NIMS GUIDE TO THE J0 ORBIT

Original: December 1995

Revised: June 1998

VERSION DATE: 980601

Foreword to the Revised Edition

This document was originally published by the NIMS team as a preview to data acquisition for one orbit. It has 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.

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Chapter 1 - Introduction

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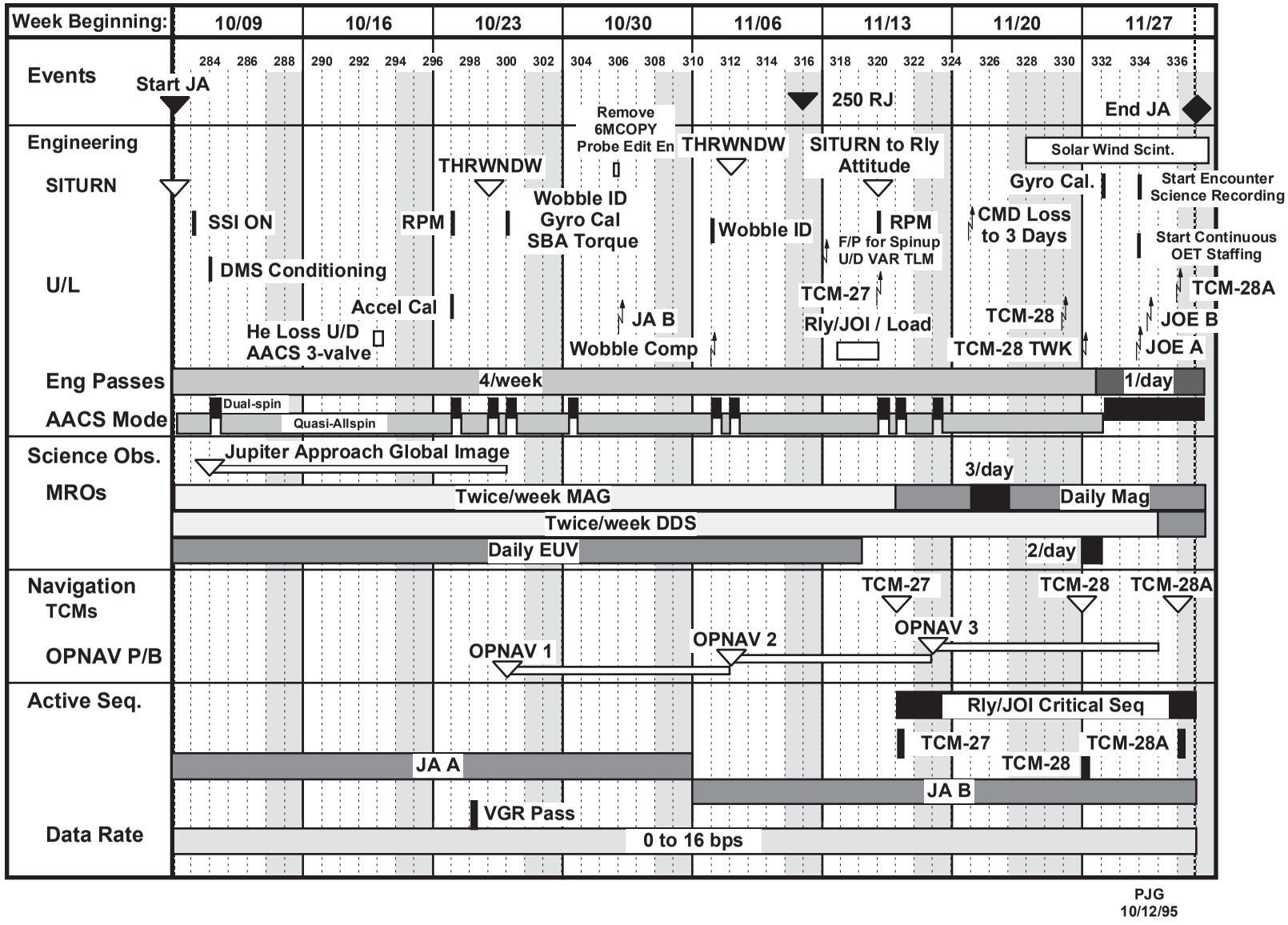
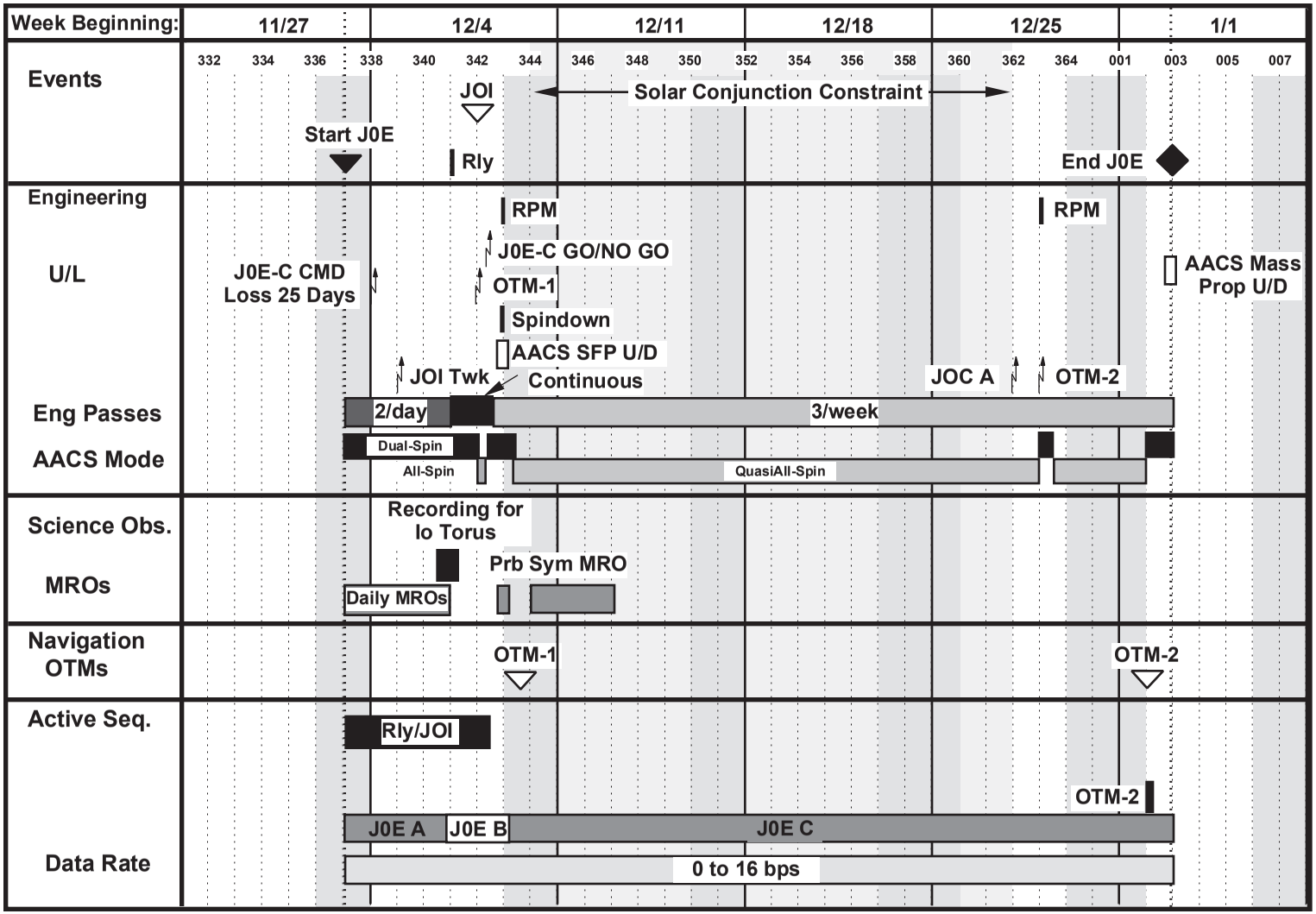
Introduction

This J0 orbit was the first flyby of Jupiter in Galileo's Tour of the Jovian system. Unfortunately, due to problems with the spacecraft's tape recorder, no NIMS data were recorded during J0. This was the only flyby of Io in Galileo's main mission. Close flybys of Io are planned for the GEM orbits I24 and I25.

