature near the evening terminator, assuming feature coordinates 14 degrees North latitude and 65 degrees West longitude (System III).

G7 AACS ANOMALY
Data Returned

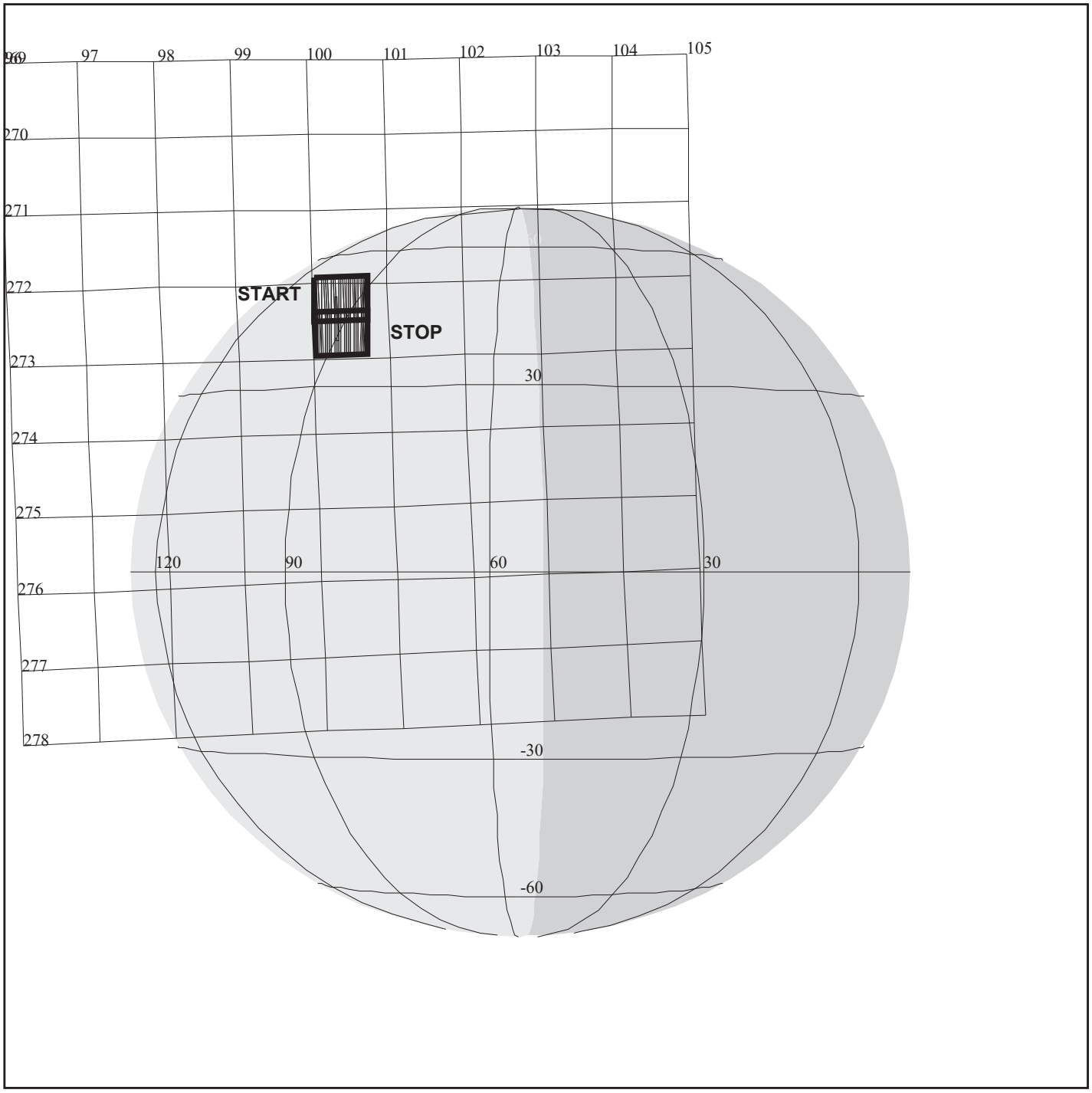
Design Detail

Short map, Nyquist-sampled observation of 3*1 (30*10 mrad) area centered on North Tropical Zone near 65 degrees West longitude, 14 degrees North latitude. S/C distance about 0.77 million KM, NIMS IFOV (NIMSEL) = 370 KM; 3*1 mosaic covers 22200*7400 KM, including 20 percent overlap. About 300 seconds of scanning, accumulating 0.2695 MBTG in 19 colors, and using 0.01008 tracks. Two rims reserved for targetting. This observation referenced to EPOCH JTC.
NOTE 2/17/97: Colors cut back to 4 to meet new downlink budget.

NOTE 2/25/97: Observation re-targetted about 8 degrees to the West to observe both the NIMS 65 degree feature and the SSI 81 degree West longitude feature.

Short Map (SM), Gain 2, Grating Start 1, LPU, G7JFT68C, G7JFT25A

Galileo Activity Plan Form 03/17/97 17:37:36 rev 6/95



165EM:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/0603 TC=15(18.160247 30.737812)
A= 546 pD= 0 SR=17.450 RA50= 30.74 DEC50= 18.16 cone=100.03 clock=272.19
117EM:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/0603
1:#s= 2 Cs= 10.80 XCs= 0.00 Cr= -11.70 XCr= 8.00 sD= 300 rD= 40

G7JNPFTB6602

DESIGN G3.1 lisac: 4/ 9/1997 14:38:53

FILE:P.G7JNPFTB6602

CENTRAL BODY:JUPITER III

MINI:m.G7JNPFTB6602 **G7 AACS ANOMALY**

S/C EPH:/DATA/NAVIO/T-970320-164.NS

PERIAPSIS: **THINNING:NIM 2**

START:JTC 97-094/21:42:49.666 -CDS 17:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750**

OBSERVATION:G7JNPFTB6602 **DESCRIP:JUP_PART_FT_B_66_DEG_02**

Jupiter Partial Ftr Trk B 66 deg prt 2 ACTIVITY ID: G7JNPFTB6602-
START TIME: 97-094/21:21:35.666

Activity ID: Orbit G7 Target J Inst N OAPEL PFTB66 SeqNo 02 -

Title	Jupiter Partial Ftr Trk B 66 deg prt 2	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team NIMS	Working Group AWG

Time System CDS Load ID Calendar Date 04/04/97 Week 14

Start	JTC-CDS 00000021:00:0	97-094/21:21:35.666	JTC-000/00:21:14.000
End	JTC-CDS 00000013:00:0	97-094/21:29:41.000	JTC-000/00:13:08.666
Duration	00000008:00:0	000/00:08:05.334	000/00:08:05.334

Top Label G7JNPFTB6602-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	98	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of seven OAPELs constituting the partial feature track B of one of two little Red Spots a near 43 degrees north. This is the second observation obtained on a rotation with phase angle approximately 87 degrees. Jupiter imaged in 19 colors, using NIMS downlink wavelength table JFT19A. This observation acquired with feature B near terminator assuming feature coordinates 43 degrees north latitude and 65 degrees west longitude (System III).

G7 AACS ANOMALY
Data Returned

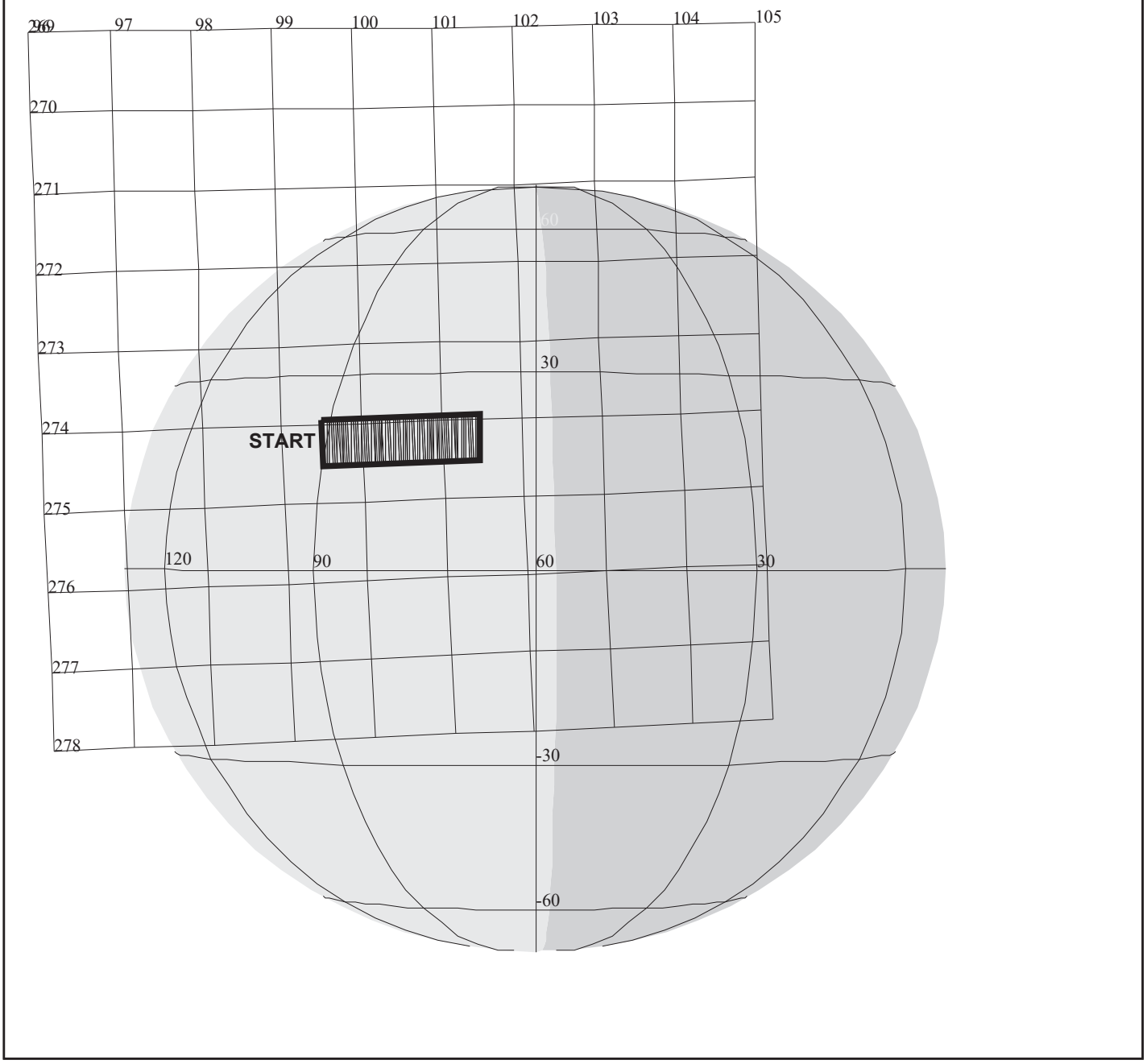
Design Detail

Short map, Nyquist-sampled observation of 1*2 (10*20 mrad) area centered on 43 degree north latitude, 65 degrees west longitude. S/C distance about 0.76 million KM, NIMS IFOV (NIMSEL) = 380 KM; 1*2 mosaic covers 7600*10400 K including 20 percent overlap. About 220 seconds of scanning, including 20 seconds for a reposition slew accumulating 0.19762 MBTG in 19 colors, and using 0.00739 tracks. Three rims reserved for targetting.
This observation referenced to EPOCH JTC.
NOTE 2/17/97: Colors cut back to 4 to meet new downlink budget.

NOTE 2/25/97: Recent IRTF observation predicted LRS now at 81 degrees West longitude. Observation re-targetted accordingly.

Short Map (SM), Gain 2, Grating Start 1, LPU, G7JFT68C, G7JFT25A

Galileo Activity Plan Form 03/17/97 17:37:36 rev 6/95



165EN:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/2059 TC=15(16.441777 31.962170)
A= 364 pD= 0 SR=17.450 RA50= 31.96 DEC50= 16.44 cone= 99.49 clock=274.23
117EN:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/2059
1:#s= 1 Cs= 32.79 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 900 rD= 2

G7JNPFC06601

DESIGN G3.1 lisac: 4/ 9/1997 14:37:44

FILE:P.G7JNPFC06601

CENTRAL BODY:JUPITER III

MINI:m.G7JNPFC06601 **G7 AACS ANOMALY**

S/C EPH:/DATA/NAVIO/T-970320-164.NS

PERIAPSIS: **THINNING:NIM 2**

START:JTC 97-094/21:42:49.666 -CDS 09:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750**

OBSERVATION:G7JNPFC06601 **DESCRIP:JUP_FT_&_PRTL1_66_DEG_02**

Jupiter Partial Ftr Trk C 66 deg — ACTIVITY ID: G7JNPFC06601-
START TIME: 97-094/21:30:41.666

Activity ID: Orbit G7 Target J Inst N OAPEL PFC066 SeqNo 01 -

Title	Jupiter Partial Ftr Trk C 66 deg	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team NIMS	Working Group AWG

Time System CDS Load ID Calendar Date 04/04/97 Week 14

Start	JTC-CDS	00000012:00:0 97-094/21:30:41.666	JTC-000/00:12:08.000
End	JTC-CDS	00000002:00:0 97-094/21:40:48.333	JTC-000/00:02:01.333
Duration		00000010:00:0 000/00:10:06.667	000/00:10:06.667

Top Label G7JNPFC06601-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	98	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of 4 OAPELs constituting the North Temperate Belt Feature C partial campaign. This is the only observation obtained on a rotation with phase angle approximately 87 degrees. Feature C imaged in 25 colors, using NIMS downlink wavelength table JFT25A. This observation acquired with feature near the evening terminator, assuming feature coordinates 20 degrees North latitude and 65 degrees West longitude (System III).

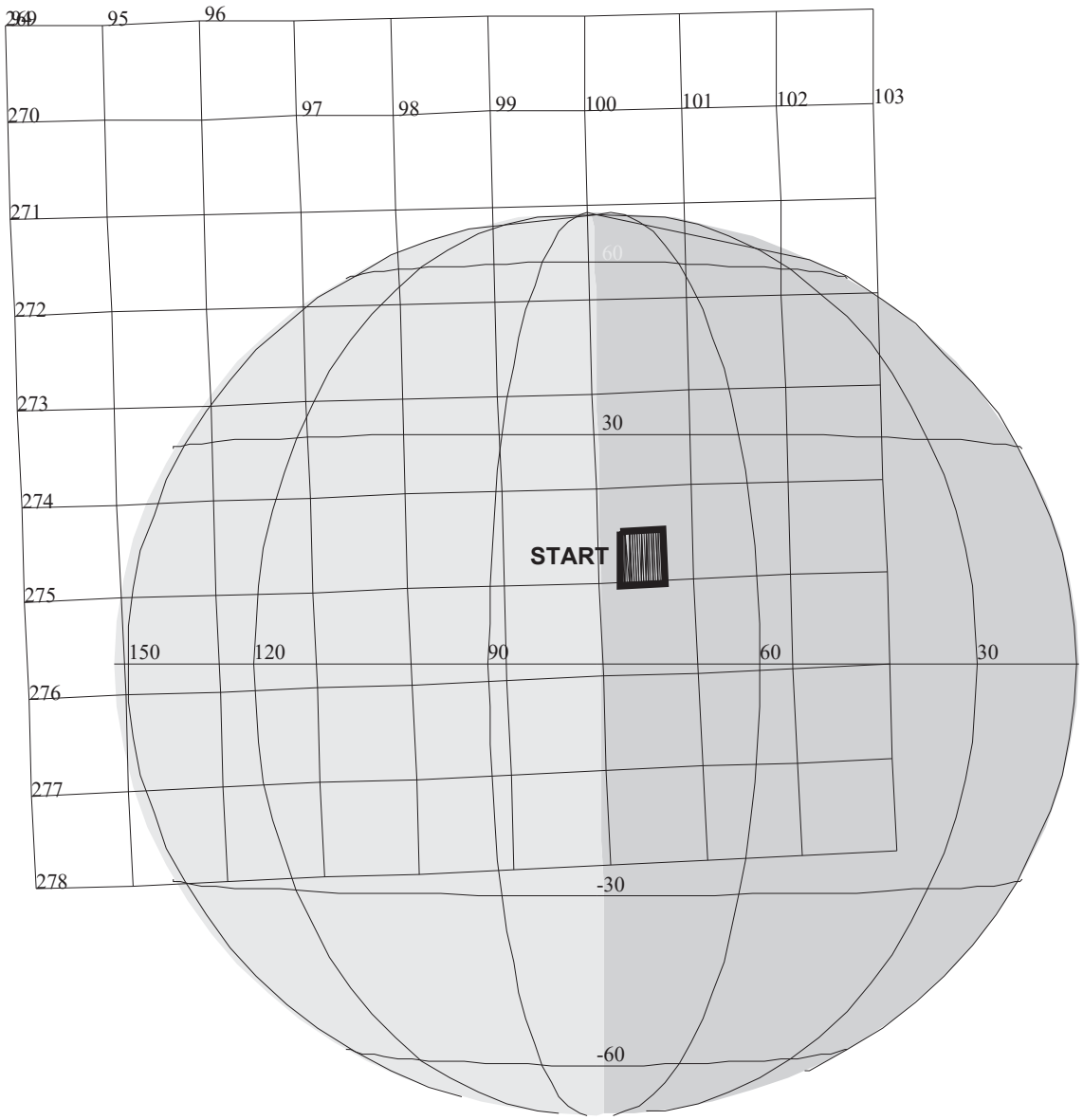
G7 AACS ANOMALY
Data Returned

Design Detail

Short map, Nyquist-sampled observation of 3*1 (30*10 mrad) area centered on North Temperate Zone feature near 65 degrees West longitude, 20 degrees North latitude. S/C distance about 0.74 million KM,
NIMS IFOV (NIMSEL) = 370 KM; 3*1 mosaic covers 19200*7400 KM.
About 300 seconds of scanning, accumulating 0.372 MBTG in 25 colors, and using 0.01008 tracks. Two rims reserved for targetting.
This observation referenced to EPOCH JTC.
NOTE 2/25/97: Observation re-targetted 5 degrees to the West to observe both the NIMS 65 degree West longitude feature and the SSI 81 degrees West longitude feature.

Short Map (SM), Gain 2, Grating Start 1, LPU, G7JFT68C, G7JFT25A

Galileo Activity Plan Form 03/17/97 17:37:36 rev 6/95



165EO:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/8065 TC=15(15.710852 31.411412)
A= 182 pD= 0 SR=17.450 RA50= 31.41 DEC50= 15.71 cone=100.23 clock=274.76
117EO:#SB= 1 OR= 0.020 RR=12.000 BM=F RC= 1 BS= 0/8065
1:#s= 2 Cs= 7.20 XCs= 0.00 Cr= -10.00 XCr= 0.00 sD= 1088 rD= 364

G7JNFEA53M01

DESIGN G3.1 lisac: 4/ 9/1997 14:33:44

FILE:P.G7JNFEA53M01

CENTRAL BODY:JUPITER III

MINI:m.G7JNFEA53M01 **G7 AACS ANOMALY**

S/C EPH:/DATA/NAVIO/T-970320-164.NS

PERIAPSIS: **THINNING:NIM 2**

START:JTC 97-094/21:42:49.666 +CDS 24:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750**

OBSERVATION:G7JNFEA53M01 **DESCRIP:JUP_CAMP_FEA_5_AND_3_UM_MAP**

Jupiter Campaign Feature 5 and 3 um Map ACTIVITY ID: G7JNFEA53M01-
START TIME: 97-094/22:04:03.666

Activity ID: Orbit G7 Target J Inst N OAPEL FEA53M SeqNo 01 -

Title	Jupiter Campaign Feature 5 and 3 um Map	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS Working Group AWG

Time System	CDS	Load ID	Calendar Date	04/04/97	Week 14
Start	JTC+CDS	00000021:00:0	97-094/22:04:03.666	JTC+000/00:21:14.000	
End	JTC+CDS	00000038:30:0	97-094/22:21:34.999	JTC+000/00:38:45.333	
Duration		00000017:30:0	000/00:17:31.333	000/00:17:31.333	

Top Label G7JNFEA53M01-
Bottom Label

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

Observation Objective

High spectral resolution 5-micron and 3-micron night-time maps of trace species within the North Tropical Zone feature. The campaign feature, centered at 65 degrees west longitude (System III), 14 degrees north latitude, is observed near 12 degrees relative longitude during the phase angle ~ 87 degrees rotation. The feature is first scanned in the 160 wavelengths in the three and five micron meter range specified by NIMS wavelength table J35160.
Note: Second scan is vestigal from orginal design. Not needed now.

G7 AACS ANOMALY
Data Returned

Design Detail

Two long map, Nyquist-sampled observations of 1*1 (10*10 mrad) area centered on the campaign feature. S/C distance about 976 million KM, map covers 7600*7600 KM. Each scan encompasses about 6 minutes of scanning, accumulating 0.36255 MBTG and using 0.01209 tracks.
1 RIM reserved for targetting. 2 minutes reserved for reposition slew.
Total Oapel resources used: 0.72510 MBTG and 0.02418 tracks.
Wavelength table is J35160. SCIREC #2 starts at beginning of subsequent scan. This observation referenced to EPOCH JTC. The times have been changed to accomodate a PPR observation and targetting time has been changed to 1 RIM, original times +49 to 67.
NOTE 2/17/97: Colors cut back to 83 from 160 to meet downlink budget. New wavelength table is J35083, which acquires 67 wavelengths at 5um, 13 wavelengths near 2.7um, and 3 wavelengths near 1.55um.
NOTE 2/25/97: Playback data cut to 320 seconds from 364 seconds to meet new downlink budget.
Long Map (LM), Gain 4, Grating Start 0, LPU, G7J35160, G7J35083

Galileo Activity Plan Form 03/17/97 17:37:36 rev 6/95

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NIMS Software Reload

ACTIVITY ID: G7NNNIMSLD11-
START TIME: 97-094/22:22:15.666

Activity ID: Orbit G7 Target N Inst N OAPEL NIMSLD SeqNo 11 -

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

Time System	CDS	Load ID	Calendar Date	04/04/97	Week 14
Start	JTC+CDS	00000039:00:0	97-094/22:22:15.666	JTC+000/00:39:26.000	
End	JTC+CDS	00000049:00:0	97-094/22:32:22.332	JTC+000/00:49:32.666	
Duration		00000010:00:0	000/00:10:06.666	000/00:10:06.666	

Top Label G7NNNIMSLD11-
Bottom Label

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

Observation Objective

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

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

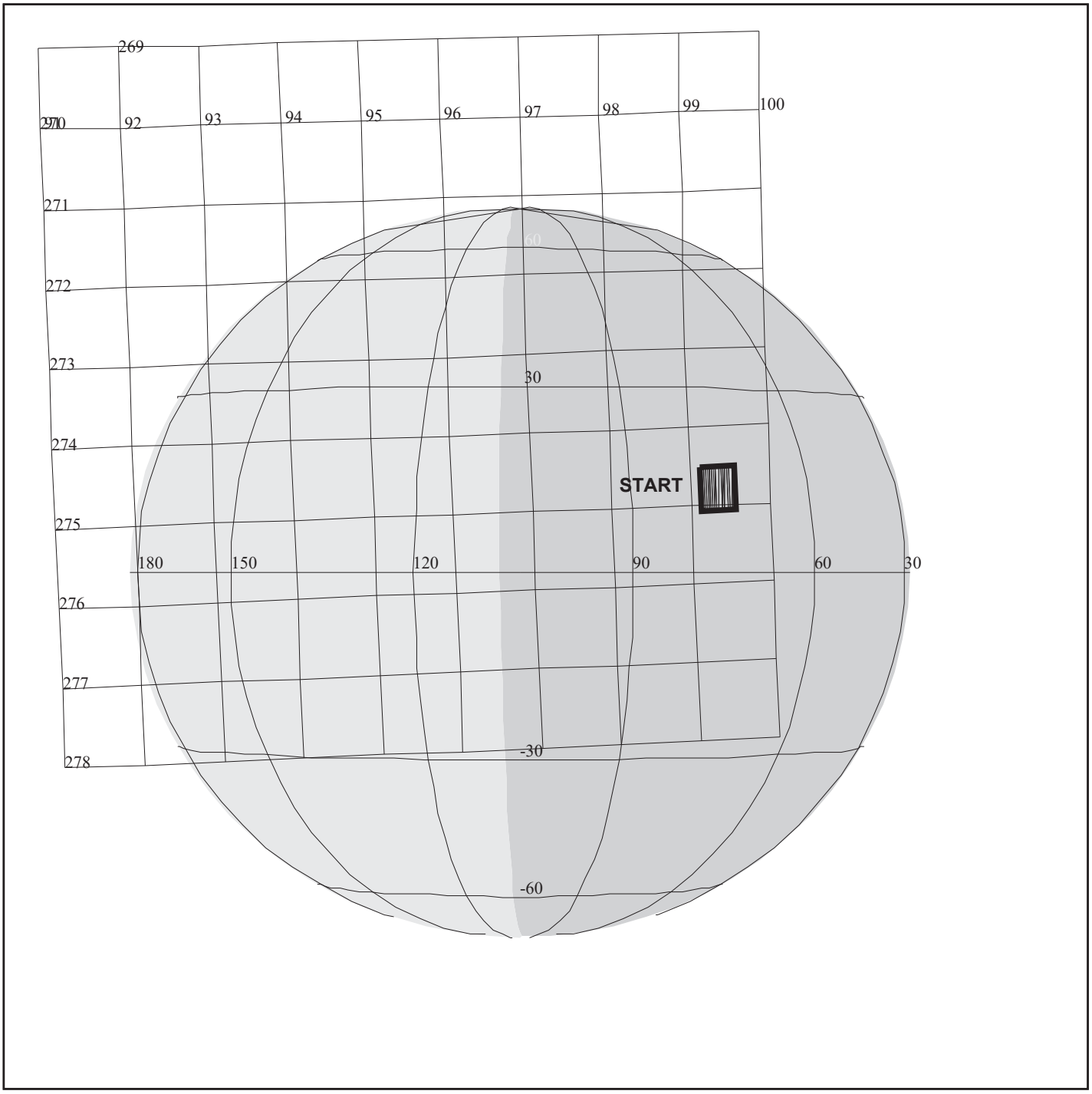
G7 AACS ANOMALY

Design Detail

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

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

Galileo Activity Plan Form 03/17/97 17:37:36 rev 6/95



165EP:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/7165 TC=15(16.035488 32.506640)
A= 546 pD= 0 SR=17.450 RA50= 32.51 DEC50= 16.04 cone= 99.13 clock=274.79
117EP:#SB= 1 OR= 0.020 RR=12.000 BM=F RC= 1 BS= 0/7165
1:#s= 1 Cs= 7.20 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 1092 rD= 2

G7JNFEA5UM01

DESIGN G3.1 lisac: 4/ 9/1997 14:29:26

FILE:P.G7JNFEA5UM01

CENTRAL BODY:JUPITER III

MINI:m.G7JNFEA5UM01 **G7 AACS ANOMALY**

S/C EPH:/DATA/NAVIO/T-970320-164.NS

PERIAPSIS: **THINNING:NIM 2**

START:JTC 97-094/21:42:49.666 +CDS 74:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750**

OBSERVATION:G7JNFEA5UM01 **DESCRIP:JUP_CAMP_FEA_5_MICRON_02**

Jupiter Feature Track 5 Micron Map 2 ACTIVITY ID: G7JNFEA5UM01-
START TIME: 97-094/22:53:36.332

Activity ID: Orbit G7 Target J Inst N OAPEL FEA5UM SeqNo 01 -

Title	Jupiter Feature Track 5 Micron Map 2	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team NIMS	Working Group AWG

Time System	CDS	Load ID	Calendar Date	04/04/97	Week 14
Start	JTC+CDS	00000070:00:0	97-094/22:53:36.332	JTC+000/01:10:46.666	
End	JTC+CDS	00000080:10:0	97-094/23:03:49.666	JTC+000/01:21:00.000	
Duration		00000010:10:0	000/00:10:13.334	000/00:10:13.334	

Top Label G7JNFEA5UM01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	128	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

High spectral resolution 5-micron night-time map of trace species within the North Tropical Zone campaign feature. This is the second 5-um map obtained during the 87 degree phase angle rotation, the other having been obtained during OAPEL G7JNFEA53M01-. The campaign feature, centered at 65 degrees west longitude (System III), 14 degrees north latitude, observed near 60 degrees emission angle during the phase angle ~ 87 degrees rotation. The feature is scanned in the 80 wavelengths specified by NIMS wavelength table J5M80B: 4.28 - 5.22 microns.

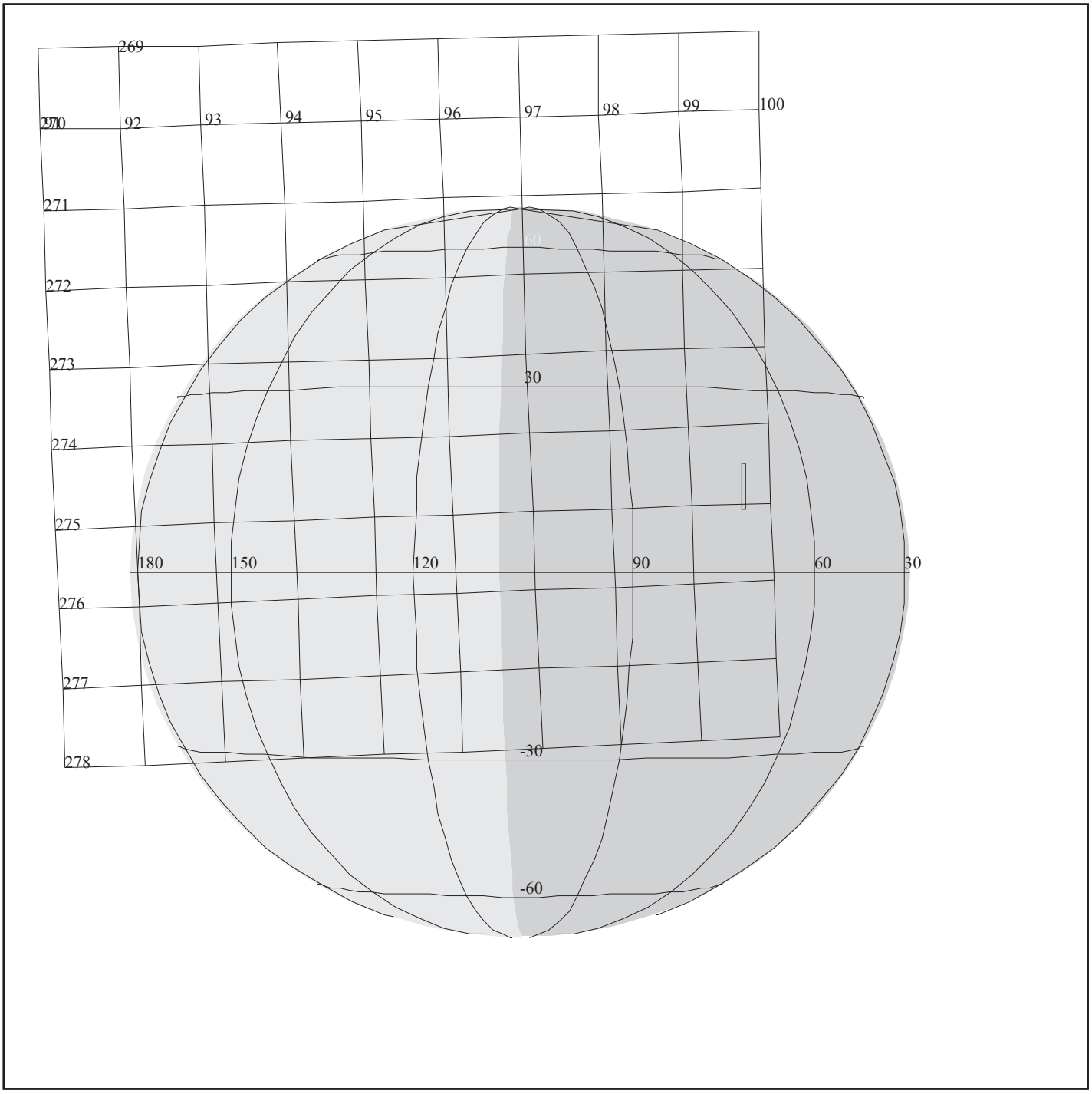
G7 AACS ANOMALY
Data Returned

Design Detail

Long map, Nyquist-sampled observation of 1*1 (10*10 mrad) area centered on the campaign feature. S/C distance 981 million KM, map covers 8100*8100 KM. About 6 minutes of scanning, accumulating 0.36255 MBTG and using 0.01209 tracks. 3 minutes reserved for targetting.
This observation referenced to EPOCH JTC.
NOTE 2/25/97: Playback data cut to 300 seconds from 364 seconds to meet new downlink budget.

Long Map (LM), Gain 4, Grating Start 0, MPW, G7J5M253B, G7J5M80B

Galileo Activity Plan Form 03/17/97 17:37:36 rev 6/95



165EP:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/7165 TC=15(16.035488 32.506640)
A= 546 pD= 0 SR=17.450 RA50= 32.51 DEC50= 16.04 cone= 99.13 clock=274.79
117EP:#SB= 1 OR= 0.020 RR=12.000 BM=F RC= 1 BS= 0/7165
1:#s= 1 Cs= 7.20 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 1092 rD= 2

G7NNHEALTH05

DESIGN G3.1 lisac: 4/ 9/1997 14:29:26

FILE:P.G7JNFEA5UM01

CENTRAL BODY:JUPITER III

MINI:m.G7JNFEA5UM01 **G7 AACS ANOMALY**

S/C EPH:/DATA/NAVIO/T-970320-164.NS

PERIAPSIS: **THINNING:NIM 2**

START:JTC 97-094/21:42:49.666 +CDS 74:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750**

OBSERVATION:G7JNFEA5UM01 **DESCRIP:JUP_CAMP_FEA_5_MICRON_02**

NIMS Health Observation

ACTIVITY ID: G7NNHEALTH05-
START TIME: 97-094/23:14:50.332

Activity ID: Orbit G7 Target N Inst N OAPEL HEALTH SeqNo 05 -

Title	NIMS Health Observation			Instrument	NIMS
Requestor	NIMS-SWG/J. Hui	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	Calendar Date	04/04/97	Week 14
Start	JTC+CDS	00000091:00:0	97-094/23:14:50.332	JTC+000/01:32:00.666	
End	JTC+CDS	00000096:00:0	97-094/23:19:53.666	JTC+000/01:37:04.000	
Duration		00000005:00:0	000/00:05:03.334	000/00:05:03.334	

Top Label G7NNHEALTH05-
Bottom Label

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

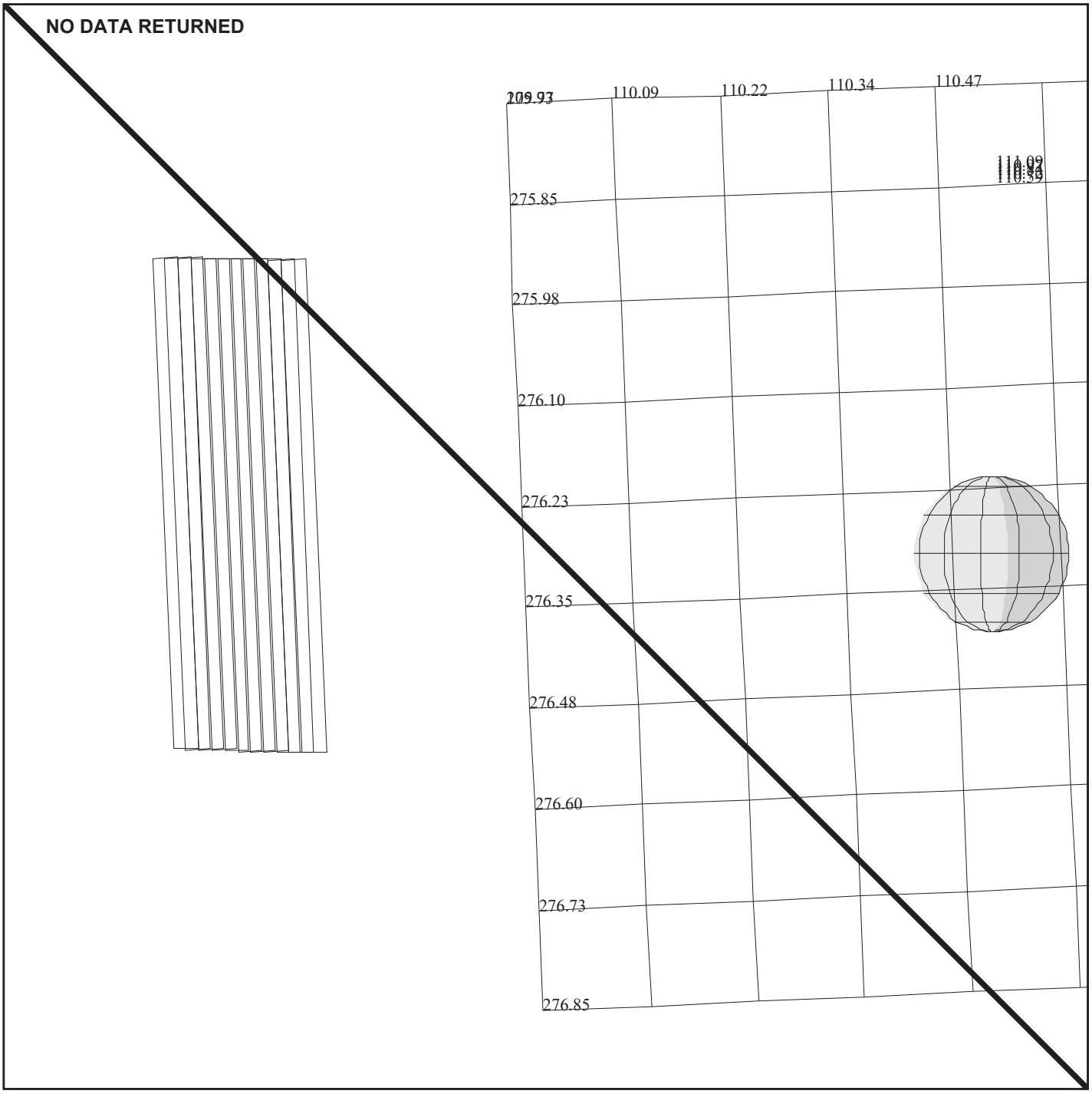
Observation Objective

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

G7 AACS ANOMALY
Data Returned

Design Detail

Long Map (LM), Gain 2, Grating Start 0, R/T, G7RCVY3



165ER:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/0633 TC=15(11.224667 22.876711)
A= 546 pD= 0 SR=17.450 RA50= 22.88 DEC50= 11.22 cone=109.56 clock=276.20
117ER:#SB= 1 OR= 0.010 RR=12.000 BM=F RC= 1 BS= 0/0633
1:#s= 1 Cs= -1.79 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 542 rD= 2

G7INCHEMIS07

DESIGN G3.1 lisac: 4/ 9/1997 14:30:24

FILE:P.G7INCHEMIS07

TARGET BODY : IO

MINI:m.G7INCHEMIS07 **G7 AACS ANOMALY**

S/C EPH:/DATA/NAVIO/T-970320-164.NS

PERIAPSIS: **THINNING:NIM 2**

START:IEE 97-093/21:11:39.733 +CDS 1603:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.150**

OBSERVATION:G7INCHEMIS07 **DESCRIP:Io Dayside Monitoring 07**

MONITORING OF IO'S DAYSIDE

ACTIVITY ID: G7INCHEMIS07-
START TIME: 97-095/00:08:25.733

Activity ID: Orbit G7 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	Calendar Date	04/05/97	Week 14
Start	IEE+CDS	00001599:00:0	97-095/00:08:25.733	IEE+001/02:56:46.000	
End	IEE+CDS	00001606:10:0	97-095/00:15:37.066	IEE+001/03:03:57.333	
Duration		00000007:10:0	000/00:07:11.333	000/00:07:11.333	

Top Label G7INCHEMIS07-
Bottom Label

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

Observation Objective

Dayside monitoring covering wide range of longitudes to look for chemical changes (e.g. SO2 distribution) at resolutions better than ~800 km/nimsel (most observations will have resolutions between 120 and 400 km/nimsel).

G7 AACS ANOMALY
No Data Returned

Design Detail

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

Long map, 102 wavelengths.
Tracks used per orbit: 0.05 to 0.42.
Bits To Ground per orbit: 0.3 to 2.2 Mbits.
Tie with SSI G7ISSMONLO02-

Long Map (LM), Gain 2, Grating Start 0, LPU, G7ILM244B, G7ILM102B

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NIMS Software Load

ACTIVITY ID: G7NNNIMSLD12-
START TIME: 97-095/00:15:43.666

Activity ID: Orbit G7 Target N Inst N OAPEL NIMSLD SeqNo 12 -

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

Time System	CDS	Load ID	Calendar Date	04/05/97	Week 14
Start	GEE-CDS	00000409:71:0	97-095/00:15:43.666	GEE-000/06:54:20.000	
End	GEE-CDS	00000402:81:0	97-095/00:22:41.666	GEE-000/06:47:22.000	
Duration		00000006:81:0	000/00:06:58.000	000/00:06:58.000	

Top Label	G7NNNIMSLD12-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	100	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

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

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

G7 AACS ANOMALY

Design Detail

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

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

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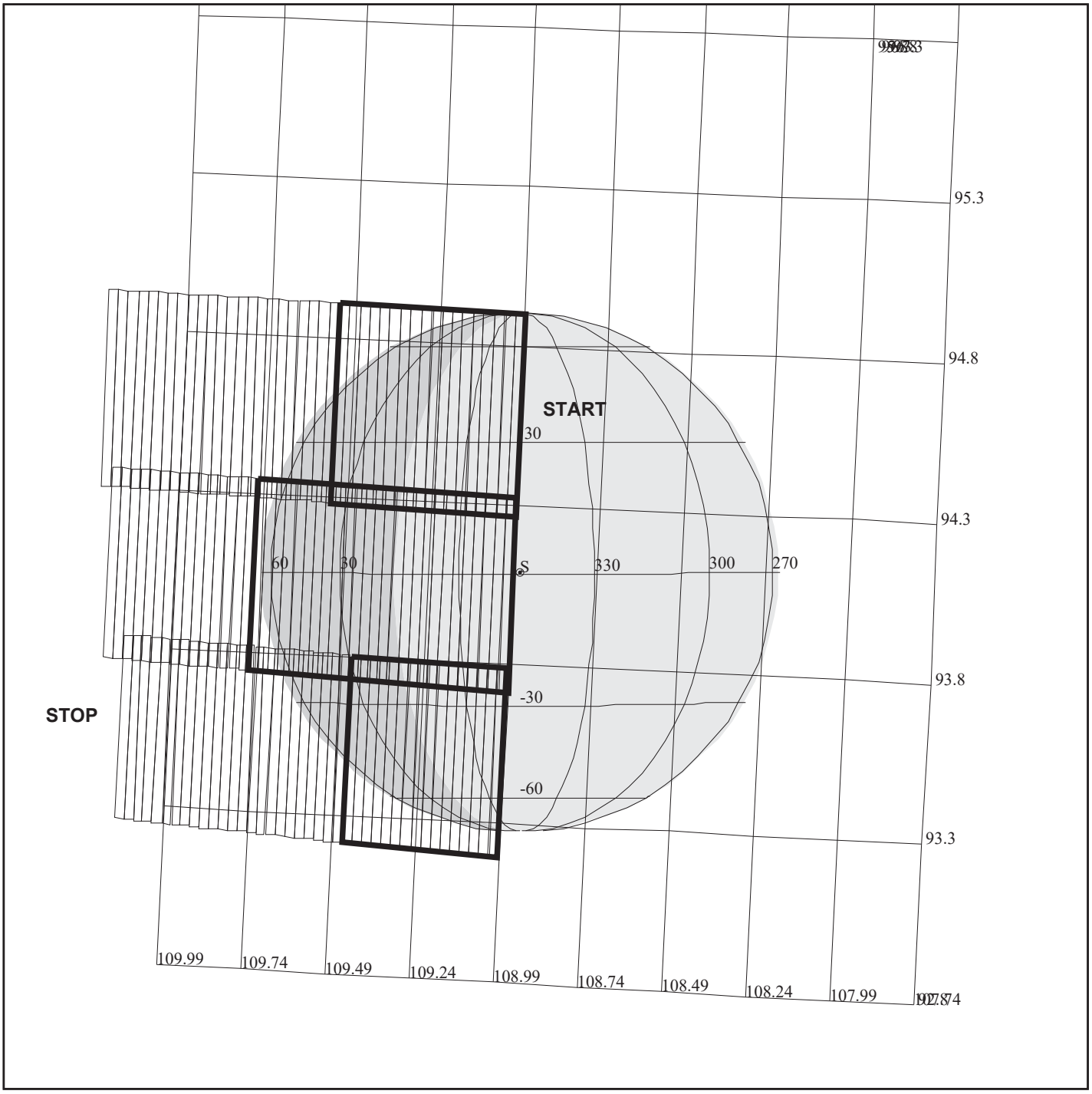

165ES:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/3363 TC=15(-23.029150 241.472378)
A= 728 pD= 6452 SR=17.450 RA50=241.47 DEC50=-23.03 cone=108.99 clock= 94.64
117ES:#SB= 1 OR= 0.030 RR= 9.000 BM=F RC= 1 BS= 0/3363
1:#s= 3 Cs= 21.00 XCs= 0.00 Cr= -21.00 XCr= -9.70 sD= 2104 rD= 20

G7GNGLOBAL01

DESIGN G3.1 lisac: 4/ 9/1997 14:24:10

FILE:P.G7GNGLOBAL01

TARGET BODY : GANYMEDE

MINI:m.G7GNGLOBAL01 **G7 AACS ANOMALY**

S/C EPH:/DATA/NAVIO/T-970320-164.NS

PERIAPSIS: **THINNING:NIM 2**

START:GEE 97-095/07:10:03.666 -CDS 398:00:0 **BODY PLOT TIME:CENTER-TIME D= 6452 S= 0.500**

OBSERVATION:G7GNGLOBAL01 **DESCRIP:Ganymede Global Map 01**

GANYMEDE GLOBAL SURFACE MAP

ACTIVITY ID: G7GNGLOBAL01-
START TIME: 97-095/00:23:22.333

Activity ID: Orbit G7 Target G Inst N OAPEL GLOBAL SeqNo 01 -

Title	GANYMEDE GLOBAL SURFACE MAP			Instrument	NIMS
Requestor	NIMS-SWG/JHUI		Team NIMS	Working Group	SWG

Time System	CDS	Load ID	Calendar Date	04/05/97	Week 14
Start	GEE-CDS	00000402:20:0	97-095/00:23:22.333	GEE-000/06:46:41.333	
End	GEE-CDS	00000362:00:0	97-095/01:04:02.333	GEE-000/06:06:01.333	
Duration		00000040:20:0	000/00:40:40.000	000/00:40:40.000	

Top Label	G7GNGLOBAL01-				
Bottom Label	NIMS				
Plot Key	NIMS	Type	SCI		
CDS Bytes	148	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

To obtain high spectral resolution map of the satellite surface. This observation investigates the surface mineralogy and distribution of compositional units in a global context. The global map can be use to compare Ganymede to the other satellite to look for similarity and differences. The longitude coverage is 260 to 15 degrees.

G7 AACS ANOMALY
Data Returned

Design Detail

This the second of 5 global observations to cover all longitudes. Continuous slew mosaic over lit surface in the longitude range ~260 to 15 degrees. Scan platform slew rate is 0.03 mrad/sec, to achieve Nyquist sampling rate. This observation consists of three swaths, scanning from east to west and north to south.

Spatial resolution: <97> km/NIMSel Phase: <61> degress
Incident angle: <10 to 100> deg. Emission angle: <5 to 90> deg.
NIMS MODE: LM (Long Map) Gain State: 3
Chopper: Reference Grating Start position:0
Grating Offset: 4 # Wavelengths: 204
record and 204 playback Record Format: MPW

Only 3/4 of the observation will be returned from longitudes 305 to 15 degrees.

Long Map (LM), Gain 3, Grating Start 0, LPU, G7GLM244B, G7GLM192

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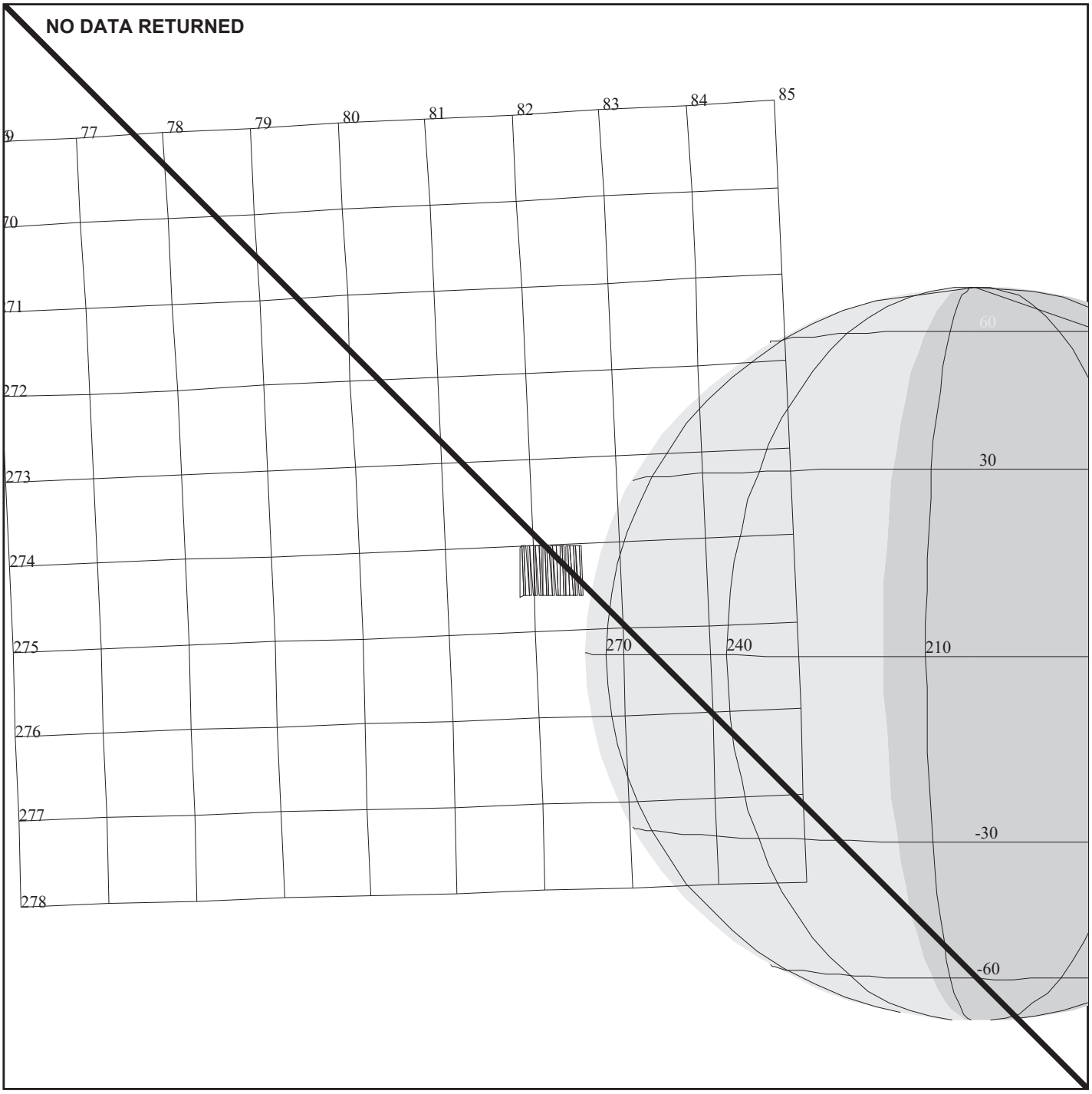


165ET:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/9197 TC=15(21.287966 49.908650)
A= 728 pD= 0 SR=17.450 RA50= 49.91 DEC50= 21.29 cone= 81.85 clock=274.30
117ET:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/9197
1:#s= 1 Cs= 10.80 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 300 rD= 2

G7JNFEX10801

DESIGN G3.1 lisac: 4/ 9/1997 14:17:56

FILE:P.G7JNFEX10801

CENTRAL BODY:JUPITER III

MINI:m.G7JNFEX10801 **G7 AACS ANOMALY**

S/C EPH:/DATA/NAVIO/T-970320-164.NS

PERIAPSIS: **THINNING:NIM 2**

START:JTG 97-095/04:13:07.000 -CDS 136:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750**

OBSERVATION:G7JNFEX10801 **DESCRIP:JUP_FEA_TRK_108_DEG_PHASE_01**

Jupiter Feature Track 108 deg phse pt 1 ACTIVITY ID: G7JNFEX10801-
START TIME: 97-095/01:50:33.000

Activity ID: Orbit G7 Target J Inst N OAPEL FEX108 SeqNo 01 -

Title	Jupiter Feature Track 108 deg phse pt 1	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS Working Group AWG

Time System	CDS	Load ID	Calendar Date 04/05/97 Week 14
Start	JTG-CDS	00000141:00:0	97-095/01:50:33.000 JTG-000/02:22:34.000
End	JTG-CDS	00000121:00:0	97-095/02:10:46.334 JTG-000/02:02:20.666
Duration		00000020:00:0	000/00:20:13.334 000/00:20:13.334

Top Label G7JNFEX10801-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	159	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of 5 OAPELs constituting the partial feature track X for the North Tropical Zone spot number two. This is the first observations obtained on a rotation with phase angle approximately 108 degrees. Jupiter imaged in 4 colors, using NIMS downlink wavelength table JFT04A. This observation acquired with feature near morning terminator, assuming feature coordinates 14 degrees north latitude and 276.6 degrees west longitude (System III).

Note: FEX is at 278.4 degrees West, on the opposite hemisphere from the campaign feature FEA.

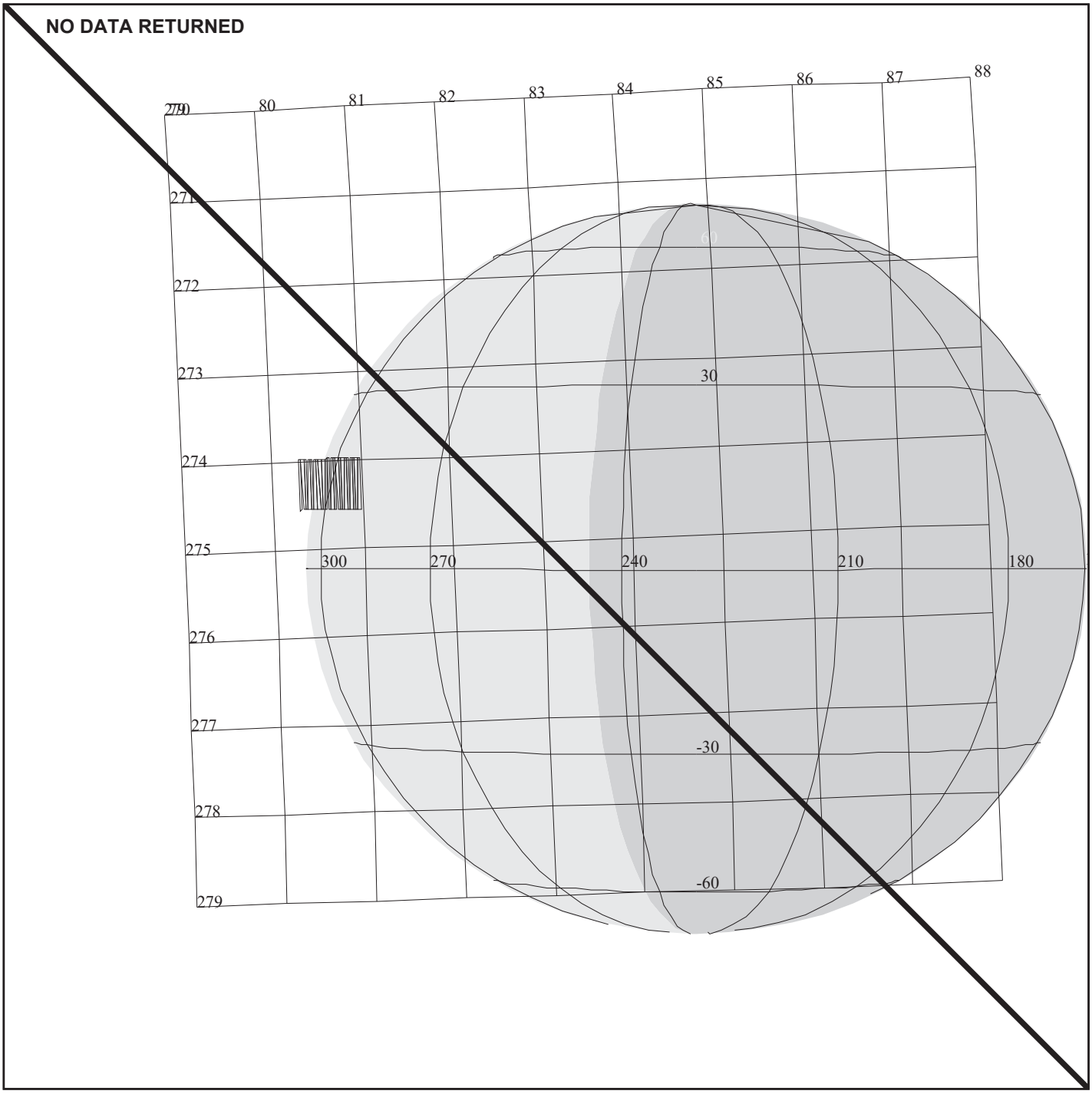
G7 AACS ANOMALY
No Data Returned

Design Detail

Short map, Nyquist-sampled observation of 1*1 (10*10 mrad) area centered on North Tropical Zone feature near 276.6 degrees West longitude, 14 degrees North latitude. S/C distance about 0.90 million KM, NIMS IFOV (NIMSEL) = 450 KM; 1*1 mosaic covers 9000*9000 KM. About 100 seconds of scanning, accumulating 0.02554 mbtg in 4 colors, and using 0.00336 tracks.
Four rims reserved for targetting. This observation referenced to EPOCH JTG. This observation's starting/ending time have been changed to avoid conflict and cover the available time for timing changes in the update period. The observation still has the same design and duration, but the starting time is different JTG-CDS 139.
(Original time is JTG-cds 147 to -cds 141)

Short Map (SM), Gain 2, Grating Start 0, LPU, G7JFT68C, G7JFT04A

Galileo Activity Plan Form 03/17/97 17:37:37 rev 6/95



165EU:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/7751 TC=15(21.673828 51.522199)
A= 728 pD= 0 SR=17.450 RA50= 51.52 DEC50= 21.67 cone= 80.30 clock=274.26
117EU:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/7751
1:#s= 1 Cs= 10.80 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 300 rD= 2

G7JNFEX10802

DESIGN G3.1 lisac: 4/ 9/1997 14:14:52

FILE:P.G7JNFEX10802

CENTRAL BODY:JUPITER III

MINI:m.G7JNFEX10802 — **G7 AACS ANOMALY**

S/C EPH:/DATA/NAVIO/T-970320-164.NS

PERIAPSIS: — **THINNING:NIM 2**

START:JTG 97-095/04:13:07.000 -CDS 89:00:0 — **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750**

OBSERVATION:G7JNFEX10802 — **DESCRIP:JUP_FEA_TRK_108_DEG_PHASE_02**

Jupiter Feature Track 108 deg phse pt 2 ACTIVITY ID: G7JNFEX10802-
START TIME: 97-095/02:38:04.334

Activity ID: Orbit G7 Target J Inst N OAPEL FEX108 SeqNo 02 -

Title	Jupiter Feature Track 108 deg phse pt 2	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team NIMS Working Group	AWG

Time System	CDS	Load ID	Calendar Date 04/05/97 Week 14
Start	JTG-CDS	00000094:00:0 97-095/02:38:04.334	JTG-000/01:35:02.666
End	JTG-CDS	00000086:00:0 97-095/02:46:09.667	JTG-000/01:26:57.333
Duration		00000008:00:0 000/00:08:05.333	000/00:08:05.333

Top Label G7JNFEX10802-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	98	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of 5 OAPELs constituting the partial feature track X for the North Tropical Zone spot number two. This is the second observation obtained on a rotation with phase angle approximately 108 degrees. Jupiter imaged in 4 colors, using NIMS downlink wavelength table JFT04A. This observation acquired with Brown Barge feature near minimum airmass, assuming feature coordinates 14 degrees north latitude and 276.6 degrees west longitude (System III). Original Times: Start CDS = 916:80 End CDS = 922:44
Duration = 5:55
Note: FEX is at 276.6 degrees West, the opposite hemisphere from the campaign feature FEA.

G7 AACS ANOMALY
No Data Returned

Design Detail

Short map, Nyquist-sampled observation of 1*1 (10*10 mrad) area centered on North Tropical Zone feature near 276.6 degrees West longitude, 14 degrees North latitude. S/C distance about 0.89 million KM, NIMS IFOV (NIMSEL) = 445 KM; 1*1 mosaic covers 8900*8900 KM. About 100 seconds of scanning, accumulating 0.02554 mbtg in 4 colors, and using 0.00336 tracks.
Four rims reserved for targetting. This observation referenced to EPOCH JTG. This observation's ending time has been extended to cover the available time for timing changes in the update period. The observation still has the same starting time, design and duration.
(Original time is JTG-CDS 100 to -CDS 94)

Short Map (SM), Gain 2, Grating Start 1, LPU, G7JFT68C, G7JFT04A

Galileo Activity Plan Form 03/17/97 17:37:37 rev 6/95

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NIMS Software Reload

ACTIVITY ID: G7NNNIMSLD13-
START TIME: 97-095/03:13:27.667

Activity ID: Orbit G7 Target N Inst N OAPEL NIMSLD SeqNo 13 -

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

NIMS AWG

Time System CDS Load ID Calendar Date 04/05/97 Week 14

Start	JTG-CDS	00000059:00:0	97-095/03:13:27.667	JTG-000/00:59:39.333
End	JTG-CDS	00000049:00:0	97-095/03:23:34.334	JTG-000/00:49:32.666
Duration		00000010:00:0	000/00:10:06.667	000/00:10:06.667

Top Label G7NNNIMSLD13-
Bottom Label

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

Observation Objective

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

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

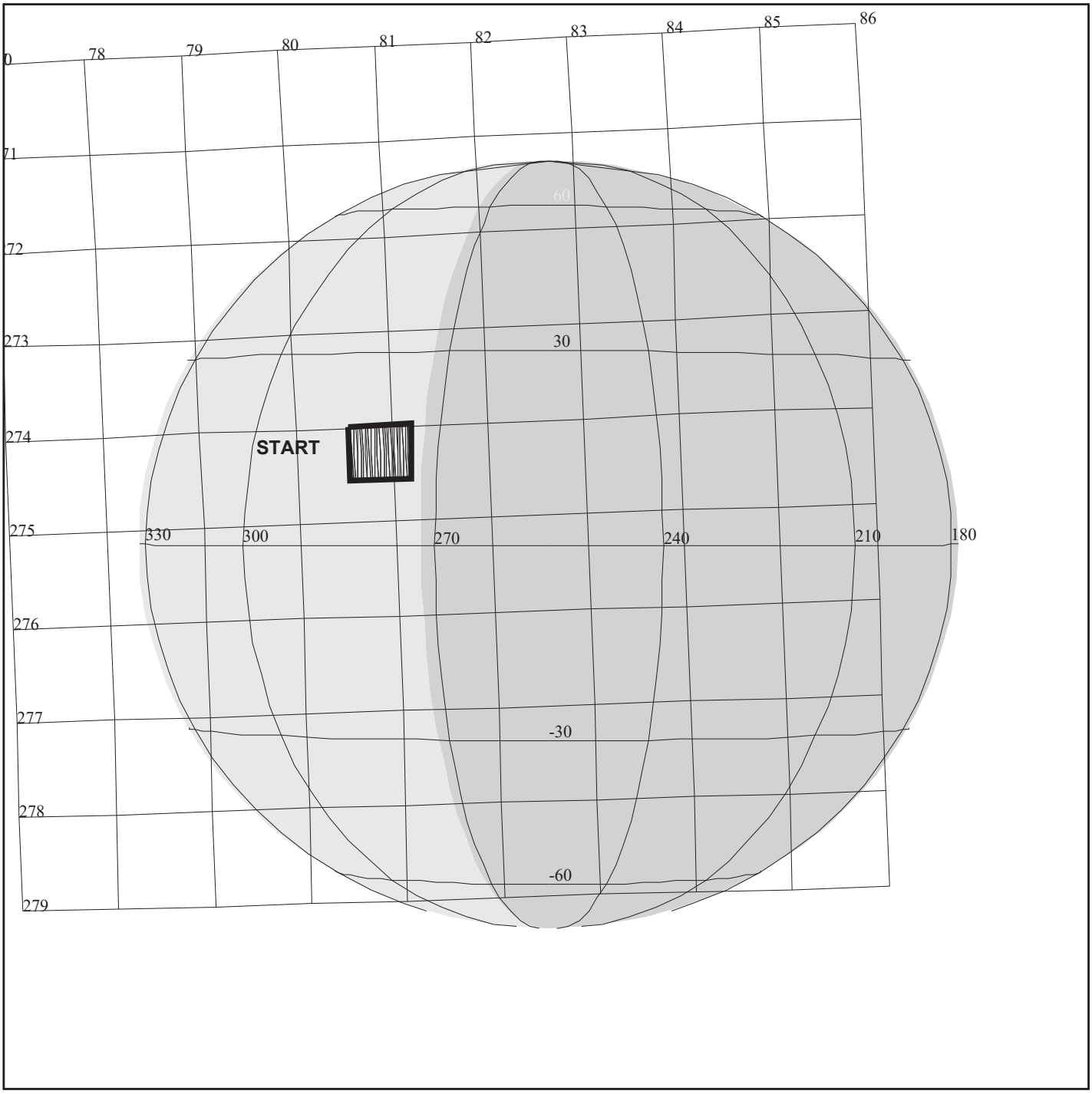
G7 AACS ANOMALY

Design Detail

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

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

Galileo Activity Plan Form 03/17/97 17:37:37 rev 6/95



165EV:TT= 0 TMC= 1 C= -5.40 XC= 0.00 BS= 0/5941 TC= 1(14 278.4)
A= 728 pD= 0 SR=17.450 RA50= 51.26 DEC50= 21.60 cone= 80.55 clock=274.27
117EV:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/5941
1:#s= 1 Cs= 10.80 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 300 rD= 2

G7JNFEX10803

TARGET G3.1 lisac: 5/ 6/1997 12:10: 0

FILE:P.G7JNFEX10803

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS **F_R_O_Z_E_N___T_M_C**

PERIAPSIS: **THINNING:NIM 2**

START:JTG 97-095/04:13:07.000 -CDS 44:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750**

OBSERVATION:G7JNFEX10803 **DESCRIP:JUP_FEA_TRK_108_DEG_PHASE_03**

Jupiter Feature Track 108 deg phse pt 3 ACTIVITY ID: G7JNFEX10803-
START TIME: 97-095/03:24:21.667

Activity ID: Orbit G7 Target J Inst N OAPEL FEX108 SeqNo 03 -

Title	Jupiter Feature Track 108 deg phse pt 3	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS Working Group AWG

Time System	CDS	Load ID	Calendar Date	04/05/97	Week 14
Start	JTG-CDS	00000048:20:0	97-095/03:24:21.667	JTG-000/00:48:45.333	
End	JTG-CDS	00000034:00:0	97-095/03:38:44.334	JTG-000/00:34:22.666	
Duration		00000014:20:0	000/00:14:22.667	000/00:14:22.667	

Top Label G7JNFEX10803-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	98	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of 5 OAPELs constituting the partial feature track X for the North Tropical Zone spot number two. This is the third observation obtained on a rotation with phase angle approximately 108 degrees. Jupiter imaged in 25 colors, using NIMS downlink wavelength table JFT25A. This observation acquired with Brown Barge feature near the evening terminator, assuming feature coordinates 14 degrees north latitude and 276.6 degrees west longitude (System III).
Note: FEX is at 276.6 degrees West, the opposite hemisphere from the campaign feature FEA.

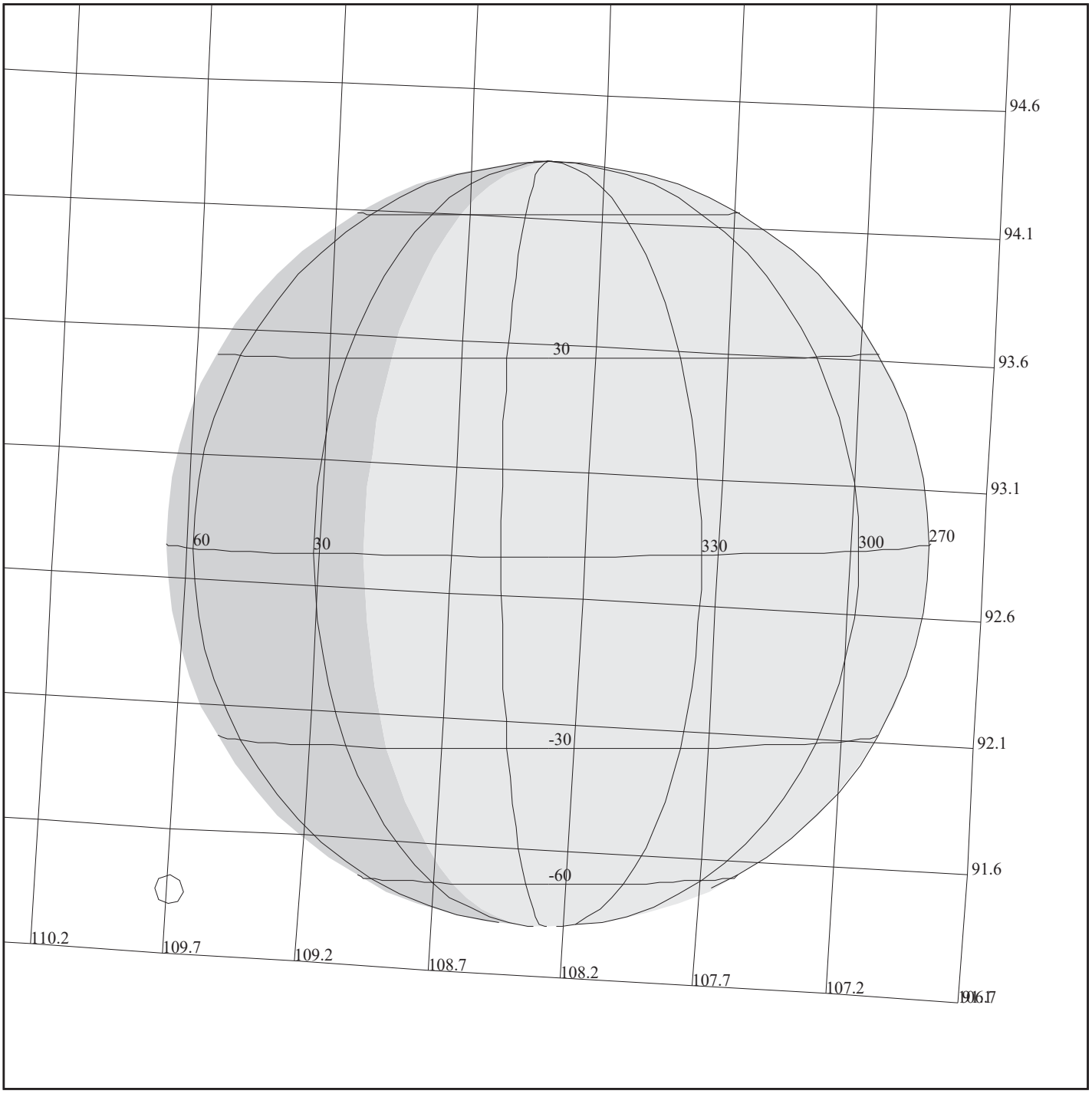
Data Returned

Design Detail

Short map, Nyquist-sampled observation of 1*1 (10*10 mrad) area centered on North Tropical Zone feature near 276.6 degrees West longitude, 14 degrees North latitude. S/C distance about 0.90 million KM, NIMS IFOV (NIMSEL) = 450 KM; 1*1 mosaic covers 9000*9000 KM. About 100 seconds of scanning, accumulating 0.02554 mbtg in 25 colors, and using 0.00336 tracks.
Four rims reserved for targetting. This observation referenced to EPOCH JTG. This observation's ending time has been extended to cover the available time for timing changes in the update period. The observation still has the same starting time, design and duration.
(Original time is JTF-cds 48 to -cds 42)

Short Map (SM), Gain 2, Grating Start 1, LPU, G7JFT68C, G7FJT19A

Galileo Activity Plan Form 03/17/97 17:37:37 rev 6/95



165HC:TT= 0 TMC= 1 C= 5.50 XC= 24.50 BS= 0/8307 TC= 3
A= 728 pD= 0 SR=17.450 RA50=241.13 DEC50=-23.31 cone=108.67 clock= 94.35
117HC:#SB= 1 OR= 0.430 RR= 9.400 BM=F RC= 1 BS= 0/8307
1:#s= 45 Cs= 22.50 XCs= 0.00 Cr= -22.65 XCr= -1.55 sD= 164 rD= 18

G7NNHEALTH06

TARGET G3.1 lisac: 5/ 6/1997 14:36: 6

FILE:P.G7GPDRKMAP01

TARGET BODY : GANYMEDE

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS **F_R_O_Z_E_N___T_M_C**

PERIAPSIS: **THINNING: :PPR 1**

START:GEE 97-095/07:10:03.666 -CDS 206:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.700**

OBSERVATION:G7GPDRKMAP01 **DESCRIP:Ganymede Dark Map 1**

NIMS Health Observation

ACTIVITY ID: G7NNHEALTH06-
START TIME: 97-095/04:09:04.266

Activity ID: Orbit G7 Target N Inst N OAPEL HEALTH SeqNo 06 -

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

Time System	CDS	Load ID		Calendar Date	04/05/97 Week 14
Start	JTD-CDS	00000873:00:0	97-095/04:09:04.266		JTD-000/14:42:42.000
End	JTD-CDS	00000868:00:0	97-095/04:14:07.600		JTD-000/14:37:38.666
Duration		00000005:00:0	000/00:05:03.334		000/00:05:03.334

Top Label G7NNHEALTH06-
Bottom Label

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

Observation Objective

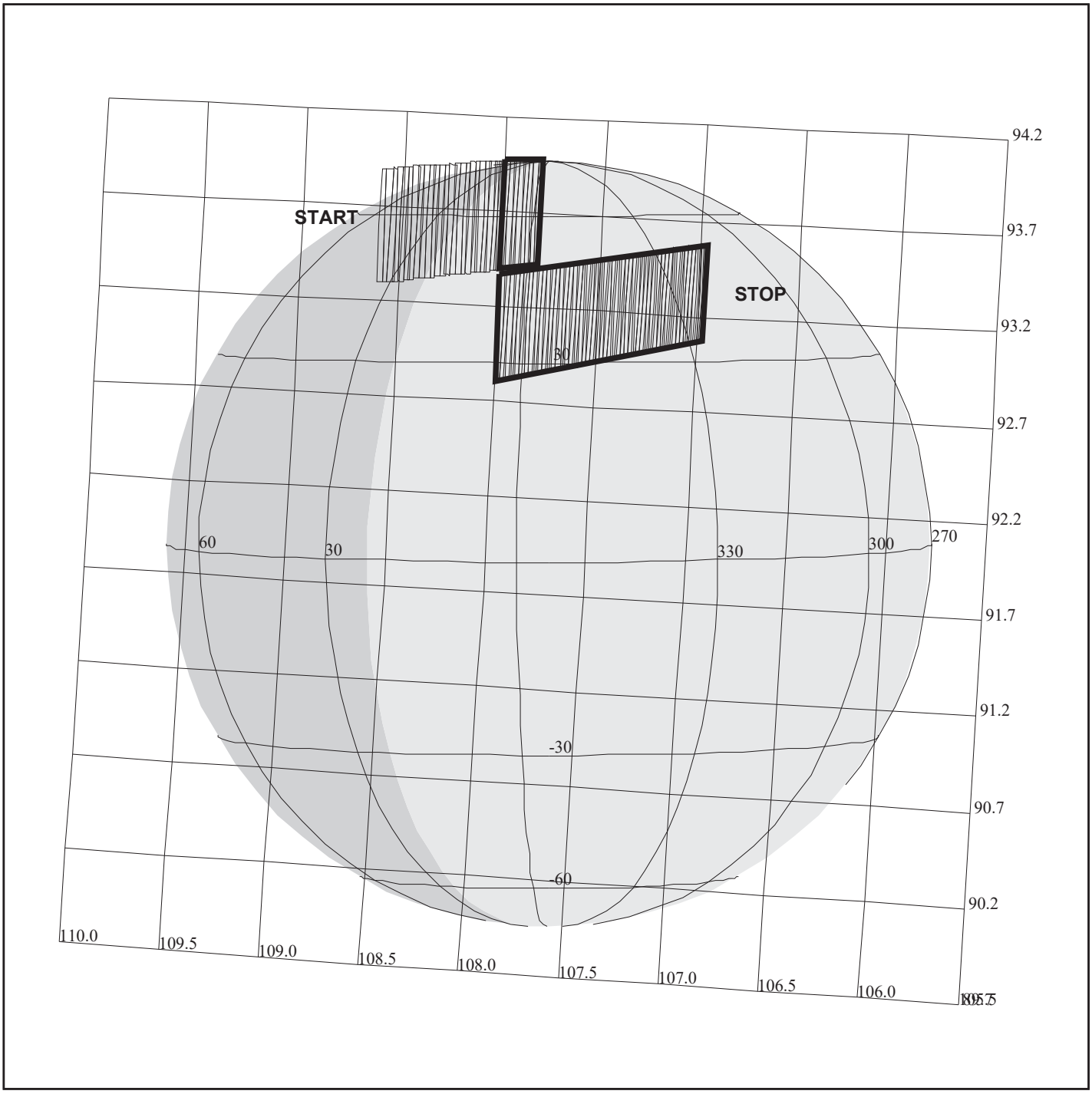
Required to verify instrument operation. These observations provide a 3 detector view of the instrument. The detectors are selected such that a bright and a dark channel will exist for either a satellite or Jupiter for a target. The observations are spaced frequently to monitor the health of the NIMS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

Data Returned

Design Detail

Long Map (LM), Gain 2, Grating Start 0, R/T, G7RCVY3

Galileo Activity Plan Form 03/17/97 17:37:37 rev 6/95



165FV:TT= 0 TMC= 1 C= 19.70 XC= 6.00 BS= 0/7589 TC= 1(40 345)
A= 728 pD= 0 SR=17.450 RA50=240.93 DEC50=-23.98 cone=108.64 clock= 93.57
117FV:#SB= 2 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/7589
1:#s= 1 Cs= -16.30 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 1638 rD= 2
2:#s= 1 Cs= -25.00 XCs= 0.00 Cr= 3.00 XCr= -11.00 sD= 2514 rD= 32

G7GNNHILAT01

TARGET G3.1 lisac: 5/ 6/1997 14:36: 6

FILE:P.G7GNNHILAT01

TARGET BODY : GANYMEDE

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS **F_R_O_Z_E_N___T_M_C**

PERIAPSIS: **THINNING:NIM 2**

START:GEE 97-095/07:10:03.666 -CDS 155:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.700**

OBSERVATION:G7GNNHILAT01 **DESCRIP:Ganymede_N._High_Lat_Reg_Map**

Ganymede North High Latitude Region Map ACTIVITY ID: G7GNNHILAT01-
START TIME: 97-095/04:28:17.000

Activity ID: Orbit G7 Target G Inst N OAPEL NHILAT SeqNo 01 -

Title	Ganymede North High Latitude Region Map	Instrument	NIMS
Requestor	NIMS-SWG/J. Hui 3-1224	Team	NIMS Working Group SWG

Time System	CDS	Load ID	Calendar Date	04/05/97	Week 14
Start	GEE-CDS	00000160:00:0	97-095/04:28:17.000	GEE-000/02:41:46.666	
End	GEE-CDS	00000125:00:0	97-095/05:03:40.333	GEE-000/02:06:23.333	
Duration		00000035:00:0	000/00:35:23.333	000/00:35:23.333	

Top Label	G7GNNHILAT01-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	0	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Joint observation with UVS to study Ganymede's high latitude region and to study composition distribution and high latitude effects, such as the polar shroud.

Data Returned

Design Detail

Target center is longitude 345 degrees, latitude is 40 degrees north. NIMS in LM, slew rate 0.03 mrad/sec. CSMOS duration is 23 RIMS.

Record mode = LPU.
Playback = 204 wavelengths.
Gain state = 3.
Only the second swath will be played back.

Long Map (LM), Gain 3, Grating Start 0, LPU, G7GLM244H, G7GLM192

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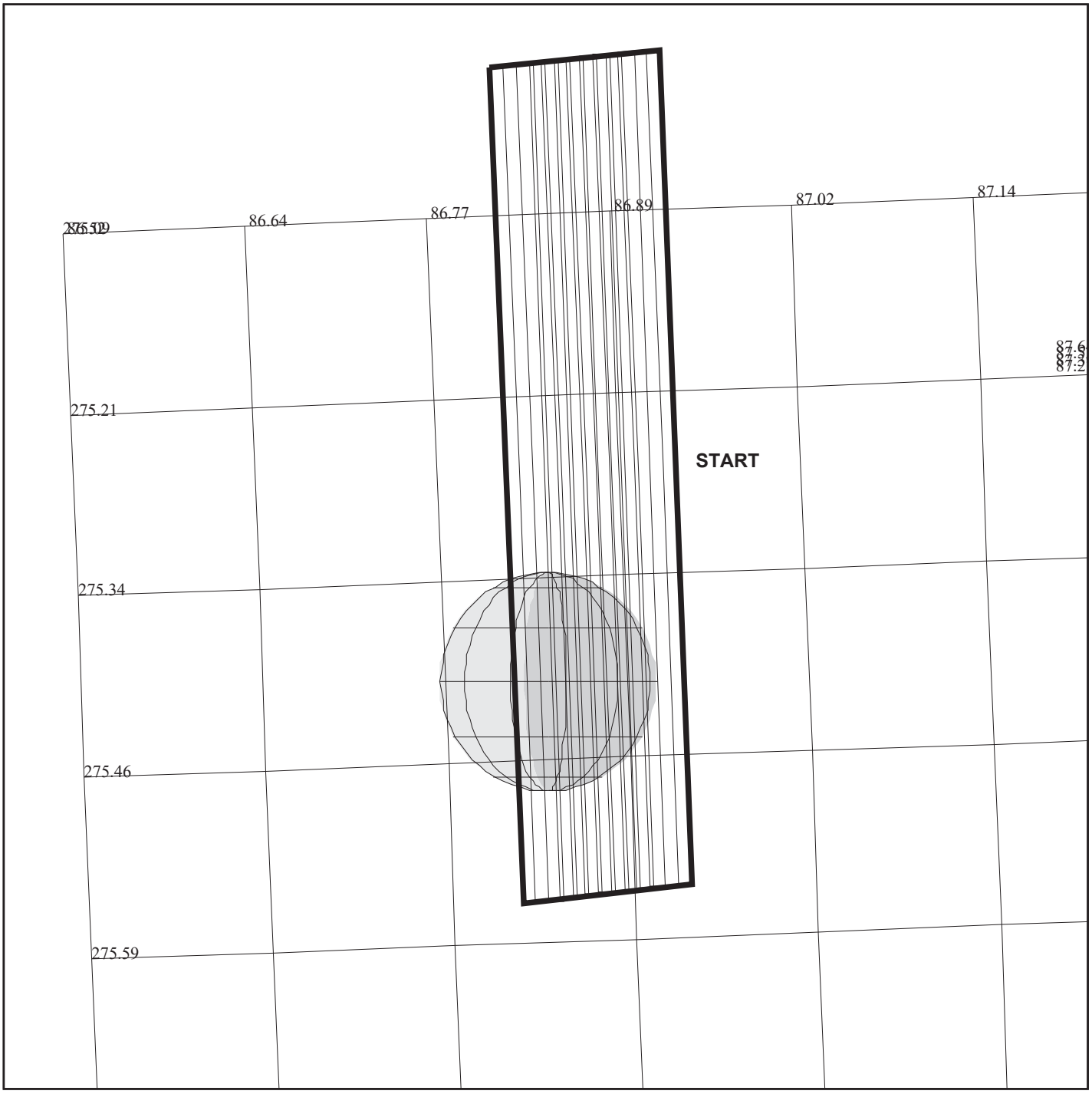

165EW:TT= 0 TMC= 1 C= 1.40 XC= -2.50 BS= 0/4141 TC= 3
A= 728 pD= 0 SR=17.450 RA50= 44.91 DEC50= 19.13 cone= 86.92 clock=275.26
117EW:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/4141
1:#s= 1 Cs= -5.50 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 554 rD= 2

G7INTHRMAL06

TARGET G3.1 lisac: 5/ 6/1997 14:36: 6

FILE:P.G7INTHRMAL06

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS **F_R_O_Z_E_N___T_M_C**

PERIAPSIS: **THINNING:NIM 2**

START:IEE 97-093/21:11:39.733 +CDS 1897:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.200**

OBSERVATION:G7INTHRMAL06 **DESCRIP:Io Nightside Monitoring 06**

MONITORING OF IO'S NIGHTSIDE — ACTIVITY ID: G7INTHRMAL06-
START TIME: 97-095/05:04:41.066

Activity ID: Orbit G7 Target I Inst N OAPEL THRMAL SeqNo 06 -

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

Time System	CDS	Load ID		Calendar Date	04/05/97 Week 14
Start	IEE+CDS	00001892:00:0	97-095/05:04:41.066		IEE+001/07:53:01.333
End	IEE+CDS	00001903:00:0	97-095/05:15:48.399		IEE+001/08:04:08.666
Duration		00000011:00:0	000/00:11:07.333		000/00:11:07.333

Top Label	G7INTHRMAL06-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	156	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

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.

Data Returned

Design Detail

Partial or full disk mosaics within C/A + or - 32 hours in all orbits. High priority orbits are G1, C3, and C10 because these have the highest longitudinal coverage and orbits G7 and G8 because these have the best nighttime resolution for LOKI.

Instrument mode: Long Map,
Number of Wavelengths: 102,
Tracks used per orbit: 0.01 to 0.1,
Bits To Ground used per orbit: 0.01 to 0.5 Mbits.

Long Map (LM), Gain 4, Grating Start 0, LPU, G7ILMDK244B, G7ILMDK216B

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NIMS Software Load

ACTIVITY ID: G7NNNIMSLD14-
START TIME: 97-095/06:06:21.666

Activity ID: Orbit G7 Target N Inst N OAPEL NIMSLD SeqNo 14 -

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

Time System	CDS	Load ID	Calendar Date	04/05/97	Week 14
Start	GTE-CDS	00000063:00:0	97-095/06:06:21.666	GTE-000/01:03:42.000	
End	GTE-CDS	00000053:80:0	97-095/06:15:35.000	GTE-000/00:54:28.666	
Duration		00000009:11:0	000/00:09:13.334	000/00:09:13.334	

Top Label	G7NNNIMSLD14-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	100	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

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

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

Design Detail

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

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

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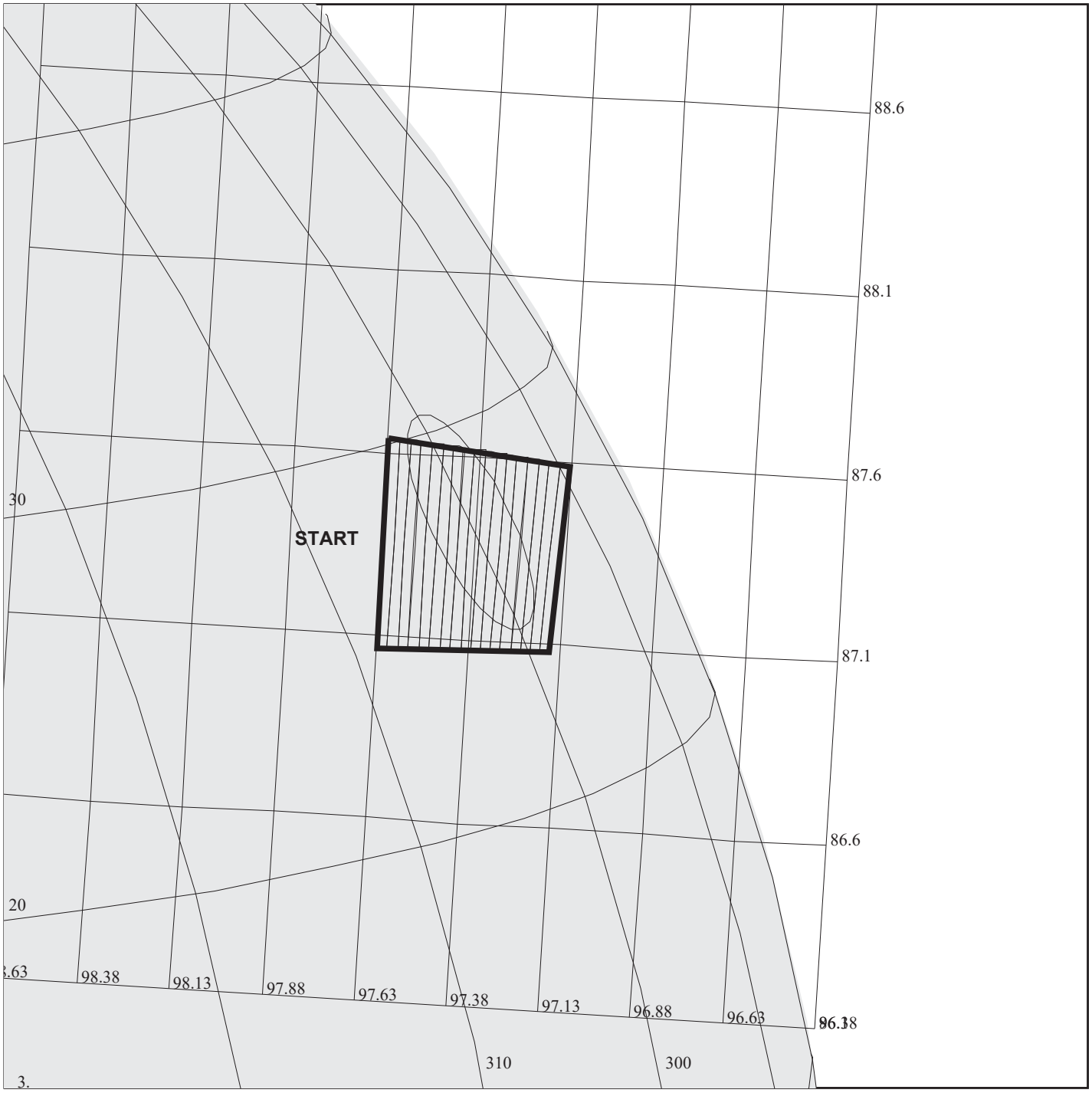

165EX:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/6881 TC= 1(27.5 305.0)
A= 728 pD= 854 SR=17.450 RA50=227.63 DEC50=-27.85 cone= 97.62 clock= 87.38
117EX:#SB= 1 OR= 0.030 RR= 0.010 BM=F RC= 1 BS= 0/6881
1:#s= 1 Cs= -8.50 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 854 rD= 2

G7GNBRITRL01

TARGET G3.1 lisac: 5/ 6/1997 15: 3:44

FILE:P.G7GNBRITRL01

TARGET BODY : GANYMEDE

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS **F_R_O_Z_E_N___T_M_C**

PERIAPSIS: **THINNING:NIM 2**

START:GTE 97-095/07:10:03.666 -CDS 49:00:0 **BODY PLOT TIME:TARGET-TIME D= 854 S= 4.000**

OBSERVATION:G7GNBRITRL01 **DESCRIP:Crater on bright/dark boundary**

BRIGHT ENDMEMBER FROM TRAIL HEMISPHERE ACTIVITY ID: G7GNBRITRL01-
START TIME: 97-095/06:15:54.333

Activity ID: Orbit G7 Target G Inst N OAPEL BRITRL SeqNo 01 -

Title	BRIGHT ENDMEMBER FROM TRAIL HEMISPHERE	Instrument	NIMS
Requestor	NIMS-SWG/JHUI	Team NIMS	Working Group SWG

Time System	CDS	Load ID	Calendar Date 04/05/97 Week 14
Start	GTE-CDS 00000053:51:0	97-095/06:15:54.333	GTE-000/00:54:09.333
End	GTE-CDS 00000044:00:0	97-095/06:25:34.333	GTE-000/00:44:29.333
Duration	00000009:51:0	000/00:09:40.000	000/00:09:40.000

Top Label	G7GNBRITRL01-				
Bottom Label	NIMS				
Plot Key	NIMS	Type	SCI		
CDS Bytes	179	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Unmixing of global spectra will require endmember spectra of both dark and bright material. This can vary due to radiation damage on the trailing hemisphere. This observation looks at the bright material, which is for global unmixing as well as identifying radiation products on the trailing hemisphere.

Data Returned

Design Detail

One continuous slew across the bright area of latitude 25.5 to 27.5 degrees and longitude 294.5 to 305 degrees. The slew rate is 0.03 mrad/sec.