JAA / JAB OVERVIEW



J0E OVERVIEW



PJG/KIM
11/17/95

Introduction to Chapter 2

This chapter gives an overview of the NIMS observations in the J0 Orbit.

The text on pages 3 and 4 summarizes the NIMS science objectives for J0.

The table on page 5 is a time-ordered listing of the NIMS Oapels for J0.

The plot on page 6 shows the geometry of the NIMS observations using a north trajectory pole view projection.

The table on page 7 lists the NIMS J0 observing parameters: target latitude/longitude, range, cone angle, incidence angle (light), emission angle (view) and phase angle.

The NIMS J0 mosaic designs are summarized on pages 8 and 9 in time-order.

Chapter 2 - Orbit Overview

Contents

NIMS J0 Science Overview

NIMS has a total of 17 observations planned for J0E: 6 Jupiter observations, 1 Europa observation and 10 Io observations. The NIMS Jupiter observations target the region of the Probe Entry Site (PES). The NIMS Europa observation targets the south polar region of Europa. The NIMS Io observations take advantage of the only Io encounter planned for the entire mission.

Jupiter Science

The NIMS Jupiter observations, along with concurrent observations by PPR, SSI and UVS, will characterize the PES and PES latitude region over the full suite of Galileo wavelengths. This will allow full-up complementary analysis of the vertical structure of Jupiter's atmosphere at the PES for correlation with the probe data. The NIMS observations consist of 6 spectral maps (5 dayside and 1 nightside) in short map and long map modes.

Europa Science

The one NIMS Europa observation will take advantage of the unique orbital inclination during J0E to map the south polar region of Europa in full map mode. The main objective of this observation is to search for non-water ice volatiles, which can only exist in the polar regions due to the lower sublimation rates. Detection of any non-water ice volatiles would be strong evidence for volcanism on Europa.

Io Science

Galileo's best opportunities for observing Io will occur during J0E when the spacecraft flies by Io at an altitude of 1000 km. NIMS will make ten close-range observations of Io during this time (Table 1). The objectives of these observations can be summarized as:

1) Obtain global coverage at the maximum feasible spectral and spatial resolutions given the downlink capabilities: Observations 1 (HRSPEC) and 2 (GLOBAL) address this objective. Both are spectral maps of Io's dayside, with HRSPEC obtaining high spectral resolution (50% 408 and 50% 204 wavelengths) at spatial resolutions of about 50 km/NIMS pixel, and GLOBAL being a complementary observation obtaining higher spatial resolution (about 25 km/NIMS pixel) but with modest spectral coverage (17 wavelengths). Wavelengths for GLOBAL will be chosen to map out selected species while the wide wavelength coverage in HRSPEC will allow NIMS to map both known and as yet unknown spectral features.

2) Map selected areas at high spatial resolution (a few km per NIMS pixel) and medium to high spectral resolution (102 to 204 wavelengths). NIMS will take advantage of the spacecraft's close flyby of Io to make observations 3, 4, 6, 7 and 8. Areas targeted were selected to sample a variety of terrain types in order to investigate their different mineralogies. The Prometheus and Maui region observation (HRCHEM) includes samples of dark and light terrains shown in Voyager images. A higher spatial resolution observation of the Prometheus vent (PROMVT) will be made at a closer range to sample the vent area and plume in more detail. Prometheus is a persistent-type plume and it is reasonable to expect that it will still be active at the time of Galileo's JOI. Other terrain samples include the mountain and mesa region on the northwestern edge of Colchis Regio (MTMESA), the Volund vent area, which is a hot spot observed by Voyager IRIS (VOLUND), and the Colchis Regio (COLCHIS), where lava flows were identified from Voyager data. The Prometheus vent, mountain/mesa, Volund and Colchis regions will also be observed by Galileo's Solid State Camera (SSI) almost concurrently.

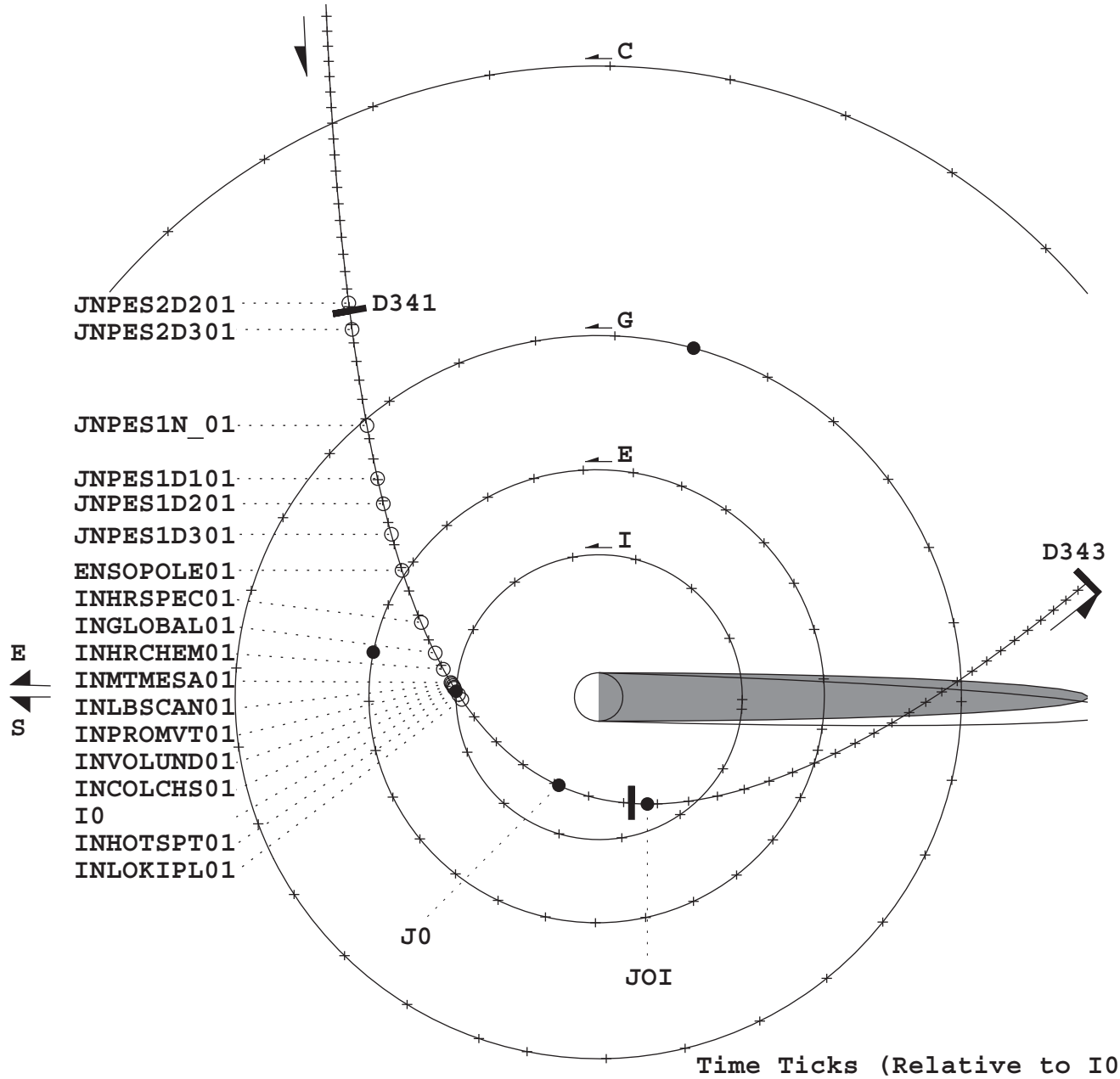
3) Map part of Io's nightside and Loki plume using the NIMS thermal channels together with Galileo's Photopolarimeter Radiometer (PPR). Observation 9 (HOTSPT) will map the Kanehekili hot spot region and characterize the local temperature distribution. Observation 10 (LOKIPL) consists of three limbscans from the surface to about 200 km altitude to characterize the plume's temperature distribution.