Spatial resolution: <11 km/NIMSel>	Phase: <74 deg>
Incident angle: <27-30 deg>	Emission angle: <63-74deg>
NIMS: Mode:LM	Gain: 3
Chopper:Reference	Grating Start Postion: 0
Grating offset: 4	# Wavelengths: 408 recorded and 408 playback
Record Format: MPW	

Long Map (LM), Gain 3, Grating Start 0, MPW, G7GLM442, G7GLM360

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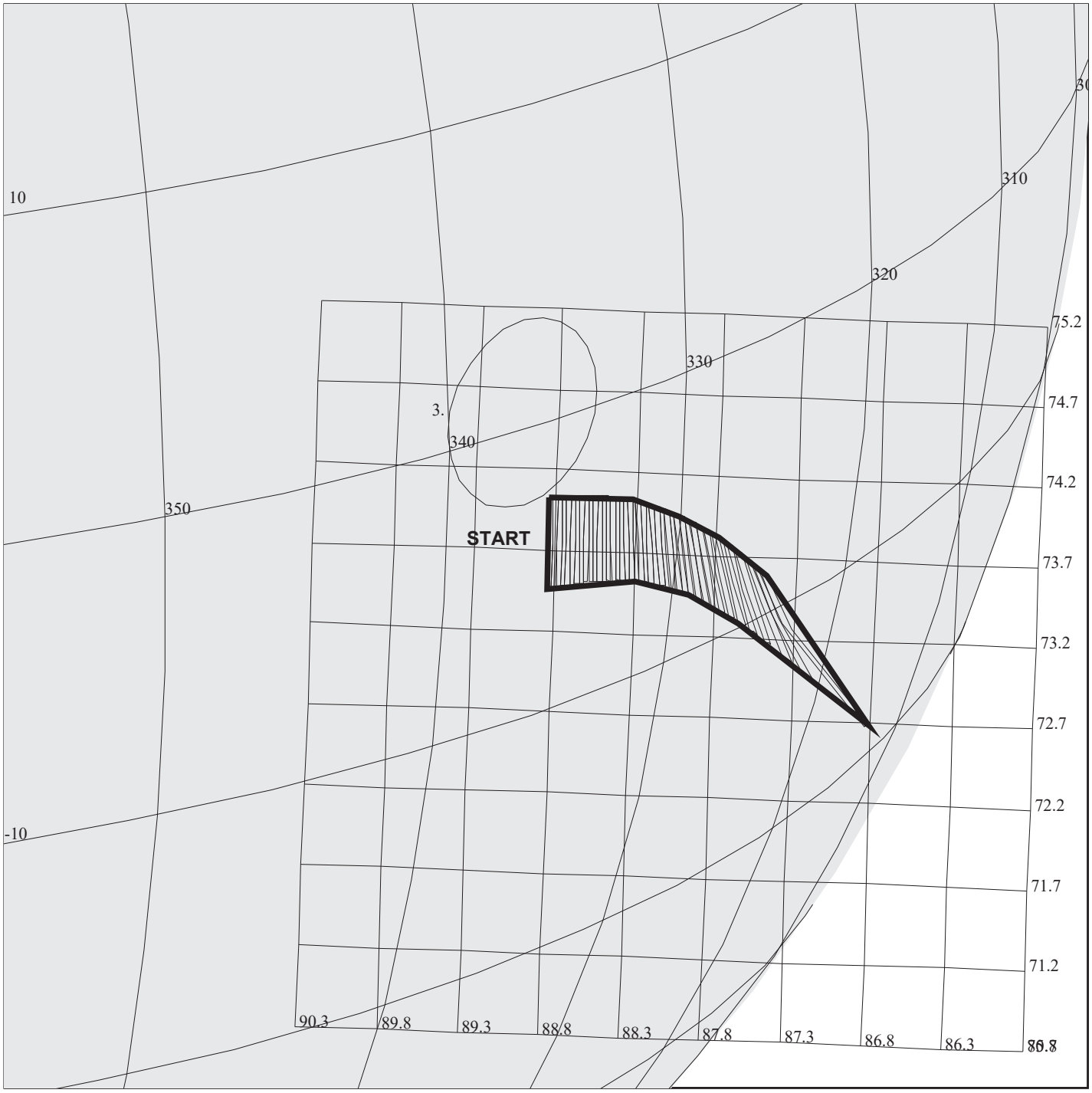

165EY:TT= 0 TMC= 1 C= 10.00 XC= 0.00 BS= 0/0885 TC= 1(0.5 337.0)
A= 182 pD= 2102 SR=17.450 RA50=212.96 DEC50=-38.40 cone= 88.83 clock= 73.78
117EY:#SB= 1 OR= 0.030 RR= 0.010 BM=F RC= 1 BS= 0/0885
1:#s= 1 Cs= -20.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 2102 rD= 2

G7GNKITTU_01

TARGET G3.1 lisac: 5/ 6/1997 15: 3:44

FILE:P.G7GNKITTU_01

TARGET BODY : GANYMEDE

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS **F_R_O_Z_E_N___T_M_C**

PERIAPSIS: **THINNING:NIM 2**

START:GTE 97-095/07:10:03.666 -CDS 27:00:0 **BODY PLOT TIME:TARGET-TIME D= 2102 S= 3.000**

OBSERVATION:G7GNKITTU_01 **DESCRIP:DARK RAYED CRATER**

Dark Rayed crater KITTU

ACTIVITY ID: G7GNKITTU_01-
START TIME: 97-095/06:40:44.333

Activity ID: Orbit G7 Target G Inst N OAPEL KITTU_ SeqNo 01 -

Title	Dark Rayed crater KITTU			Instrument	NIMS
Requestor	NIMS-SWG/JHUI	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	Calendar Date	04/05/97	Week 14
Start	GTE-CDS	00000029:00:0	97-095/06:40:44.333	GTE-000/00:29:19.333	
End	GTE-CDS	00000015:00:0	97-095/06:54:53.666	GTE-000/00:15:10.000	
Duration		00000014:00:0	000/00:14:09.333	000/00:14:09.333	

Top Label G7GNKITTU_01-
Bottom Label NIMS

Plot Key	NIMS	Type	SCI		
CDS Bytes	158	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Study modification of material in impact crater Kittu, mineralogy of impactor, modification of area adjacent to moderate albedo units.

Data Returned

Design Detail

One Continuos slew across the crater Kittu at latitude=-0.5 deg and longitude=335 deg.

Slew rate is 0.03 mrad/sec.	Spatial resolution: <5 km/nimsel>
Phase: <80-97 deg>	Incident angle: < 37-44 deg>
Emission angel: <39-61 deg>	NIMS Mode: LM
Gain: 3	Chopper:Reference
Grating Start Position: 0	Grating offset:4
# wavelengths: 204 recorded and 204 playback	Record Format: MPW

Long Map (LM), Gain 3, Grating Start 0, MPW, G7GLM442, G7GLM360

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AWG Feature Track Window No. 3 ACTIVITY ID: G7JNAWGWIN03
START TIME: 97-095/09:53:51.667

Activity ID: Orbit G7 Target J Inst N OAPEL AWGWIN SeqNo 03

Title	AWG Feature Track Window No. 3			Instrument	NIMS
Requestor	NIMS-AWG/J. CULWELL		Team RSSG	Working Group	AWG

Time System	EPOCH	Load ID G7A	Calendar Date	04/05/97	Week 14
Start	JEE+CDS	00001354:90:0	97-095/09:53:51.667	JEE+000/22:50:03.267	
End	JEE+CDS	00001921:74:0	97-095/19:26:58.400	JEE+001/08:23:10.000	
Duration		00000566:75:0	000/09:33:06.733	000/09:33:06.733	

Top Label
Bottom Label

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

Observation Objective

This window is designed to protect AWG observations if there is target time adjustments before the final sequence integration.

Design Detail

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NIMS Software Load

ACTIVITY ID: G7NNNIMSLD15-
START TIME: 97-095/14:09:40.332

Activity ID: Orbit G7 Target N Inst N OAPEL NIMSLD SeqNo 15 -

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

Time System	CDS	Load ID	Calendar Date	04/05/97	Week 14
Start	GEE+CDS	00000415:00:0	97-095/14:09:40.332	GEE+000/06:59:36.666	
End	GEE+CDS	00000425:00:0	97-095/14:19:46.999	GEE+000/07:09:43.333	
Duration		00000010:00:0	000/00:10:06.667	000/00:10:06.667	

Top Label	G7NNNIMSLD15-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	0	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

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

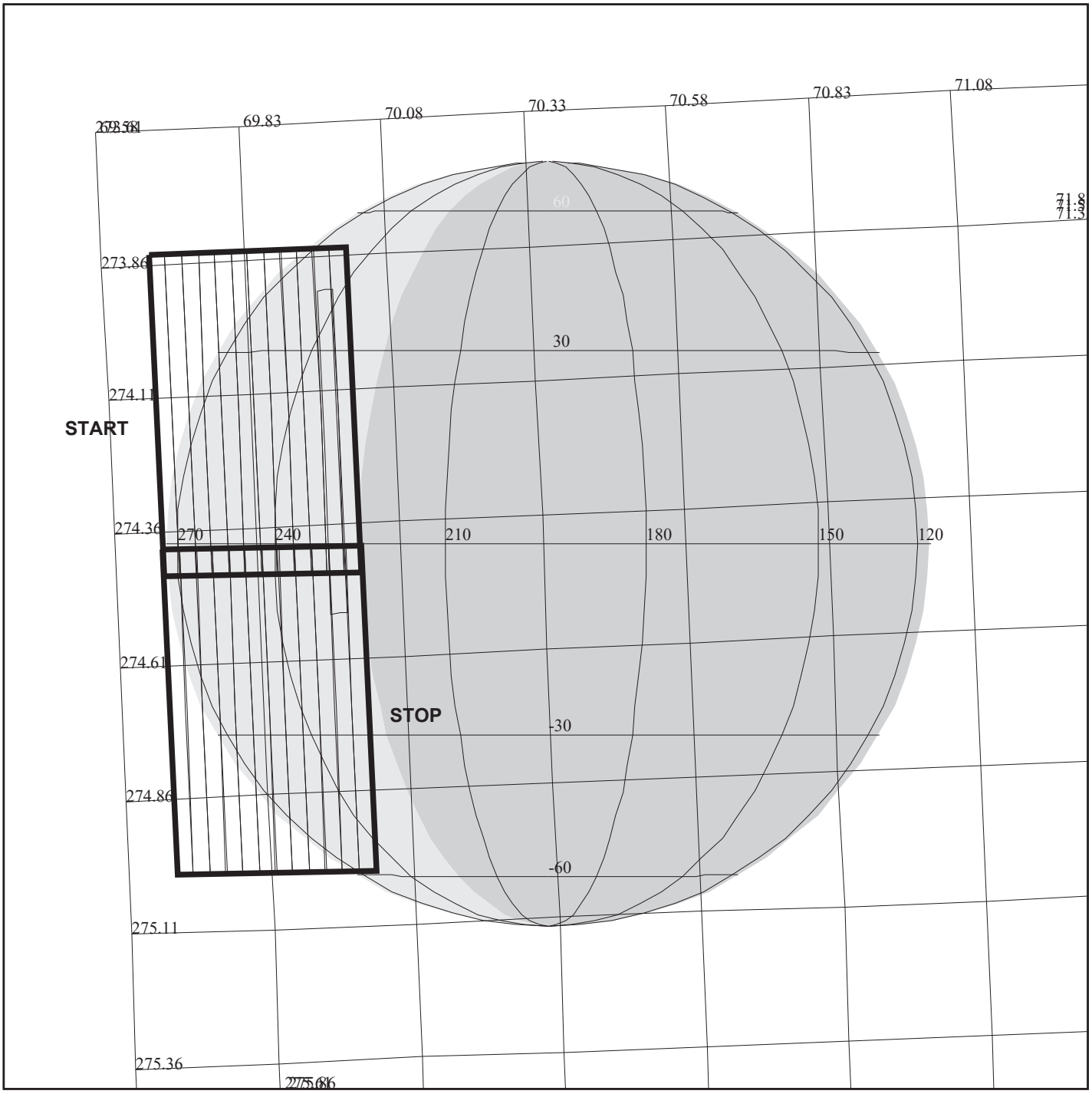
Memory load from CDS to NIMS and restart.
Diagnostic checksum, processor halt, memory reload from CDS,
instrument restart, and operational mode set.

Design Detail

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

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

Galileo Activity Plan Form 03/17/97 17:37:38 rev 6/95



165FC:TT= 0 TMC= 1 C= -12.20 XC= -4.50 BS= 0/4059 TC= 3
A= 728 pD= 1288 SR=17.450 RA50= 62.86 DEC50= 23.67 cone= 69.65 clock=274.16
117FC:#SB= 1 OR= 0.030 RR= 2.000 BM=F RC= 1 BS= 0/4059
1:#s= 2 Cs= 6.28 XCs= 0.00 Cr= -6.30 XCr= 9.00 sD= 632 rD= 24

G7GNGLOBAL02

TARGET G3.1 lisac: 5/ 6/1997 15: 3:44

FILE:P.G7GNGLOBAL02

TARGET BODY : GANYMEDE

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS **F_R_O_Z_E_N___T_M_C**

PERIAPSIS: **THINNING:NIM 2**

START:GEE 97-095/07:10:03.666 +CDS 430:00:00 **BODY PLOT TIME:END-TIME D= 1288 S= 0.700**

OBSERVATION:G7GNGLOBAL02 **DESCRIP:Ganymede Global Map 02**

GANYMEDE GLOBAL SURFACE MAP

ACTIVITY ID: G7GNGLOBAL02-
START TIME: 97-095/14:20:34.332

Activity ID: Orbit G7 Target G Inst N OAPEL GLOBAL SeqNo 02 -

Title	GANYMEDE GLOBAL SURFACE MAP	Instrument	NIMS
Requestor	NIMS-SWG/JHUI	Team NIMS	Working Group SWG

Time System	CDS	Load ID	Calendar Date	04/05/97	Week 14
Start	GEE+CDS	00000425:71:0	97-095/14:20:34.332	GEE+000/07:10:30.666	
End	GEE+CDS	00000438:00:0	97-095/14:32:55.666	GEE+000/07:22:52.000	
Duration		00000012:20:0	000/00:12:21.334	000/00:12:21.334	

Top Label	G7GNGLOBAL02-				
Bottom Label	NIMS				
Plot Key	NIMS	Type	SCI		
CDS Bytes	166	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

To obtain high spectral resolution map of the satellite surface. This observation investigates the surface mineralogy and distribution of compositional units in a global context. The global map can be use to compare Ganymede to the other satellites to look for similarity and differences. The longitude coverage is 225 to 270 degrees.

Data Returned

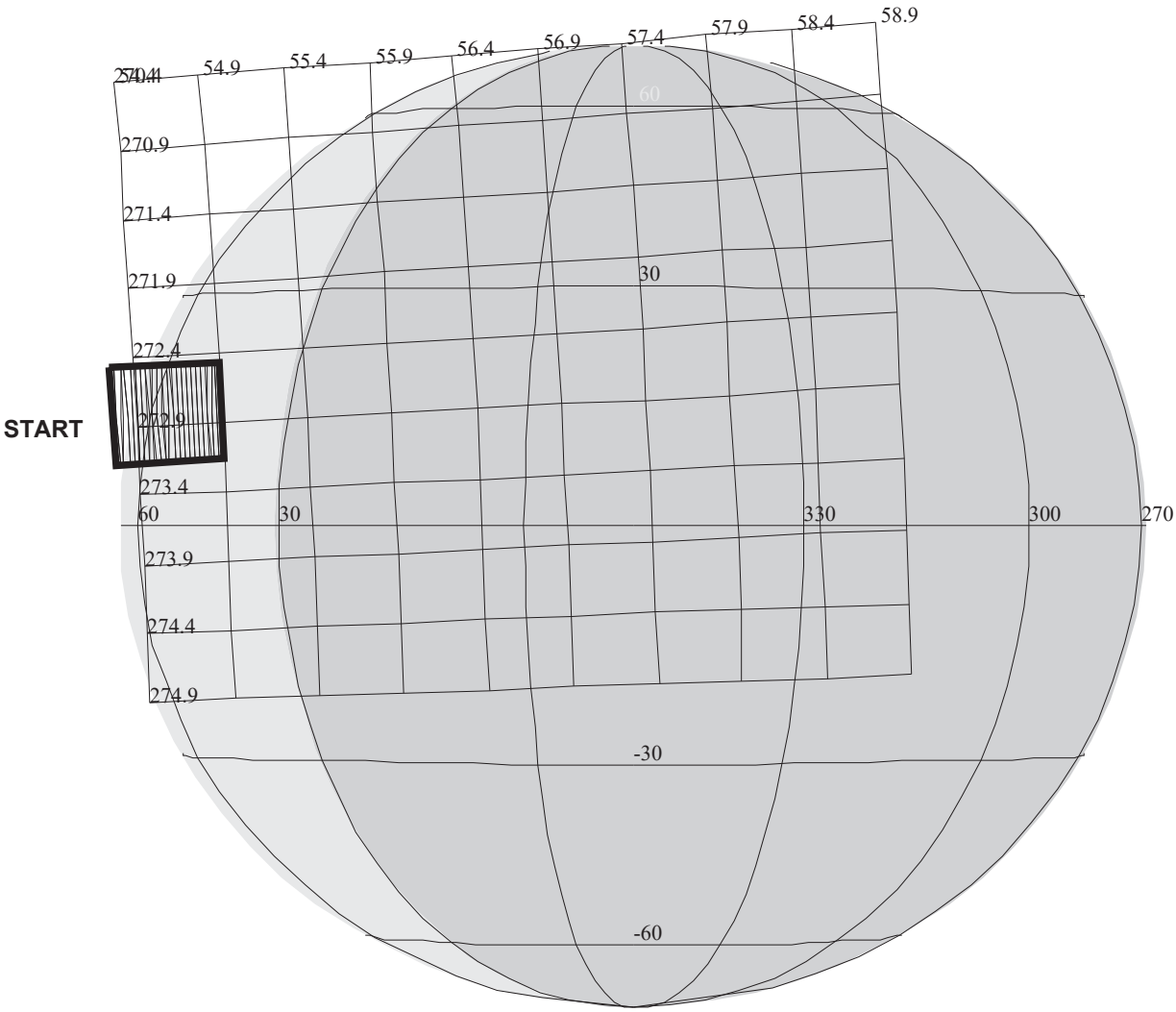
Design Detail

This the third of 5 global observations to cover all longitudes. Continuous slew mosaic over lit surface in the longitude range ~225 to 270 degrees. Scan platform slew rate is 0.03 mrad/sec, to achieve Nyquist sampling rate. This observation consists of two swaths, scanning from west to east and north to south.

Spatial resolution: <110> km/NIMSel	Phase: <120> degress
Incident angle: <35 to 84> deg.	Emission angle: <40 to 90> deg.
NIMS MODE: LM (Long Map)	Gain State: 3
Chopper: Reference	Grating Start position:0
Grating Offset: 4	# Wavelengths: 204 record and 204 playback
Record Format: MPW.	

Long Map (LM), Gain 3, Grating Start 0, MPW, G7GLM442, G7GLM360

Galileo Activity Plan Form 03/17/97 17:37:38 rev 6/95



165EZ:TT= 0 TMC= 1 C= -3.00 XC= 0.00 BS= 0/8447 TC= 1(14 65)
A= 728 pD= 0 SR=17.450 RA50= 79.65 DEC50= 26.00 cone= 54.29 clock=272.83
117EZ:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/8447
1:#s= 1 Cs= 10.80 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 300 rD= 2

G7JNFEA13001

TARGET G3.1 lisac: 5/ 6/1997 15: 3:44

FILE:P.G7JNFEA13001

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS **F_R_O_Z_E_N___T_M_C**

PERIAPSIS: **THINNING:NIM 2**

START:JTD 97-095/18:51:46.266 -CDS 130:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750**

OBSERVATION:G7JNFEA13001 **DESCRIP:JUP_FEA_TRK_130_DEG_PHASE_01**

Jupiter Feature Track 130 deg phase pt 1 ACTIVITY ID: G7JNFEA13001-
START TIME: 97-095/16:35:16.266

Activity ID: Orbit G7 Target J Inst N OAPEL FEA130 SeqNo 01 -

Title	Jupiter Feature Track 130 deg phase pt 1	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS Working Group AWG

Time System	CDS	Load ID	Calendar Date 04/05/97 Week 14
Start	JTD-CDS 00000135:00:0	97-095/16:35:16.266	JTD-000/02:16:30.000
End	JTD-CDS 00000128:00:0	97-095/16:42:20.933	JTD-000/02:09:25.333
Duration	00000007:00:0	000/00:07:04.667	000/00:07:04.667

Top Label G7JNFEA13001-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	162	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of 8 OAPELs constituting the feature tracks for this North Tropical Zone feature campaign at 14 degrees North, 65 degrees West. This is the first observation obtained on a rotation with phase angle approximately 135 degrees. Jupiter imaged in 15 colors, using NIMS downlink wavelength table JFT15A. This observation acquired with North Tropical Zone feature near the bright limb, assuming feature coordinates 14 degrees north latitude and 65 degrees west longitude (System III).

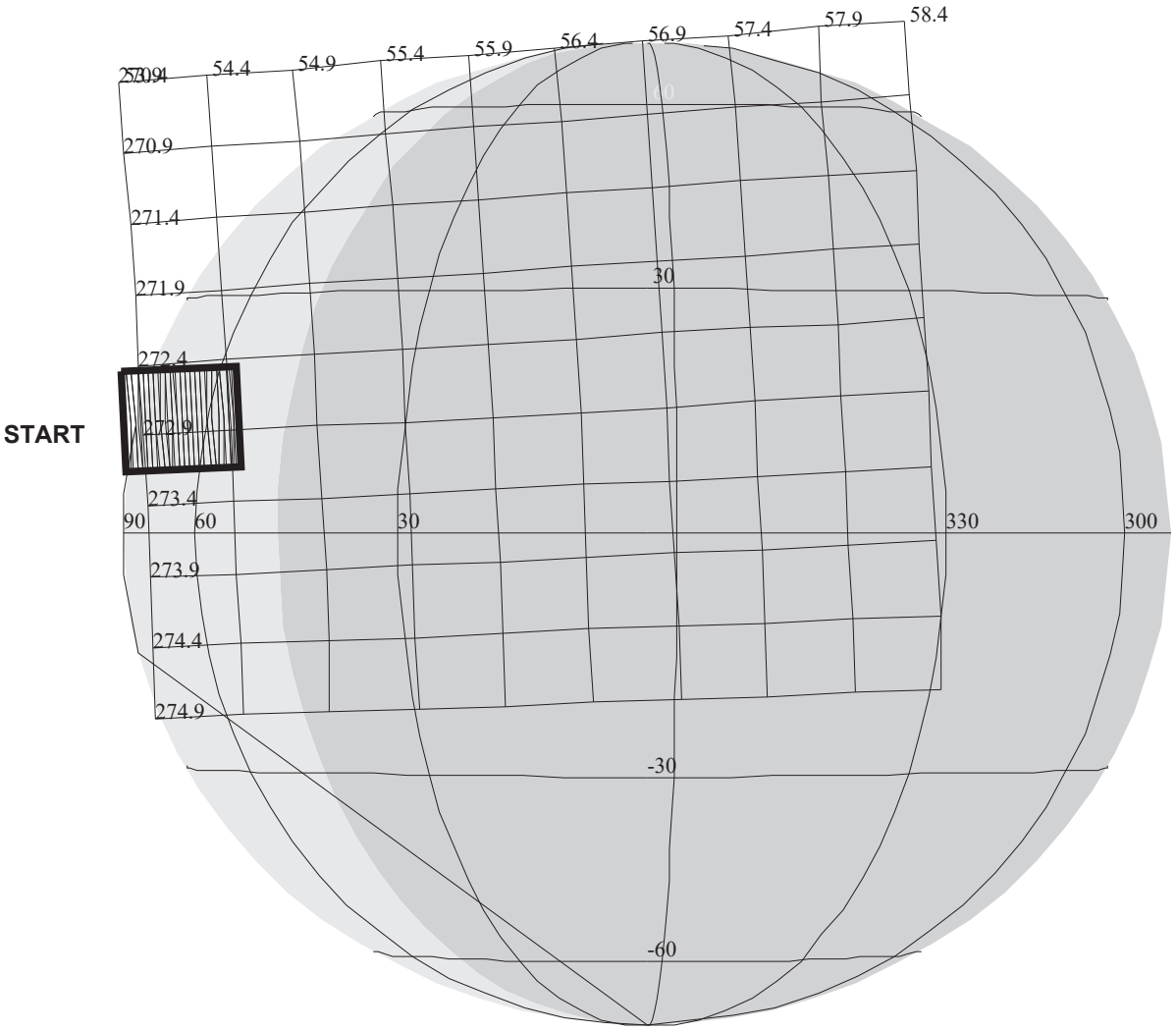
Data Returned

Design Detail

Short map, Nyquist-sampled observation of 1*1 (10*10 mrad) area centered on Brown Barge feature near 65 degrees West longitude, 14 degrees North latitude. S/C distance about 1.33 million KM, NIMS IFOV (NIMSEL) = 665 KM; 1*1 mosaic covers about 13300*13300 KM. About 100 seconds of scanning, accumulating 0.0727 MBTG in 15 colors, and using 0.00336 tracks.
Four rims reserved for targetting. This observation
referenced to EPOCH JTD.
NOTE 2/17/97: Colors cut back to 4 to meet downlink budget.

Short Map (SM), Gain 2, Grating Start 1, LPU, G7JFT68B, G7JFT04B

Galileo Activity Plan Form 03/17/97 17:37:38 rev 6/95



165FA:TT= 0 TMC= 1 C= -6.00 XC= 0.00 BS= 0/2997 TC= 1(14 65)
A= 182 pD= 0 SR=17.450 RA50= 80.18 DEC50= 26.03 cone= 53.82 clock=272.79
117FA:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/2997
1:#s= 1 Cs= 10.80 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 300 rD= 2

G7JNFEA13002

TARGET G3.1 lisac: 4/15/1997 10:52:30

FILE:P.G7JNFEA13002

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:JTD 97-095/18:51:46.266 -CDS 105:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750**

OBSERVATION:G7JNFEA13002 **DESCRIP:JUP_FEA_TRK_130_DEG_PHASE_02**

Jupiter Feature Track 130 deg phase pt 2 ACTIVITY ID: G7JNFEA13002-
START TIME: 97-095/17:01:33.600

Activity ID: Orbit G7 Target J Inst N OAPEL FEA130 SeqNo 02 -

Title	Jupiter Feature Track 130 deg phase pt 2	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS Working Group AWG

Time System	CDS	Load ID	Calendar Date	04/05/97	Week 14
Start	JTD-CDS	00000109:00:0	97-095/17:01:33.600	JTD-000/01:50:12.666	
End	JTD-CDS	00000103:00:0	97-095/17:07:37.600	JTD-000/01:44:08.666	
Duration		00000006:00:0	000/00:06:04.000	000/00:06:04.000	

Top Label	G7JNFEA13002-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	98	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of 8 OAPELs constituting the feature tracks for the North Tropical Zone feature campaign. This is the second observation obtained on a rotation with phase angle approximately 135 degrees. Jupiter imaged in 15 colors, using NIMS downlink wavelength table JFT15A. This observation acquired with feature near minimum airmass, assuming feature coordinates 14 degrees north latitude and 65 degrees west longitude (System III).
Original Times: Start CDS = 1521:24 End CDS = 1527:24 Duration = 6:00

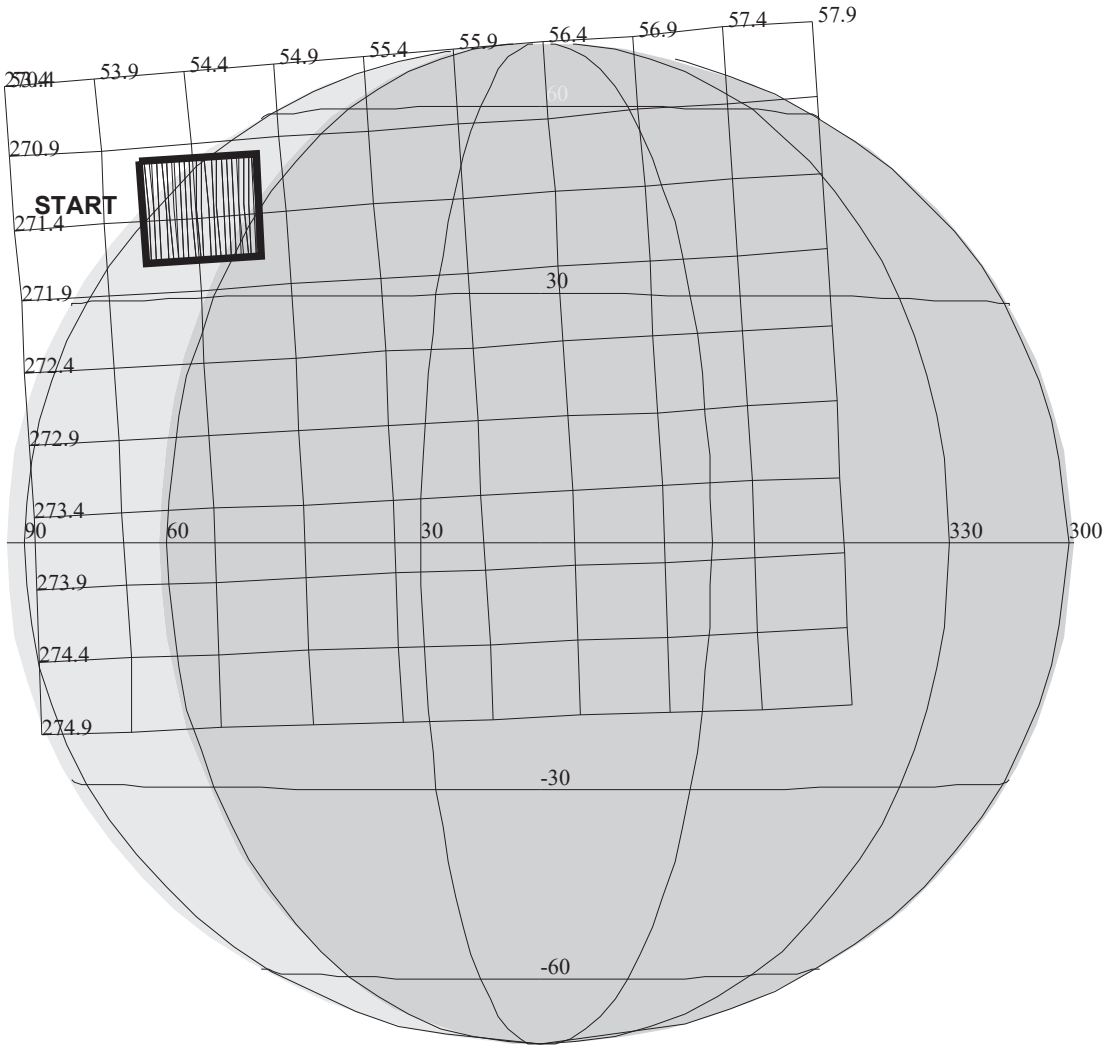
Data Returned

Design Detail

Short map, Nyquist-sampled observation of 1*1 (10*10 mrad) area centered on North Tropical Zone near 65 degrees West longitude, 14 degrees North latitude. S/C distance about 1.33 million KM, NIMS IFOV (NIMSEL) = 665 KM; 1*1 mosaic covers about 13300*13300 KM. About 100 seconds of scanning, accumulating 0.0727 MBTG in 15 colors, and using 0.00336 tracks.
Four rims reserved for targetting. This observation referenced to EPOCH JTD.

Short Map (SM), Gain 2, Grating Start 1, LPU, G7JFT68B, G7JFT15A

Galileo Activity Plan Form 03/17/97 17:37:38 rev 6/95



165FB:TT= 0 TMC= 1 C= -9.00 XC= 0.00 BS= 0/7547 TC= 1(43 65)
A= 728 pD= 0 SR=17.450 RA50= 79.85 DEC50= 27.24 cone= 54.12 clock=271.30
117FB:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/7547
1:#s= 1 Cs= 10.80 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 300 rD= 2

G7JNPFB13001

TARGET G3.1 lisac: 5/ 6/1997 15: 3:44

FILE:P.G7JNPFB13001

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS **F_R_O_Z_E_N___T_M_C**

PERIAPSIS: **THINNING:NIM 2**

START:JTD 97-095/18:51:46.266 -CDS 80:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750**

OBSERVATION:G7JNPFB13001 **DESCRIP:JUP_FEA_TRK_130_DEG_PHASE_03**

Jupiter Feature Track 130 deg phase ACTIVITY ID: G7JNPFB13001-
START TIME: 97-095/17:25:49.600

Activity ID: Orbit G7 Target J Inst N OAPEL PFB130 SeqNo 01 -

Title	Jupiter Feature Track 130 deg phase	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team NIMS	Working Group AWG

Time System	CDS	Load ID	Calendar Date	04/05/97	Week 14
Start	JTD-CDS	00000085:00:0	97-095/17:25:49.600	JTD-000/01:25:56.666	
End	JTD-CDS	00000078:00:0	97-095/17:32:54.266	JTD-000/01:18:52.000	
Duration		00000007:00:0	000/00:07:04.666	000/00:07:04.666	

Top Label G7JNPFB13001-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	98	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of seven OAPELs constituting the 43 degrees North Little Red Spot feature campaign (Feature B). This is the only observation obtained on a rotation with phase angle approximately 135 degrees. Feature B imaged in 15 colors, using NIMS downlink wavelength table JFT15A. This observation acquired with feature near the evening terminator, assuming feature coordinates 20 degrees north latitude and 65 degrees west longitude (System III). Original Times: Start CDS = 1555:80 End CDS = 1561:80
Duration = 6:00

Data Returned

Design Detail

Short map, Nyquist-sampled observation of 1*1 (10*10 mrad) area centered on North Temperate Zone feature C near 65 degrees West longitude, 43 degrees North latitude. S/C distance about 1.33 milllion KM, NIMS IFOV (NIMSEL) = 665 KM; 1*1 mosaic covers 13300*13300 KM. About 100 seconds of scanning, accumulating 0.0727 MBTG in 15 colors, and using 0.00336 tracks. Four rims reserved for targetting. This observation referenced to EPOCH JTD.
NOTE 2/25/97: Observation re-targetted toward the limb to obtain 81 degrees longitude (new predicted location of LRS).

Short Map (SM), Gain 2, Grating Start 1, LPU, G7JFT68B, G7JFT15A

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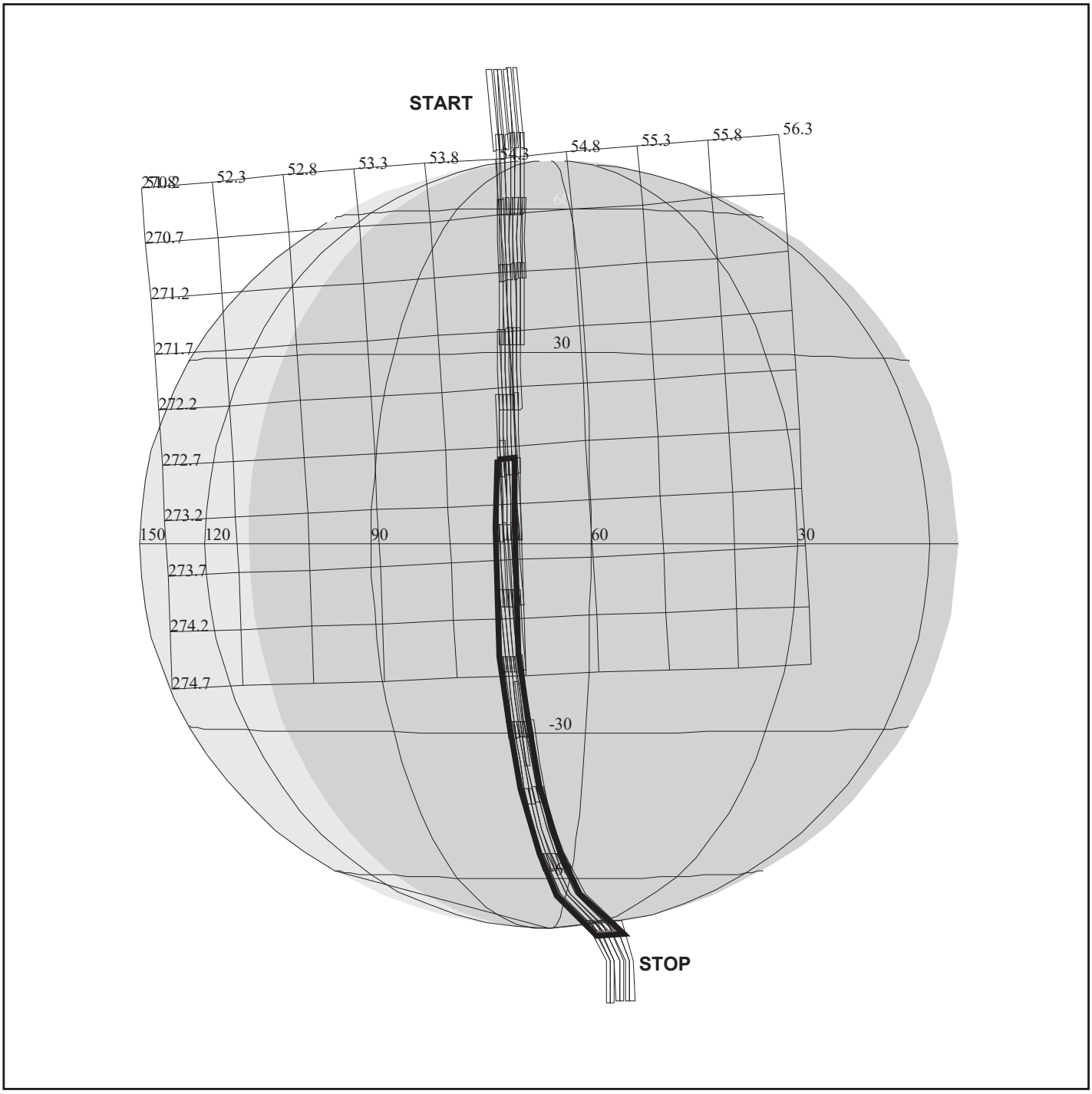

165FD:TT= 0 TMC= 1 C= -6.00 XC= -6.80 BS= 0/2289 TC= 1(85 71)
A= 728 pD= 0 SR=17.450 RA50= 79.68 DEC50= 28.49 cone= 54.29 clock=269.76
117FD:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/2289
1:#s= 14 Cs= 2.85 XCs= 0.00 Cr= -3.10 XCr= 8.00 sD= 290 rD= 36

G7JNTHRMNS01

TARGET G3.1 lisac: 5/ 6/1997 15: 3:44

FILE:P.G7JNTHRMNS01

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS **F_R_O_Z_E_N___T_M_C**

PERIAPSIS: **THINNING:NIM 2**

START:JTD 97-095/18:51:46.266 +CDS 01:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750**

OBSERVATION:G7JNTHRMNS01 **DESCRIP:JUP_THERMAL_N/S_STRIPE**

Jupiter Thermal North South Stripe ACTIVITY ID: G7JNTHRMNS01-
START TIME: 97-095/18:48:44.266

Activity ID: Orbit G7 Target J Inst N OAPEL THRMNS SeqNo 01 -

Title	Jupiter Thermal North South Stripe	Instrument	NIMS
Requestor	NIMS-SWG/K. BAINES	Team NIMS	Working Group AWG

Time System	CDS	Load ID	Calendar Date	04/05/97	Week 14
Start	JTD-CDS	00000003:00:0	97-095/18:48:44.266	JTD-000/00:03:02.000	
End	JTD+CDS	00000028:00:0	97-095/19:20:04.932	JTD+000/00:28:18.666	
Duration		00000031:00:0	000/00:31:20.666	000/00:31:20.666	

Top Label	G7JNTHRMNS01-				
Bottom Label	NIMS				
Plot Key	NIMS	Type	SCI		
CDS Bytes	128	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Jupiter North/South, pole to pole night-time stripe for pole to pole assessment of lower-troposphere properties such as phosphine abundance variation and 5-um variability of ammonia cloud opacity. Night time observation of central meridian at 135 degree phase angle opportunity near 17Rj, using NIMS wavelength table J5M80B
spanning 4.279-5.220 microns.

Data Returned

Design Detail

Long Map, Nyquist sampled observation of central meridian from pole to pole at 65 degrees west longitude. About 14 tiers, each tier acquiring 9 spectra, spanning 2.0 mradians in the east-west direction covering 1.5 degrees of Jovian longitude. Each tier lasts 95.33 seconds including 17.333 sec for repositioning to the next tier. Total observations time is 15*95.333+9*8.6667=1508 seconds=00:25:08 resulting in recording 0.05066 tracks to return 1.519 Mbtg. 4 rims reserved for targeting.
Note: 1/23/97: Epoch change of +4 hours results in decreased spatial resolution. S/C distance is now 20 Rj (vs 17 in 1995). Only 12 tiers needed to span planet pole to pole.
NOTE 2/25/97: Playback reduced to 300 seconds to meet downlink budget.
NOTE 2/25/97: Observation re-targetted to 71 degrees West longitude at 6.5 degrees North latitude to encompass PPR Hotspot feature.

Long Map (LM), Gain 4, Grating Start 0, LPU, G7J5M253B, G7J5M80B
Long Map (LM), Gain 4, Grating Start 0, LPU, G7J5M253B, G7J5253B

Galileo Activity Plan Forme 03/17/97 17:37:38 rev 6/95

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AWG Feature Track Window #4 ACTIVITY ID: G7JNAWGWIN04
START TIME: 97-095/19:28:48.400

Activity ID: Orbit G7 Target J Inst N OAPEL AWGWIN SeqNo 04

Title	AWG Feature Track Window #4			Instrument	NIMS
Requestor	NIMS-AWG/J. CULWELL	Team	RSSG	Working Group	AWG

Time System	EPOCH	Load ID	G7A	Calendar Date	04/05/97 Week 14
Start	JEE+CDS	00001923:57:0	97-095/19:28:48.400		JEE+001/08:25:00.000
End	JEE+CDS	00003140:25:0	97-096/15:58:58.400		JEE+002/04:55:10.000
Duration		00001216:59:0	000/20:30:10.000		000/20:30:10.000

Top Label
Bottom Label

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

Observation Objective

This window is designed to protect AWG observations if there is target time adjustmens before the final sequence integration.

Design Detail

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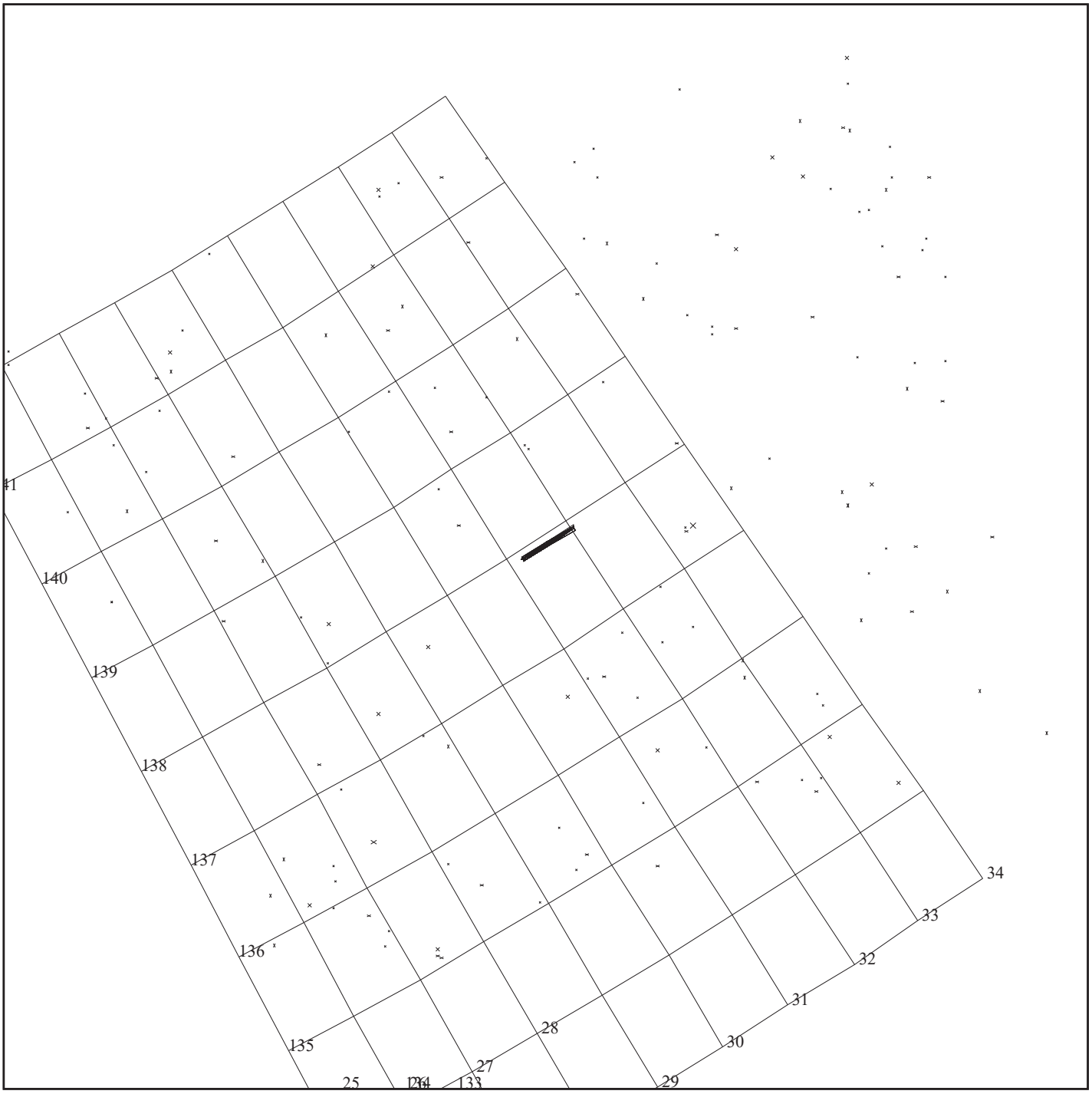


165FE:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/3077 TC=15(-56.63 307.93)
A= 728 pD= 0 SR=17.450 RA50=307.93 DEC50=-56.63 cone=137.91 clock= 31.60

G7HNDARK__04

TARGET G3.1 lisac: 5/ 6/1997 15: 3:44

FILE:P.G7HNDARK__04

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS **F_R_O_Z_E_N___T_M_C**

PERIAPSIS: **THINNING:NIM 1**

START:JTB 97-093/22:40:38.400 +CDS 2957:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.500**

OBSERVATION:G7HNDARK__04 **DESCRIP:NIMS Dark Sky 04**

Dark Observation

ACTIVITY ID: G7HNDARK__04-
START TIME: 97-096/00:24:25.733

Activity ID: Orbit G7 Target H Inst N OAPEL DARK__ SeqNo 04 -

Title	Dark Observation			Instrument	NIMS
Requestor	NIMS-SWG/J.HUI	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	Calendar Date	04/06/97	Week 14
Start	JTB+CDS	00002951:00:0	97-096/00:24:25.733	JTB+002/01:43:47.333	
End	JTB+CDS	00002959:00:0	97-096/00:32:31.066	JTB+002/01:51:52.666	
Duration		00000008:00:0	000/00:08:05.333	000/00:08:05.333	

Top Label G7HNDARK__04-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	128	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Obtain 1 rim of dark sky data per day for each day of NIMS observations within the G7 orbit for purposes of calibration.

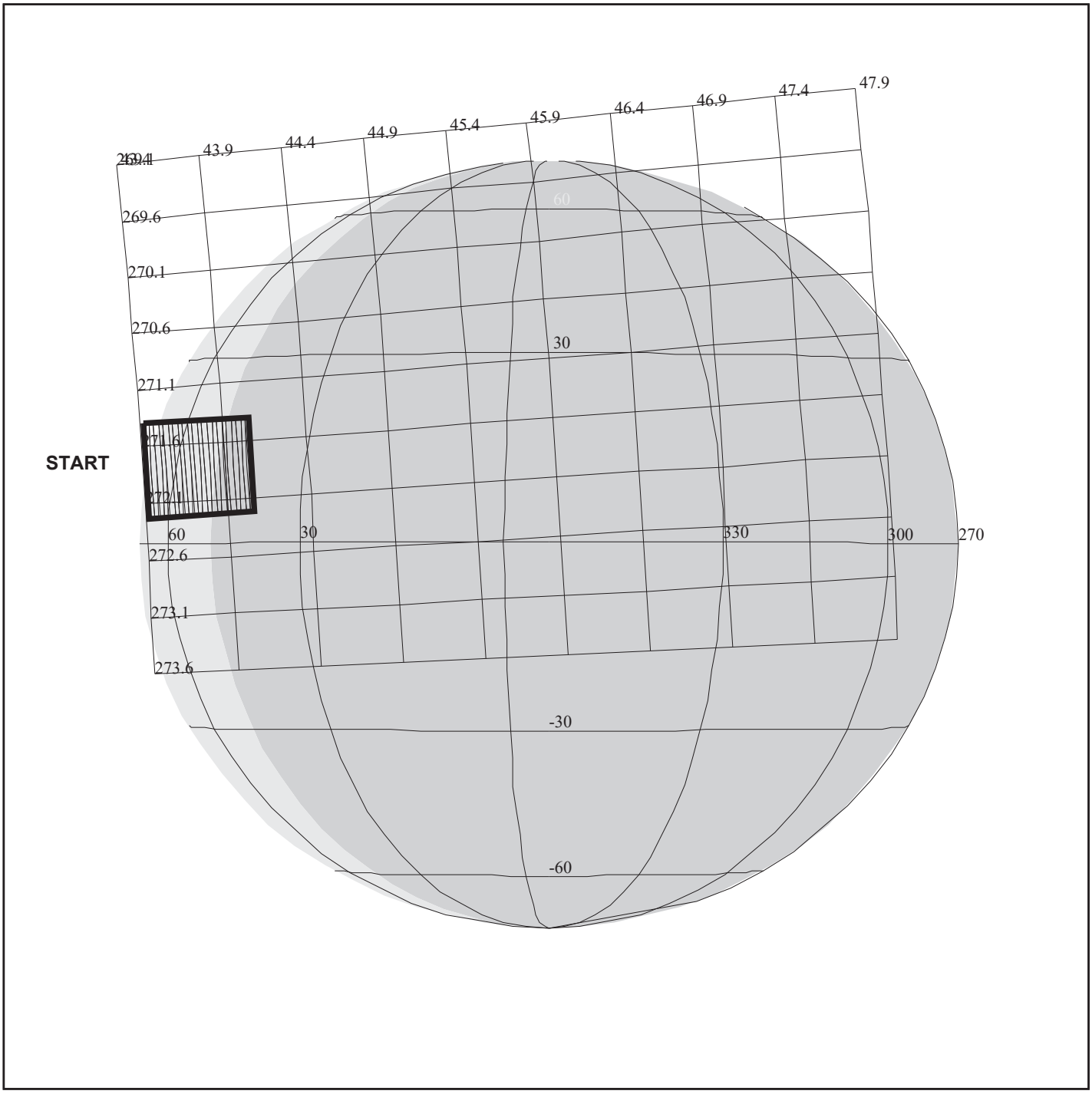
Data Returned

Design Detail

Sit and stare design, target to dark-sky and remain there for 1 rim.
Observation to be done in short-map mode, gain = 2,
record mode = LPU, number of wavelengts = 51.