4) Limb scans to detect SO2 in Io's atmosphere. Observation 5 (LBSCAN) will consist of three limb scans in Fixed Spectrometer mode to attain very high spatial resolution; one near the sub-solar point, one over an active region (Amarani Maui) and one in between. The objective is to determine whether atmospheric SO2 is due to volcanic plumes or to sublimation.

JA Time-Ordered Listing

OAPEL	Start (UTC)	End (UTC)	Duration
JAJNPES2D201-	95-340/23:34:54	95-340/23:41:54	000/00:07:00
JAJNPES2D301-	95-341/01:02:31	95-341/01:07:27	000/00:04:56
JAJNPES1N 01-	95-341/06:06:00	95-341/07:47:03	000/01:41:03
JAJNPES1D101-	95-341/08:43:13	95-341/08:53:13	000/00:10:00
JAJNPES1D201-	95-341/09:54:16	95-341/10:05:26	000/00:11:10
JAJNPES1D301-	95-341/11:18:03	95-341/11:28:03	000/00:10:00
JAENSOPOLE01-	95-341/12:53:00	95-341/13:17:46	000/00:24:46
JAINHRSPEC01-	95-341/15:04:57	95-341/16:00:16	000/00:55:19
JAINGLOBAL01-	95-341/16:17:48	95-341/16:25:52	000/00:08:04
JAINHRCHEM01-	95-341/16:55:48	95-341/17:04:28	000/00:08:40
JAINMTMESA01-	95-341/17:26:26	95-341/17:27:22	000/00:00:56
JAINLBSCAN01-	95-341/17:29:22	95-341/17:32:12	000/00:02:50
JAINPROMVT01-	95-341/17:33:31	95-341/17:35:28	000/00:01:57
JAINVOLUND01-	95-341/17:37:28	95-341/17:38:44	000/00:01:16
JAINCOLCHS01-	95-341/17:39:35	95-341/17:40:48	000/00:01:13
JAINHOTSPT01*	95-341/17:54:44	95-341/17:59:48	000/00:05:04
JAINLOKIPL01*	95-341/18:05:48	95-341/18:08:13	000/00:02:25

NIMS J0 OBSERVATIONS



Time Ticks (Relative to I0)

Io -	3 Hrs
Europa -	3 Hrs
Ganymede -	6 Hrs
Callisto -	12 Hrs
Spacecraft -	1 Hrs

Europa Flyby (E0): 07-DEC-1995 (D341) 13:09:36 UTC
Io Flyby (I0): 07-DEC-1995 (D341) 17:46:45 UTC
Perijove (PJ0): 07-DEC-1995 (D341) 21:54:33 UTC
Orbit Insertion (JOI): 08-DEC-1995 (D342) 00:28:27 UTC

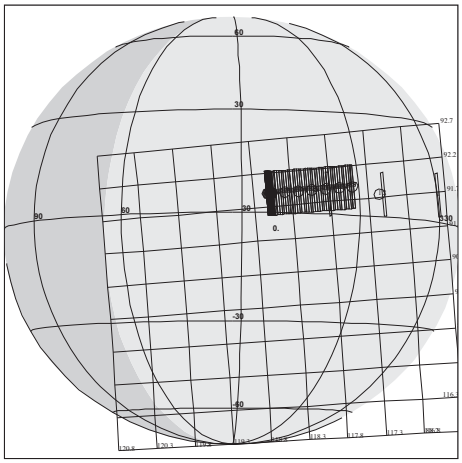
J0 North Trajectory Pole View

NIMS - FEL - 05/26/98

NIMS IO OBSERVATIONS DURING JUPITER ORBIT INSERTION

OBS NUMBER	ACTIVITY NAME	# WAVE-LENGTHS	DESCRIPTION	RESOLUTION (km)	PHASE ANGLE (deg)	INCIDENCE ANGLE (deg)	EMMISION ANGLE (deg)
1	HRSPEC	408 & 204	Global map of Io's dayside at high spectral resolution (50% 408 and 50% 204 wavelength)	~60	14	11 to 103	8 to 90
2	GLOBAL	17	Global map of Io's dayside at high spatial resolution	~25	13	10 to 100	6 to 90
3	HRCHEM	102	High spatial resolution amp of Prometheus and Maui regions	~15	10	8 to 59	21 to 74
4	MTMESA	204	Very high spatial resolution observation of Mountain/Mesa Region	~8	8	62	63
5	LBSCAN	2	Limb scans to detect SO2	~6	6	62 to 79	73 to 93
6	PROMVT	204	Very high spatial resolution observation of Prometheus vent	~5	6	24	28
7	VOLUND	204	Very high spatial resolution observation of Volund vent	~3	8	25	41
8	COLCHS	204	Very high spatial resolution observation of Colchis area	~2	13	13	33
9	HOTSPT	17	Darkside thermal map of of Kenehekili region	~4	148	134	23
10	LOKIPL	17	Limb scan of Loki plume and thermal map of Loki event	~8	156	113 to 139	66 to 92

J0 NIMS A



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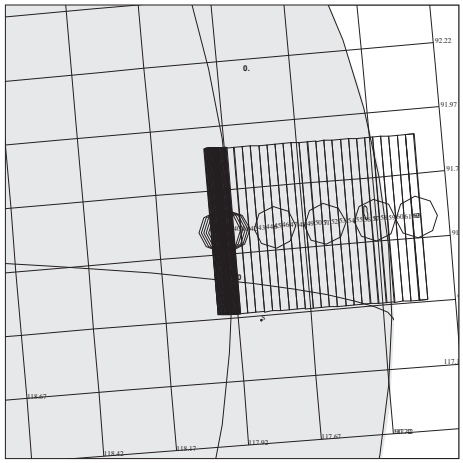

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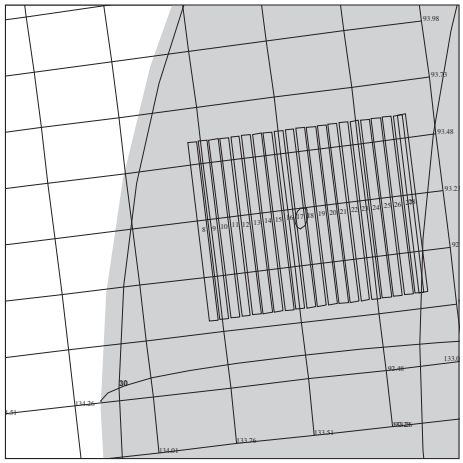

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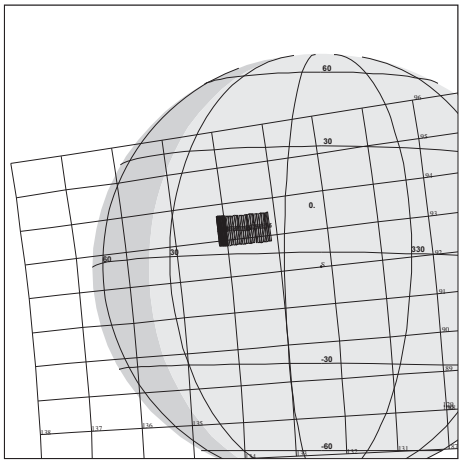