Long Map (LM), Gain 3, Grating Start 0, LPU, G7DRK34, G7DRK32

Galileo Activity Plan Form 03/17/97 17:37:38 rev 6/95



165FF:TT= 0 TMC= 1 C= -3.00 XC= 0.00 BS= 0/0741 TC= 1(14 65)
A= 728 pD= 0 SR=17.450 RA50= 91.79 DEC50= 26.37 cone= 43.48 clock=271.81
117FF:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/0741
1:#s= 1 Cs= 10.80 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 300 rD= 2

G7JNFEA14201

TARGET G3.1 lisac: 5/ 6/1997 15: 3:44

FILE:P.G7JNFEA14201

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS **F_R_O_Z_E_N___T_M_C**

PERIAPSIS: **THINNING:NIM 2**

START:JTB 97-093/22:40:38.400 +CDS 3109:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750**

OBSERVATION:G7JNFEA14201 **DESCRIP:JUP_FEA_TRK_142_DEG_PHASE_01**

Jupiter Feature Track 142 deg phase ACTIVITY ID: G7JNFEA14201-
START TIME: 97-096/02:59:07.733

Activity ID: Orbit G7 Target J Inst N OAPEL FEA142 SeqNo 01 -

Title	Jupiter Feature Track 142 deg phase	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team NIMS	Working Group AWG

Time System	CDS	Load ID	Calendar Date 04/06/97 Week 14
Start	JTB+CDS	00003104:00:0 97-096/02:59:07.733	JTB+002/04:18:29.333
End	JTB+CDS	00003111:00:0 97-096/03:06:12.400	JTB+002/04:25:34.000
Duration		00000007:00:0 000/00:07:04.667	000/00:07:04.667

Top Label G7JNFEA14201-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	128	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of 8 OAPELs constituting the feature tracks for the North Tropical Zone feature campaign. This is the only observation obtained on a rotation with phase angle approximately 146 degrees. Jupiter imaged in 4 colors, using NIMS downlink wavelength table JFT04A. This observation acquired with North Tropical Zone feature near the bright limb, assuming feature coordinates 14 degrees north latitude and 65 degrees west longitude (System III).

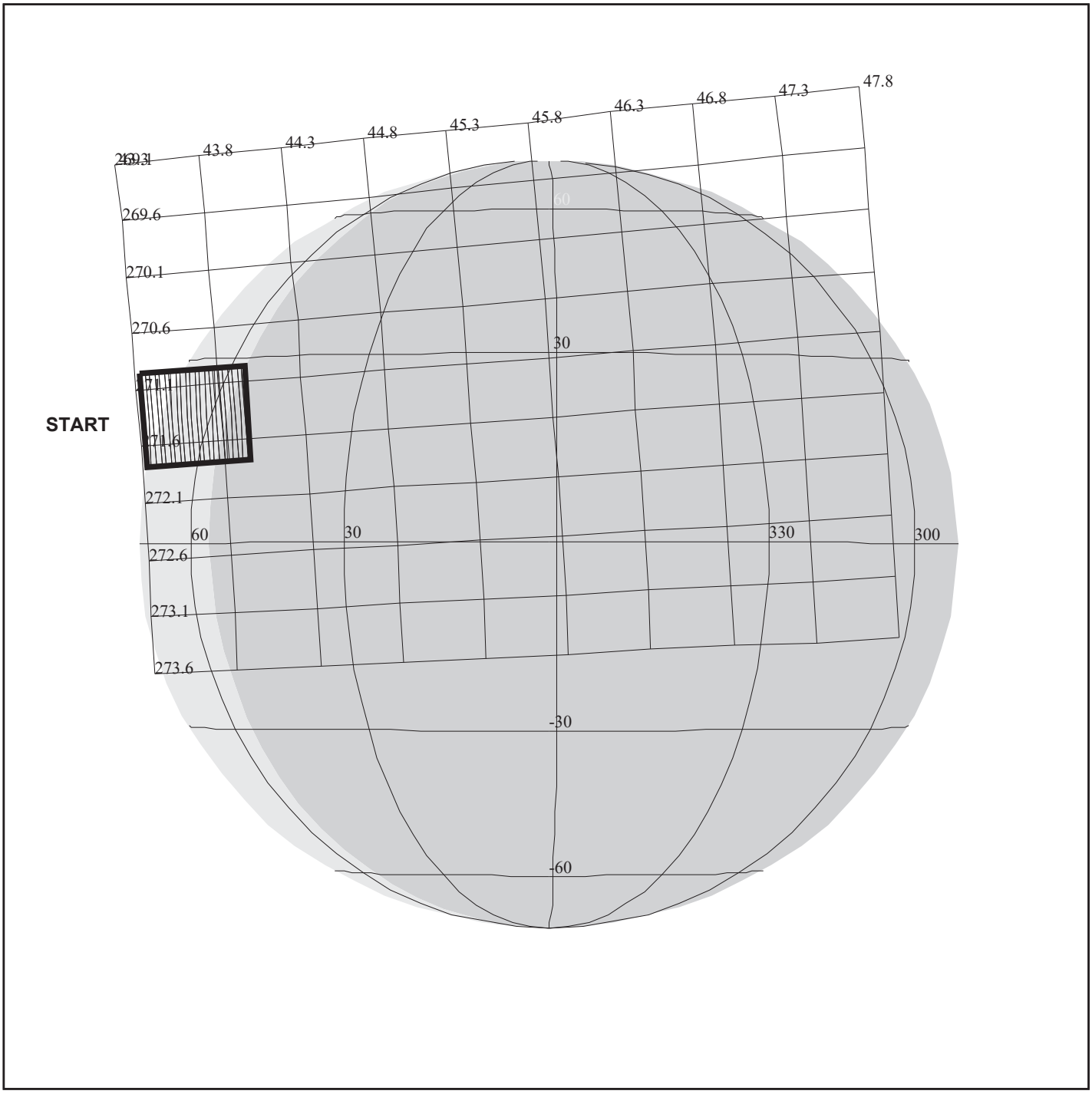
Data Returned

Design Detail

Short map, Nyquist-sampled observation of 1*1 (10*10 mrad) area centered on North Tropical Zone feature near 65 degrees West longitude, 14 degrees North latitude. S/C distance about 1.61 million KM, NIMS IFOV (NIMSEL) = 805 KM; 1*1 mosaic covers 16100*16100 KM. About 100 seconds of scanning, accumulating 0.02554 MBTG in 4 colors, and using 0.00336 tracks.
Four rims reserved for targetting. This observation referenced to EPOCH JTB.
NOTE 2/25/97: Feature shifted to the limb to encompass both the NIMS 65 degree West longitude feature and the SSI 81 degree West longitude feature.

Short Map (SM), Gain 2, Grating Start 1, LPU, G7JFT68C, G7JFT04B

Galileo Activity Plan Form 03/17/97 17:37:38 rev 6/95



165FG:TT= 0 TMC= 1 C= -5.40 XC= 0.00 BS= 0/2925 TC= 1(20 65)
A= 728 pD= 0 SR=17.450 RA50= 91.96 DEC50= 26.58 cone= 43.31 clock=271.34
117FG:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/2925
1:#s= 1 Cs= 10.80 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 300 rD= 2

G7JNPFC14201

TARGET G3.1 lisac: 5/ 6/1997 15: 3:44

FILE:P.G7JNPFC14201

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS **F_R_O_Z_E_N___T_M_C**

PERIAPSIS: **THINNING:NIM 2**

START:JTB 97-093/22:40:38.400 +CDS 3121:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750**

OBSERVATION:G7JNPFC14201 **DESCRIP:JUP_FEA_TRK_142_DEG_PHASE_01**

Jupiter Ftr Trk C 142 Deg Phase

ACTIVITY ID: G7JNPFC14201-
START TIME: 97-096/03:11:15.733

Activity ID: Orbit G7 Target J Inst N OAPEL PFC142 SeqNo 01 -

Title	Jupiter Ftr Trk C 142 Deg Phase			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES		Team NIMS	Working Group	AWG

Time System	CDS	Load ID	Calendar Date	04/06/97	Week 14
Start	JTB+CDS	00003116:00:0	97-096/03:11:15.733	JTB+002/04:30:37.333	
End	JTB+CDS	00003123:00:0	97-096/03:18:20.400	JTB+002/04:37:42.000	
Duration		00000007:00:0	000/00:07:04.667	000/00:07:04.667	

Top Label G7JNPFC14201-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	98	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of 4 OAPELs constituting the North Temperate Zone partial feature (Feature C). This is the only observation obtained on a rotation with phase angle approximately 146 degrees. Feature C imaged in 4 colors, using NIMS downlink wavelength table JFT04A. This observation acquired with feature near minimum airmass, assuming feature coordinates 20 degrees North latitude and 65 degrees West longitude (System III).
Original Times: Start CDS = 2121:01 End CDS = 2127:01 Duration = 6:00

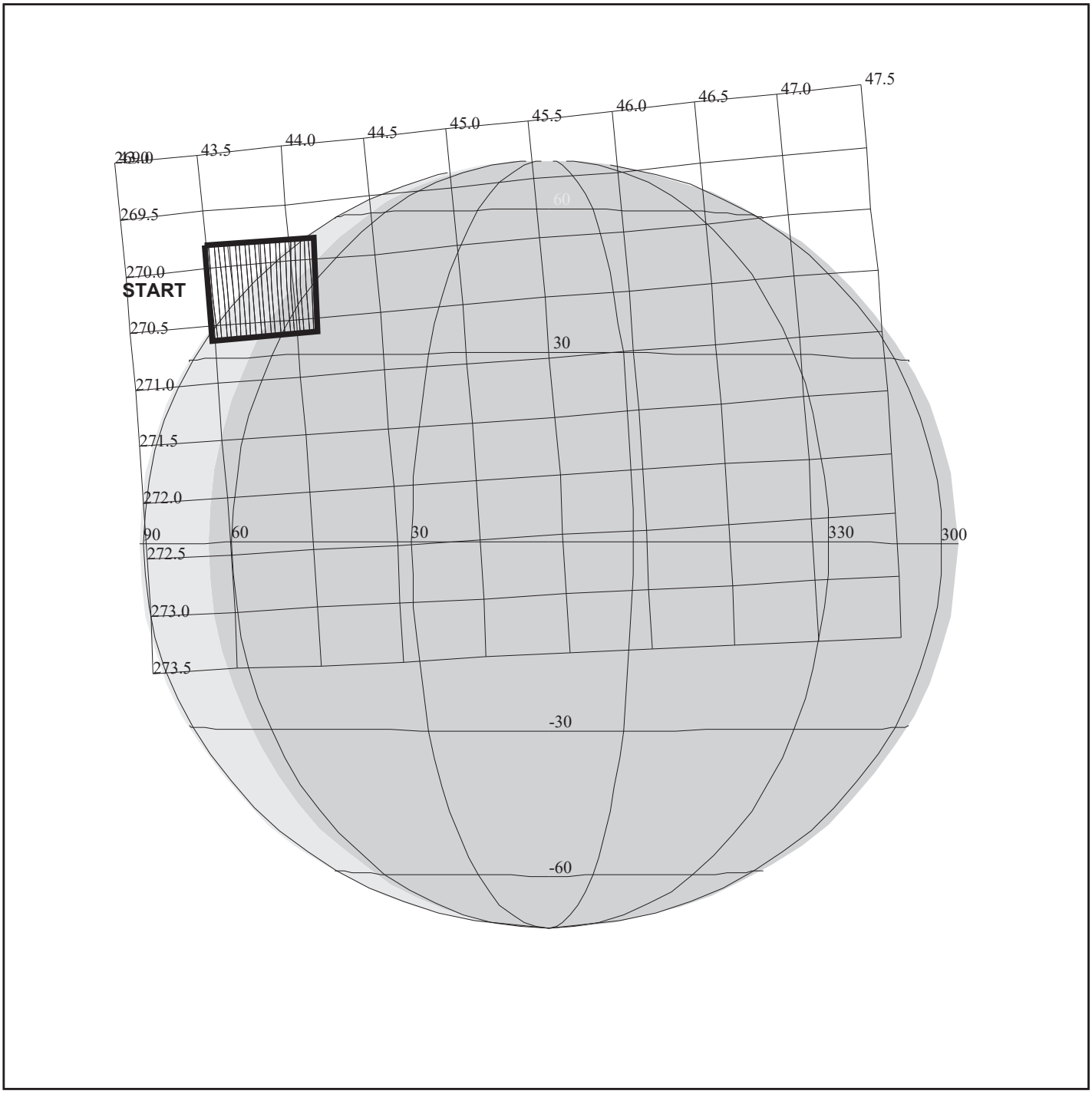
Data Returned

Design Detail

Short map, Nyquist-sampled observation of 1*1 (10*10 mrad) area centered on North Temperate Zone feature near 65 degrees West longitude, 20 degrees North latitude. S/C distance about 1.61 million KM, NIMS IFOV (NIMSEL) = 805 KM; 1*1 mosaic covers 16100*16100 KM. About 100 seconds of scanning, accumulating 0.02554 MBTG in 4 colors, and using 0.00336 tracks.
Four rims reserved for targetting. This observation referenced to EPOCH JTB.

Short Map (SM), Gain 2, Grating Start 1, LPU, G7JFT68C, G7JFT04B

Galileo Activity Plan Form 03/17/97 17:37:39 rev 6/95



165FH:TT= 0 TMC= 1 C= -9.00 XC= 0.00 BS= 0/6019 TC= 1(43 65)
A= 728 pD= 0 SR=17.450 RA50= 91.82 DEC50= 27.35 cone= 43.51 clock=270.25
117FH:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/6019
1:#s= 1 Cs= 10.80 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 300 rD= 2

G7JNPFB14201

TARGET G3.1 lisac: 5/ 6/1997 15: 3:44

FILE:P.G7JNPFB14201

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS **F_R_O_Z_E_N___T_M_C**

PERIAPSIS: **THINNING:NIM 2**

START:JTB 97-093/22:40:38.400 +CDS 3138:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750**

OBSERVATION:G7JNPFB14201 **DESCRIP:JUP_FEA_TRK_142_DEG_PHASE_03**

Jupiter Ftr Trk B 142 Deg Phase — ACTIVITY ID: G7JNPFB14201-
START TIME: 97-096/03:28:27.066

Activity ID: Orbit G7 Target J Inst N OAPEL PFB142 SeqNo 01 -

Title	Jupiter Ftr Trk B 142 Deg Phase			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID	Calendar Date	04/06/97	Week 14
Start	JTB+CDS	00003133:00:0	97-096/03:28:27.066	JTB+002/04:47:48.666	
End	JTB+CDS	00003140:00:0	97-096/03:35:31.733	JTB+002/04:54:53.333	
Duration		00000007:00:0	000/00:07:04.667	000/00:07:04.667	

Top Label G7JNPFB14201-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	98	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of 7 OAPELs constituting the partial feature track B of one of two Little Red Spots at 43 degrees North latitude. This is the first and only observation obtained on a rotation with phase angle approximately 146 degrees. Feature B imaged in 4 colors, using NIMS downlink wavelength table JFT04A. This observation acquired with Brown Barge feature near the evening terminator, assuming feature coordinates 42 degrees north latitude and 65 degrees west longitude (System III).

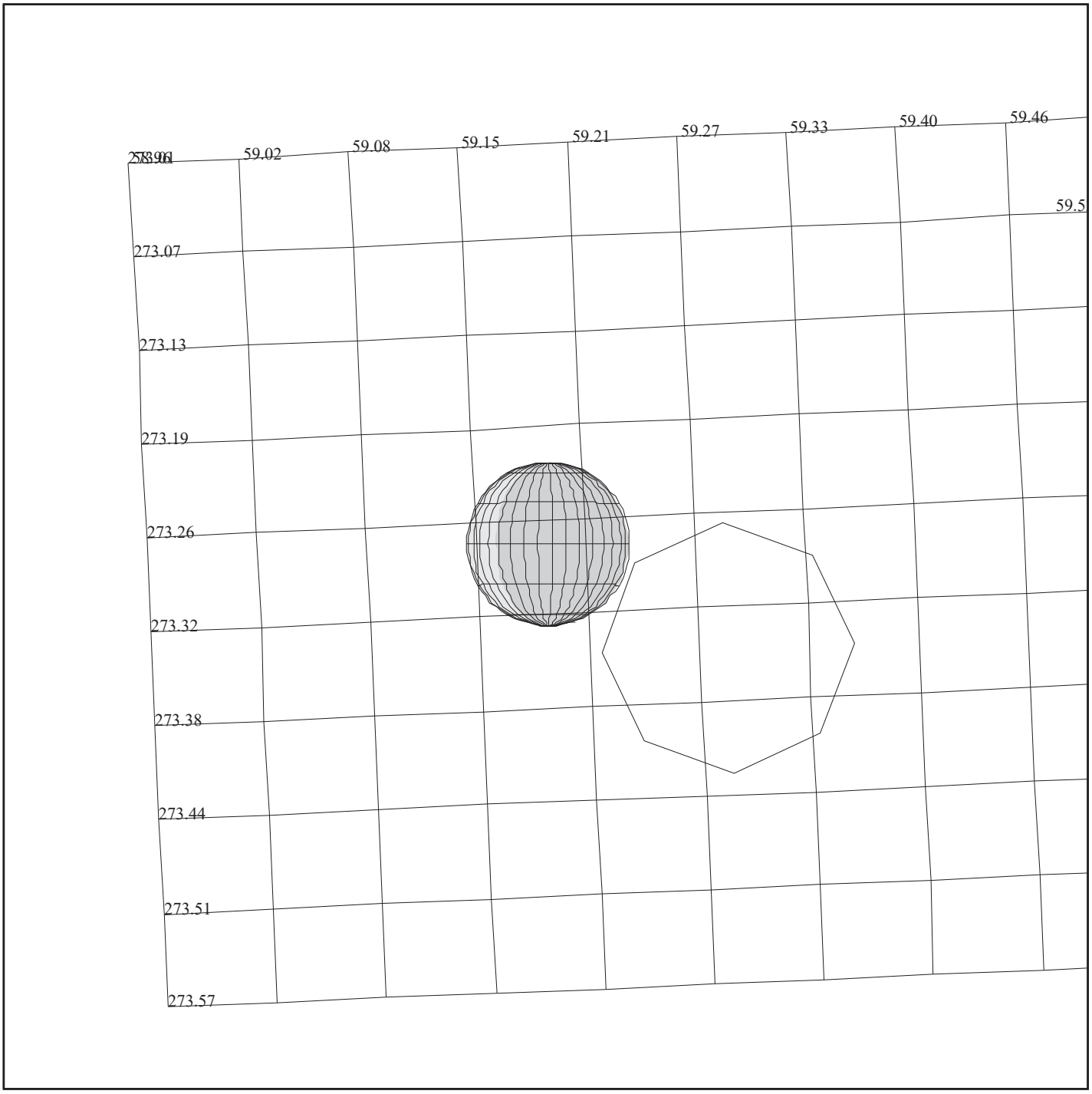
Data Returned

Design Detail

Short map, Nyquist-sampled observation of 1*1 (10*10 mrad) area centered on feature near 65 degrees West longitude, 43 degrees North latitude. S/C distance about 1.61 million KM, NIMS IFOV (NIMSEL) = 805 KM; 1*1 mosaic covers 16100*16100 KM. About 100 seconds of scanning, accumulating 0.02554 mbtg in 4 colors, and using 0.00336 tracks. Four rims reserved for targetting. This observation referenced to EPOCH JTB.
NOTE: 2/25/97: Observation re-targetted a little to observe LRS at 81 degree West longitude (new predicted position of LRS from recent IRTF observation).

Short Map (SM), Gain 2, Grating Start 1, LPU, G7JFT68C, G7JFT04B

Galileo Activity Plan Form 03/17/97 17:37:39 rev 6/95



165HZ:TT= 0 TMC= 1 C= -3.00 XC= 0.00 BS= 0/6837 TC= 3
A= 728 pD= 0 SR=17.450 RA50= 74.44 DEC50= 25.51 cone= 59.05 clock=273.35
117HZ:#SB= 1 OR= 0.320 RR=12.000 BM=F RC= 1 BS= 0/6837
1:#s= 1 Cs= 4.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 52 rD= 2

G7NNHEALTH07

TARGET G3.1 lisac: 5/ 6/1997 15: 3:44

FILE:P.G7EPSTP13001

TARGET BODY : EUROPA

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS **F_R_O_Z_E_N___T_M_C**

PERIAPSIS: **THINNING: :PPR 1**

START:EEE 97-094/05:58:27.066 +CDS 3204:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.150**

OBSERVATION:G7EPSTP13001 **DESCRIP:EUROPA_PHOTOMETRY_120_DEG**

NIMS Health Observation

ACTIVITY ID: G7NNHEALTH07-
START TIME: 97-096/11:56:01.733

Activity ID: Orbit G7 Target N Inst N OAPEL HEALTH SeqNo 07 -

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

Time System	CDS	Load ID	Calendar Date	04/06/97	Week 14
Start	JTB+CDS	00003635:00:0	97-096/11:56:01.733	JTB+002/13:15:23.333	
End	JTB+CDS	00003640:00:0	97-096/12:01:05.066	JTB+002/13:20:26.666	
Duration		00000005:00:0	000/00:05:03.333	000/00:05:03.333	

Top Label G7NNHEALTH07-
Bottom Label

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

Observation Objective

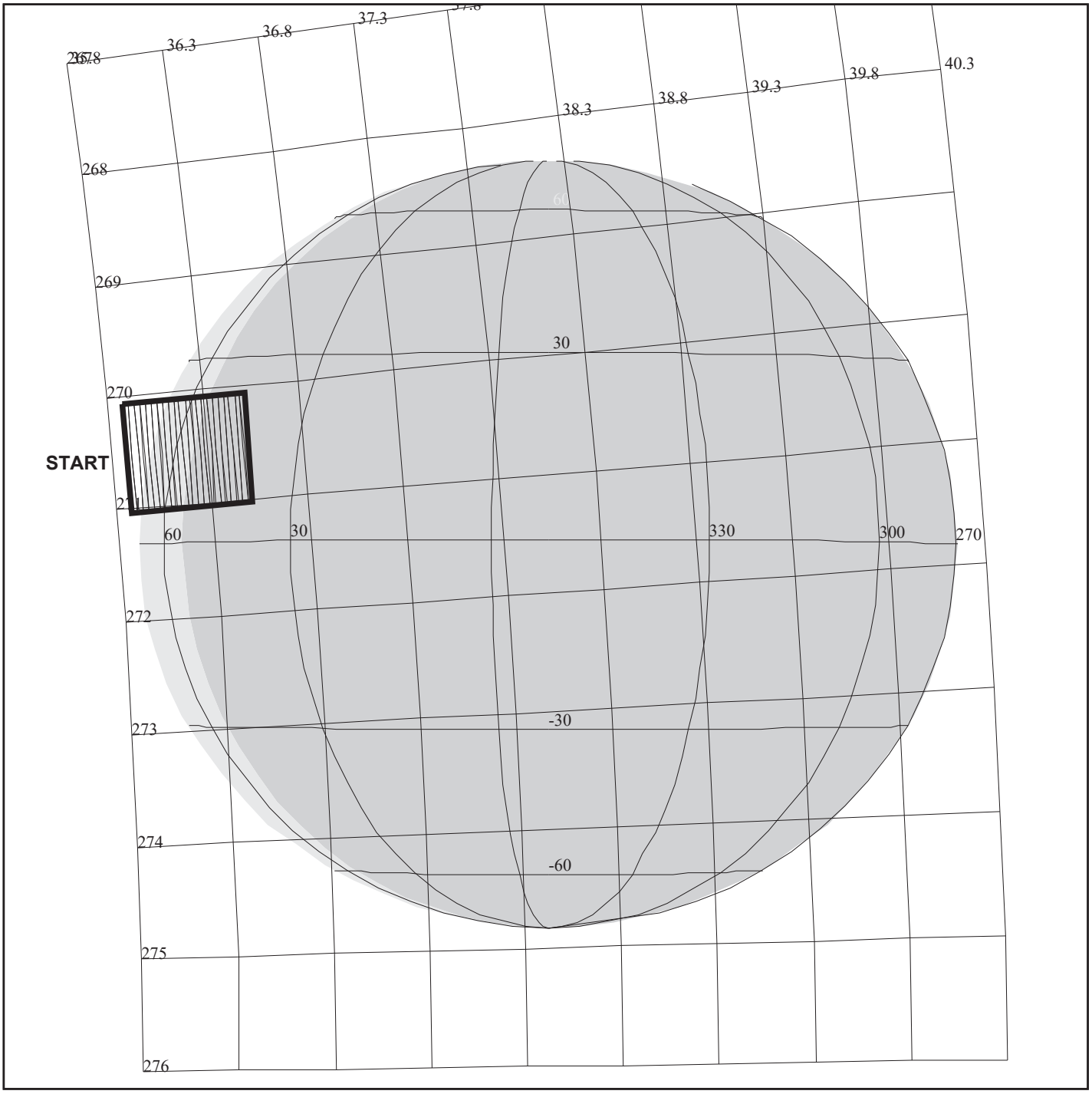
Required to verify instrument operation. These observations provide a 3 detector view of the instrument. The detectors are selected such that a bright and a dark channel will exist for either a satellite or Jupiter for a target. The observations are spaced frequently to monitor the health of the NIMS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

Data Returned

Design Detail

Long Map (LM), Gain 2, Grating Start 0, R/T, G7RCVY3

Galileo Activity Plan Form 03/17/97 17:37:39 rev 6/95



165Fl:TT= 0 TMC= 1 C= -3.20 XC= 0.00 BS= 0/9759 TC= 1(14 65)
A= 728 pD= 0 SR=17.450 RA50=100.22 DEC50= 26.02 cone= 35.89 clock=270.54
117Fl:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/9759
1:#s= 1 Cs= 10.80 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 300 rD= 2

G7JNPFB15001

TARGET G3.1 lisac: 5/ 6/1997 15: 3:44

FILE:P.G7JNPFB15001

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS **F_R_O_Z_E_N___T_M_C**

PERIAPSIS: **THINNING:NIM 2**

START:JTB 97-093/22:40:38.400 +CDS 3708:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750**

OBSERVATION:G7JNPFB15001 **DESCRIP:JUP_FEA_TRK_150_DEG_PHASE_01**

Jupiter Feature Track 150 deg phase pt 1 ACTIVITY ID: G7JNPFB15001-
START TIME: 97-096/13:04:47.066

Activity ID: Orbit G7 Target J Inst N OAPEL PFB150 SeqNo 01 -

Title	Jupiter Feature Track 150 deg phase pt 1	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS Working Group AWG

Time System	CDS	Load ID	Calendar Date	04/06/97	Week 14
Start	JTB+CDS	00003703:00:0	97-096/13:04:47.066	JTB+002/14:24:08.666	
End	JTB+CDS	00003710:00:0	97-096/13:11:51.733	JTB+002/14:31:13.333	
Duration		00000007:00:0	000/00:07:04.667	000/00:07:04.667	

Top Label G7JNPFB15001-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	98	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

(NOTE: See below for update - this text now refers to FEA15003).
One of 7 OAPELs constituting the feature tracks for this Little Red Spot campaign. This is the only observation obtained on a rotation with phase angle approximately 153 degrees. Jupiter imaged in 4 colors, using NIMS downlink wavelength table JFT04A. This observation acquired with Little Red Spot feature near minimum airmass, assuming feature coordinates 42 degrees north latitude and 65degrees west longitude (System III).

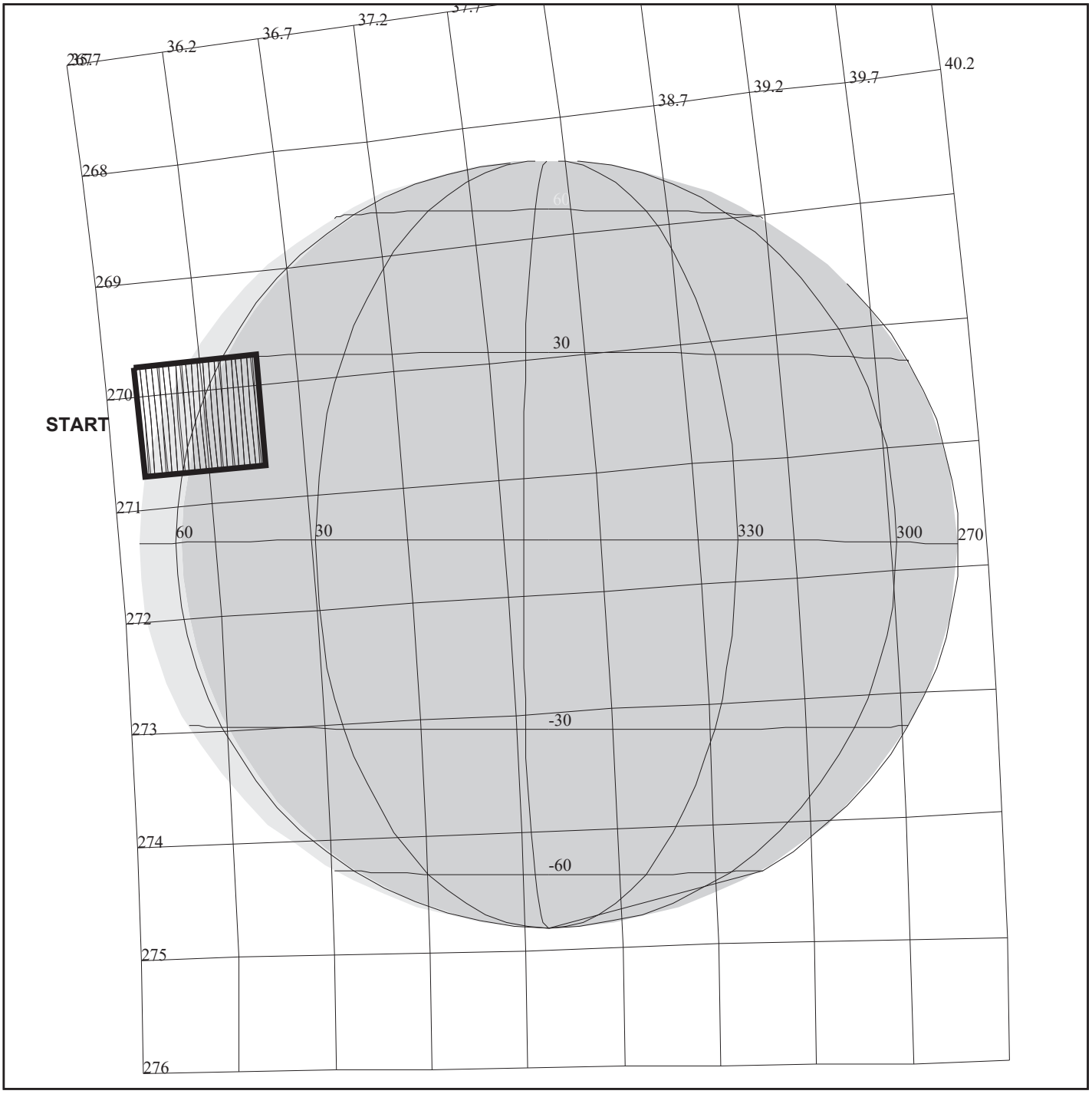
Data Returned

Design Detail

Short map, Nyquist-sampled observation of 1*1 (10*10 mrad) area centered on the LRS near 65 degrees west longitude, 42 degrees north latitude. S/C distance about 1.79 million KM, NIMS IFOV (NIMSel) = 930 KM; 1*1 mosaic covers 18600*18600 KM. About 100 seconds of scanning, accumulating 0.0727 MBTG in 4 colors, and using .00336 tracks. Four rims reserved for targetting. This observation referenced to EPOCH JTB.
NOTE: Observation swapped with G7JNFEA15003. This one now observes 14 degrees North, 6 degrees West Feature. G7JNFEA15003 now observes LRS at it's new predicted location of 81 degrees West longitude.

Short Map (SM), Gain 2, Grating Start 1, LPU, G7JFT68C, G7JFT04B

Galileo Activity Plan Form 03/17/97 17:37:39 rev 6/95



165FJ:TT= 0 TMC= 1 C= -4.00 XC= 0.00 BS= 0/1033 TC= 1(20 65)
A= 728 pD= 0 SR=17.450 RA50=100.25 DEC50= 26.21 cone= 35.90 clock=270.22
117FJ:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/1033
1:#s= 1 Cs= 10.80 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 300 rD= 2

G7JNPFC15001

TARGET G3.1 lisac: 5/ 6/1997 15: 3:44

FILE:P.G7JNPFC15001

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS **F_R_O_Z_E_N___T_M_C**

PERIAPSIS: **THINNING:NIM 2**

START:JTB 97-093/22:40:38.400 +CDS 3715:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750**

OBSERVATION:G7JNPFC15001 **DESCRIP:JUP_FEA_TRK_150_DEG_PHASE_02**

Jupiter Ftr Trk C 150 Deg Phase

ACTIVITY ID: G7JNPFC15001-
START TIME: 97-096/13:12:39.066

Activity ID: Orbit G7 Target J Inst N OAPEL PFC150 SeqNo 01 -

Title	Jupiter Ftr Trk C 150 Deg Phase	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team NIMS	Working Group AWG

Time System CDS Load ID Calendar Date 04/06/97 Week 14

Start	JTB+CDS	00003710:71:0 97-096/13:12:39.066	JTB+002/14:32:00.666
End	JTB+CDS	00003717:00:0 97-096/13:18:56.400	JTB+002/14:38:18.000
Duration		00000006:20:0 000/00:06:17.334	000/00:06:17.334

Top Label G7JNPFC15001-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	98	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of 4 OAPELs constituting the North Terperate Zone (feature C) partial feature campaign. This is the only observation obtained on a rotation with phase angle approximately 153 degrees. Feature C imaged in 25 colors, using NIMS downlink wavelength table JFT25A. This observation acquired with feature near minimum air mass, assuming feature coordinates 20 degrees north latitude and 65 degrees west longitude (System III).

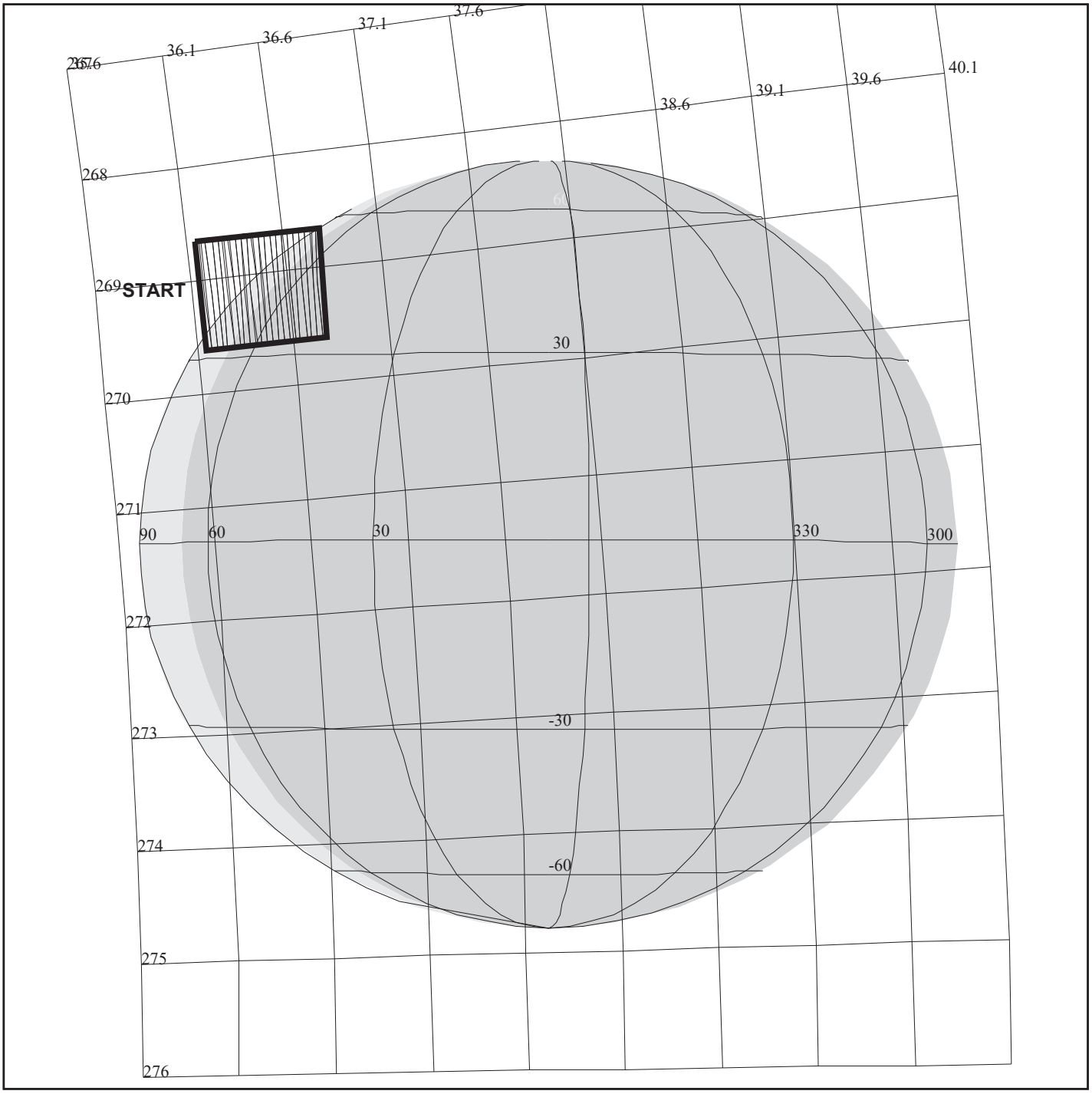
Data Returned

Design Detail

Short map, Nyquist-sampled observation of 1*1 (10*10 mrad) area centered on North Temperate Zone feature near 65 degrees west longitude, 20 degrees north latitude. S/C distance about 1.89 million KM, NIMS IFOV (NIMSel) = 945 KM; 1*1 mosaic covers 18900*18900 KM. About 100 seconds of scanning, accumulating 0.02554 MBTG in 4 colors, and using 0.00336 tracks.
Four rims reserved for targetting. This observation referenced to EPOCH JTB.
NOTE 2/17/97: Colors reduced to 4 to meet downlink budget.

Short Map (SM), Gain 2, Grating Start 1, LPU, G7JFT68C, G7JFT04B

Galileo Activity Plan Form 03/17/97 17:37:39 rev 6/95



165FK:TT= 0 TMC= 1 C= -7.00 XC= 0.00 BS= 0/3763 TC= 1(43 65)
A= 728 pD= 0 SR=17.450 RA50=100.15 DEC50= 26.87 cone= 36.12 clock=269.13
117FK:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/3763
1:#s= 1 Cs= 10.80 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 300 rD= 2

G7JNFEA15003

TARGET G3.1 lisac: 5/ 6/1997 15: 3:44

FILE:P.G7JNFEA15003

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS **F_R_O_Z_E_N___T_M_C**

PERIAPSIS: **THINNING:NIM 2**

START:JTB 97-093/22:40:38.400 +CDS 3730:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750**

OBSERVATION:G7JNFEA15003 **DESCRIP:JUP_FEA_TRK_150_DEG_PHASE_03**

Jupiter Ftr Trk B 150 Deg Phase

ACTIVITY ID: G7JNFEA15003-
START TIME: 97-096/13:27:01.733

Activity ID: Orbit G7 Target J Inst N OAPEL FEA150 SeqNo 03 -

Title	Jupiter Ftr Trk B 150 Deg Phase			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID	Calendar Date	04/06/97	Week 14
Start	JTB+CDS	00003725:00:0	97-096/13:27:01.733	JTB+002/14:46:23.333	
End	JTB+CDS	00003732:00:0	97-096/13:34:06.400	JTB+002/14:53:28.000	
Duration		00000007:00:0	000/00:07:04.667	000/00:07:04.667	

Top Label G7JNFEA15003-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	98	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of 8 OAPELs constituting the partial feature track B of one of the North Tropical Zone at 14 degrees North latitude. This is the only observation obtained on a rotation with phase angle approximately 153 degrees. Jupiter imaged in 25 colors, using NIMS downlink wavelength table JFT25A. This observation acquired with feature near minimum airmass, assuming feature coordinates 43 degrees north latitude and 65 degrees west longitude (System III).

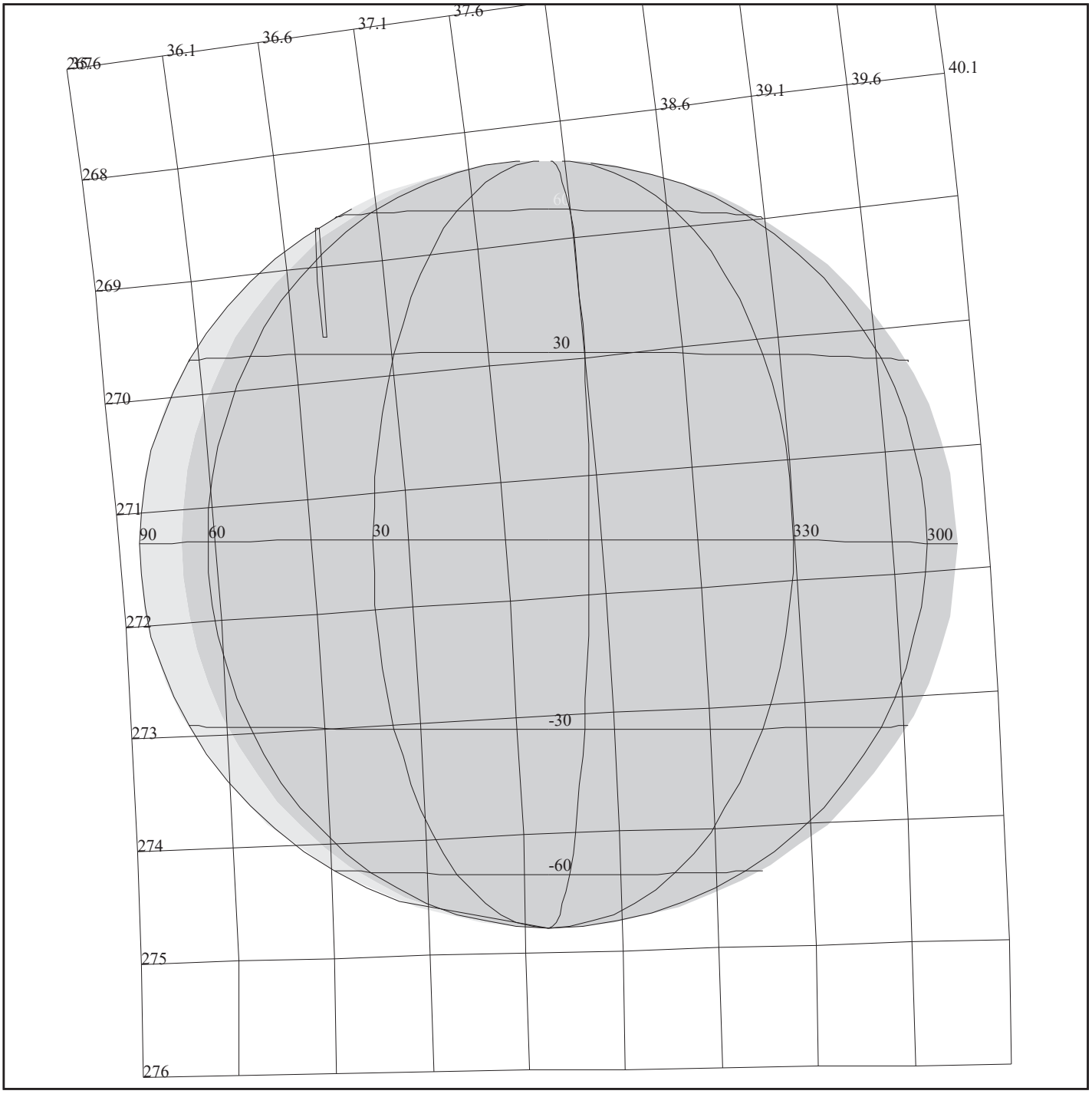
Data Returned

Design Detail

Short map, Nyquist-sampled observation of 1*1 (10*10 mrad) area centered on feature near 65 degrees West longitude, 14 degrees North latitude. S/C distance about 1.89 million KM, NIMS IFOV (NIMSEL) = 945 KM; 1*1 mosaic covers 18900*18900 KM. About 100 seconds of scanning, accumulating 0.02554 mbtg in 4 colors, and using 0.00336 tracks. Four rims reserved for targetting. This observation referenced to EPOCH JTB.
NOTE 2/17/97: Colors cut to 4 to meet downlink budget.
NOTE 2/25/97: Observation swapped with G7JNPFB15001. This one now observes the Little Red Spot at 43 degrees North latitude, 81 degrees West longitude (as recently predicted by the IRTF). OAPEL G7JNPFB15001 observes the North Tropical Zone feature at 14 degrees North, 65 degrees West.

Short Map (SM), Gain 2, Grating Start 1, LPU, G7JFT68C, G7JFT04B

Galileo Activity Plan Form 03/17/97 17:37:39 rev 6/95



165FK:TT= 0 TMC= 1 C= -7.00 XC= 0.00 BS= 0/3763 TC= 1(43 65)
A= 728 pD= 0 SR=17.450 RA50=100.15 DEC50= 26.87 cone= 36.12 clock=269.13
117FK:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/3763
1:#s= 1 Cs= 10.80 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 300 rD= 2

G7NNHEALTH08

TARGET G3.1 lisac: 5/ 6/1997 15: 3:44

FILE:P.G7JNFEA15003

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS **F_R_O_Z_E_N___T_M_C**

PERIAPSIS: **THINNING:NIM 2**

START:JTB 97-093/22:40:38.400 +CDS 3730:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750**

OBSERVATION:G7JNFEA15003 **DESCRIP:JUP_FEA_TRK_150_DEG_PHASE_03**

NIMS Health Observation

ACTIVITY ID: G7NNHEALTH08-
START TIME: 97-096/15:14:12.400

Activity ID: Orbit G7 Target N Inst N OAPEL HEALTH SeqNo 08 -

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

Time System	CDS	Load ID	Calendar Date	04/06/97	Week 14
Start	JEE+CDS	00003096:00:0	97-096/15:14:12.400	JEE+002/04:10:24.000	
End	JEE+CDS	00003101:00:0	97-096/15:19:15.733	JEE+002/04:15:27.333	
Duration		00000005:00:0	000/00:05:03.333	000/00:05:03.333	

Top Label G7NNHEALTH08-
Bottom Label

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

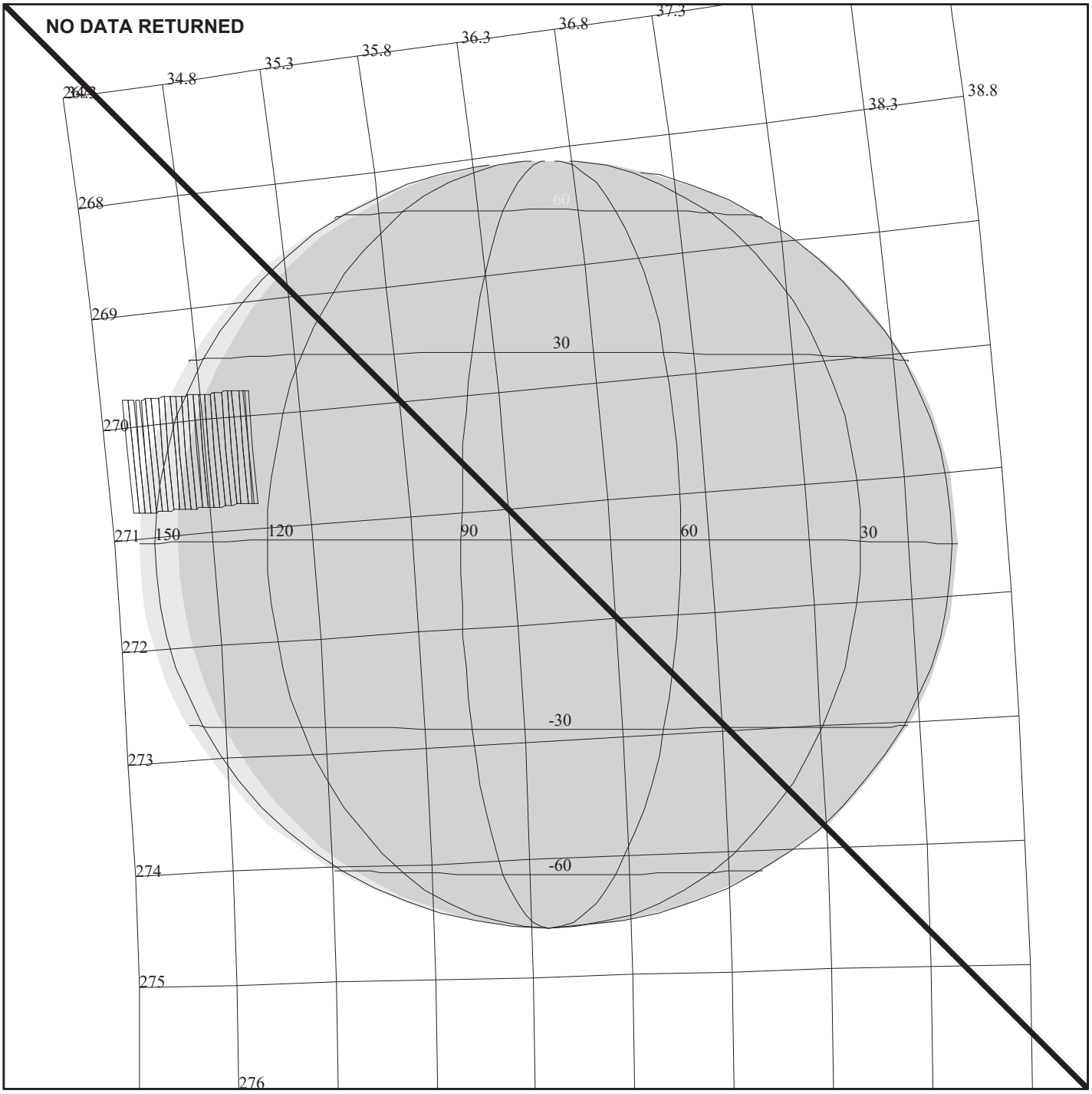
Observation Objective

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

Data Returned

Design Detail

Long Map (LM), Gain 2, Grating Start 0, R/T, G7RCVY3



165FL:TT= 0 TMC= 1 C= -2.00 XC= 0.00 BS= 0/5785 TC= 1(14 160)
A= 728 pD= 0 SR=17.450 RA50=101.88 DEC50= 25.90 cone= 34.41 clock=270.26
117FL:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/5785
1:#s= 1 Cs= 10.80 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 300 rD= 2

G7JNFEZ15701

TARGET G3.1 lisac: 5/ 6/1997 15: 3:44

FILE:P.G7JNFEZ15701

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS **F_R_O_Z_E_N___T_M_C**

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-094/11:03:48.400 +CDS 3116:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750**

OBSERVATION:G7JNFEZ15701 **DESCRIP:JUP_FEA_TRK_157_DEG_PHASE_01**

Jupiter Ftr Trk Z 157 Deg Phase pt 1 ACTIVITY ID: G7JNFEZ15701-
START TIME: 97-096/15:29:22.400

Activity ID: Orbit G7 Target J Inst N OAPEL FEZ157 SeqNo 01 -

Title	Jupiter Ftr Trk Z 157 Deg Phase pt 1	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team NIMS	Working Group AWG

Time System	CDS	Load ID	Calendar Date	04/06/97	Week 14
Start	JEE+CDS	00003111:00:0	97-096/15:29:22.400	JEE+002/04:25:34.000	
End	JEE+CDS	00003118:00:0	97-096/15:36:27.066	JEE+002/04:32:38.666	
Duration		00000007:00:0	000/00:07:04.666	000/00:07:04.666	

Top Label G7JNFEZ15701-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	98	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of 3 OAPELs constituting the limited feature track for Feature Z at 14 degrees North latitude. This is the first observations obtained on a rotation with phase angle approximately 157 degrees. Feature Z imaged in 4 colors, using NIMS downlink wavelength table JFT04A. This observation acquired with feature near the bright limb, assuming feature coordinates 14 degrees north latitude and 160 degrees west longitude (System III).

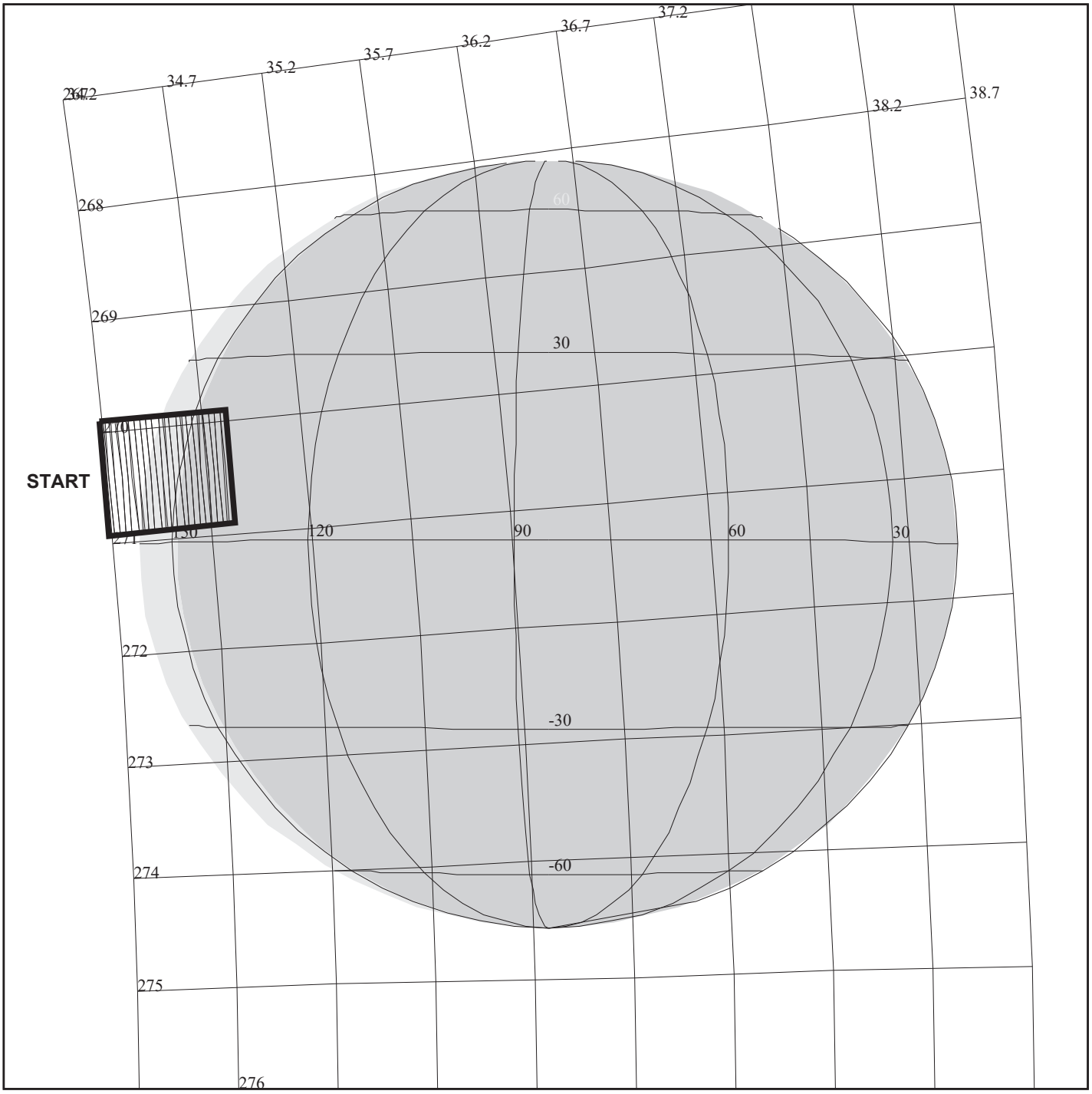
No Data Returned

Design Detail

Short map, Nyquist-sampled observation of 1*1 (10*10 mrad) area centered on 160 deg. west longitude, 14 degrees North latitude (observation is restricted to this longitude due to other S/C constraints, see below). S/C distance about 2.06 million KM, NIMS IFOV (NIMSEL) = 1030 KM; 1*1 mosaic covers 20600*20600 KM. About 100 seconds of scanning, accumulating 0.02554 MBTG in 4 colors, and using 0.00336 tracks. Four rims reserved for targetting. This observation referenced to EPOCH JEE. This observation has been moved from its original time of JTB+cds4294 to 4300 because we can not extend the G7A end load boundary to cover the original time. The longitude is now fixed at 160 degrees west. The phase is now 153 degrees.

Short Map (SM), Gain 2, Grating Start 1, LPU, G7JFT68C, G7JFT04

Galileo Activity Plan Form 03/17/97 17:37:39 rev 6/95



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A= 728 pD= 0 SR=17.450 RA50=102.21 DEC50= 25.87 cone= 34.15 clock=270.41
117FM:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/7969
1:#s= 1 Cs= 10.80 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 300 rD= 2

G7JNFEZ15702

TARGET G3.1 lisac: 5/ 6/1997 15: 3:44

FILE:P.G7JNFEZ15702

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS **F_R_O_Z_E_N___T_M_C**

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-094/11:03:48.400 +CDS 3128:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750**

OBSERVATION:G7JNFEZ15702 **DESCRIP:JUP_FEA_TRK_157_DEG_PHASE_02**

Jupiter Ftr Trk Z 157 Deg Phase pt 2 ACTIVITY ID: G7JNFEZ15702-
START TIME: 97-096/15:41:30.400

Activity ID: Orbit G7 Target J Inst N OAPEL FEZ157 SeqNo 02 -

Title	Jupiter Ftr Trk Z 157 Deg Phase pt 2	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team NIMS	Working Group AWG

Time System CDS Load ID Calendar Date 04/06/97 Week 14

Start	JEE+CDS 00003123:00:0	97-096/15:41:30.400	JEE+002/04:37:42.000
End	JEE+CDS 00003130:00:0	97-096/15:48:35.066	JEE+002/04:44:46.666
Duration	00000007:00:0	000/00:07:04.666	000/00:07:04.666

Top Label G7JNFEZ15702-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	98	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of 3 OAPELs constituting the feature track for Feature Z at 14 degrees North latitude. This is the second observation obtained on a rotation with phase angle approximately 157 degrees. Feature Z imaged in 25 colors, using NIMS downlink wavelength table JFT25A. This observation acquired with feature near minimum airmass, assuming feature coordinates 14 degrees north latitude and 160 degrees west longitude (System III).

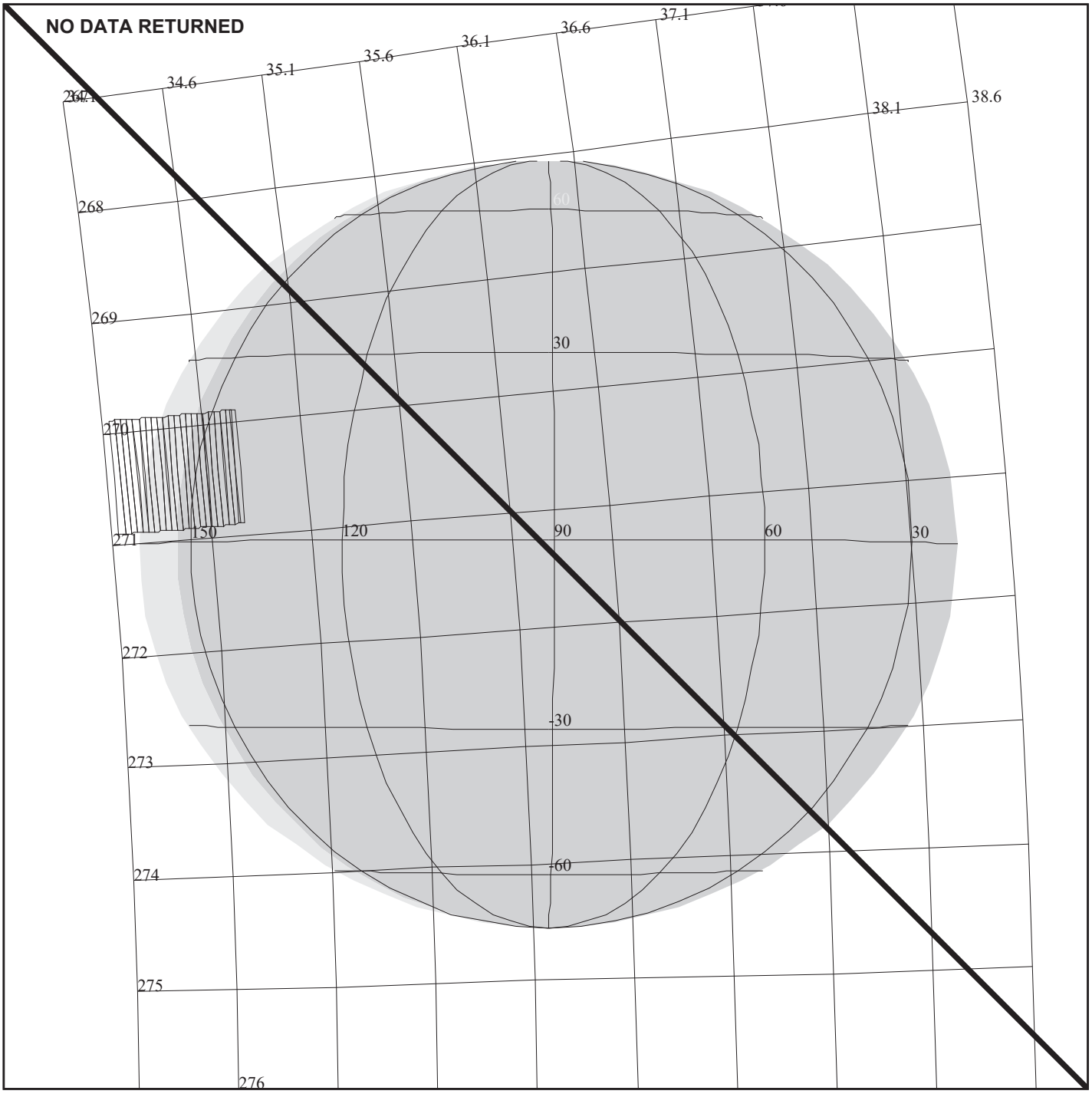
Data Returned

Design Detail

Short map, Nyquist-sampled observation of 1*1 (10*10 mrad) area centered on 160 degrees West longitude, 14 degrees North latitude (Obseervation is restricted to this longitude due to S/C constraints, see below).
S/C distance about 2.05 million KM, NIMS IFOV (NIMSEL) = 1025 KM;
1*1 mosaic covers 20500*20500 KM. About 100 seconds of scanning, accumulating 0.02554 mbtg in 25 colors, and using 0.00336 tracks.
Four rims reserved for targetting. This observation referenced to EPOCH JEE. This observation has been moved from its original time of JTB+CDS 4306 to 4312 because we can not extend the G7A end load boundary to cover the original time. The longitude isnow fixed at 160 degrees west.
The phase is around 153 degrees.
NOTE 2/17/97: Number of colors cut to meet downlink budget.

Short Map (SM), Gain 2, Grating Start 1, LPU, G7JFT68C, G7JFT19C

Galileo Activity Plan Form 03/17/97 17:37:39 rev 6/95



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A= 728 pD= 0 SR=17.450 RA50=102.25 DEC50= 25.87 cone= 34.12 clock=270.39
117FN:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/9607
1:#s= 1 Cs= 10.80 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 300 rD= 2

G7JNFEA15703

TARGET G3.1 lisac: 5/ 6/1997 15: 3:44

FILE:P.G7JNFEA15703

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS **F_R_O_Z_E_N___T_M_C**

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-094/11:03:48.400 +CDS 3137:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750**

OBSERVATION:G7JNFEA15703 **DESCRIP:JUP_FEA_TRK_157_DEG_PHASE_03**

Jupiter Ftr Trk Z 157 Deg Phase pt 3 ACTIVITY ID: G7JNFEZ15703-
START TIME: 97-096/15:50:36.400

Activity ID: Orbit G7 Target J Inst N OAPEL FEZ157 SeqNo 03 -

Title	Jupiter Ftr Trk Z 157 Deg Phase pt 3	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team NIMS	Working Group AWG

Time System CDS Load ID Calendar Date 04/06/97 Week 14

Start	JEE+CDS 00003132:00:0	97-096/15:50:36.400	JEE+002/04:46:48.000
End	JEE+CDS 00003139:00:0	97-096/15:57:41.066	JEE+002/04:53:52.666
Duration	00000007:00:0	000/00:07:04.666	000/00:07:04.666

Top Label G7JNFEZ15703-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	98	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of 3 OAPELs constituting the feature tracks for Feature Z at 14 degrees West latitude. This is the third and last observation obtained on a rotation with phase angle approximately 157 degrees. Feature Z imaged in 4 colors, using NIMS downlink wavelength table JFT04A. This observation acquired with feature near the evening terminator, assuming feature coordinates 14 degrees north latitude and 160 degrees west longitude (System III).

No Data Returned

Design Detail

Short map, Nyquist-sampled observation of 1*1 (10*10 mrad) area centered on 160 degrees West longitude, 14 degrees North latitud (observation is restricted to this longitude due to S/C constraints, see below). S/C distance about 2.05 million KM, NIMS IFOV (NIMSEL) = 1025 KM; 1*1 mosaic covers 20500*20500 KM. About 100 seconds of scanning, accumulating 0.02554 MBTG in 4 colors, and using 0.00336 tracks. Four rim reserved for targetting. This observation referenced to EPOCH JEE. This observation has been moved from its original time of JTB+CDS 4315 to 4321 because we can not move the G7A end load boundary to cover the original time. The longitude is now fixed at 160 degrees west and the phase is about 153 degrees.

Short Map (SM), Gain 2, Grating Start 1, LPU, G7JFT68C, G7JFT04

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NIMS Chopper OFF

ACTIVITY ID: G7NNCHOPOF01-
START TIME: 97-096/16:08:48.400

Activity ID: Orbit G7 Target N Inst N OAPEL CHOPOF SeqNo 01 -

Title	NIMS Chopper OFF			Instrument	NIMS
Requestor	NIMS-SWG/JHUI	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	Calendar Date	04/06/97	Week 14
Start	JEE+CDS 00003150:00:0	97-096/16:08:48.400		JEE+002/05:05:00.000	
End	JEE+CDS 00003160:00:0	97-096/16:18:55.066		JEE+002/05:15:06.666	
Duration	00000010:00:0	000/00:10:06.666		000/00:10:06.666	

Top Label	G7NNCHOPOF01-				
Bottom Label	NIMS				
Plot Key	NIMS	Type	SCI		
CDS Bytes	92	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

To turn NIMS chopper off and put NIMS in SAFE mode after the last observation in G7A load.

Design Detail

Use two 37IST commands to turn the NIMS instrument's chopper off
37IST,1,0,0,OFF,0,0,0 Chopper 63 Hz
37IST,1,1,0,OFF,0,0,0 Chopper Off
NIMSTAB to reset wavelenth and 37IOP,0,0 (SAFE MODE)

POWER MODE CAL/DEC NIMS REC CAL ACTIVITY ID: G7NNRCTRLT01-
START TIME: 97-098/17:16:11.466

Activity ID: Orbit G7 Target N Inst N OAPEL RCTRLT SeqNo 01 -

Title	POWER MODE CAL/DEC NIMS REC CAL			Instrument	NIMS
Requestor	NIMS-SWG/JHUI		Team NIMS	Working Group	SWG

Time System	CDS	Load ID	Calendar Date	04/08/97	Week 15
Start	RTA-CDS	00000000:00:0	97-098/17:16:11.466	RTA-000/00:00:00.000	
End	RTA+CDS	00000787:00:0	97-099/06:31:56.132	RTA+000/13:15:44.666	
Duration		00000787:00:0	000/13:15:44.666	000/13:15:44.666	

Top Label	G7NNRCTRLT01-				
Bottom Label	NIMS				
Plot Key	NIMS	Type	SCI		
CDS Bytes	447	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

This observation is a NIMS radiometric calibration using the RCT target.
the data will be used to calibrate the NIMS thermal detectors.
The calibration data will be returned using Real-time Telemetry.
This calibration will take place after the +3 day OTM.

Data Returned

Design Detail

This is a Library Sequence.

The Dark cone angle must be selected using Pointer.
1) Turn on RCT Heaters for 12 hours.
2) Set Engineering Variable Map to return NIMS Temps more frequently.
3) Set NIMS to Long Map Mode, Gain state 1, Chopper Reference,
Mirror Blocking (11011,11011), ETB=RCT252.
4) Pause playback before using scan platform.
5) Slew to Dark (cone = 119.7), return 1 grating cycle (12 mf) in R/T
6) Slew to RCT (cone = 0.0), return 2 grating cycles (12 mf) in R/T
7) Slew to Dark (cone = 119.7), return 1 grating cycle (12 mf) in R/T
8) Slew to Safe (cone = 153.0)
9) Set NIMS to Safe Mode and turn off Chopper.
10) Resume Playback after using scan platform.

Long Map (LM), Gain 1, Grating Start 0, R/T, G7RCT252

Galileo Activity Plan Form 03/17/97 17:37:40 rev 6/95 f

NIMS PCT Real Time Calibration

ACTIVITY ID: G7NNPCTRLT01-
START TIME: 97-103/20:49:39.200

Activity ID: Orbit G7 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	Calendar Date	04/13/97	Week 15
Start	PCT+CDS	00000000:00:0	97-103/20:49:39.200	PCT+000/00:00:00.000	
End	PCT+CDS	00000434:00:0	97-104/04:08:28.533	PCT+000/07:18:49.333	
Duration		00000434:00:0	000/07:18:49.333	000/07:18:49.333	

Top Label	G7NNPCTRLT01-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	0	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	ALL	DMS	No

Observation Objective

This observation is a NIMS photometric calibration using the PCT target.
The data will be used to calibrate the NIMS visible detectors.
The calibration data will be in Real-Time. This calibration will take place near the end of the G7 Encounter phase.
At this time the off sun angle is about 8.5 degrees.

Data Returned

Design Detail

The Dark cone, clock angles must be slected using Pointer.
1) Turn off PCT heaters 6 hours before calbiration.
2) Set NIMS to Long Map Mode, Gain State 4, ETB = PCT252,
3) Slew to Dark (cone = 110.00, clock = 90.00), Real-Time, 1 Rim
4) Slew to PCT (cone = 54.88, clock = 244.07), Real-Time, 10 Rims
5) Slew to Safe (cone = 153.00, clock = 0.00).

Long Map (LM), Gain 4, Grating Start 0, R/T, G7PCT252.

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NIMS OPCAL

ACTIVITY ID: G7NNOPCAL_01-
START TIME: 97-121/00:54:21.733

Activity ID: Orbit G7 Target N Inst N OAPEL OPCAL_ SeqNo 01 -

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

Time System	CDS	Load ID	Calendar Date	05/01/97	Week 18
Start	JEE+CDS	00037850:00:0	97-121/00:54:21.733	JEE+026/13:50:33.333	
End	JEE+CDS	00037872:00:0	97-121/01:16:36.400	JEE+026/14:12:48.000	
Duration		00000022:00:0	000/00:22:14.667	000/00:22:14.667	

Top Label	G7NNOPCAL_01-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	0	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	ALL	DMS	No