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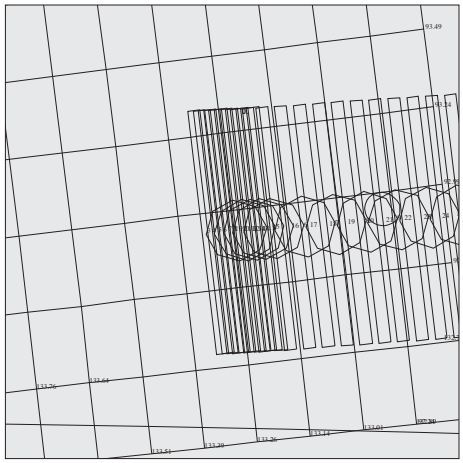

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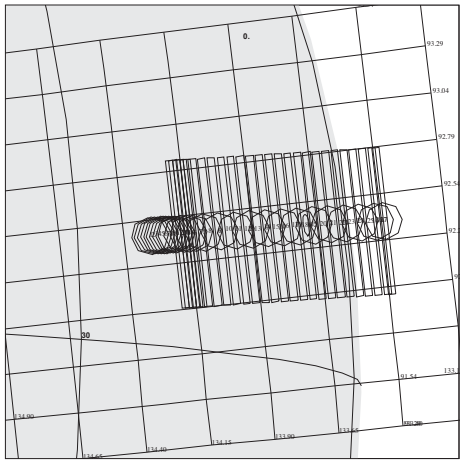

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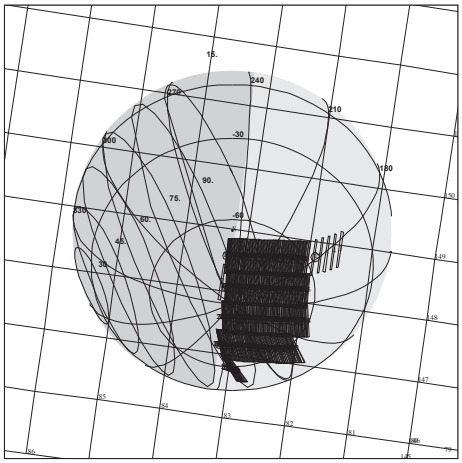

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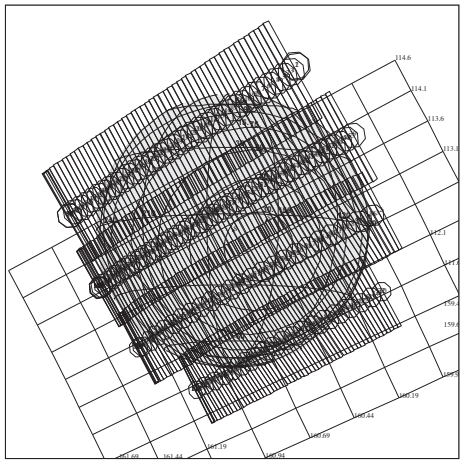

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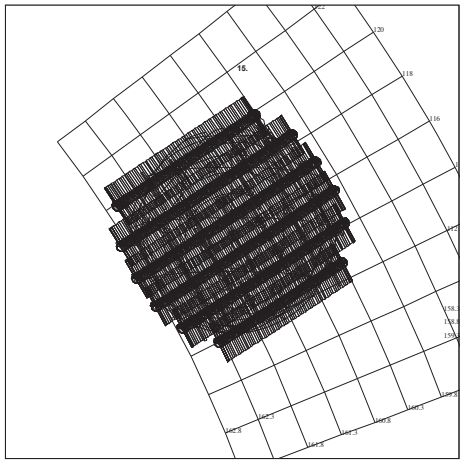

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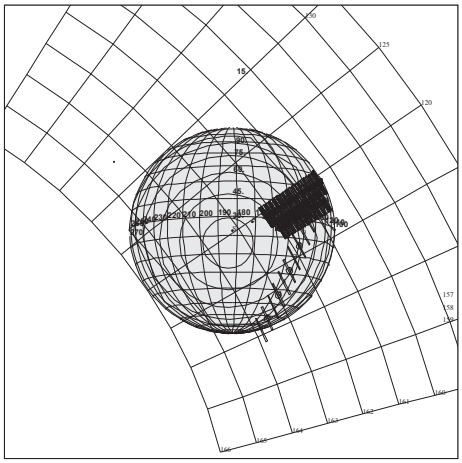
J0 NIMS B



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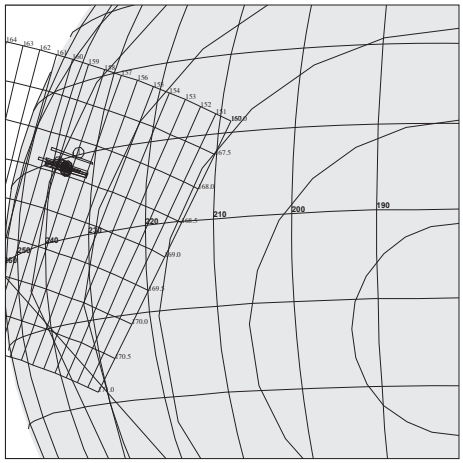

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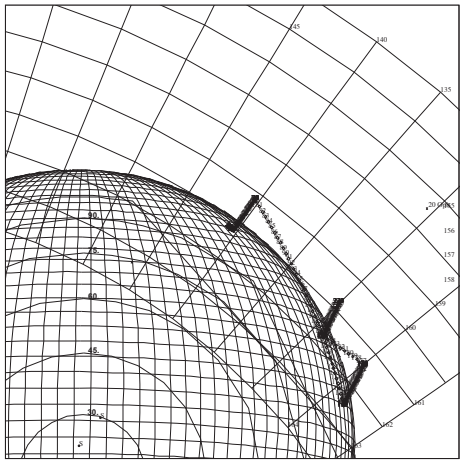

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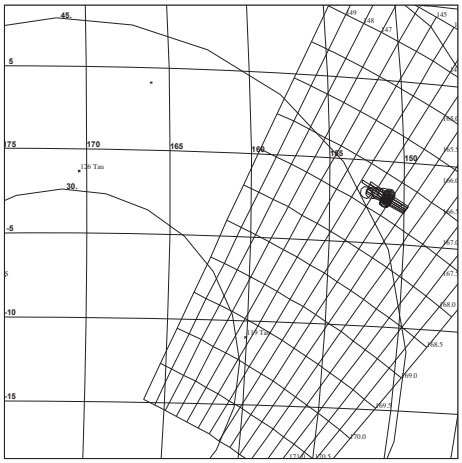

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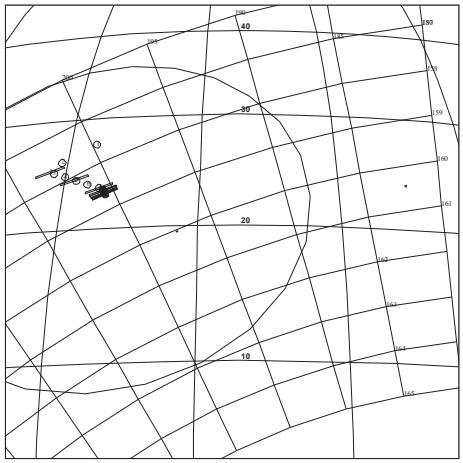