Observation Objective

Data Returned

Design Detail

Long Map (LM), Gain 4, Grating Start 0, R/T, OPCAL120

Galileo Activity Plan Form 03/17/97 17:37:40 rev 6/95

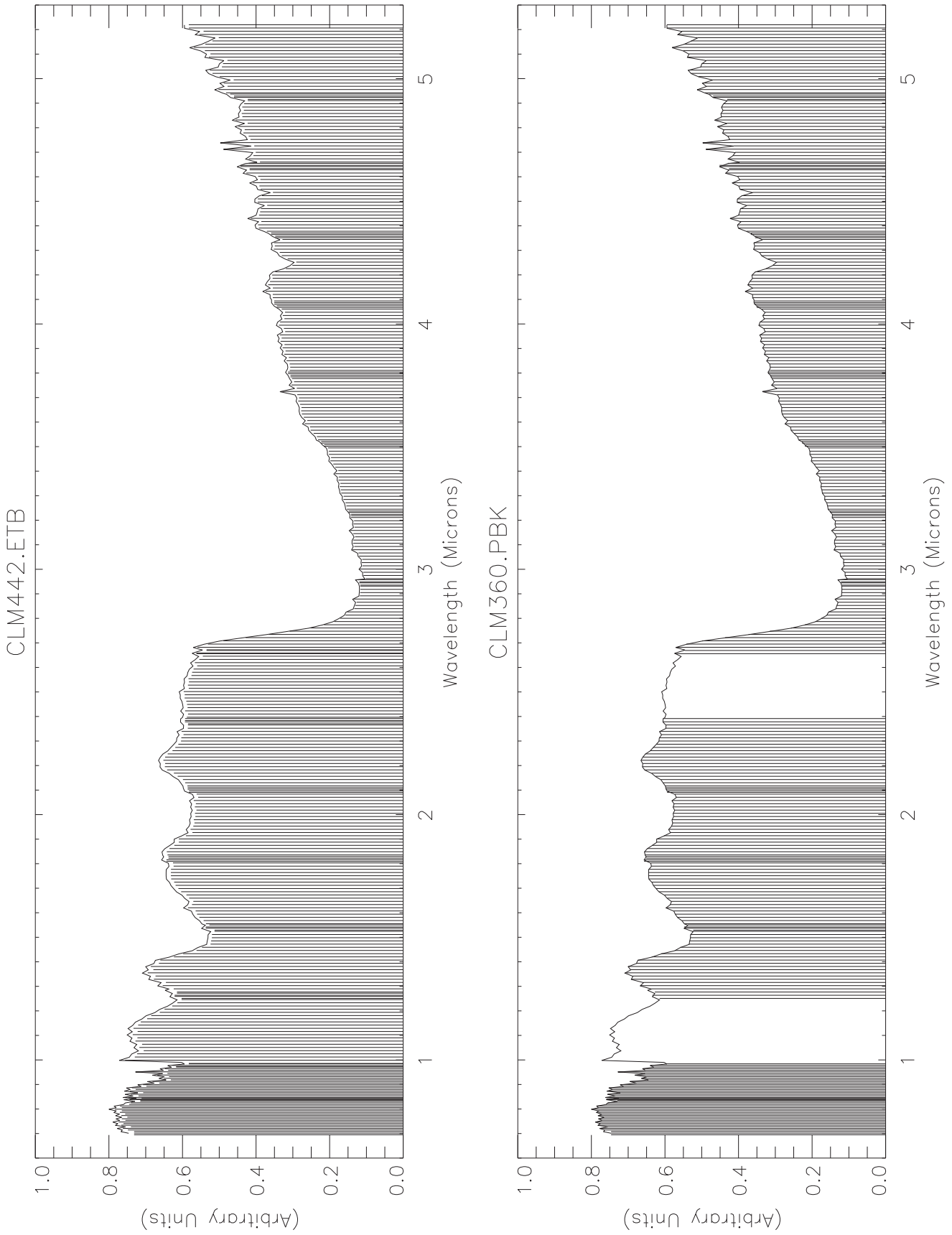
Chapter 6 - Edit Tables

Contents

Introduction to Chapter 6

NIMS Edit Table Plots

This chapter contains plots of the NIMS Edit Tables used in G7. The representative spectra used in these plots are observational reference spectra for the target body as obtained from telescopic observations from the Earth. Each reference spectrum is a composite of multiple published sources. Vertical lines below the reference curves mark the wavelengths selected for return. Where no spectral information is available, the selected wavelengths are shown as lines with amplitude equal to .05 on the vertical axis.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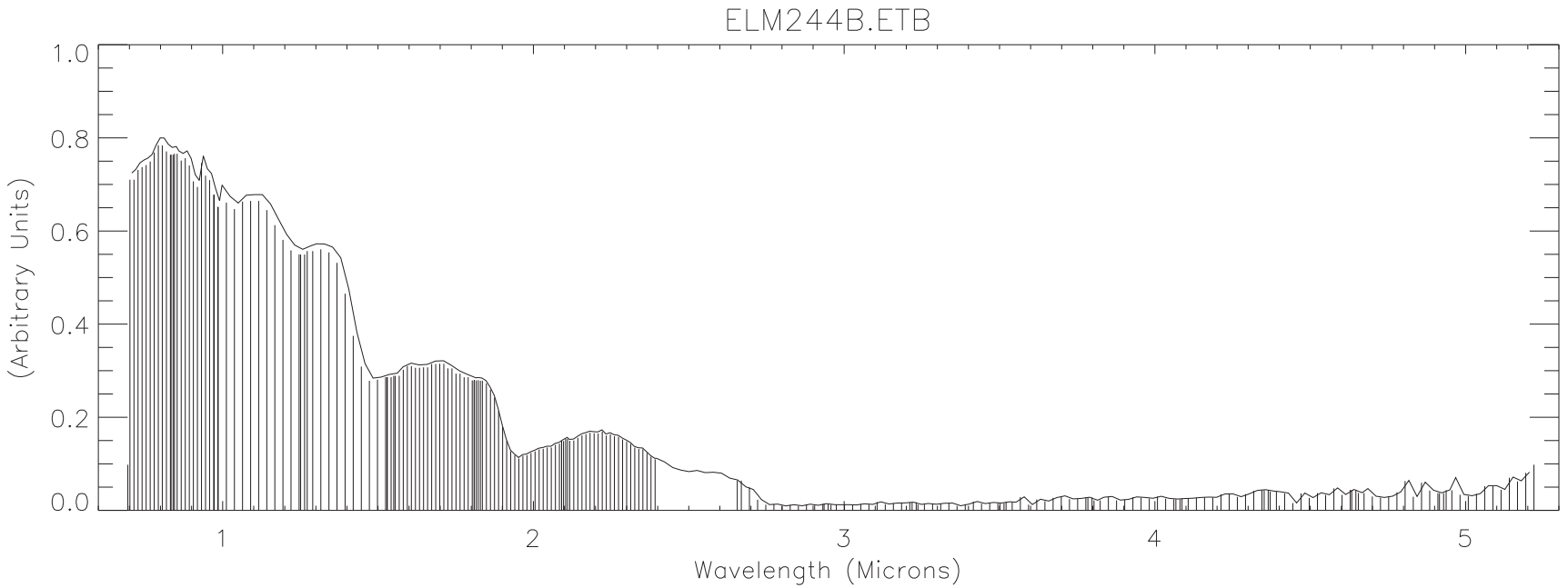
1
2
3
4
5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(Arbitrary Units)
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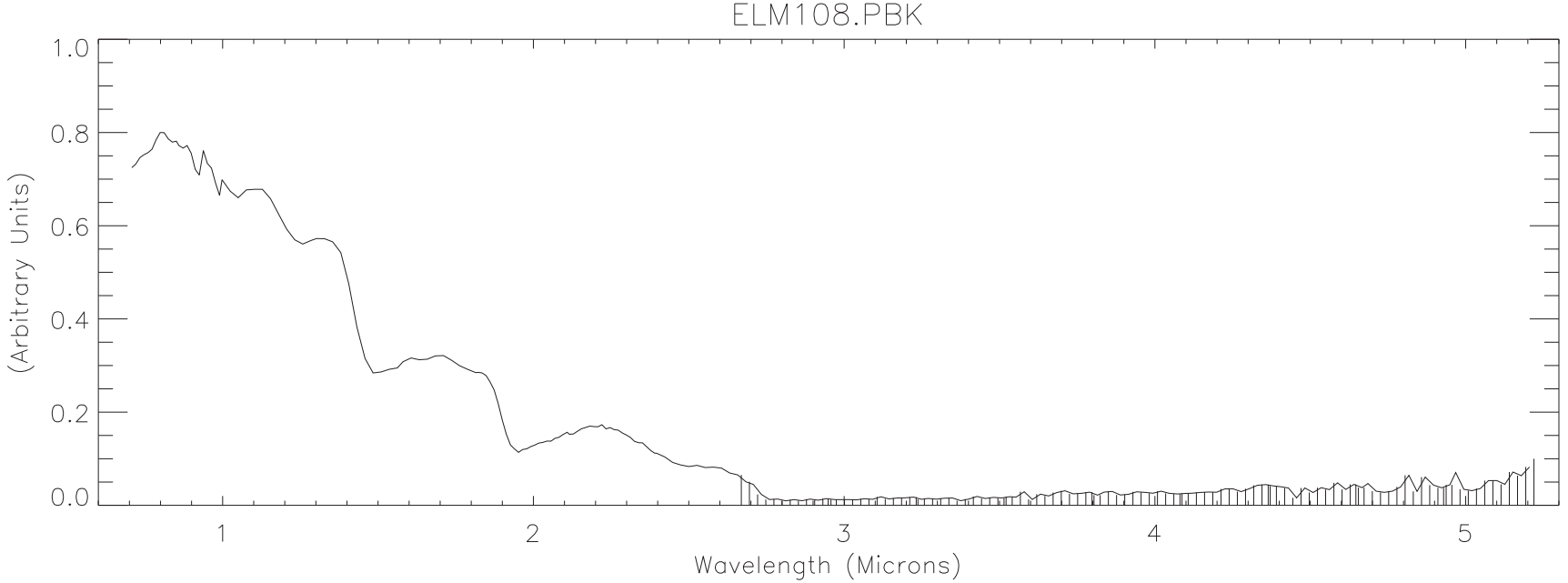
2
3
4
5
Wavelength (Microns)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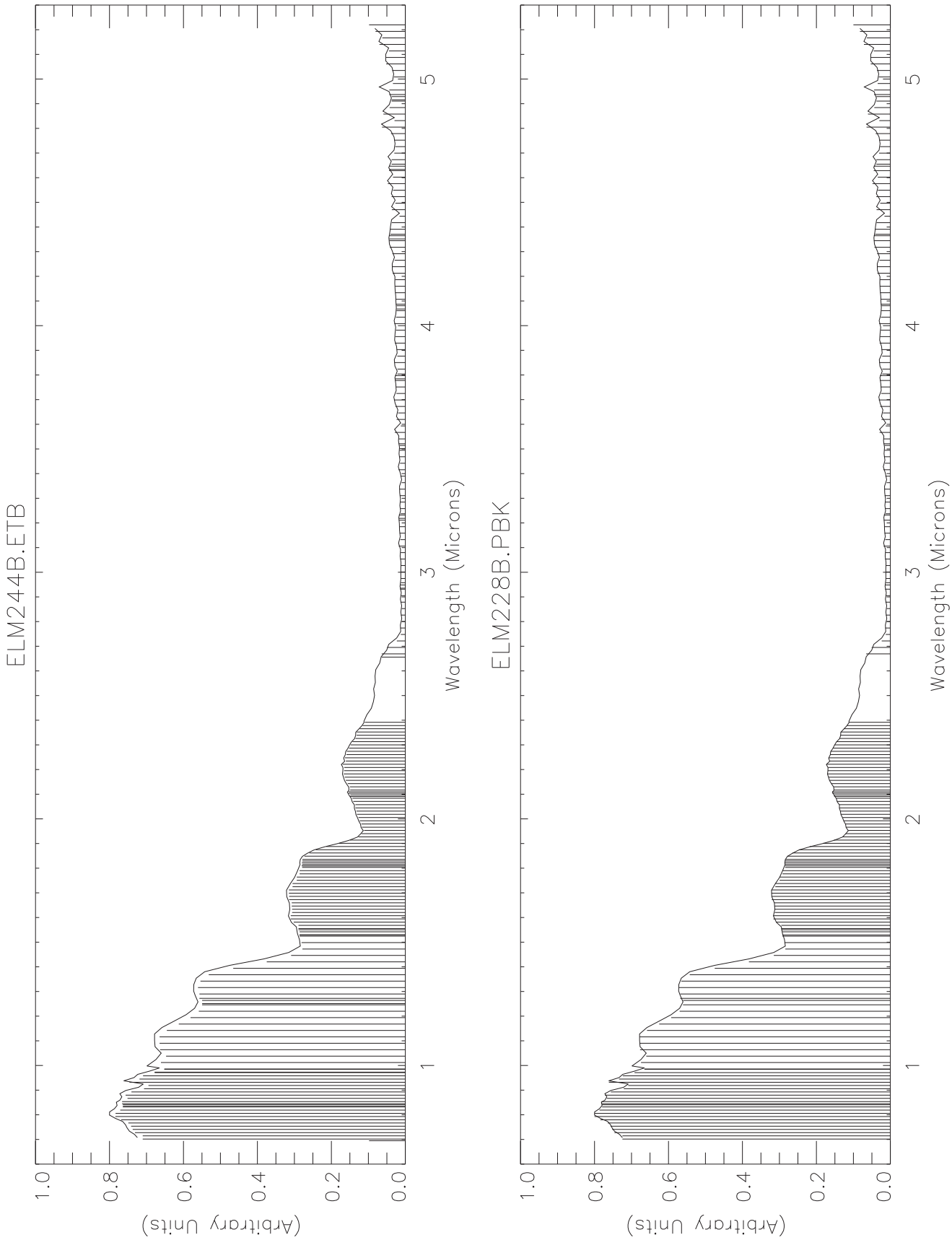
Wavelength (Microns)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4
5
Wavelength (Microns)
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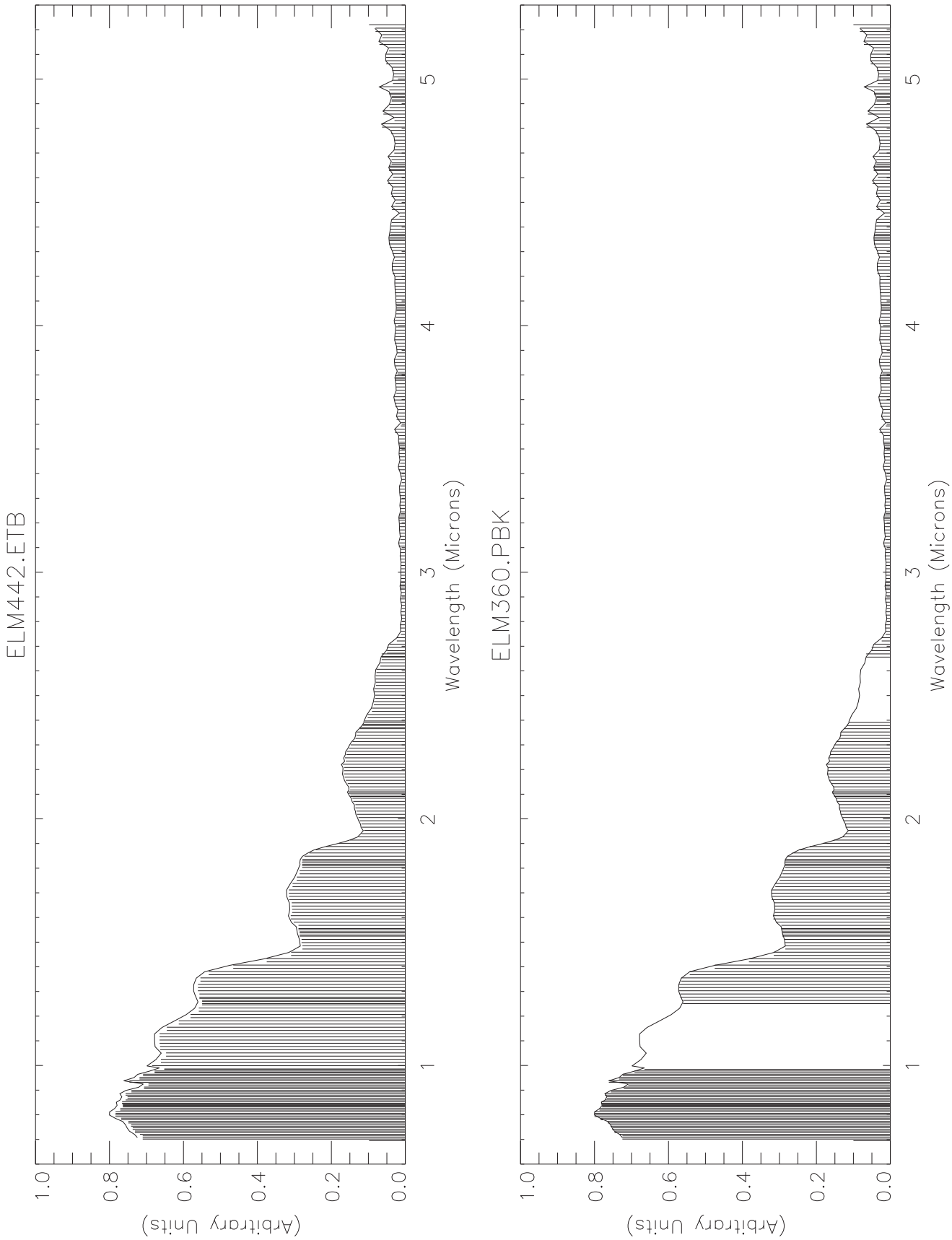
3
4
5
Wavelength (Microns)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2
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4
5
Wavelength (Microns)
ELM360.PBK
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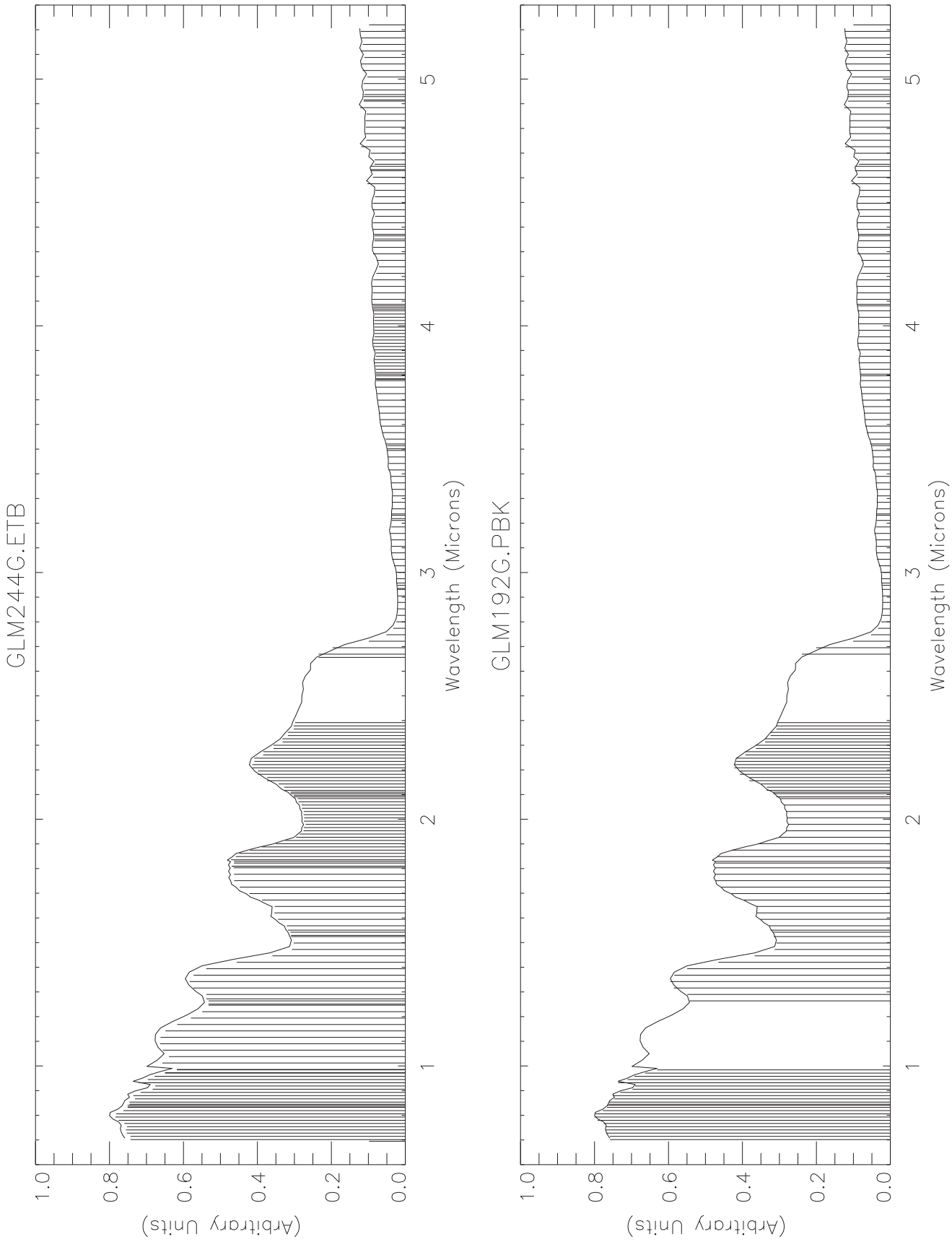
1
2
3
4
5
Wavelength (Microns)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4
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Wavelength (Microns)
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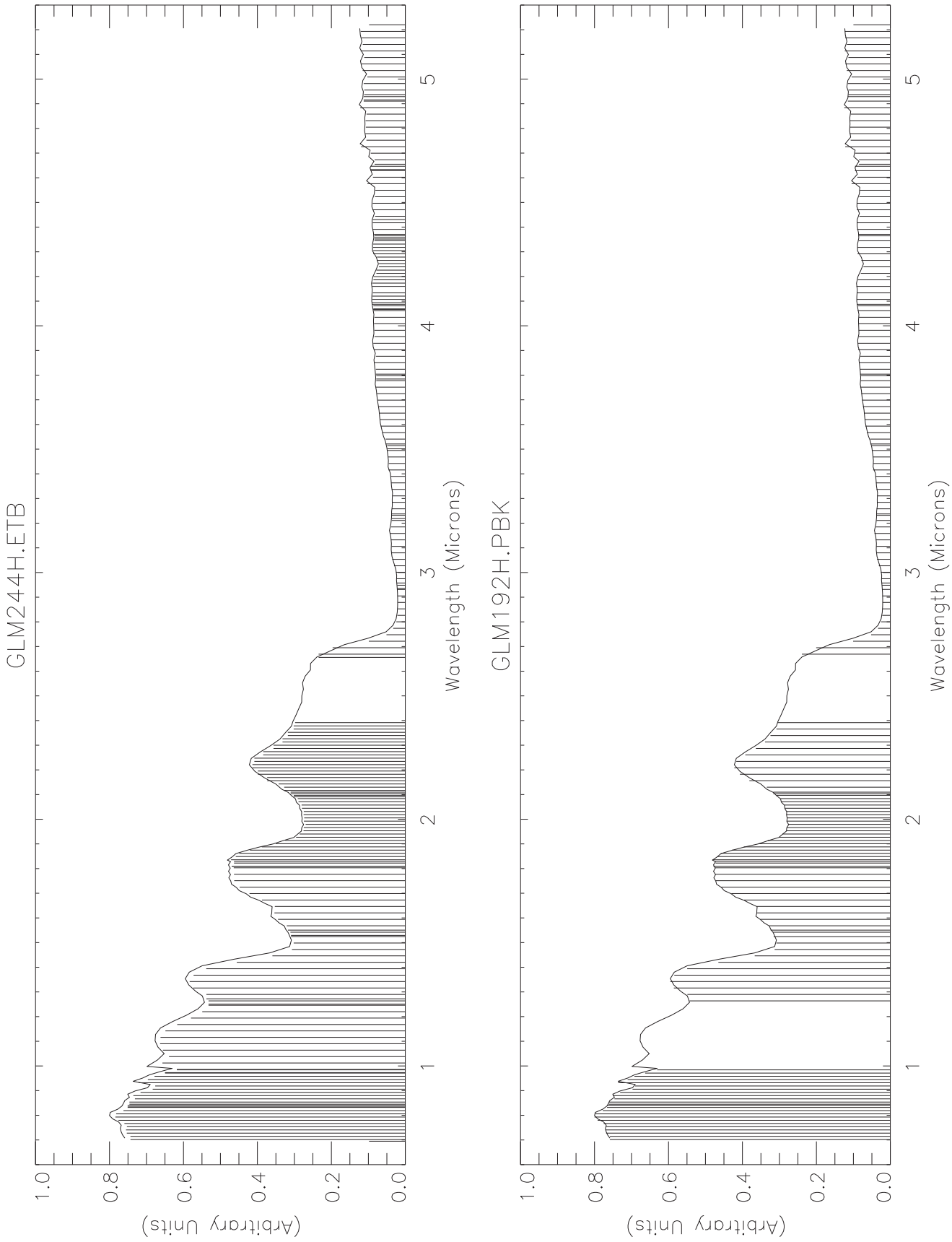
2
3
4
5
Wavelength (Microns)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3
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5
Wavelength (Microns)
GLM192H.PBK
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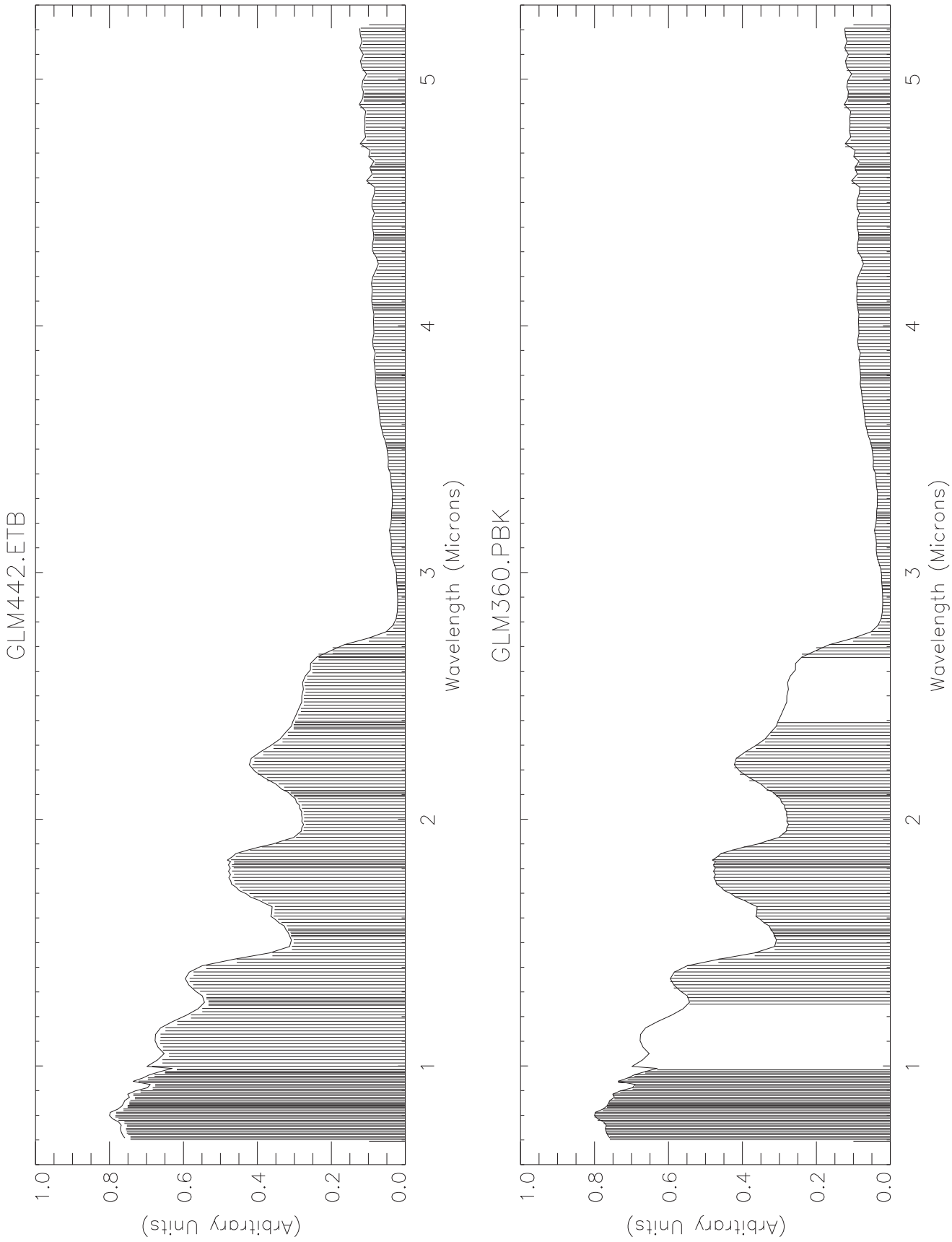
0.6
0.4
0.2
0.0
1
2
3
4
5
Wavelength (Microns)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1
2
3
4
5
Wavelength (Microns)
GLM360.PBK
(Arbitrary Units)
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0.4
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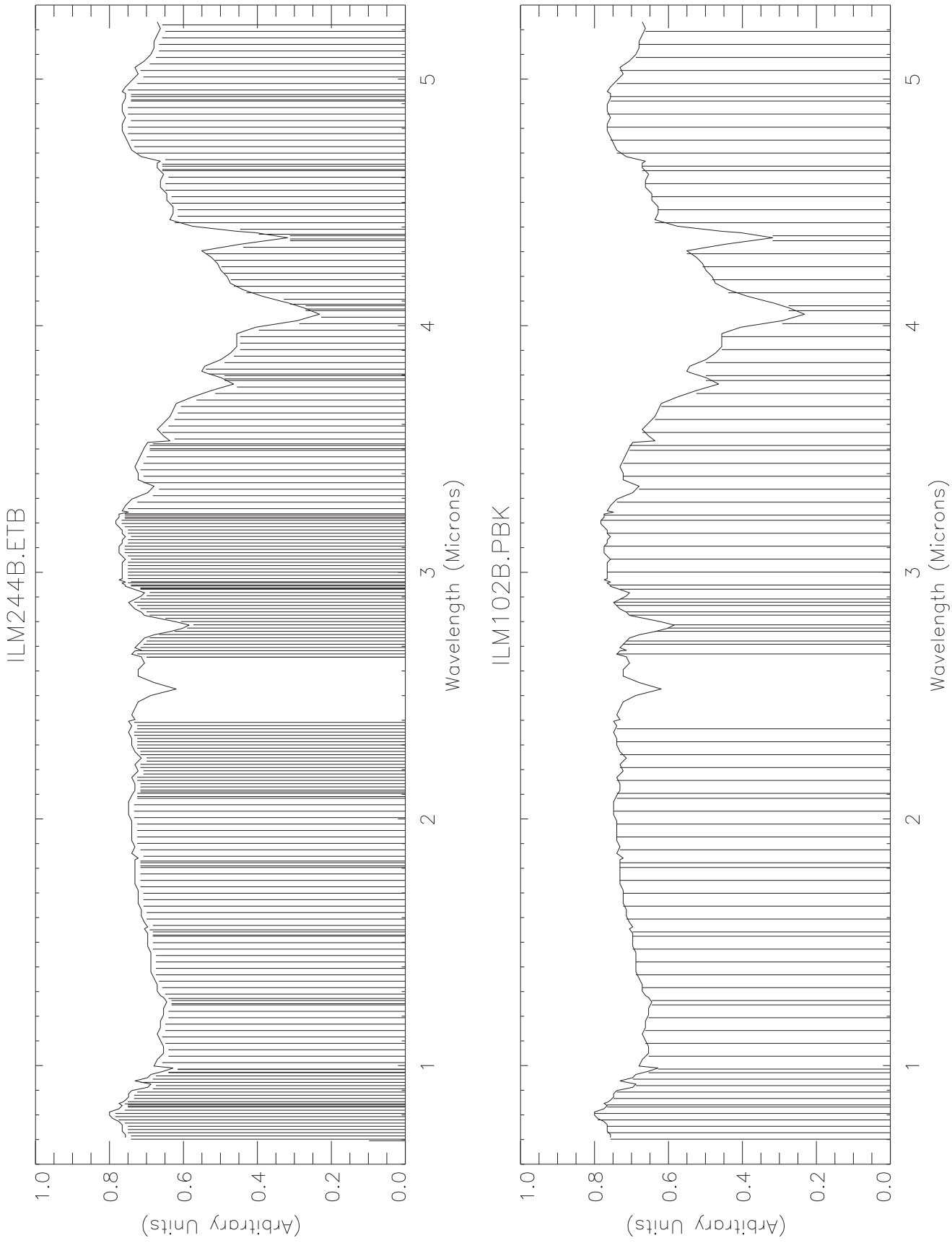
0.0
1
2
3
4
5
Wavelength (Microns)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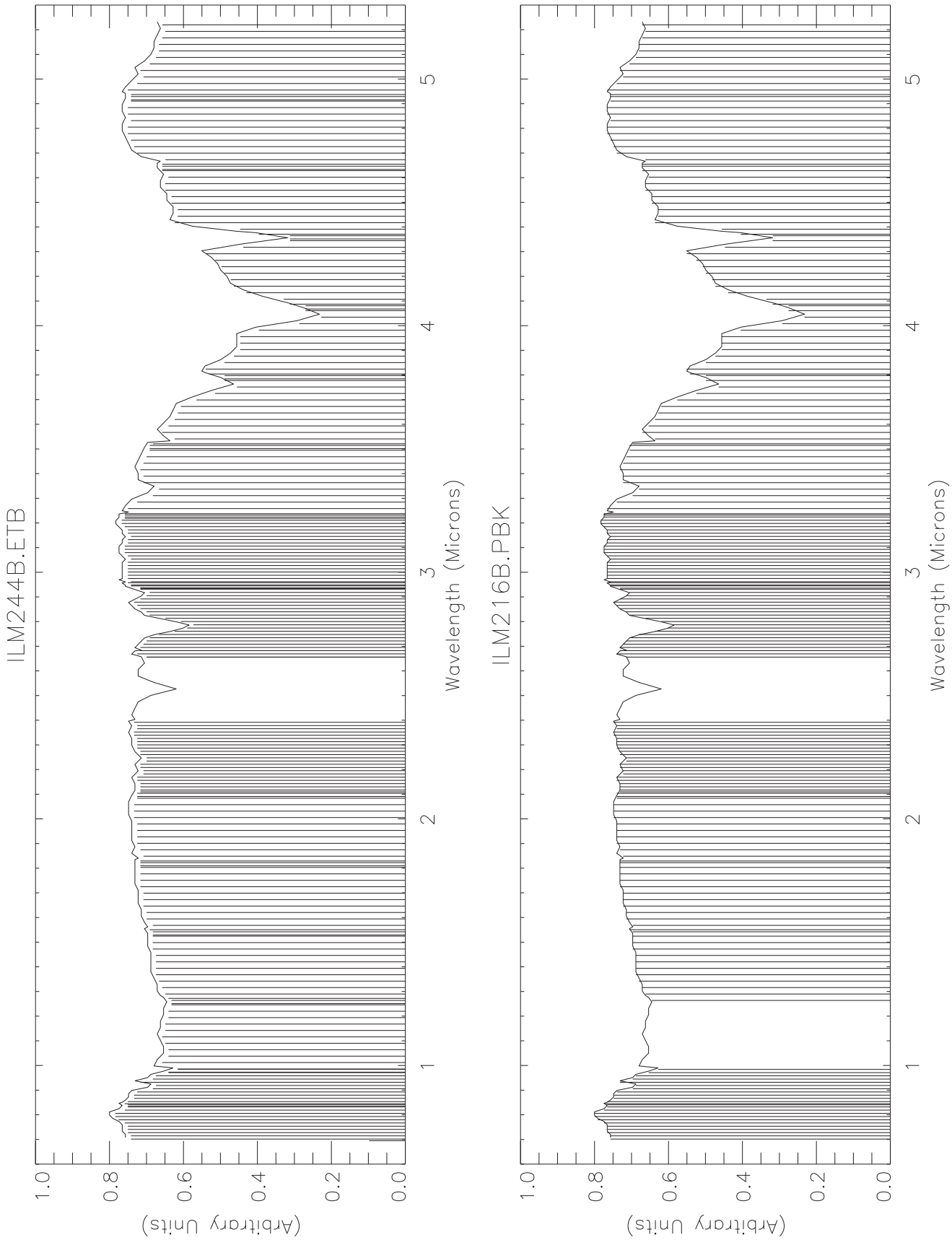
Wavelength (Microns)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4
5
Wavelength (Microns)
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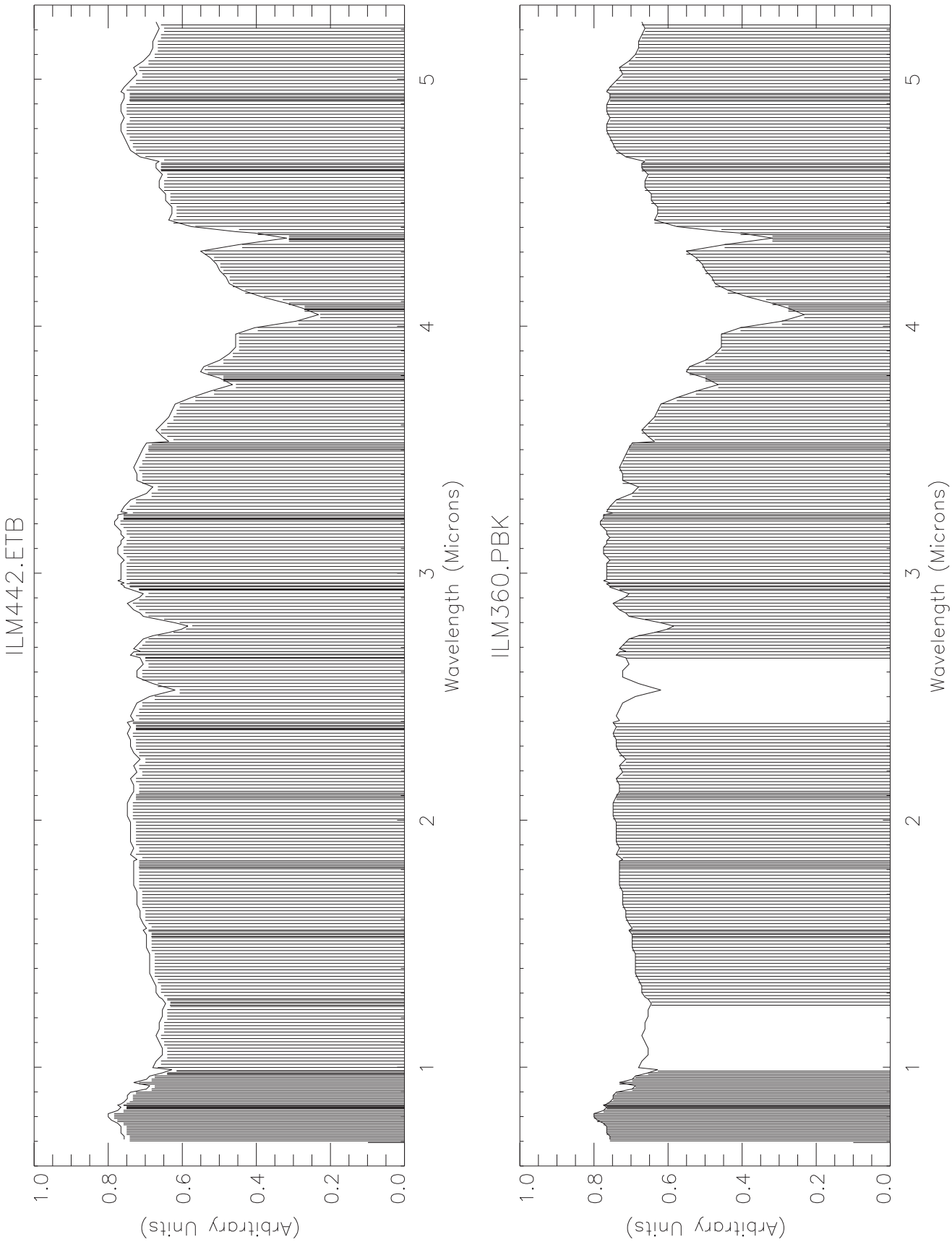
4
5
Wavelength (Microns)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Wavelength (Microns)
ILM360.PBK
(Arbitrary Units)
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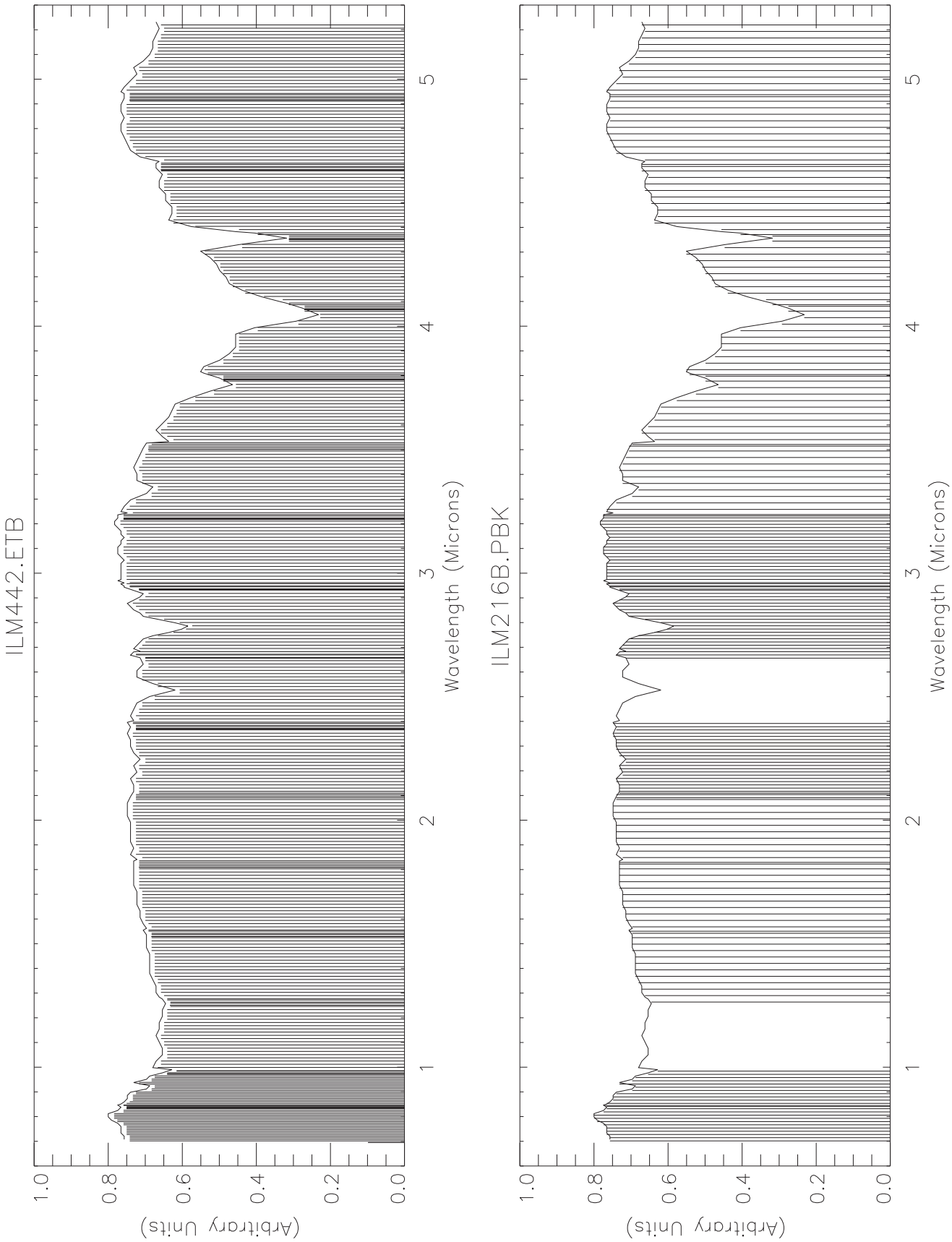
4
5
Wavelength (Microns)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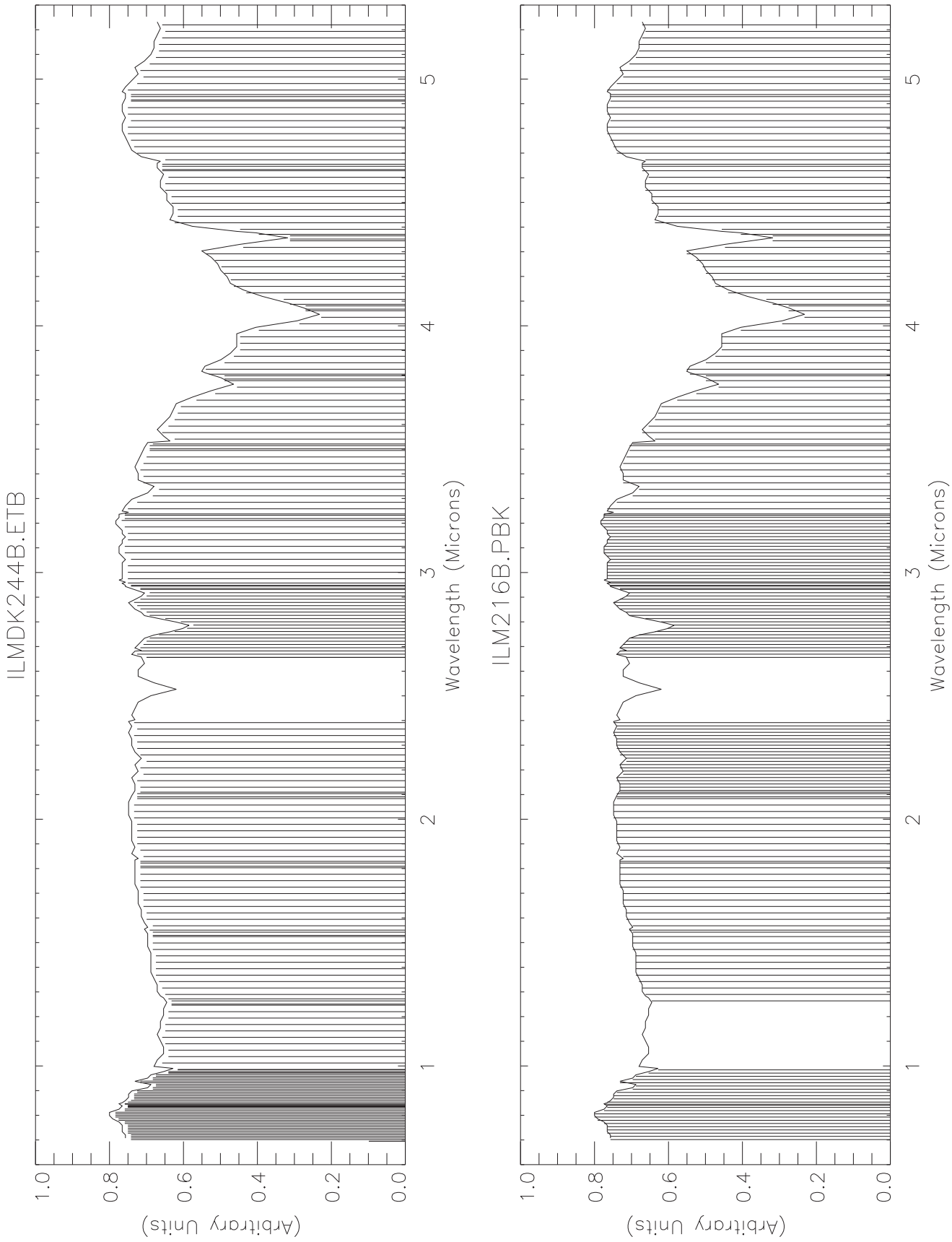
Wavelength (Microns)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4
5
Wavelength (Microns)
ILM216B.PBK
(Arbitrary Units)
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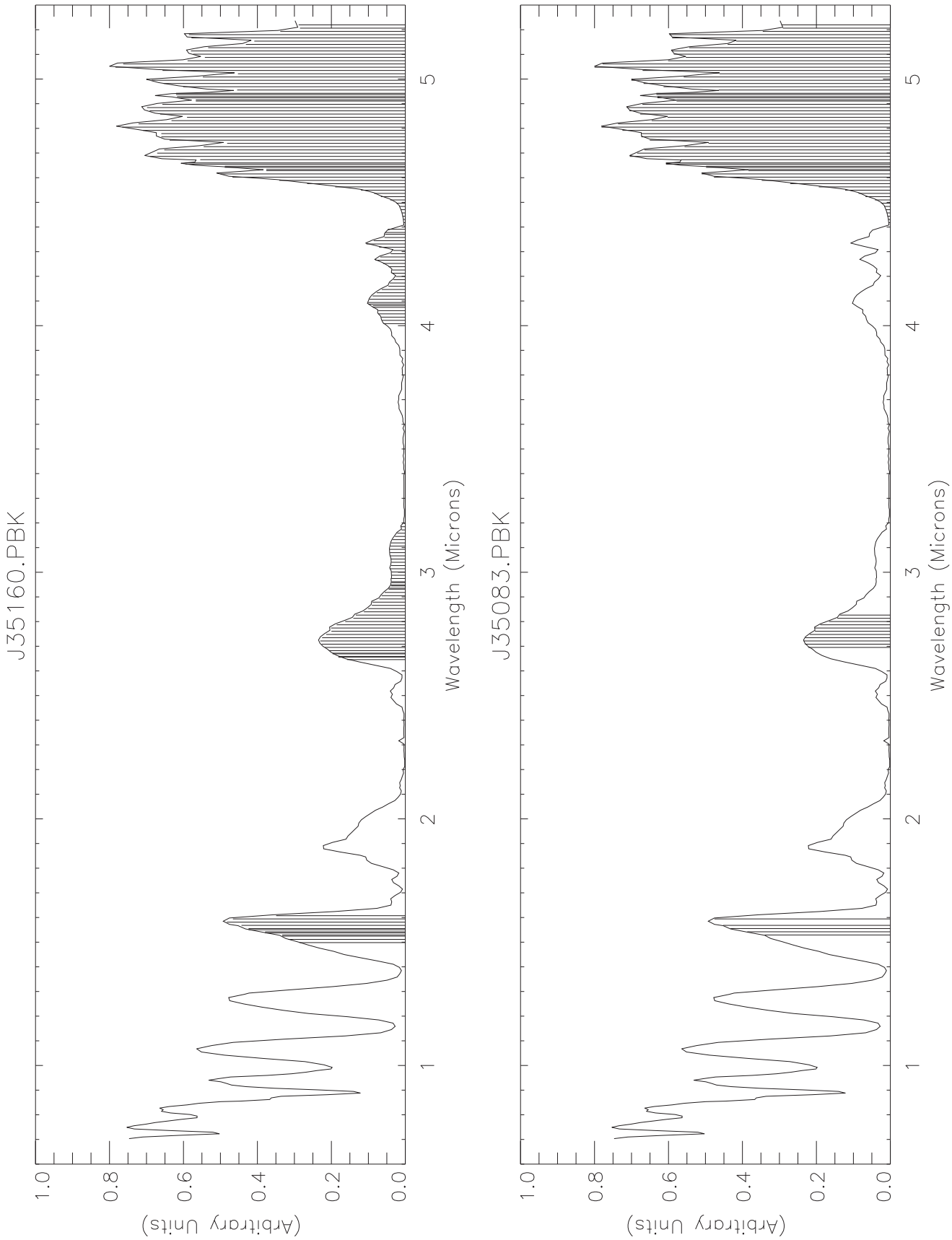
2
3
4
5
Wavelength (Microns)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2
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Wavelength (Microns)
J35083.PBK
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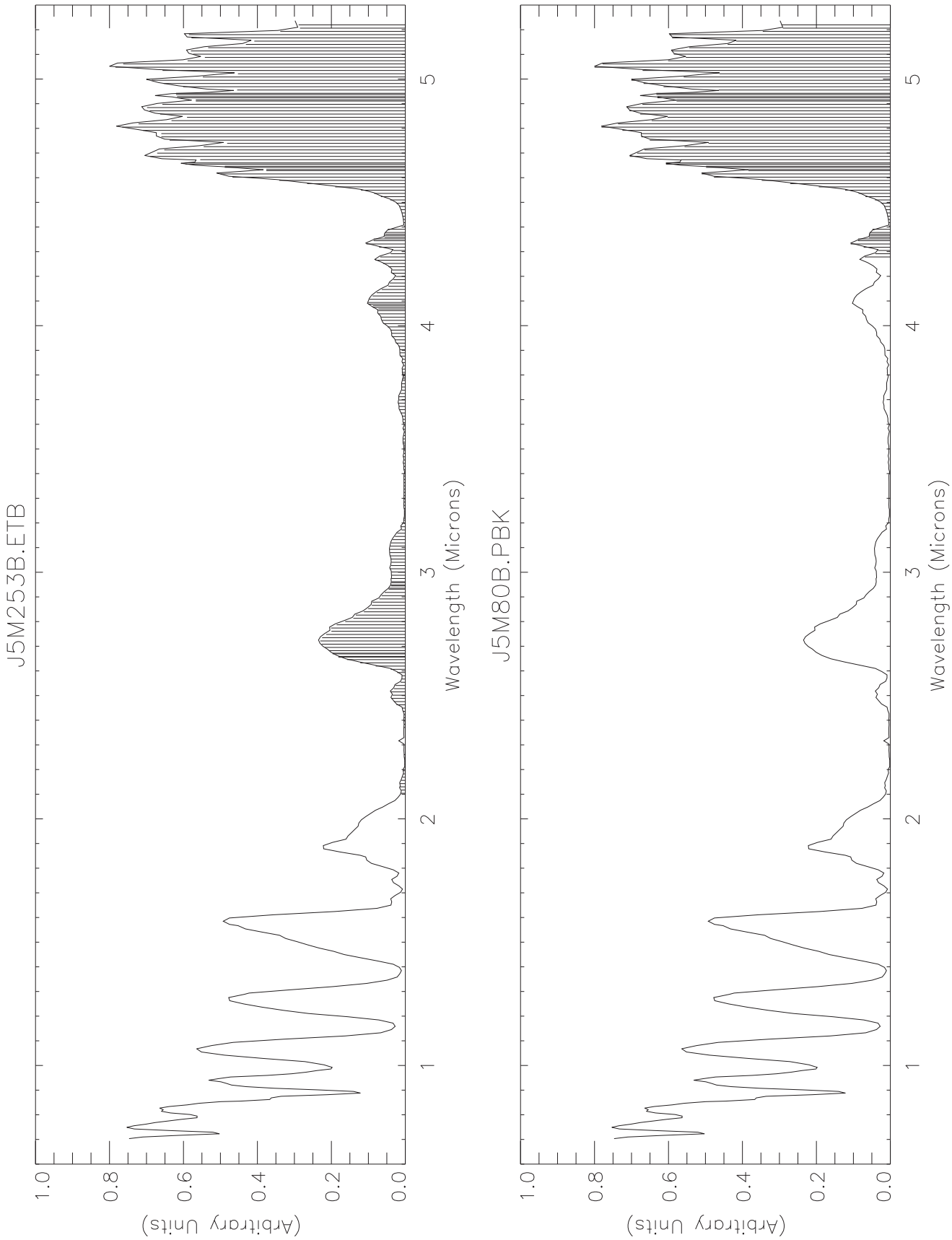
4
5
Wavelength (Microns)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3
4
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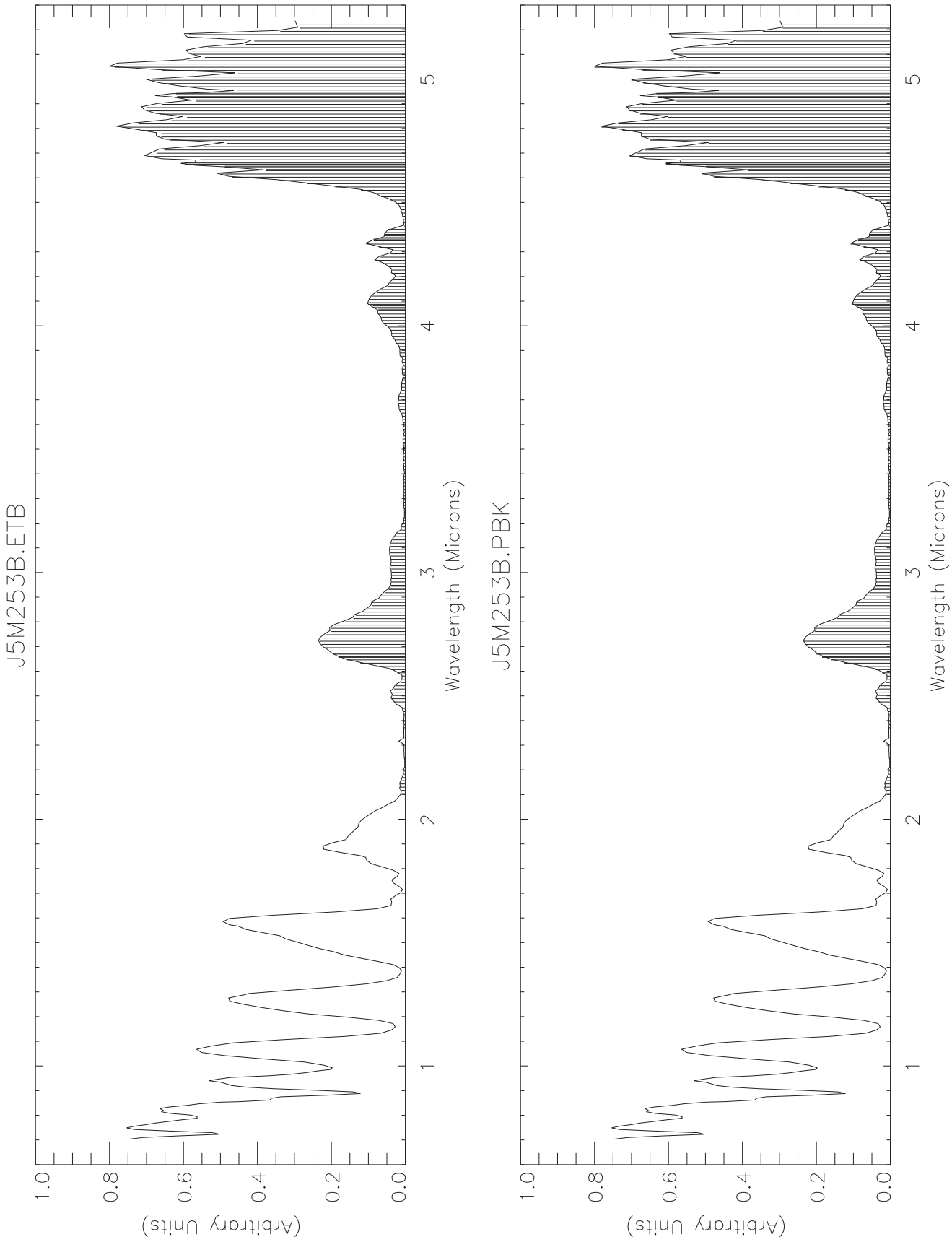
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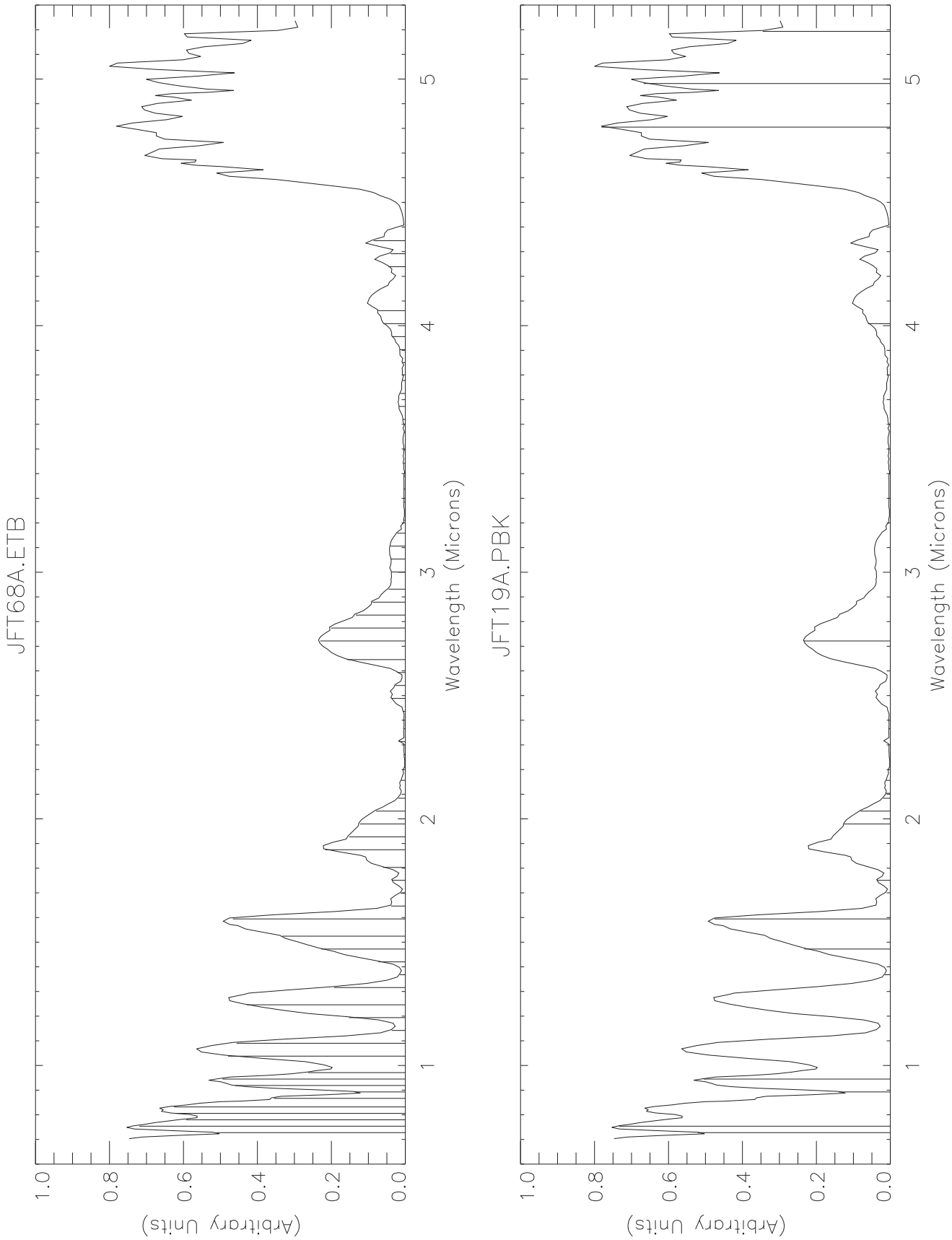
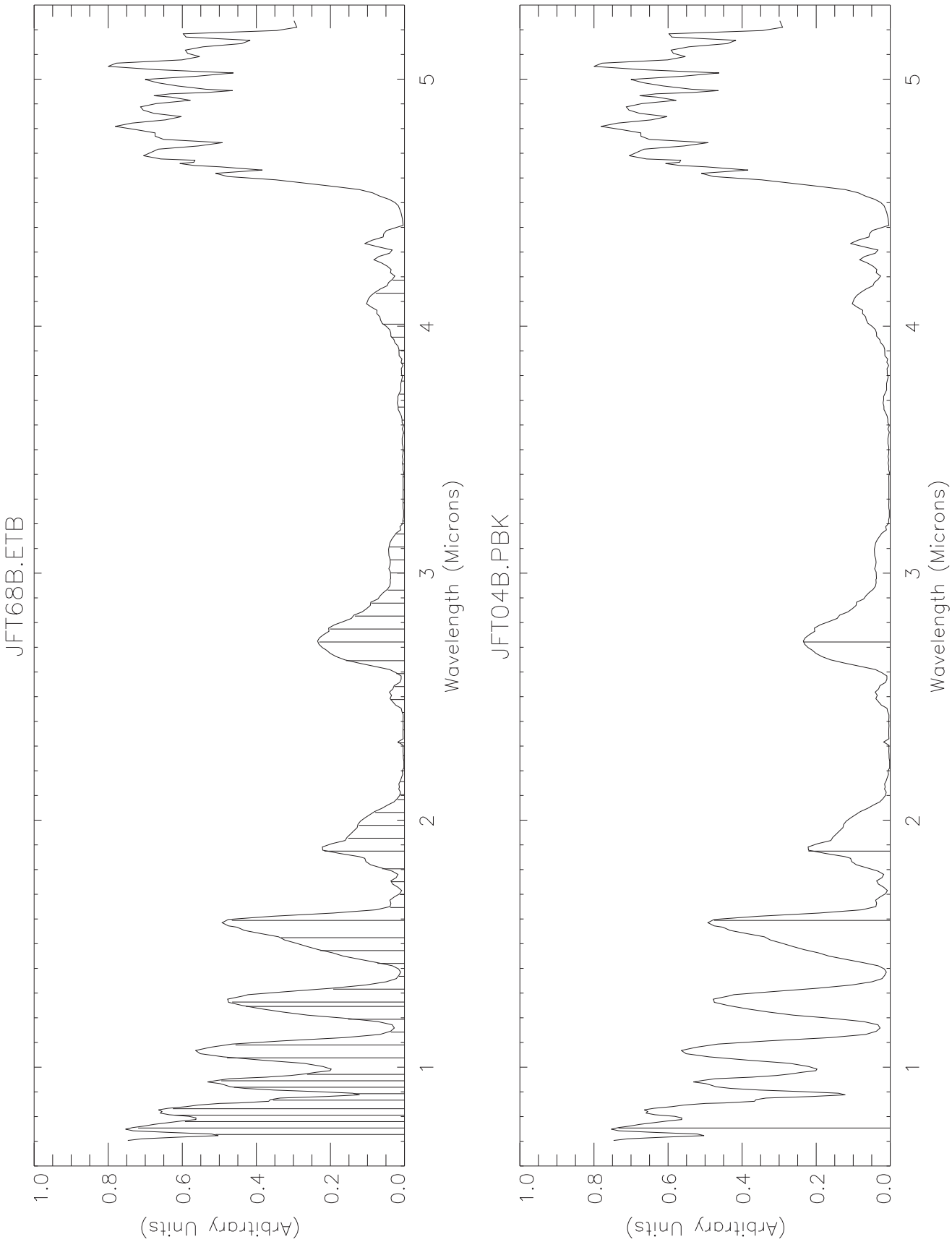
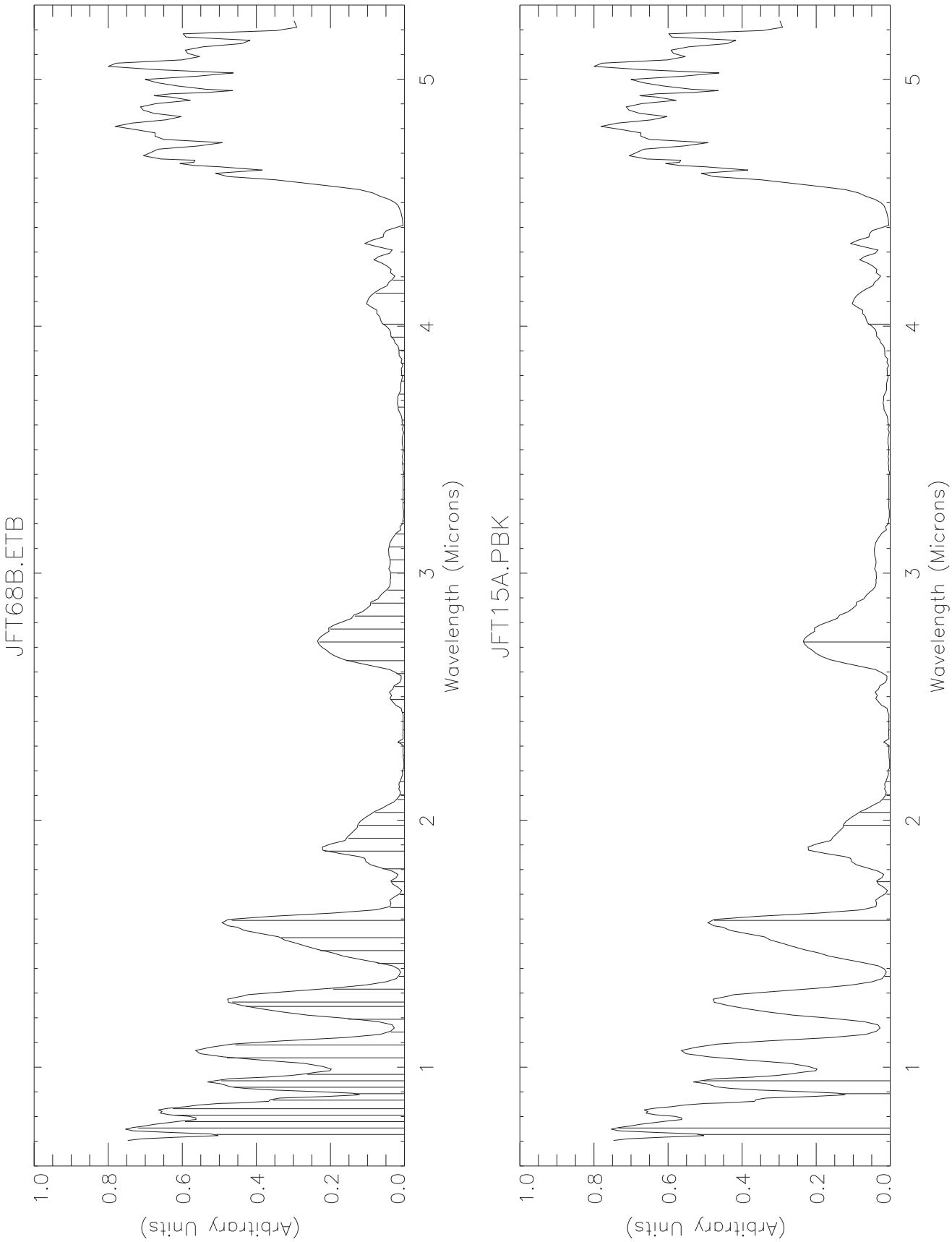
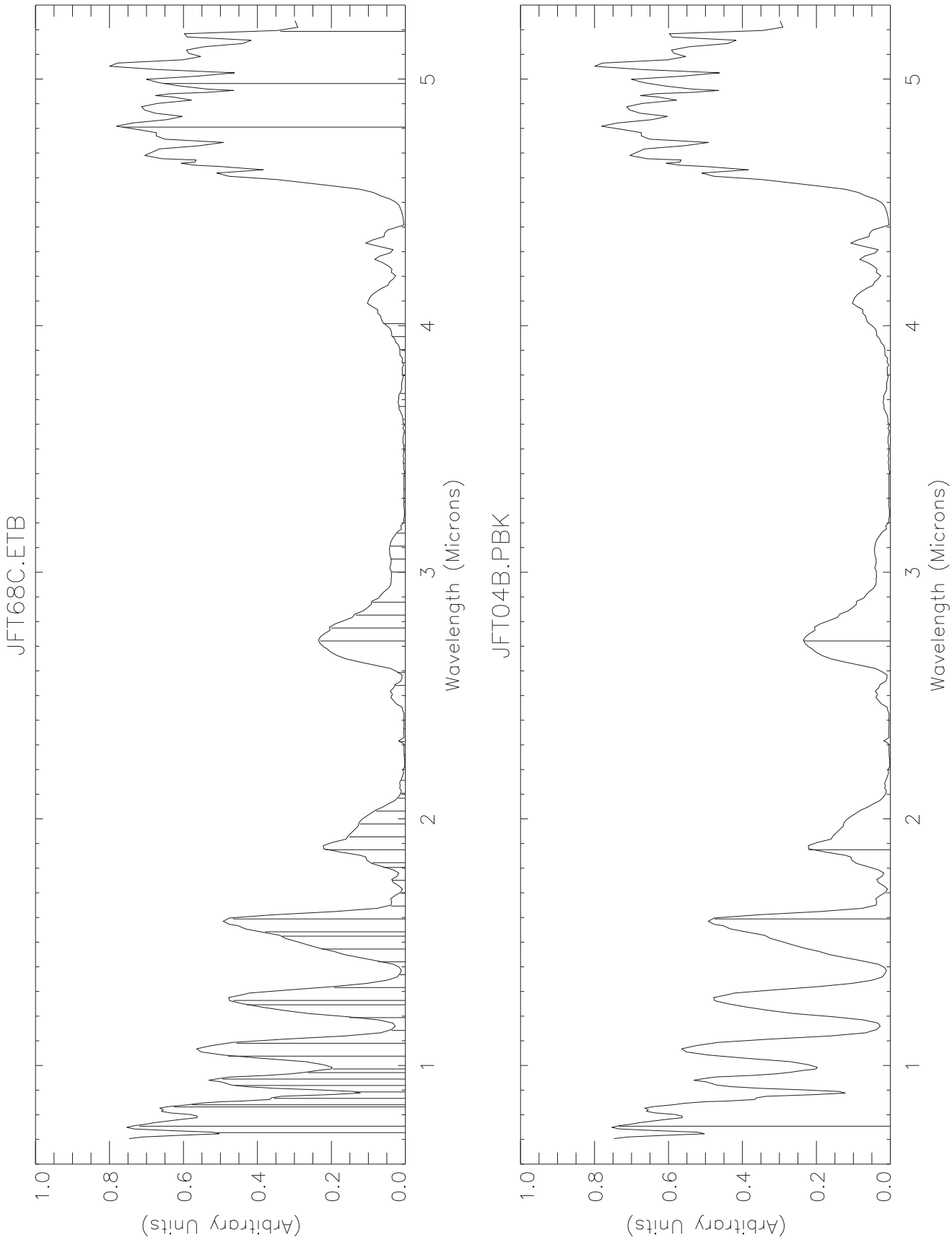
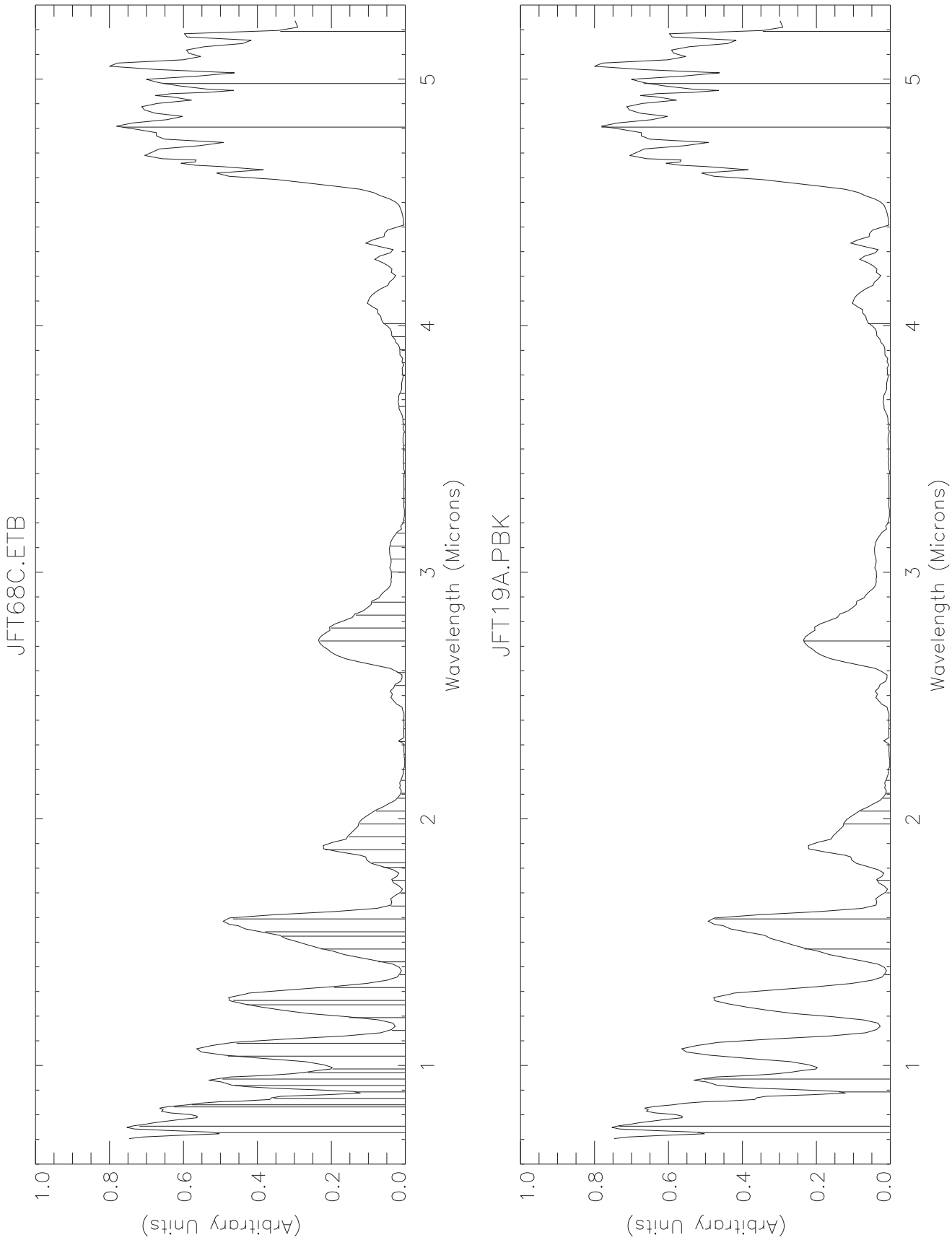
0.4
0.2
0.0
1
2
3
4
5
Wavelength (Microns)
J5M253B.PBK
(Arbitrary Units)
1.0
0.8
0.6
0.4
0.2
0.0
1
2
3
4
5
Wavelength (Microns)

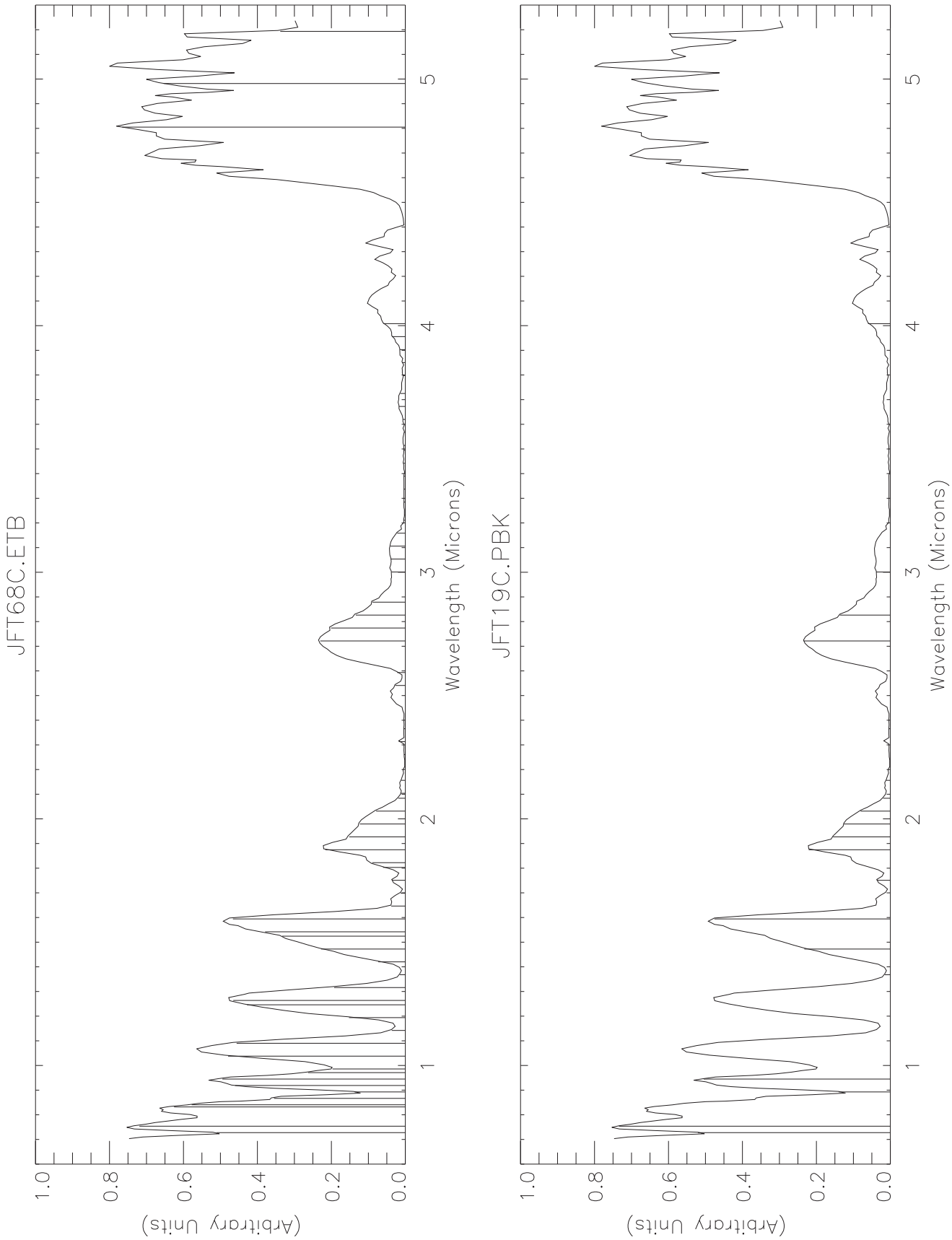

JFT68A.ETB
JFT19A.PBK
(Arbitrary Units)
Wavelength (Microns)
0.0
0.2
0.4
0.6
0.8
1.0
1
2
3
4
5

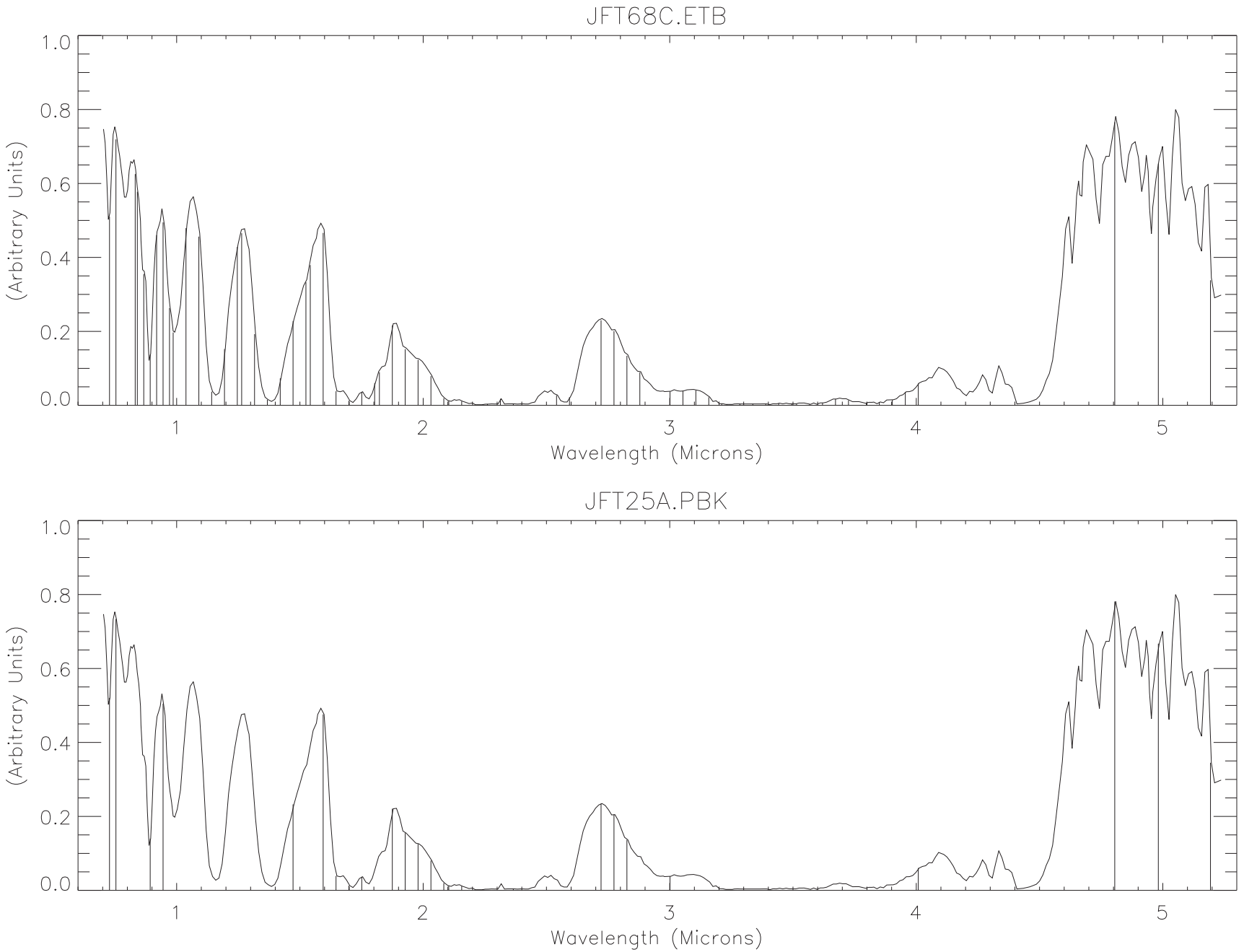

JFT68B.ETB
JFT04B.PBK
(Arbitrary Units)
Wavelength (Microns)
0.0
0.2
0.4
0.6
0.8
1.0
1
2
3
4
5

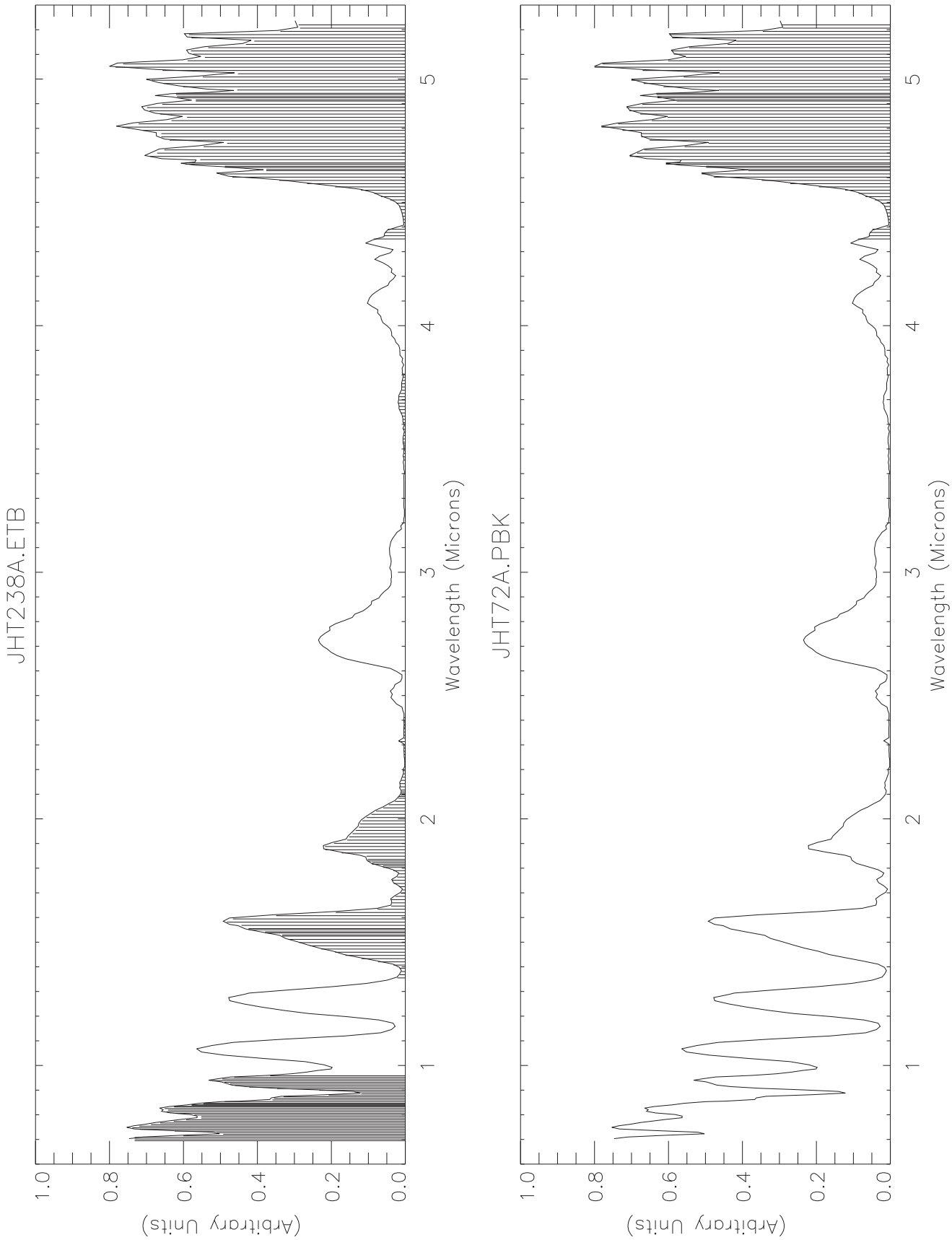

JFT68B.ETB
JFT15A.PBK
(Arbitrary Units)
Wavelength (Microns)
0.0
0.2
0.4
0.6
0.8
1.0
1
2
3
4
5

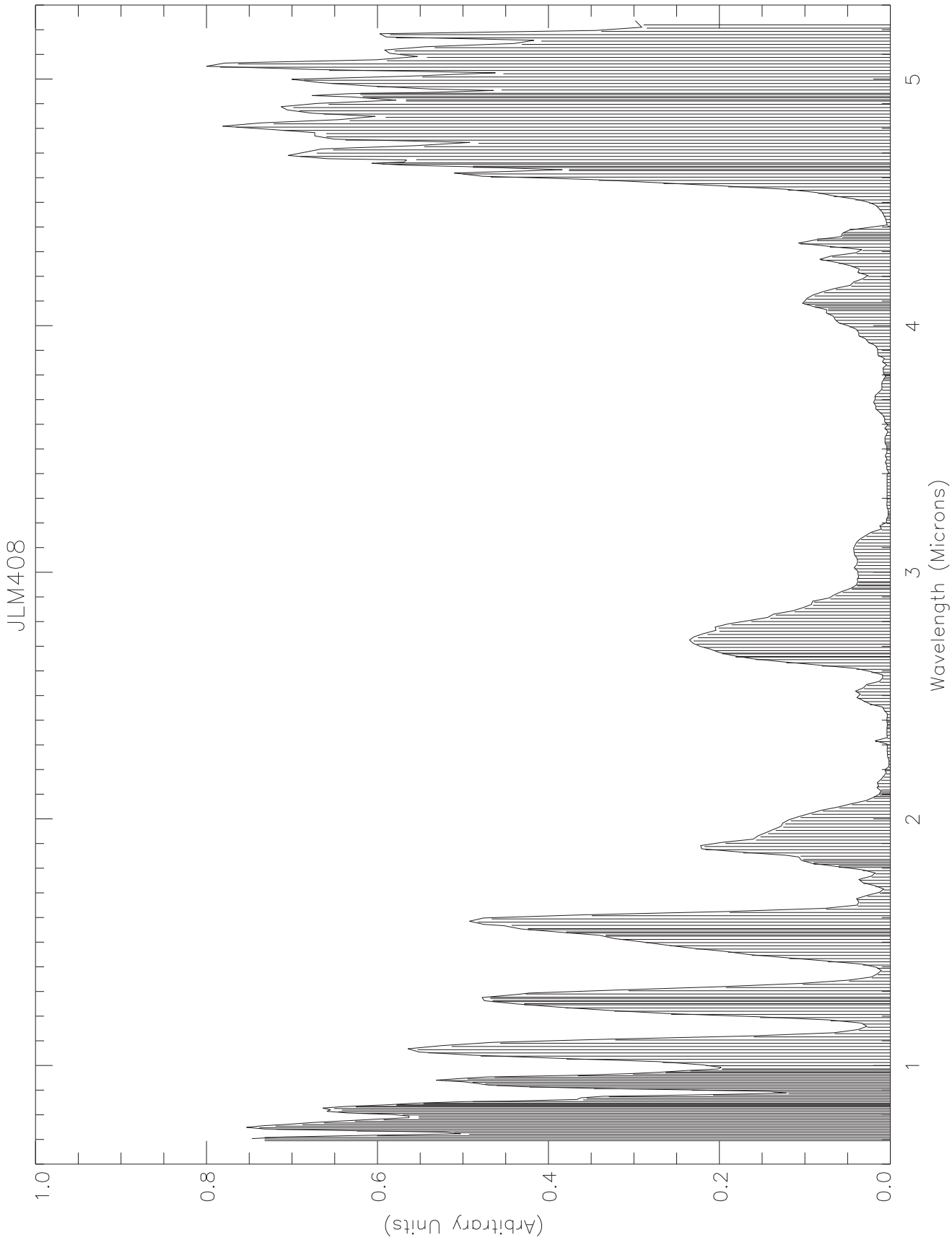

JFT68C.ETB
JFT04B.PBK
(Arbitrary Units)
Wavelength (Microns)
0.0
0.2
0.4
0.6
0.8
1.0
1
2
3
4
5


JFT68C.ETB
JFT19A.PBK
(Arbitrary Units)
Wavelength (Microns)
0.0
0.2
0.4
0.6
0.8
1.0
1
2
3
4
5


JFT68C.ETB
JFT19C.PBK
(Arbitrary Units)
Wavelength (Microns)
0.0
0.2
0.4
0.6
0.8
1.0
1
2
3
4
5


JFT68C.ETB
1.0
0.8
0.6
0.4
0.2
0.0
(Arbitrary Units)
1
2
3
4
5
Wavelength (Microns)
JFT25A.PBK
1.0
0.8
0.6
0.4
0.2
0.0
(Arbitrary Units)
1
2
3
4
5
Wavelength (Microns)


JHT238A.ETB
(Arbitrary Units)
1.0
0.8
0.6
0.4
0.2
0.0
1
2
3
4
5
Wavelength (Microns)
JHT72A.PBK
(Arbitrary Units)
1.0
0.8
0.6
0.4
0.2
0.0
1
2
3
4
5
Wavelength (Microns)


JLM408
(Arbitrary Units)
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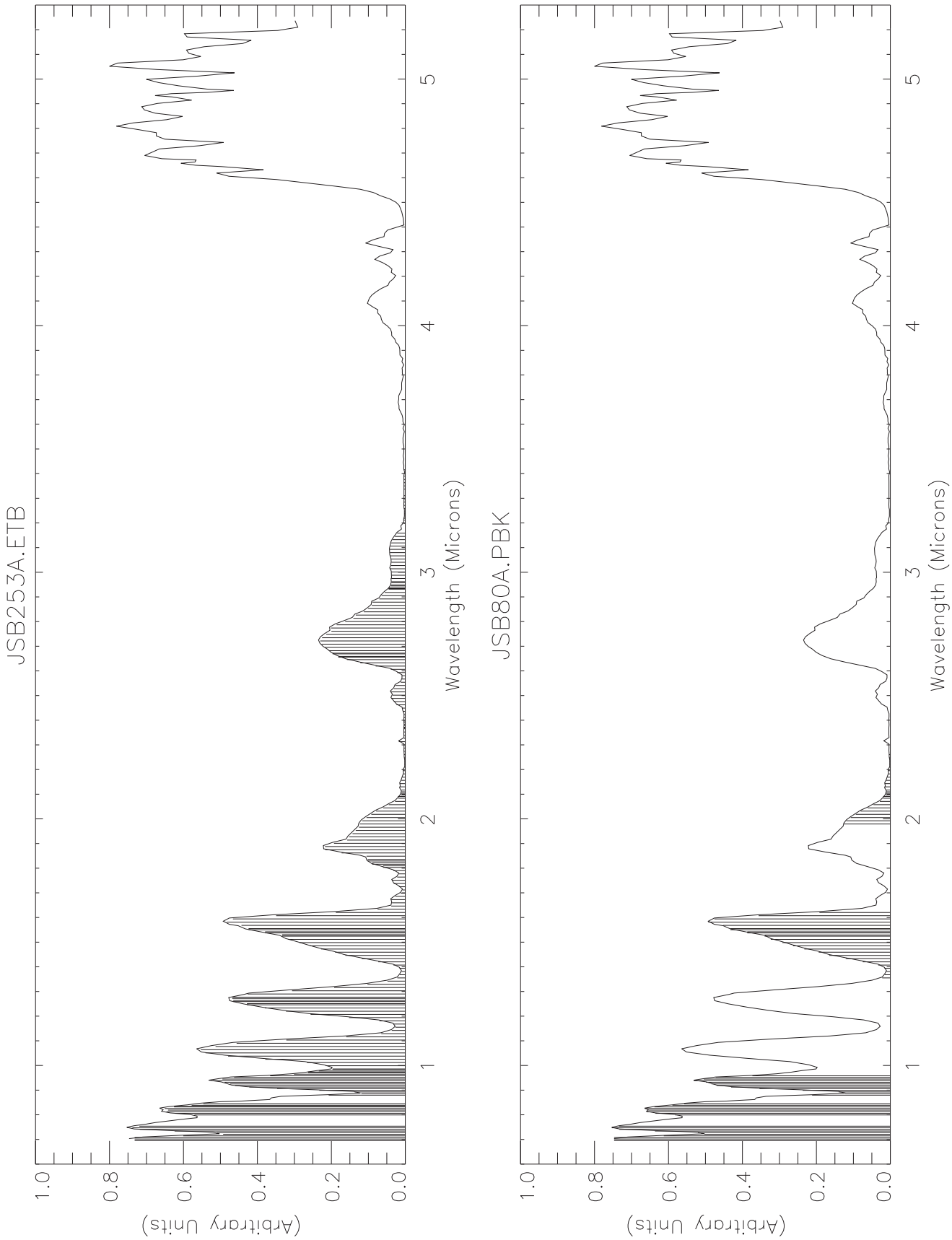
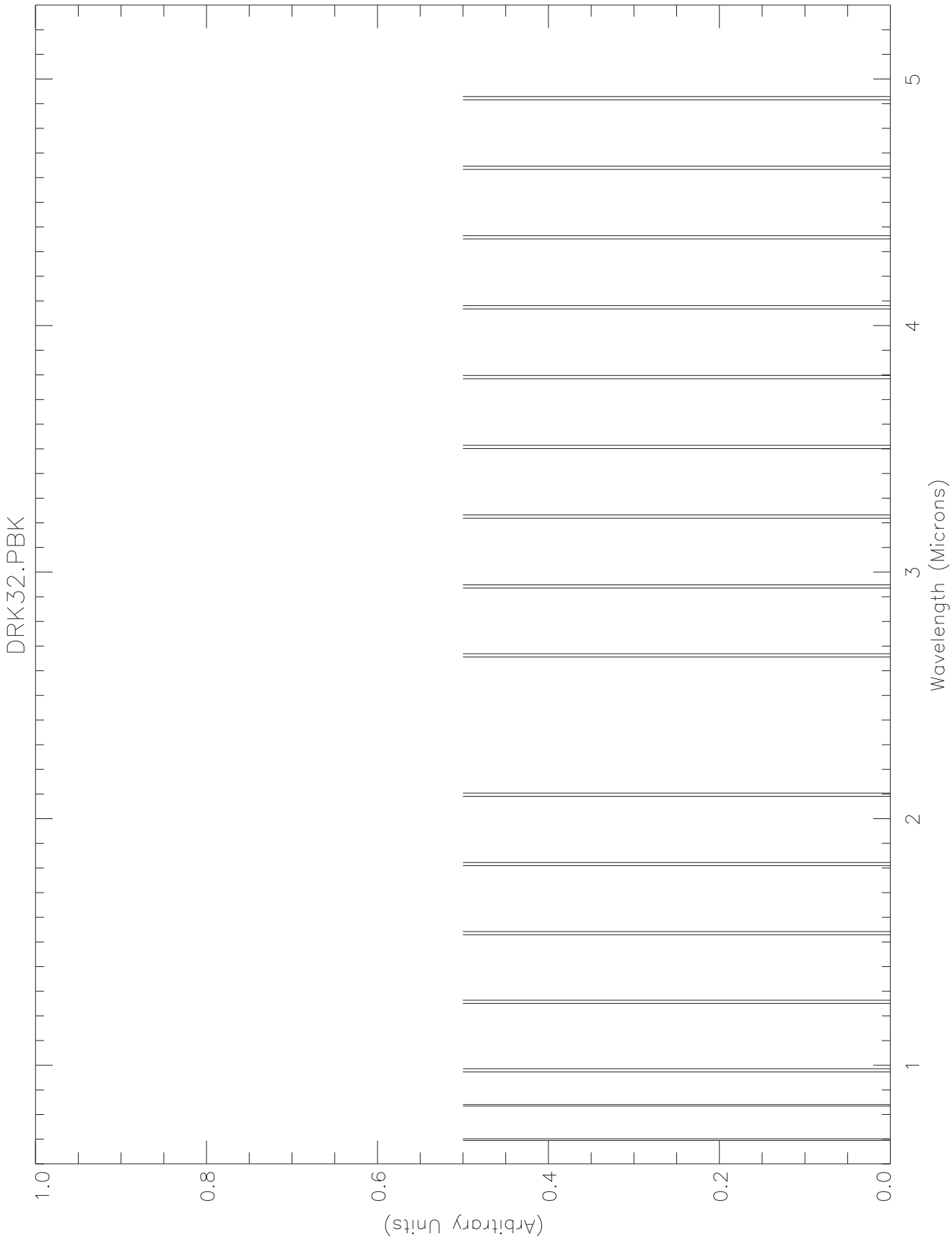
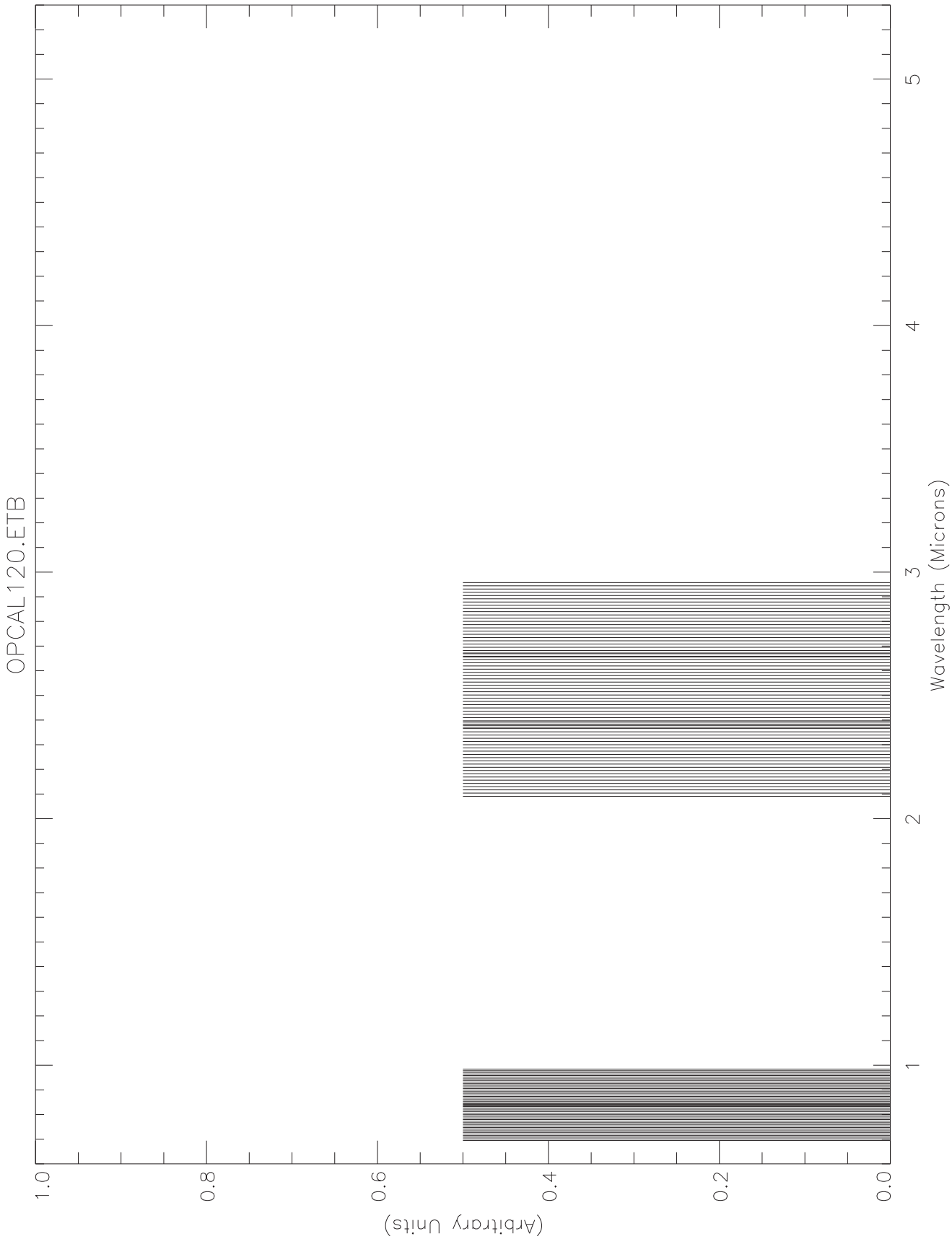
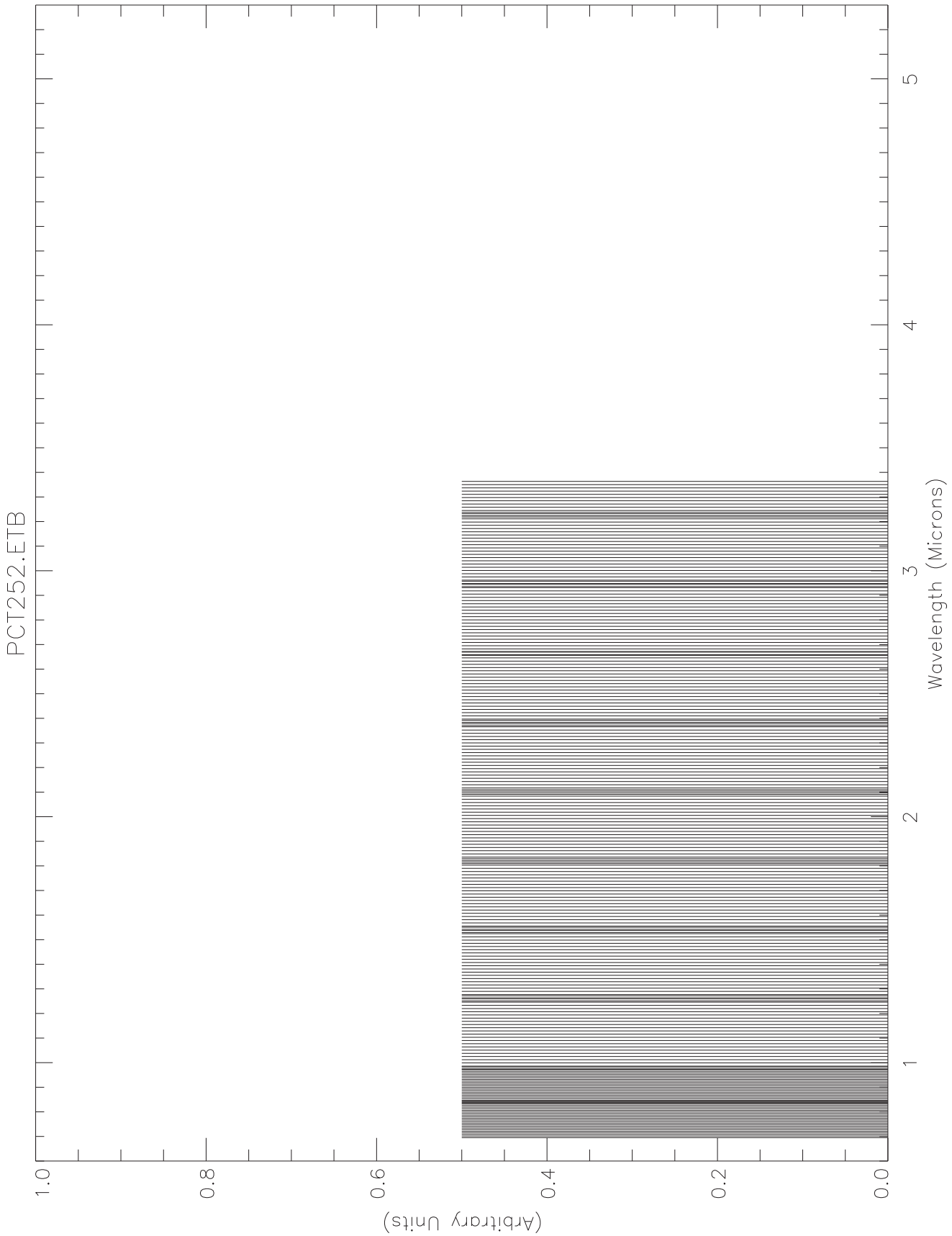
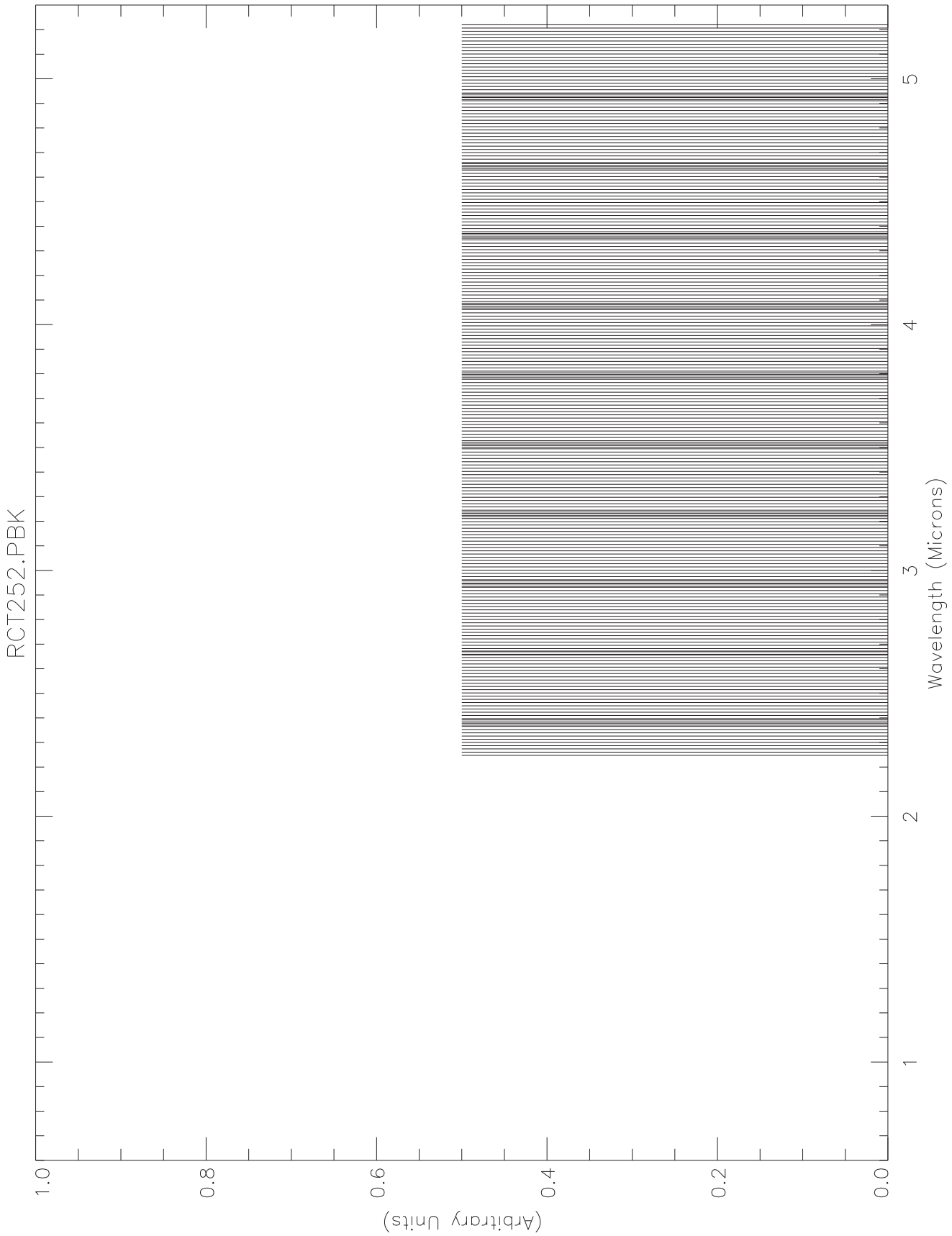
0.8
0.6
0.4
0.2
0.0
1
2
3
4
5
Wavelength (Microns)

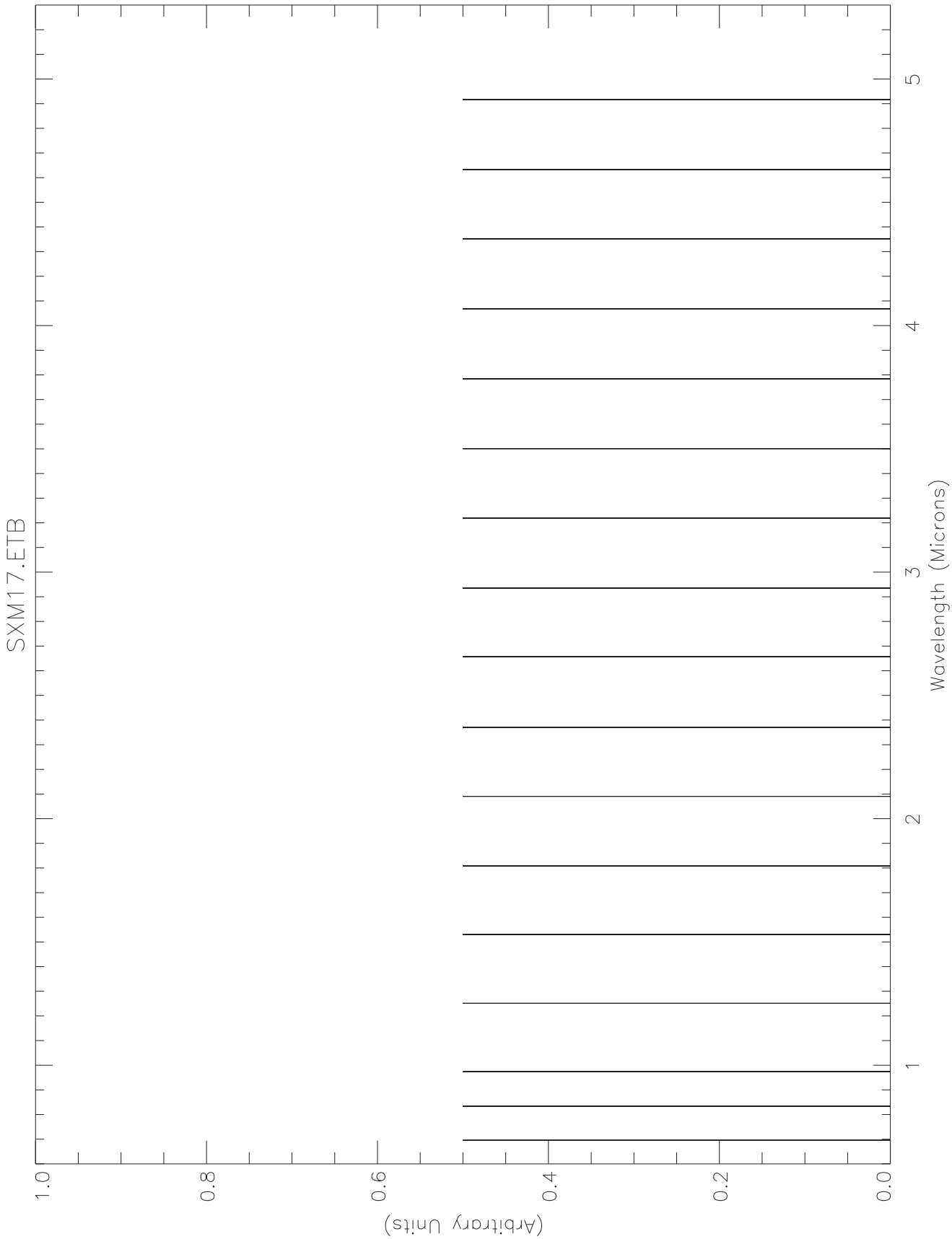

JSB253A.ETB
JSB80A.PBK
(Arbitrary Units)
Wavelength (Microns)
0.0
0.2
0.4
0.6
0.8
1.0
1
2
3
4
5


DRK32.PBK
1.0
0.8
0.6
0.4
0.2
0.0
(Arbitrary Units)
1
2
3
4
5
Wavelength (Microns)


OPCAL120.ETB
(Arbitrary Units)
1.0
0.8
0.6
0.4
0.2
0.0
1
2
3
4
5
Wavelength (Microns)


PCT252.ETB
(Arbitrary Units)
1.0
0.8
0.6
0.4
0.2
0.0
1
2
3
4
5
Wavelength (Microns)


RCT252.PBK
1.0
0.8
0.6
0.4
0.2
0.0
(Arbitrary Units)
1
2
3
4
5
Wavelength (Microns)


SXM17.ETB
1.0
0.8
0.6
0.4
0.2
0.0
(Arbitrary Units)
1
2
3
4
5
Wavelength (Microns)

Chapter 7 - Data Return

Contents

Introduction to Chapter 7

This chapter is a report on the NIMS data return for the G7 orbit. Due to the low downlink data rates available for Galileo Jupiter Operations and other unforeseen and unpredictable events during the G7 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.