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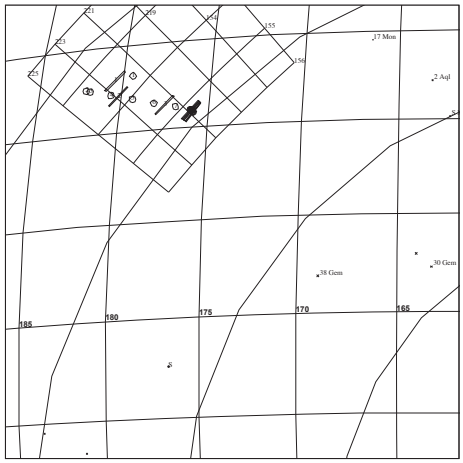

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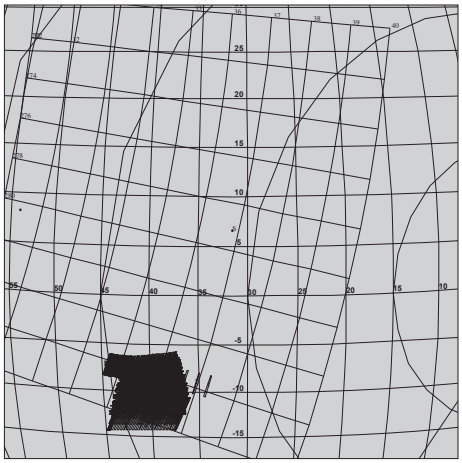

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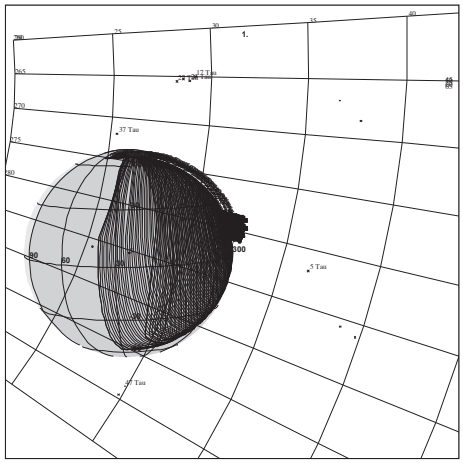

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Chapter 4 - NIMS Observation Summaries

Contents

Introduction to Chapter 4

This chapter summarizes the NIMS J0 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 J0 Sequence. The information in this summary is derived from the J0 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 J0 data. It is also derived from the E4 SEFs and PBTs. Each Obstab entry is 512 bytes long but is presented here as 4 lines of 128 characters per entry.