Fifteen NIMS software reloads were inserted into the G7 Encounter sequence to protect against processor halts. During G7 only three NIMS observations were lost due to processor halts. The approach that we are taking to avoid data loss due to processor halts has proven to be very successful.

Detectors 3 and 8 are still not functioning and are expected to be lost for the rest of the mission.

The plots on the pages 3 and 4 show the geometry of the NIMS G7 observations using a north trajectory pole projection. The 'returned' observations are in Bold characters and the 'non-returned' in gray.

The spreadsheets on pages 5 through 8 summarize the 'final' playback model for the 'returned' data.

The text on pages 9 and 10 gives a 'recap' of the G7 playback events which affected which observations were returned.

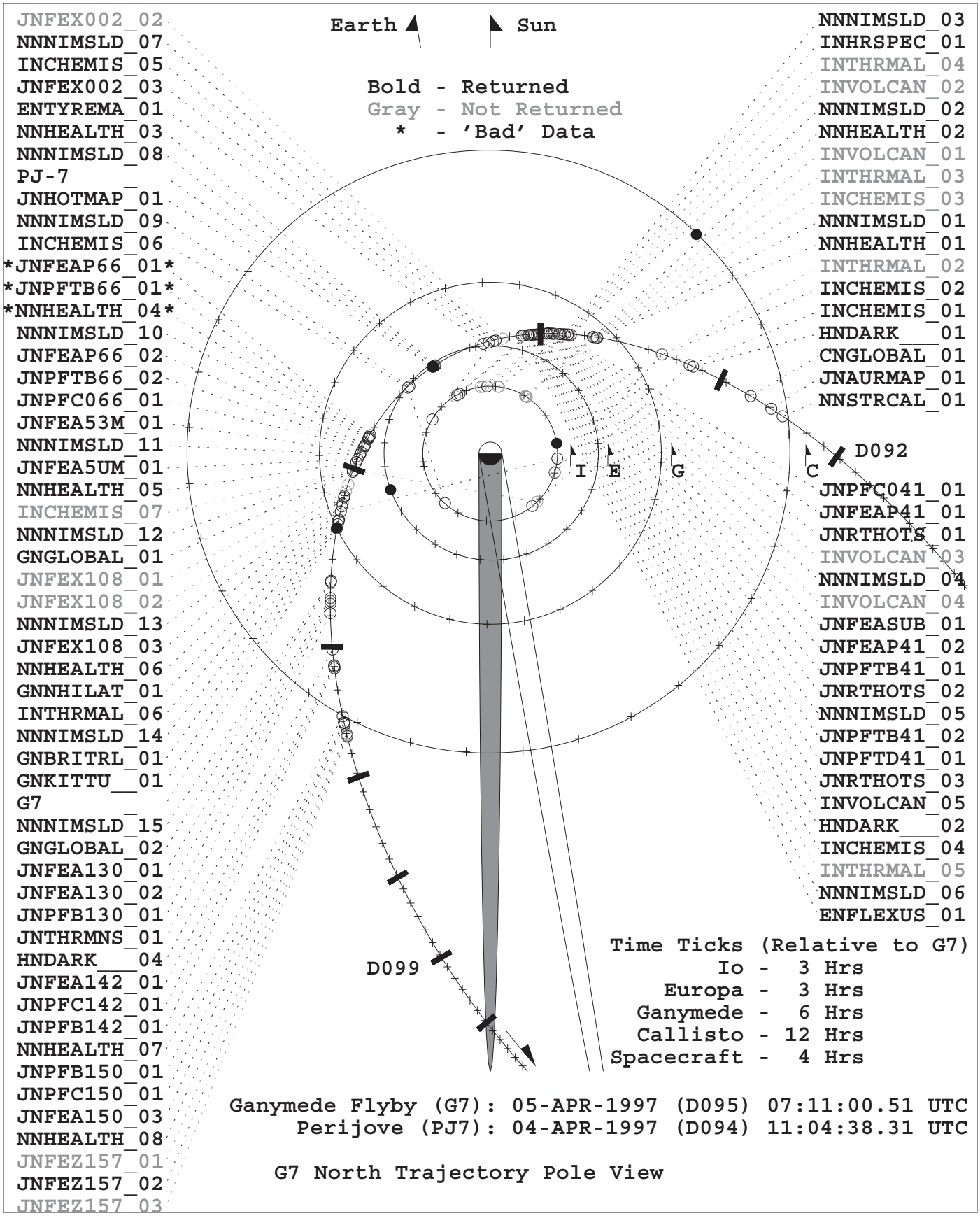
A Timeline of G7 playback events is on pages 11 and 12.

The text on pages 13 through 15 describes the G7 NIMS Anomalies, both Processor Halts and AACS Anomaly.

The text on page 16 gives a brief discussion of the NIMS data files. Additional information about NIMS data formats, data types, data labels and data access is given on pages 17 and 18.

The text on page 19 is a guide to understanding the NIMS MASK.

NIMS G7 OBSERVATIONS

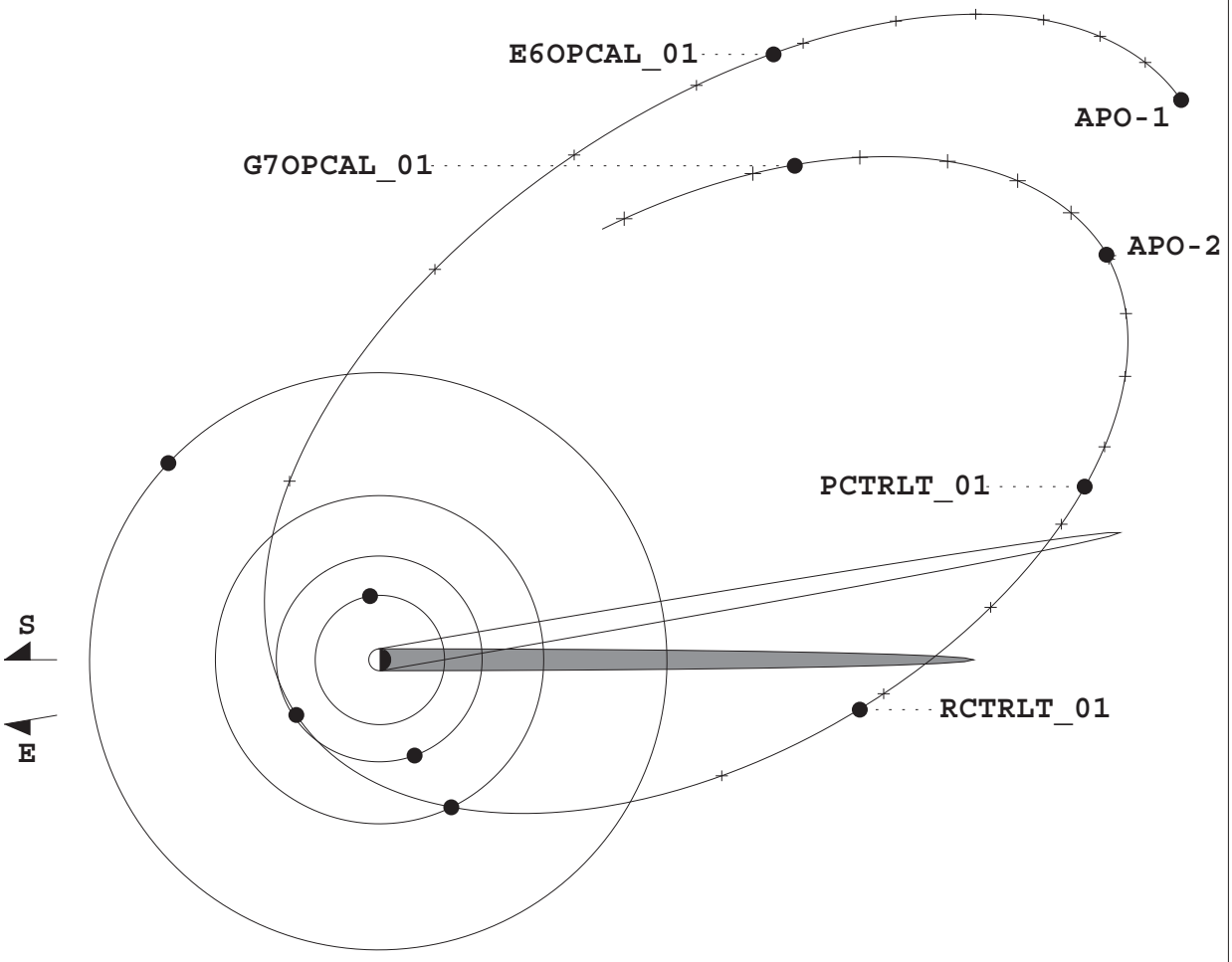


NIMS - FEL - 11/03/98

NIMS G7 CALIBRATIONS

Ganymede Flyby (G7): 05-APR-1997 (D095) 07:11:01 UTC
Perijove (PJ7): 04-APR-1997 (D094) 11:04:38 UTC

Time Ticks (Relative to G7)
Spacecraft - 2 Days



G7 North Trajectory Pole View, Apoapsis to Apoapsis

NIMS - FEL - 04/26/99

NIMS G7 DATA RETURN

Activity ID	Observation Title	NIMS Edit Table	NIMS PB Table	Mode	Gain	Grating Start	Grating Offset	Record Format
G7NNSTRCAL01-	NIMS STAR CALIBRATION	G7SXM17	G7SXM17	XM	4	0	4	MPW
G7HNDARK_01-	Dark Observation	G7DRK34	G7DRK32	LM	4	0	4	LPU
G7INCHEMIS01-	MONITORING OF IO'S DAYSIDE	G7ILM244B	G7ILM102B	LM	2	0	4	LPU
G7INHRSPEC01-	MONITORING OF IO'S DAYSIDE	G7ILM442	G7ILM360	LM	2	0	4	MPW
G7JNPFC04101-	Jupiter 22 N Feature Trk 41 deg phase	G7JFT68C	G7JFT25A	SM	2	1	4	LPU
G7JNFEAP4101-	Jupiter Ftr and Prtl Trk 41 deg part 1	G7JFT68C	G7JFT25A	SM	2	1	4	LPU
G7JNFEASUB01-	Jupiter Campaign Feature sub-spectra	G7JSB253A	G7JSB80A	LM	2	0	4	LPU
G7JNPFTB4101-	Jupiter Partial Ftr. Trk. B 41 deg prt 1	G7JFT68C	G7JFT25A	SM	2	1	4	LPU
G7JNPFTB4102-	Jupiter Partial Ftr Trk B 41 deg prt 2	G7JFT68C	G7JFT04B	SM	2	1	4	LPU
G7JNPFTD4101-	Jupiter Partial Ftr Trk D 41 deg prt 1	G7JFT68C	G7JFT25A	SM	2	1	4	LPU
G7HNDARK_02	Dark Observation	G7DRK34	G7DRK32	LM	2	0	4	LPU
G7ENFLEXUS01-	Europa Global Mosaic Campaign	G7ELM244B	G7ELM228B	LM	3,2,4	0	4	LPU
G7INCHEMIS05-	MONITORING OF IO'S DAYSIDE	G7ILM244B	G7ILM216B	LM	2	0	4	LPU
G7JNFEX00203-	Jupiter Feature Track X 2 deg phase pt 3	G7JFT68A	G7JFT19A	SM	2	1	4	LPU
G7ENTYREMA01-	Europa Tyre Macula Region	G7ELM442	G7ELM360	LM	2	0	4	MPW
G7JNHOTMAP01-	NIMS Jupiter Hotmap Observation	G7JHT238A	G7JHT72A	LM	2	0	4	LPU
G7JNFEAP6601-	Jupiter Ftr and Prtl Trk 66 deg prt 1	G7JFT68C	G7JFT25A	SM	2	1	4	LPU
G7JNPFTB6601-	Jupiter Partial Ftr Trk B 66 deg prt 1	G7JFT68C	G7JFT25A	SM	2	1	4	LPU
G7JNFEAP6602-	Jupiter Partial Ftr Trk B 66 deg prt 2	G7JFT68C	G7JFT25A	SM	2	1	4	LPU
G7JNPFC06601-	Jupiter Partial Ftr Trk C 66 deg	G7JFT68C	G7JFT25A	SM	2	1	4	LPU
G7JNFEA5UM01-	Jupiter Feature Track 5 Micron Map 2	G7J5M253B	G7J5M80B	LM	4	0	4	MPW
G7GNGLOBAL01-	GANYMEDE GLOBAL SURFACE MAP	G7GLM244G	G7GLM192G	LM	3	0	4	LPU
G7JNFEX10803-	Jupiter Feature Track 108 deg phse pt 3	G7JFT68C	G7JFT19A	SM	2	1	4	LPU
G7GNNHILAT01-	Ganymede North High Latitude Region Map	G7GLM244H	G7GLM192H	LM	3	0	4	LPU
G7INTHRMAL06-	MONITORING OF IO'S NIGHTSIDE	G7ILMDK244B	G7ILM216B	LM	4	0	4	LPU
G7GNKITTU_01-	Dark Rayed crater KITTU	G7GLM442	G7GLM360	LM	3	0	4	MPW
G7GNGLOBAL02-	GANYMEDE GLOBAL SURFACE MAP	G7GLM442	G7GLM360	LM	3	0	4	MPW
G7JNFEA13001-	Jupiter Feature Track 130 deg phase pt 1	G7JFT68B	G7JFT04B	SM	2	1	4	LPU
G7JNFEA13002-	Jupiter Feature Track 130 deg phase pt 2	G7JFT68B	G7JFT15A	SM	2	1	4	LPU
G7JNPFB13001-	Jupiter Feature Track 130 deg phase	G7JFT68B	G7JFT15A	SM	2	1	4	LPU
G7JNTHRMNS01-	Jupiter Thermal North South Stripe	G7J5M253B	G7J5M80B	LM	4	0	4	LPU
G7HNDARK_04	Dark Observation	G7DRK34	G7DRK32	LM	3	0	4	LPU
G7JNFEA14201-	Jupiter Feature Track 142 deg phase	G7JFT68C	G7JFT04B	SM	2	1	4	LPU
G7JNPFC14201-	Jupiter Ftr Trk C 142 Deg Phase	G7JFT68C	G7JFT04B	SM	2	1	4	LPU
G7JNPFB14201-	Jupiter Ftr Trk B 142 Deg Phase	G7JFT68C	G7JFT04B	SM	2	1	4	LPU
G7JNPFB15001-	Jupiter Feature Track 150 deg phase pt 1	G7JFT68C	G7JFT04B	SM	2	1	4	LPU

NIMS G7 DATA RETURN

ACTID	Obs. Cost (ticks)	Wave-lengths ret	Record Time (sec)	PB Time (sec)	Sed Bits of Tape sBOT (Mbits)	Total Bits of Tape BOT (Mbit)	Mode cycle time (sec)	Thold	Comp	Total BTG (Mbtg) (4% Ohead)	Data Reduct Factor (sBOT/BTG)	Pass
G7NNSTRCAL01-	35	17	36.67	36.67	0.42	0.42	0.333	0	2.15	0.1811	2.33	1
G7HNDARK__01-	16	32	60.67	60.67	0.37	0.37	8.667	0	2.33	0.0200	18.71	1
G7INCHEMIS01-	33	102	131.33	131.33	0.81	0.81	8.667	2	3.19	0.1008	8.04	1
G7INHRSPEC01-	159	360	178.00	91.33	1.05	2.05	8.667	2	1.72	0.4588	2.29	1,2
G7JNPFC04101-	25	25	100	100	0.62	0.62	2.33	0	1.96	0.1139	5.42	1
G7JNFEAP4101-	72	25	300	300	1.85	1.85	2.33	0	1.88	0.3561	5.20	1
G7JNFEASUB01-	87	80	364	320	1.97	2.25	8.667	0	1.77	0.3471	5.69	1
G7JNPFTB4101-	52	25	213.33	213.3	1.32	1.32	2.33	0	1.63	0.2921	4.50	1
G7JNPFTB4102-	52	4	213.33	213.3	1.32	1.32	2.33	0	1.47	0.0518	25.39	1
G7JNPFTD4101-	52	25	213.33	213.3	1.32	1.32	2.33	0	1.62	0.2939	4.48	1
G7HNDARK__02-	16	32	60.67	60.67	0.37	0.37	8.667	0	1.64	0.0284	13.17	1
G7ENFLEXUS01-	322	228	1366.00	60.67	0.37	8.43	8.667	0	1.52	0.2184	1.71	1
G7INCHEMIS05-	73	216	303.34	242.00	1.49	1.87	8.667	2	1.39	0.9025	1.65	1
G7JNFEX00203-	25	19	100	100	0.62	0.62	2.33	0	1.55	0.1094	5.64	1
G7ENTYREMA01-	867	360	984.00	422.00	4.86	11.34	8.667	0	1.44	2.5319	1.92	1,2
G7JNHOTMAP01-	186	72	786	308	1.90	4.85	8.667	0	1.16	0.4588	4.14	1,2
G7JNFEAP6601-	72	25	300	10	0.06	1.85	2.33	0	1.88	0		1
G7JNPFTB6601-	52	25	213.33	10	0.06	1.32	2.33	0	1.88	0		1
G7JNFEAP6602-	72	25	300	300	1.85	1.85	2.33	0	1.69	0.3962	4.67	1
G7JNPFC06601-	72	25	300	300	1.85	1.85	2.33	0	1.71	0.3915	4.73	1
G7JNFEA5UM01-	322	80	364	300	3.46	4.19	8.667	0	1.31	0.4397	7.86	1
G7GNGLOBAL01-	506	192	2150.67	64.00	0.39	13.27	8.667	0	1.60	0.1843	2.14	1,2
G7JNFEX10803-	25	19	100	100	0.62	0.62	2.33	0	2.15	0.0789	7.82	1
G7GNNHILAT01-	326	192	1382.67	606.00	3.74	8.53	8.667	0	1.80	1.5513	2.41	1,2
G7INTHRMAL06-	45	216	184.67	184.67	1.14	1.14	8.667	0	1.73	0.5533	2.06	1
G7GNKITTU_01-	618	360	700.67	364.00	4.19	8.07	8.667	0	2.05	1.5341	2.73	1,2
G7GNGLOBAL02-	380	360	429.33	429.33	4.95	4.95	8.667	2	2.45	1.5140	3.27	1
G7JNFEA13001-	25	4	100	100	0.62	0.62	2.33	0	1.77	0.0202	30.57	1
G7JNFEA13002-	25	15	100	100	0.62	0.62	2.33	0	2.34	0.0572	10.78	1
G7JNPFB13001-	25	15	100	100	0.62	0.62	2.33	0	2.18	0.0614	10.04	1
G7JNTHRMNS01-	370	80	1570	300	1.85	9.68	8.667	0	1.27	0.4535	4.08	1
G7HNDARK__04-	16	32	60.67	65.00	0.40	0.37	8.667	0	2.46	0.0203	19.76	1
G7JNFEA14201-	25	4	100	100	0.62	0.62	2.33	0	1.79	0.0199	30.92	1
G7JNPFC14201-	25	4	100	100	0.62	0.62	2.33	0	1.69	0.0211	29.19	1
G7JNPFB14201-	25	4	100	100	0.62	0.62	2.33	0	1.46	0.0245	25.22	1
G7JNPFB15001-	25	4	100	100	0.62	0.62	2.33	0	2.00	0.0179	34.55	1

NIMS G7 DATA RETURN

Activity ID	Observation Title	NIMS Edit Table	NIMS PB Table	Mode	Gain	Grating Start	Grating Offset	Record Format
G7JNPFC15001-	Jupiter Ftr Trk C 150 Deg Phase	G7JFT68C	G7JFT04B	SM	2	1	4	LPU
G7JNFEA15003-	Jupiter Ftr Trk B 150 Deg Phase	G7JFT68C	G7JFT04B	SM	2	1	4	LPU
G7JNFEZ15702-	Jupiter Ftr Trk Z 157 Deg Phase pt 2	G7JFT68C	G7JFT19C	SM	2	1	4	LPU
G7CNGLOBAL01-	Callisto Global Coverage	G7CLM442	G7CLM360	LM	4	0	4	MPW
G7INCHEMIS02-	MONITORING OF IO'S DAYSIDE	G7ILM244B	G7ILM216B	LM	2	0	4	LPU
G7INHRSPEC01-	MONITORING OF IO'S DAYSIDE	G7ILM442	G7ILM360	LM	2	0	4	MPW
G7JNFEAP4102-	Jupiter Ftr and Prtl Trk 41 deg part 2	G7JFT68C	G7JFT04B	SM	2	1	4	LPU
G7INVOLCAN05-	MONITORING OF SELECTED VOLCANIC REGIONS	G7ILM442	G7ILM216B	LM	4	0	4	MPW
G7INCHEMIS04-	MONITORING OF IO'S DAYSIDE	G7ILM244B	G7ILM102B	LM	2	0	4	LPU
G7ENFLEXUS01B-	Europa Global Mosaic Campaign	G7ELM244B	G7ELM228B	LM	3,2,4	0	4	LPU
G7ENFLEXUS01C-	Europa Global Mosaic Campaign	G7ELM244B	G7ELM108	LM	3,2,4	0	4	LPU
G7ENTYREMA01-	Europa Tyre Macula Region	G7ELM442	G7ELM360	LM	2	0	4	MPW
G7JNHOTMAP01-	NIMS Jupiter Hotmap Observation	G7JHT238A	G7JHT72A	LM	2	0	4	LPU
G7JNFEAP6601-	Jupiter Ftr and Prtl Trk 66 deg prt 1	G7JFT68C	G7JFT25A	SM	2	1	4	LPU
G7JNPFTB6601-	Jupiter Partial Ftr Trk B 66 deg prt 1	G7JFT68C	G7JFT25A	SM	2	1	4	LPU
G7JNPFTB6602-	Jupiter Partial Ftr Trk B 66 deg prt 2	G7JFT68C	G7JFT25A	SM	2	1	4	LPU
G7JNFEA53M01-	Jupiter Campaign Feature 5 and 3 um Map	G7J35160	G7J35083	LM	4	0	4	LPU
G7GNGLOBAL01-	GANYMEDE GLOBAL SURFACE MAP	G7GLM244G	G7GLM192G	LM	3	0	4	LPU
G7GNNHILAT01-	Ganymede North High Latitude Region Map	G7GLM244H	G7GLM192H	LM	3	0	4	LPU
G7GNNHILAT01-	Ganymede North High Latitude Region Map	G7GLM244H	G7GLM192H	LM	3	0	4	LPU
G7GNNHILAT01-	Ganymede North High Latitude Region Map	G7GLM244H	G7GLM192H	LM	3	0	4	LPU
G7GNBRITRL01-	BRIGHT ENDMEMBER FROM TRAIL HEMISPHERE	G7GLM442	G7GLM360	LM	3	0	4	MPW
G7GNKITTU_01-	Dark Rayed crater KITTU	G7GLM442	G7GLM360	LM	3	0	4	MPW
G7JNTHRMNS01-	Jupiter Thermal North South Stripe	G7J5M253B	G7J5M80B	LM	4	0	4	LPU
G7JNTHRMNS01-	Jupiter Thermal North South Stripe	G7J5M253B	G7J5M253B	LM	4	0	4	LPU

NIMS G7 DATA RETURN

ACTID	Obs. Cost (ticks)	Wave-lengths ret	Record Time (sec)	PB Time (sec)	Sed Bits of Tape sBOT (Mbits)	Total Bits of Tape BOT (Mbit)	Mode cycle time (sec)	Thold	Comp	Total BTG (Mbtg) (4% Ohead)	Data Reduct Factor (sBOT/BTG)	Pass
G7JNPFC15001-	25	4	100	100	0.62	0.62	2.33	0	2.07	0.0173	35.76	1
G7JNFEA15003-	25	4	100	100	0.62	0.62	2.33	0	1.62	0.0220	27.98	1
G7JNFEZ15702-	25	19	100	100	0.62	0.62	2.33	0	2.56	0.0663	9.31	1
G7CNGLOBAL01-	254	360	286.67	180.00	2.07	3.30	8.667	2	1.54	1.0098	2.05	2
G7INCHEMIS02-	36	216	144.67	142.00	0.88	0.89	8.667	2	2.39	0.3080	2.84	2
G7INHRSPEC01-	159	360	178.00	95.33	1.10	2.05	8.667	2	1.32	0.6240	1.76	2
G7JNFEAP4102-	72	4	300	300	1.85	1.85	2.33	0	1.51	0.0709	26.08	2
G7INVOLCAN05-	56	216	60.67	60.60	0.70	0.70	8.667	2	1.47	0.2137	3.27	2
G7INCHEMIS04-	71	216	294.67	210.00	1.30	1.82	8.667	2	1.41	0.7721	1.68	2
G7ENFLEXUS01-	322	228	1366.00	41.00	0.25	8.43	8.667	0	1.35	0.1662	1.52	2
G7ENFLEXUS01-	322	108	1366.00	251.00	1.55	8.43	8.667	0	1.27	0.5123	3.02	2
G7ENTYREMA01-	867	360	984.00	398.66	4.59	11.34	8.667	0	1.44	2.3919	1.92	2
G7JNHOTMAP01-	186	72	786	367	2.26	4.85	8.667	0	1.15	0.5514	4.11	2
G7JNFEAP6601-	72	25	300	140	0.86	1.85	2.33	0	1.88	0		2
G7JNPFTB6601-	52	25	213.33	99	0.61	1.32	2.33	0	1.88	0		2
G7JNPFTB6602-	52	25	213.33	213.3	1.32	1.32	2.33	0	1.61	0.2957	4.45	2
G7JNFEA53M01-	201	83	849.338	320	1.97	5.24	8.667	0	1.36	0.4687	4.21	2
G7GNGLOBAL01-	506	192	2150.67	993.60	6.13	13.27	8.667	2	2.04	2.2443	2.73	2
G7GNNHILAT01-	326	192	1382.67	121.00	0.75	8.53	8.667	2	1.91	0.2919	2.56	2
G7GNNHILAT01-	326	192	1382.67	61.00	0.38	8.53	8.667	0	1.83	0.1536	2.45	2
G7GNNHILAT01-	326	192	1382.67	227.00	1.40	8.53	8.667	0	1.83	0.5716	2.45	2
G7GNBRITRL01-	253	360	284.67	284.67	3.28	3.28	8.667	0	1.98	1.2421	2.64	2
G7GNKITTU_01-	618	360	700.67	364.00	4.19	8.07	8.667	0	2.05	1.5341	2.73	2
G7JNTHRMNS01-	370	80	1570	367	2.26	9.68	8.667	0	1.51	0.4666	4.85	1
G7JNTHRMNS01-	370	253	1570	784	4.84	9.68	8.667	0	1.86	2.5593	1.89	1
Total						121.366				30.358		
Allocated										27.620		
Oversubscribed										2.7380		

Recap of G7 Playback Events

The G7 encounter was marred by a significant AACS Anomaly. To maintain position and accurate pointing, Galileo uses a star scanner to maintain a celestial-based pointing reference. The celestial-based reference is used to correct for drift in the scan platform gyroes. About 4 hours before G7 perijove on day 94 (4 April 1997), the AACS bright body vector blocked out one of the stars of the star scanner star set. This led to the accumulation of uncompensated drift of the gyroes which affected the accuracy of the pointing for a significant number of NIMS observations. The maximum offset was about 14 mrad in the cone direction for G7GNGLOBAL01, equivalent to 28 NIMS fields of view. As a result approximately 75% of the illuminated portion of the target body shifted outside the limits of the recorded area. The star scanner problem was recognized early on; a fix was devised and implemented, and the anomaly resolved, in less than 20 hours.

About 13 hours after the start of the AACS Anomaly, the NIMS software apparently halted. There is no direct evidence of this halt, but one real time observation (G7NNHEALTH04) failed to appear as scheduled, and playback of two Jupiter observations recorded just after the realtime observation (G7JNFEAP66_01, G7JNPFTB66_01) returned only header packets and some undecodeable bits.

Even with these anomalies, more than 80% of the 75 NIMS G7 observations were recorded exactly as planned, yielding excellent data.

The star scanner anomaly affected 13 NIMS observations during Galileo's outbound passage during G7. There are 4 general categories, based on outcome and action taken:

1. Observations that missed the target entirely:
   G7INCHEMIS06
   G7INCHEMIS07
   G7JNFEX10801

These were deleted from the playback plan.

2. Observations of Jupiter falling on the target body, where the target latitude and longtude are not accurately known:
   G7JNHOTMAP01
   G7JNPFC06601
   G7JNFEA53M01
   G7JNFEA5UM01

These were retained unmodified in the playback plan.

3. Other Jupiter observations falling at or near the limb:
   G7JNFEAP6601
   G7JNFEAP6602
   GJJNPBTB6601
   G7JNPFTB6602

Playback commands to play back small portions of several of these (in order to determine if on-target data is present) were implemented. In addition, the bits allocated for the G7JNFEX10802 observation were shifted to the G7JNFEX10803 observation, which was recorded after the anomaly was fixed.

4. Current best estimates indicate that pointing for G7GNGLOBAL01 drifted such that the mosaic included only about 1/3 of the planned target area. See discussion of playback strategy below.

A number of other modifications to the playback plan were made in order to optimize the data returned. These are listed by target body.

Jupiter: In addition to the information already mentioned above: the wavelengths returned for JNFEAP6602 and JNPFTB6602 were increased from 4 to 25. The observations where only a small strip was returned to look for the limb are JNFEAP6601 and JNPFTB6601.

Io: The complete loss of CHEMIS06 released over 1 Mbit to apply to other observations. Two observations that were not previously in the playback plan were added back: VOLCAN05 and CHEMIS02. Both of these were returned in full with 216 wavelengths. Playback of CHEMIS05 was increased to the full record time (also with 216 wavelengths). Lastly the wavelength coverage for THRMAL06 was increased to 216 wavelengths.

Europa: Since full wavelength coverage was desirable for the ENTYREMA01 observation, it was decided to trim the spatial coverage by 1/5. This allowed the return of 360 rather than 298 wavelengths (Long Map, no detector 3 or 8).
The spatial location of the 1 Rim of pass 1 playback for ENFLEXUS01 was modified following Adriana's instructions.

Ganymede: GNGLOBAL01 playback originally amounted to 3.2 Mbits of downlink. The pointing problem placed most of the recorded observation on the dark side of the terminator and/or off the body. A small part of each swath was returned in pass 1 to constrain the true extent of the pointing errors, and 0.9 Mb were used for the pass 2 playback of this observation.

The other 2+ Mbits from GNGLOBAL01 were used to change the wavelength selection for GNKITTU_01, GNBRITRL01, and GNGLOBAL02. All of these were returned with 360 wavelengths (up from 192). GNGLOBAL01 and GNHILAT01 were played back with GLM192G.PBK. GNGLOBAL02 had considerable dark sky so thresholding was employed.

Callisto: Only 1 Rim of CNGLOBAL01 (of 5 recorded) was planned to be played back. The wavelength table specified 360 wavelengths (down from 384 with removal of detector 3). The playback start and stop times were modified to return data from the center of the body and to correspond to instrument cycle start times.

G7 Playback Events Timeline (02-24-97 to 05-03-97)

02-24-97: NIMS data downlink bits allocation is 25.5 Megabits. Data requested for playback by science coordinators amounts to about 42 Mbits. Significant reductions in spatial and wavelength coverage are required. The largest cuts are to G7ENFLEXUS01 (>95% of coverage deleted), to G7GNHILAT01 and G7GNGLOBAL01 (substantial cuts in coverage), and to G7GNKITTU_01 (50% reduction in wavelength coverage).

03-11-97: Playback table update. Many Jupiter observation wavelengths were cut; typically, of 68 recorded, 25 were commanded for return in the former plan, and 4 are commanded in the current plan.

03-20-97: Playback table update. Greater sophistication and experience with playback results in dozens of "fine-tuning" changes in the timing of playback commands.

03-26-97: Final pre-uplink update. As E6 ends, hopes for recovery of detector 3 fade. Detector 3 wavelengths are accordingly removed from wavelength edit tables for Io and Europa observations, saving 0.4 Mbits.

03-30-97: G7 Encounter begins.

04-02-97: NIMS recording begins with G7NNSTRCAL01.

04-04-97: Star scanner anomaly begins at approximately 07:00 (GMT).
Perijove is reached at 11:04:38 GMT.
Probable NIMS software halt at about 20 hours GMT.
Software reload number 10 (G7NNNIMSLD_10) is completed at 20:41 GMT.

04-05-97: Star scanner anomaly resolved about 02:46 GMT.
Ganymede close approach occurs at 07:11 GMT.

04-10-97: Playback table update providing the first opportunity to adapt to the star scanner anomaly situation. The playback update stategy is discussed in the Playback Recap text.

04-16-97: Playback table update. NIMS compression had been better than predicted. The saved bits are employed to triple the coverage for G7CNGLOBAL01. The Project requests information that will help constrain/describe what occurred during the star scanner anomaly.

04-21-97: Glenn Orton reports that G7JNHOTMAP01 successfully imaged the hot spot targeted, though this appears near the edge of the image. Later, data for G7GNGLOBAL01 shows that the unknown drift in the clock direction (not constrained by other data) was relatively small (about 5 NIMS pixels or 2.5 mrad).

G7 Playback Events Timeline (02-24-97 to 05-03-97)

04-24-97: The Project released 4 Mbits of office margin, of which NIMS received 1.73 Mbits. The new allocation was employed to command for playback G7INCHEMIS04, which had been deleted from the plan in February. Playback of the lower scan of G7ENFLEXUS01 was also added to the plan. Due to saturation at visible wavelengths, a wavelength table without detector 1-8 bands was generated (G7ELM108). Finally, playback for G7GNGLOBAL01 was increased from 0.9 to 2.6 Mbits. Part of this increase was covered by compression savings. The AWG portion of the new allocation was spent in a second attempt to return data from the 66 degree phase observations that were later determined to have been lost due to an instrument software halt.

04-28-97: This early final update was approved in order to make best use of additional office margin bits released by the Project. NIMS and SSI recommended release of 1.6 Mbits of the 3.0 remaining after inefficiency losses. Pigheadedness on the part of the MWG representatives (who insisted on a margin of 2.4 Mbits to protect their remaining 0.2 Mbits of gap-fills) resulted in the release of only 0.6 Mbits, of which NIMS received 0.27. We were able to add only a small portion of the upper scan of G7GNHILAT01 (our highest priority), instead of all of it. As partial consolation we were able to command return of data recorded after the MWG snippets. We specified 80 wavelengths to complete return of the northern portion of G7JNTHRMNS01, and a completely new set of commands to get all 253 bands for the southern hemisphere portion of the observation.

5-03-97: Playback is terminated after running out without incident. In the end MWG's gap fills were never in danger, and we received 100% of the commanded data (an additional 3 Mbits) for G7JNTHRMNS01. For the entire orbit, NIMS data return totaled 30.35 Megabits.

NIMS Anomaly Report - G7 Sequence

Two types of anomalies occurred during the G7 Encounter: The NIMS processor halted once and there was an AACS scan platform anomaly that lasted about 20 hours.

Detectors 3 and 8 are still not functioning and are expected to be lost for the rest of the mission.

Processor Halts

Facts:

0. Between the Start of the G7 Encounter and the single Halt NIMS returned 7 realtime observations and successfully reloaded NIMS from CDS 9 times. The NIMS SCLK engineering channels were continuously monitored for detecting a NIMS processor halt.

1. A NIMS processor halt was assumed to have occurred somtime between CHEMIS06 and RELOAD10. This halt was inferred from the fact that the realtime observation NNHEALTH04 was never returned and two Jupiter observations (JNFEA06601 and JNPFTB6601) returned empty packets in playback. This combination of facts is consistent with the NIMS processor having halted. Valid NIMS engineering SCLK values were reported just after NIMS reloads 09 and 10 but not during the time that NIMS was halted. A table of the NIMS engineering SCLK values near the time of the Halt follows (Note tat the NIMS engineering SCLK value is normally 2 Rims behind the CDS SCLK Rim when it is reported):

NIMS SCLK	CDS SCLK	CDS SCET	GROUND ERT
03898270	03898272.58	1997-094T14:23:34.442	1997-094T15:49:24.372
03898653	03898655.05	1997-094T20:50:14.428	1997-094T21:36:47.069

2. Three NIMS observations were lost due to this Halt: NNHEALTH04, JNFEA06601 and JNPFB6601.

Timing:

SCLK	Comments
03898256:06	NIMSLD09 software reload completed
03898262:00	Start INCHEMIS06 - not returned - AACS anomaly
03898272.58	Valid 03898270 SCLK Reported
03898616.00	Start JNFEAP6601 - bad data returned
03898626.00	Start JNPFTB6601 - bad data returned
03898632.00	Start NNHEALTH04 - NO R/T data returned
03898645:06	NIMSLD10 software reload completed
03898655.05	Valid 03898653 SCLK Reported

NIMS Anomaly Report - G7 Sequence

Summary:

1. One NIMS processor Halt is inferred to have occurred during the G7 Encounter.

2. Continuous monitoring of the NIMS SCLK channels did not help to identify this Halt. The timing was such that the halt was corrected by a NIMS reload before the NIMS engineering SCLK was picked up by the CDS engineering commutation map.

3. The 15 NIMS software reloads from CDS greatly lessened the potentially disastrous effects of the G7 Halt and protected the NIMS observations during the Encounter.

4. Frequent NIMS realtime observations, both science observations and instrument health monitoring observations, verified that NIMS was functioning normally at various time points throughout the encounter. The fact that one Helath observation was missing helped identify the apparent NIMS processor Halt.

5. The error avoidance measures applied to the G7 Encounter as determined in the analysis of the processor halts that occurred in earlier orbits were shown to be the proper response for dealing with the inevitable occurence of radiation-induced NIMS processor halts.

G7 AACS Anomaly

0. The AACS Bright Body Vector blocked one of the two stars in the AACS Star Scanner star set. This halted the star-based celestial reference, causing drift to accumulate in the scan platform gyro-based pointing.

1. This started near 97-094/07:00. The problem was corrected at 97-095/02:46. During this interval drift error accumulated to a maximum of about 14 mRad just before the problem was corrected. The pointing of the following NIMS observations was affected:

G7NNHEALTH03	G7JNHOTMAP01	G7INCHEMIS06	G7JNFEA96601
G7JNPFTB6601	G7NNHEALTH04	G7JNFEAP6602	G7JNPFTB6602
G7JNPFC06601	G7JNFEA53M01	G7JNFEA5UM01	G7NNHEALTH05
G7INCHEMIS07	G7GNGLOBAL01	G7JNFEX10801	G7JNFEX10802

2. The pointing errors of the NIMS observations during this interval is disussed briefly in the G7 Playback Recap section of this chapter.

3. A more detailed discussion of the AACS Anomally provided by the AACS Team follows:

G7A BRIGHT BODY VECTOR PROBLEM DESCRIPTION

Problem:

The bright body vector loaded to cover Europa on 97-094/07:00 inadvertently blocked out the second star of a two star set. This caused SEQID to fail, eliminating star-based celestial reference.

Without star-based celestial reference, errors in scan platform pointing due to gryo drift accumulated and reached a maximum of 14 mRad in cone before the problem was resolved.

How The Problem Was Solved:

The second star in the set (star 61) was replaced by star 148, which was not in danger of being blocked out by a bright body vector. Star 148 replaced 61 (rather than simply being added to the set) because the two stars were too close to each other to be used simultaneously by SEQID, the FSW algorithm that computes star-based celestial reference.

Why the Problem Occured:

Ground software showed that the clock blockage angle expected by the bright body vector was 2.9 degrees away from the clock pulse of star 61. The star set worked nominally in the testbed, so the set was deemed sufficient.

Why Star 148 Wasn't Used In The Original Set:

The original set consisted of stars 2 and 61. The anomaly resolution set consisted of stars 2 and 148. There were several reasons why the original set was chosen. Firstly, the original set had been used successfully before in flight, whereas the anomaly fix set had never been used. Secondly, star 61 of the original set is brighter than star 148, making it more robust in handling background radiation. Lastly, the original set allowed for a greater amount of S/C attitude uncertainty (1 degree as opposed to .8 degrees for the anomaly fix set).

Why the problem Won't Be repeated:

Analysis has since shown that the FSW timing uncertainty of bright body vectors translates to 2.6 degrees in clock. Star 61 was right on the border of the FSW timing uncertainty, which explains why it worked in the test bed, but dropped out in flight.

Star set generation criteria has since been updated to allow sufficient margin for FSW timing uncertainty. The star set checklist currently requires that there be a minimum of 13 degrees between the end of a bright body vector and the clock pulse of an essential star.

NIMS Archived EDRs and CUBEs

The NIMS data are stored in EDRs (Experimental Data Records) produced by JPL-MIPS (Multi-mission Image Processing System). The NIMS Phase2 EDR is described in the NIMS EDR SIS (Software Interface Specification) Number 232-08. The same information is available in both human and machine-readable form in the PDS (Planetary Data System) structure files EDRHDR.FMT and EDRDATA.FMT in the LABEL directory of the NIMS EDR CD-ROM. Each observation has at least one EDR. The EDR file name is derived from the 12 character observation name plus a single character which allows an observation to be broken up into multiple EDRs. The EDRs have a Vicar label, followed by a PDS/ISIS label, binary header records and the data records. For archiving on CD-ROM, the Vicar labels are detached from the EDR (but kept separately on CD) and the file is renamed so as to conform to the 8.3 DOS file-naming convention. The 8.3 EDR name consists of a 2 character orbit identifier, a single character target identifier, a 3 digit counter and the suffix EDR. For example, the MIPS EDR G1GNGLOBAL01A.1 becomes G1G001.EDR. More information about NIMS EDRs can be found in the VOLINFO.TXT file on the EDR CD-ROM.

NIMS EDR data typically require considerable processing before they are readily amenable to science analysis. Normally, the EDRs are processed into spectral image cubes by one of several sets of software. MIPS systematically processes the EDRs into CUBEs (band sequential image files) and MASKs (spatial/spectral summary images) which are distributed on the NIMS CUBE CD-ROMs. Information about the structure of the NIMS CUBEs can be found in the VOLINFO.TXT file on the CUBE CD-ROM. The name of the CUBE file is derived from the input EDR filename. For archiving on CD-ROM, the CUBE files are renamed so as to conform to the 8.3 DOS file-naming convention. The 8.3 CUBE name consists of a 2 character orbit identifier, a single character target identifier, a 3 digit counter, a single character cube-type identifier, a single character data unit-type (DN, radiance or IOF) and the suffix QUB. For example, the MIPS IOF radiance cube for the observation G1GNGLOBAL01A.1 (G1G001) becomes G1G001CR.EDR. The summary MASKs on the CD-ROM have the same 6 character name as the EDR name with the suffix JPG or GIF to denote its graphics format.

NIMS Data Format - Data types - Data Labels - Data Access

Data Format

All data files have PDS labels. The raw data (EDR) file contains time-sequential, 16 bit integers. Reduced data files (TUBES and CUBES) may be viewed as images or spectra. They contain VAX real numbers, are band sequential (BSQ - the images are stacked in band order) and have geometry information appended as backplanes after the last NIMS band.

Data Types

Mask files contain summary images (3 band BSQ) and spectra of up to six selected regions that provide a quick indication of data location, data quality and spectral content. A Guide to understanding the NIMS mask is available.

Cube files contain data that have been projected and resampled. The core data are BSQ - spatial in the first two dimensions, and spectral in the third. Cubes of the satellites are projected in point-of-view, and, with few exceptions have no photometric correction applied. Cubes of Jupiter are (generally) projected as simple cylindrical. Cubes of Europa, Ganymede, and Callisto have been despiked. The cubes are available both in radiance and I/F (intensity divided by flux) form.

Tube files contain data in (almost) time order and normally have a NIMS-related 20 pixel spatial dimension (20 x n or n x 20). Projection coordinates are contained in backplanes, but the data have not been resampled. The data are in units of radiance and no despiking has been applied. All data in cubes are also available in tube form. Some data (such as spatially undersampled data) appear in tube form only.

A spike file contains a list of pixels that have been identified as spikes, but not replaced, in the tube. Spike files can be used to remove spikes from both tube and EDR files.

EDR files contain the most primitive form of the data available. They should be used only for advanced data analysis. The format is complex and the files do not form images or spectra without prior processing.

Data Labels

A data label (PDS form) is attached to the front of each file (except masks, which have an attached VICAR label and a detached PDS label). The labels are in ASCII keyword=value format and contain pointers to various data objects in the file, descriptions of the data objects and descriptions of the observation associated with the file. A history object in similar format follows and describes the processing steps that produced the file. Much of this information is necessary for understanding and viewing the cube. In particular, the label contains the offset to the cube, the dimensions of the cube, axes labels, and explicit wavelength information.

Data Access

Software for processing this data is called ISIS and is available for DEC VAX VMS, SUN Solaris, DEC Alpha Digital Unix, Silicon Graphics Unix and PC LINUX systems. The Unix versions are available from the USGS Astrogeology team. Images from NIMS cubes and tubes can be viewed with any image display program which allows an offset from the beginning of the file to the selected image. Packages tested include ISIS, VICAR, ENVI, SAO IMAGE, and NASAVIEW. ISIS and ENVI (and soon NASAVIEW) additionally display spectra. The ISIS viewer is named CV (UNIX) or QL3 (VMS).

Labels may be displayed with some editors (eg DOS edit), and with most "type" and "search" functions. Some editors do not recognize the PDS line termination conventions. The label may be listed by the ISIS function LHLIST (VMS) or LABEL (UNIX).

Software for converting EDRs to cubes exist in both ISIS (DEC VAX VMS) and VICAR (DEC Alpha VMS) versions only. A primitive list of values in an EDR may be obtained with the program EDRDMP2.

Understanding the NIMS Mask

The NIMS mask is designed to provide a quick summary of the contents of a NIMS data cube (or tube). It displays a view of both the spatial and spectral content of the data.

The mask has four regions. Starting from the upper left and proceeding clockwise: a spatial display; six or fewer representative spectra; annotation; and a spectral histogram.

The spatial display of an observation which has been projected and resampled (a cube) has a maximum size of 600x600 pixels. This is overlaid with surface coordinates and is embedded in a 700x700 grid of pixel coordinates. It is accompanied by two 1-dimensional histograms describing the raw image and the image stretched for display. The data image can range from a simple combination of up to 3 NIMS bands displayed in the RGB planes, to complicated arithmetic functions of NIMS bands displayed in the RGB planes. (The formulas appear as annotation below the histograms.) The graphics directly below the image show the input and output data histograms for the three color planes. The "shortest" color for each bin displays in front. The image also contains from one to six numbered rectangles, which show the from which averaged spectra (displayed on the right) were taken.

The spatial display of an observation in time sequence (a tube) is a graphic showing a footprint of the observation over a grid of surface coordinates on the target body. Numerals 1-6 on the graphic mark the locations of the average spectra displayed on the right.

The spectra to the right of the image may display either BDRF or radiance (or both). If both are displayed, then a vertical "radiance fence" line will appear where the breakpoint occurs. This permits display of both atmospheric data, which have significant reflectance and thermal components, and I/F satellite surface data which have strong absorptions at longer wavelengths (such as water spectra.) The spectra are labelled with wavelength in microns and location in both pixel and latitude-longitude space.

The annotation provides information about the observation, including its name, a brief description, its geometry, instrument and projection parameters. TCA is the time from Galileo’s closest approach to the target body.

The 2-dimensional spectral histogram in the lower left corner shows the number of pixels at a given radiance for each wavelength. If a surface contains spatial mixtures with significantly different spatial fractions for several components, the spectra of the components will be evident in this display.