			Sequence:	JAB-IA		Created: 10.23.95	Begin: 95-310/14:30:00 Finish: 95-337/11:30:00				
Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
1	95	310	18:00:05.533	20D3A	37F2PR		1 Shield Flash Heater OFF (primary relay)	0O0	0	0	3,165,035:68:0
2	95	310	18:00:10.200	20D3B	37F2PR		2 Shield Flash Heater OFF (primary relay)	0O0	0	0	3,165,035:75:0
3	95	310	18:20:02.866	20ZU3Q	37HR	CMD,37HR,20ZU3Q,	Replacement Heaters OFF	0O0	0	0	3,165,055:44:0
4	95	310	18:20:30.866	20ZU3R	37A	CMD,37A,20ZU3R,,	NIMS Power ON	260	4	0	3,165,055:86:0
5	95	310	18:22:32.200	20ZU4A	37IST	1,1,0,OFF,0,0,0	Chopper OFF, N/A, 63Hz (Ref)	2O0	4	0	3,165,057:86:0
6	95	310	19:24:59.533	476B6A	6TMCHG	EMS	16 BPS D/L	2O0	4	0	3,165,119:65:0
7	95	310	22:39:59.533	476A6A	6TMCHG	ELS	10 BPS TDM	2O0	4	0	3,165,312:52:0
8	95	311	00:29:54.866	476D6A	6TMCHG	EMS	16 BPS D/L	2O0	4	0	3,165,421:26:0
9	95	311	02:00:00.200	480JE6A	6MROH	28,0900,20,A16	read from EUV/HI28,0900,20,A	2O0	4	0	3,165,510:35:0
10	95	311	07:53:56.200	476C6A	6TMCHG	ELS	10 BPS TDM	2O0	4	0	3,165,860:39:0
11	95	311	16:24:04.133	20AY4A	7SLEW	DIS,POS,0.0	Stator movement	2O0	4	0	3,166,364:87:0
12	95	311	16:25:04.133	20AY4B	7MODE	CRU	AACS CRUISE MODE	2O0	4	0	3,166,365:86:0
13	95	311	23:40:24.133	20BA4A	7SAFE	UNSTOW	S/P TO 153 deg cone	2O0	4	0	3,166,796:45:0
14	95	312	03:55:04.133	20BB4A	7MODE	SPNL	AACS ALL-SPIN LOW	2O0	4	0	3,167,048:33:0
15	95	312	04:05:04.133	20BB4B	7SLEW	INIT,NEG,3.5	Stator movement	2O0	4	0	3,167,058:23:0
16	95	312	08:54:25.466	476G6A	6TMCHG	ELS	10 BPS TDM	2O0	4	0	3,167,344:39:0
17	95	312	11:24:56.133	476H6A	6TMCHG	EMS	16 BPS D/L	2O0	4	0	3,167,493:26:0
18	95	312	15:00:00.133	480JF6A	6MROH	28,0900,20,A16	read from EUV/HI28,0900,20,A	2O0	4	0	3,167,705:90:0
19	95	312	15:23:59.466	476E6A	6TMCHG	ELS	10 BPS TDM	2O0	4	0	3,167,729:65:0
20	95	312	15:55:04.133	20BC3A	40T1P		1 PCT Heater 1 ON (primary relay)	2O0	4	0	3,167,760:41:0
21	95	312	15:55:10.133	20BC3B	40T1P		2 PCT Heater 1 ON (primary relay)	2O0	4	0	3,167,760:50:0
22	95	312	16:00:04.133	20BD4A	7SLEW	DIS,POS,0.0	Stator movement	2O0	4	0	3,167,765:36:0
23	95	312	16:01:04.133	20BD4B	7MODE	CRU	AACS CRUISE MODE	2O0	4	0	3,167,766:35:0
24	95	312	16:30:00.133	444AE443A4B	7MODE	INT	AACS INERTIAL MODE	2O0	4	0	3,167,795:00:0
25	95	312	17:47:00.000	JAN_OPCAL_01-		-----START------		2O0	4	0	: :
26	95	312	17:47:46.800	157JR156A121A4A	37IOP	3,0	Long Map, Grating Start Position =00	2O3	4	0	3,167,871:84:0
27	95	312	17:47:58.800	165EB4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2O3	4	0	3,167,872:11:0
28	95	312	17:47:59.466	165EB4B	7SCAN	NORM,175.825998,	Check S/P Position	2O3	4	0	3,167,872:12:0
29	95	312	17:48:52.133	176EB6A	6TMCHG	NCGIM4	NO CHANGE / 403.2 KBPS IMAGE + 1/8 NIMS RE	2O3	4	0	3,167,873:00:0
30	95	312	17:51:49.466	157JR156A121B4A	37IST	0,0,1,OFF,1,1,1	OPCALGain State 4	4O3	4	0	3,167,875:84:0
31	95	312	17:52:05.466	AWG,1.7	NIMPBK	301JS	OPCAL GAIN STATE 4	4O3	4	0	: :
32	95	312	17:52:12.800	NIMS2;	DESELC	300JS	OPCAL GAIN STATE 4	4O3	4	0	: :
33	95	312	17:52:13.000	JAN_OPCAL_01-		-----STOP-------		4O3	4	0	: :
34	95	312	17:54:05.466	20EC4A	7SAFE	UNSTOW	S/P TO 153 deg cone	4O3	4	0	3,167,878:15:0
35	95	312	19:24:55.466	476F6A	6TMCHG	EMS	16 BPS D/L	4O3	4	0	3,167,968:00:0
36	95	312	21:00:00.733	444AF443A4A	7MODE	CRU	AACS CRUISE MODE	4O3	4	0	3,168,062:04:0
37	95	312	21:36:00.066	484AC4C	7SAFE	UNSTOW	S/P TO 153 deg cone	4O3	4	0	3,168,097:58:0
38	95	312	22:10:00.066	481B4A	7VECT	RTH	Inert vect update UTC	4O3	4	0	3,168,131:24:0
39	95	312	23:11:04.066	20BE4A	7MODE	SPNL	AACS ALL-SPIN LOW	4O3	4	0	3,168,191:60:0
40	95	312	23:21:04.066	20BE4B	7SLEW	INIT,NEG,3.5	Stator movement	4O3	4	0	3,168,201:50:0
41	95	313	00:25:00.066	480JG6A	6MROH	28,0900,20,A16	read from EUV/HI28,0900,20,A	4O3	4	0	3,168,264:71:0
42	95	313	00:40:04.066	20BF3A	40T1PR		1 PCT Heater 1 OFF (primary relay)	4O3	4	0	3,168,279:62:0
43	95	313	00:40:10.066	20BF3B	40T1PR		2 PCT Heater 1 OFF (primary relay)	4O3	4	0	3,168,279:71:0
44	95	313	08:39:56.733	476I6A	6TMCHG	ELS	10 BPS TDM	4O3	4	0	3,168,754:26:0
45	95	313	19:09:52.066	476L6A	6TMCHG	EMS	16 BPS D/L	4O3	4	0	3,169,377:26:0
46	95	313	22:39:53.400	476K6A	6TMCHG	ELS	10 BPS TDM	4O3	4	0	3,169,585:00:0
47	95	314	00:57:15.333	476J6A	6TMCHG	EMS	16 BPS D/L	4O3	4	0	3,169,720:78:0
48	95	314	01:50:00.666	480JH6A	6MROH	28,0900,20,A16	read from EUV/HI28,0900,20,A	4O3	4	0	3,169,773:03:0
49	95	314	07:39:58.000	476M6A	6TMCHG	ELS	10 BPS TDM	4O3	4	0	3,170,119:13:0
50	95	314	11:25:00.666	476N6A	6TMCHG	EMS	16 BPS D/L	4O3	4	0	3,170,341:65:0
51	95	314	15:24:56.000	476O6A	6TMCHG	ELS	10 BPS TDM	4O3	4	0	3,170,579:00:0
52	95	314	17:54:17.333	476P6A	6TMCHG	EMS	16 BPS D/L	4O3	4	0	3,170,726:65:0
53	95	315	08:39:52.600	476W6A	6TMCHG	ELS	10 BPS TDM	4O3	4	0	3,171,602:52:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
54	95	315	11:24:58.600	476R6A	6TMCHG	EMS	16 BPS D/L	4O3	4	0	3,171,765:78:0	
55	95	315	15:00:00.600	480JI6A	6MROH	28,0900,20,A16	read from EUV/HI28,0900,20,A	4O3	4	0	3,171,978:48:0	
56	95	315	15:24:53.933	476S6A	6TMCHG	ELS	10 BPS TDM	4O3	4	0	3,172,003:13:0	
57	95	315	17:39:57.266	476T6A	6TMCHG	EMS	16 BPS D/L	4O3	4	0	3,172,136:65:0	
58	95	316	09:49:53.933	476U6A	6TMCHG	ELS	10 BPS TDM	4O3	4	0	3,173,096:00:0	
59	95	316	14:50:00.533	480JJ6A	6MROH	28,0900,20,A10	read from EUV/HI28,0900,20,A	4O3	4	0	3,173,392:74:0	
60	95	316	17:39:55.200	476X6A	6TMCHG	EMS	16 BPS D/L	4O3	4	0	3,173,560:78:0	
61	95	317	08:24:55.866	476Y6A	6TMCHG	ELS	10 BPS TDM	4O3	4	0	3,174,436:13:0	
62	95	317	14:45:00.533	480JK6A	6MROH	28,0900,20,A10	read from EUV/HI28,0900,20,A	4O3	4	0	3,174,812:04:0	
63	95	318	00:09:53.133	476AB6A	6TMCHG	EMS	16 BPS D/L	4O3	4	0	3,175,370:65:0	
64	95	318	08:09:52.466	476AC6A	6TMCHG	ELS	10 BPS TDM	4O3	4	0	3,175,845:39:0	
65	95	318	18:09:00.466	480JL6A	6MROH	28,0900,20,A10	read from EUV/HI28,0900,20,A	4O3	4	0	3,176,437:89:0	
66	**95**	**319**	**01:50:04.400**	**20BJ3A**	**40T1P**	**1**	**PCT Heater 1 ON (primary relay)**	**4O3**	**4**	**0**	**3,176,893:89:0**	
67	**95**	**319**	**01:50:10.400**	**20BJ3B**	**40T1P**	**2**	**PCT Heater 1 ON (primary relay)**	**4O3**	**4**	**0**	**3,176,894:07:0**	
68	95	320	18:50:04.333	20A4A	7SLEW	DIS,POS,0.0	Stator movement	4O3	4	0	3,179,326:86:0	
69	95	320	18:51:04.333	20A4B	**7MODE**	**CRU**	AACS CRUISE MODE	4O3	4	0	3,179,327:85:0	
70	**95**	**320**	**20:26:08.333**	**20L3A**	**40T2R**	**1**	**PCT Heater 2 OFF**	**4O3**	**4**	**0**	**3,179,421:87:0**	
71	**95**	**320**	**20:26:13.666**	**20L3B**	**40T2R**	**2**	**PCT Heater 2 OFF**	**4O3**	**4**	**0**	**3,179,422:04:0**	
72	95	320	20:47:02.333	490AB412A4B	**7MODE**	**INT**	AACS INERTIAL MODE	4O3	4	0	3,179,442:57:0	
73	95	320	20:52:00.333	490AB412A4D	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	4O3	4	0	3,179,447:49:0	
74	95	320	20:56:10.333	490AB412A4E	7VECT	RTH	Inert vect update UTC	4O3	4	0	3,179,451:60:0	
75	95	320	20:56:14.333	490AB412A4F	7TURN	2,RTH	ALERT Thruster	4O3	4	0	3,179,451:66:0	
76	95	320	21:00:02.333	490AB412A406A4A	7VECT		Inert vect update UTC	4O3	4	0	3,179,455:44:0	
77	95	320	21:00:04.333	490AB412A406A4B	7STAR	1,3000,95.710899	Star catalog update	4O3	4	0	3,179,455:47:0	
78	95	320	21:00:06.333	490AB412A406A4C	7STAR	2,184,2.6644,14.	Star catalog update	4O3	4	0	3,179,455:50:0	
79	95	320	21:00:08.333	490AB412A406A4D	7STAR	3,142,193.42	Star catalog update	4O3	4	0	3,179,455:53:0	
80	95	320	21:00:10.333	490AB412A406A4E	7STAR	4,550,121.9977,-	Star catalog update	4O3	4	0	3,179,455:56:0	
81	95	320	21:00:12.333	490AB412A406A4F	7STAR	5,0,0.0,0.0	Star catalog update	4O3	4	0	3,179,455:59:0	
82	95	320	21:00:14.333	490AB412A406A4G	7STAR	6,0,0.0,0.0	Star catalog update	4O3	4	0	3,179,455:62:0	
83	95	320	22:06:13.000	490AB412A4L	**7MODE**	**CRU**	AACS CRUISE MODE	4O3	4	0	3,179,520:85:0	
84	**95**	**320**	**22:07:50.333**	**20Q3A**	**40T1PR**	**1**	**PCT Heater 1 OFF (primary relay)**	**4O3**	**4**	**0**	**3,179,522:49:0**	
85	**95**	**320**	**22:07:55.666**	**20Q3B**	**40T1PR**	**2**	**PCT Heater 1 OFF (primary relay)**	**4O3**	**4**	**0**	**3,179,522:57:0**	
86	**95**	**320**	**22:08:00.333**	**20Q3C**	**37F2P**	**1**	**Shield Flash Heater ON (primary relay)**	**4O3**	**4**	**0**	**3,179,522:64:0**	
87	**95**	**320**	**22:08:05.666**	**20Q3D**	**37F2P**	**2**	**Shield Flash Heater ON (primary relay)**	**4O3**	**4**	**0**	**3,179,522:72:0**	
88	95	320	23:00:00.333	480AN6A	6MROH	7,6960,5,A10	read from AACSA7,6960,5,A10	4O3	4	0	3,179,574:12:0	
89	95	320	23:08:00.333	480AN6B	6MROH	7,6960,5,A10	read from AACSA7,6960,5,A10	4O3	4	0	3,179,582:04:0	
90	95	320	23:16:00.333	480AN6C	6MROH	7,6960,5,A10	read from AACSA7,6960,5,A10	4O3	4	0	3,179,589:87:0	
91	95	320	23:32:00.333	20BM4B	7SLEW	DIS,POS,0.0	Stator movement	4O3	4	0	3,179,605:71:0	
92	95	320	23:33:00.333	20BM4D	**7MODE**	**SPNL**	AACS ALL-SPIN LOW	4O3	4	0	3,179,606:70:0	
93	95	320	23:35:00.333	20BM4E	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	4O3	4	0	3,179,608:68:0	
94	95	320	23:40:30.333	20BM4G	7VENT	0.611,1.333,8	ALERT -- Thruster fire	4O3	4	0	3,179,614:17:0	
95	95	320	23:40:31.000	20BM4H	7VENT	0.611,10.944,8	ALERT -- Thruster fire	4O3	4	0	3,179,614:18:0	
96	95	320	23:40:51.000	20BM4I	7VENT	0.611,1.333,6	ALERT -- Thruster fire	4O3	4	0	3,179,614:48:0	
97	95	320	23:40:51.666	20BM4J	7VENT	0.611,10.944,6	ALERT -- Thruster fire	4O3	4	0	3,179,614:49:0	
98	95	320	23:41:11.666	20BM4K	7VENT	0.611,1.333,4	ALERT -- Thruster fire	4O3	4	0	3,179,614:79:0	
99	95	320	23:41:12.333	20BM4L	7VENT	0.611,0.666,5	ALERT -- Thruster fire	4O3	4	0	3,179,614:80:0	
100	95	320	23:41:22.333	20BM4M	7VENT	0.611,1.333,4	ALERT -- Thruster fire	4O3	4	0	3,179,615:04:0	
101	95	320	23:41:23.000	20BM4N	7VENT	0.611,0.666,5	ALERT -- Thruster fire	4O3	4	0	3,179,615:05:0	
102	95	320	23:41:33.000	20BM4O	7VENT	1.211,1.333,10	ALERT -- Thruster fire	4O3	4	0	3,179,615:20:0	
103	95	320	23:41:33.666	20BM4P	7VENT	1.211,0.666,12	ALERT -- Thruster fire	4O3	4	0	3,179,615:21:0	
104	95	320	23:44:40.333	20BM4S	7VENT	0.611,1.333,7	ALERT -- Thruster fire	4O3	4	0	3,179,618:28:0	
105	95	320	23:44:41.000	20BM4T	7VENT	0.611,10.944,7	ALERT -- Thruster fire	4O3	4	0	3,179,618:29:0	
106	95	320	23:45:01.000	20BM4U	7VENT	0.611,1.333,1	ALERT -- Thruster fire	4O3	4	0	3,179,618:59:0	
107	95	320	23:45:01.666	20BM4V	7VENT	0.611,10.944,1	ALERT -- Thruster fire	4O3	4	0	3,179,618:60:0	
108	95	320	23:45:21.666	20BM4W	7VENT	1.211,1.333,9	ALERT -- Thruster fire	4O3	4	0	3,179,618:90:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
109	95	320	23:45:22.333	20BM4X	7VENT	1.211,0.666,11	ALERT -- Thruster fire	4O3	4	0	3,179,619:00:0	
110	95	320	23:54:59.000	20BM4AA	7SLEW	INIT,NEG,3.5	Stator movement	4O3	4	0	3,179,628:46:0	
111	95	321	09:33:50.266	476AL6A	6TMCHG	EVS	8 BPS D/L	4O3	4	0	3,180,201:00:0	
112	95	321	16:38:47.600	476AO6A	6TMCHG	ELS	10 BPS TDM	4O3	4	0	3,180,621:26:0	
113	95	321	18:05:04.266	20B4A	7SLEW	DIS,POS,0.0	Stator movement	4O3	4	0	3,180,706:56:0	
114	95	321	18:06:04.266	20B4B	**7MODE**	**CRU**	AACS CRUISE MODE	4O3	4	0	3,180,707:55:0	
115	**95**	**322**	**06:39:05.600**	**20R3A**	**37F2PR**	**1**	**Shield Flash Heater OFF (primary relay)**	**4O3**	**4**	**0**	**3,181,452:32:0**	
116	**95**	**322**	**06:39:10.266**	**20R3B**	**37F2PR**	**2**	**Shield Flash Heater OFF (primary relay)**	**4O3**	**4**	**0**	**3,181,452:39:0**	
117	**95**	**322**	**06:39:15.600**	**20R3C**	**40T2**	**1**	**PCT Heater 2 ON**	**4O3**	**4**	**0**	**3,181,452:47:0**	
118	**95**	**322**	**06:39:20.266**	**20R3D**	**40T2**	**2**	**PCT Heater 2 ON**	**4O3**	**4**	**0**	**3,181,452:54:0**	
119	95	322	08:08:52.266	476AR6A	6TMCHG	EVS	8 BPS D/L	4O3	4	0	3,181,541:13:0	
120	95	322	11:08:59.600	476AS6A	6TMCHG	ELS	10 BPS TDM	4O3	4	0	3,181,719:26:0	
121	95	323	14:00:04.200	20BS4A	7SLEW	DIS,POS,0.0	Stator movement	4O3	4	0	3,183,312:60:0	
122	95	323	14:01:04.200	20BS4B	**7MODE**	**CRU**	AACS CRUISE MODE	4O3	4	0	3,183,313:59:0	
123	95	323	15:12:00.200	444AG443A4B	**7MODE**	**INT**	AACS INERTIAL MODE	4O3	4	0	3,183,383:73:0	
124	95	323	15:49:54.200	476DL6A	6TMCHG	EVS	8 BPS D/L	4O3	4	0	3,183,421:26:0	
125	**95**	**323**	**17:37:43.466**	**157JU156A121A4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**4O3**	**4**	**0**	**3,183,527:84:0**	
126	95	323	17:37:55.466	165EC4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4O3	4	0	3,183,528:11:0	
127	95	323	17:37:56.133	165EC4B	7SCAN	NORM,175.860998,	Check S/P Position	4O3	4	0	3,183,528:12:0	
128	**95**	**323**	**17:38:00.000**	**JAN_OPCAL_02-**		**-----START------**		**4O3**	**4**	**0**	**: :**	
129	95	323	17:38:48.800	176EC6A	6TMCHG	NCGIM4	NO CHANGE / 403.2 KBPS IMAGE + 1/8 NIMS RE	4O3	4	0	3,183,529:00:0	
130	**95**	**323**	**17:40:05.466**	**20S3A**	**40T2R**	**1**	**PCT Heater 2 OFF**	**4O3**	**4**	**0**	**3,183,530:24:0**	
131	**95**	**323**	**17:40:10.133**	**20S3B**	**40T2R**	**2**	**PCT Heater 2 OFF**	**4O3**	**4**	**0**	**3,183,530:31:0**	
132	**95**	**323**	**17:41:46.133**	**157JU156A121B4A**	**37IST**	**1,2,1,OFF,1,1,1**	**Chopper ON, Sync, Chopper (Ref)OPCALGain S**	**4R3**	**4**	**0**	**3,183,531:84:0**	
133	**95**	**323**	**17:42:02.133**	**AWG,1.7**	**NIMPBK**	**301JT**	**OPCAL GAIN STATE 4**	**4R3**	**4**	**0**	**: :**	
134	**95**	**323**	**17:42:09.466**	**NIMS2;**	**DESELC**	**300JT**	**OPCAL GAIN STATE 4**	**4R3**	**4**	**0**	**: :**	
135	**95**	**323**	**17:43:00.000**	**JAN_OPCAL_02-**		**-----STOP-------**		**4R3**	**4**	**0**	**: :**	
136	**95**	**323**	**17:43:15.466**	**20T3C**	**40T2**	**1**	**PCT Heater 2 ON**	**4R3**	**4**	**0**	**3,183,533:36:0**	
137	**95**	**323**	**17:43:20.133**	**20T3D**	**40T2**	**2**	**PCT Heater 2 ON**	**4R3**	**4**	**0**	**3,183,533:43:0**	
138	95	323	17:44:05.466	20ED4A	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	4R3	4	0	3,183,534:20:0	
139	95	323	17:56:00.133	476DM6A	**6TMCHG**	**ELS**	10 BPS TDM	4R3	4	0	3,183,546:00:0	
140	95	323	19:10:00.800	444AH443A4A	**7MODE**	**CRU**	AACS CRUISE MODE	4R3	4	0	3,183,619:18:0	
141	95	323	19:35:04.800	20BT4A	**7MODE**	**SPNL**	AACS ALL-SPIN LOW	4R3	4	0	3,183,643:90:0	
142	95	323	19:45:04.800	20BT4B	7SLEW	INIT,NEG,3.5	Stator movement	4R3	4	0	3,183,653:80:0	
143	95	323	23:48:44.133	476AX6A	6TMCHG	EMS	16 BPS D/L	4R3	4	0	3,183,894:78:0	
144	95	324	07:38:54.133	476AY6A	6TMCHG	ELS	10 BPS TDM	4R3	4	0	3,184,359:78:0	
145	95	324	23:43:38.733	476BB6A	6TMCHG	EMS	16 BPS D/L	4R3	4	0	3,185,314:00:0	
146	95	325	07:38:52.066	476BC6A	6TMCHG	ELS	10 BPS TDM	4R3	4	0	3,185,784:00:0	
147	95	327	18:38:54.600	476BP6A	6TMCHG	EMS	16 BPS D/L	4R3	4	0	3,189,285:13:0	
148	95	327	21:38:53.266	476BS6A	6TMCHG	ELS	10 BPS TDM	4R3	4	0	3,189,463:13:0	
149	95	327	23:34:52.600	476BR6A	6TMCHG	EMS	16 BPS D/L	4R3	4	0	3,189,577:78:0	
150	95	328	07:38:54.600	476BQ6A	6TMCHG	ELS	10 BPS TDM	4R3	4	0	3,190,056:52:0	
151	95	328	23:59:58.533	476BV6A	6TMCHG	EMS	16 BPS D/L	4R3	4	0	3,191,026:78:0	
152	95	329	07:38:52.533	476BW6A	6TMCHG	ELS	10 BPS TDM	4R3	4	0	3,191,480:65:0	
153	95	331	00:50:00.400	480JM6A	6MROH	28,0900,20,A10	read from EUV/HI28,0900,20,A	4R3	4	0	3,193,924:63:0	
154	**95**	**331**	**10:00:04.400**	**20BY3A**	**40T1P**	**1**	**PCT Heater 1 ON (primary relay)**	**4R3**	**4**	**0**	**3,194,468:65:0**	
155	**95**	**331**	**10:00:10.400**	**20BY3B**	**40T1P**	**2**	**PCT Heater 1 ON (primary relay)**	**4R3**	**4**	**0**	**3,194,468:74:0**	
156	95	331	17:07:00.400	480JN6A	6MROH	28,0900,20,A10	read from EUV/HI28,0900,20,A	4R3	4	0	3,194,890:87:0	
157	95	331	18:55:04.400	20F4A	7SLEW	DIS,POS,0.0	Stator movement	4R3	4	0	3,194,997:76:0	
158	95	331	18:56:04.400	20F4B	**7MODE**	**CRU**	AACS CRUISE MODE	4R3	4	0	3,194,998:75:0	
159	**95**	**332**	**09:38:04.333**	**20CA3A**	**40T1PR**	**1**	**PCT Heater 1 OFF (primary relay)**	**4R3**	**4**	**0**	**3,195,871:12:0**	
160	**95**	**332**	**09:38:10.333**	**20CA3B**	**40T1PR**	**2**	**PCT Heater 1 OFF (primary relay)**	**4R3**	**4**	**0**	**3,195,871:21:0**	
161	95	333	00:26:59.666	476CL6A	6TMCHG	EMS	16 BPS D/L	4R3	4	0	3,196,750:26:0	
162	95	333	04:23:53.000	476CM6A	6TMCHG	ELS	10 BPS TDM	4R3	4	0	3,196,984:52:0	
163	95	333	18:25:00.933	481AA4A	7VECT		Inert vect update UTC	4R3	4	0	3,197,816:42:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
164	95	333	20:38:52.933	476CR6A	6TMCHG	EMS	16 BPS D/L	4R3	4	0	3,197,948:78:0	
165	95	334	07:38:59.600	476CS6A	6TMCHG	ELS	10 BPS TDM	4R3	4	0	3,198,601:65:0	
166	**95**	**334**	**11:30:15.600**	**20U3A**	**40T2R**	**1**	**PCT Heater 2 OFF**	**4R3**	**4**	**0**	**3,198,830:40:0**	
167	**95**	**334**	**11:30:20.266**	**20U3B**	**40T2R**	**2**	**PCT Heater 2 OFF**	**4R3**	**4**	**0**	**3,198,830:47:0**	
168	**95**	**334**	**11:56:05.600**	**20V3A**	**40T2**	**1**	**PCT Heater 2 ON**	**4R3**	**4**	**0**	**3,198,855:90:0**	
169	**95**	**334**	**11:56:10.266**	**20V3B**	**40T2**	**2**	**PCT Heater 2 ON**	**4R3**	**4**	**0**	**3,198,856:06:0**	
170	95	334	12:01:08.266	165KA4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,198,860:89:0	
171	95	334	12:01:08.933	165KA4B	7SCAN	NORM,270.0,61.3,	Check S/P Position	4R3	4	0	3,198,860:90:0	
172	95	334	12:01:09.600	176KA6A	6TMCHG	NCGLPW	NO CHANGE / 7.68 KBPS LOW RATE SCI-PWS-NIM	4R3	4	0	3,198,861:00:0	
173	95	334	12:10:03.600	20EE4A	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	4R3	4	0	3,198,869:73:0	
174	95	335	01:00:00.200	476CV6A	6TMCHG	EMS	16 BPS D/L	4R3	4	0	3,199,631:26:0	
175	95	335	05:07:52.200	476CW6A	6TMCHG	ELS	10 BPS TDM	4R3	4	0	3,199,876:39:0	
176	95	336	00:59:58.133	476CZ6A	6TMCHG	EMS	16 BPS D/L	4R3	4	0	3,201,055:39:0	
177	95	336	04:52:57.466	476DA6A	6TMCHG	ELS	10 BPS TDM	4R3	4	0	3,201,285:78:0	

			Sequence:	J0EAB		Created: 8/17/95	Begin: 95-337/11:30:00 Finish: 95-342/18:00:00					
Line	**YR**	**DOY**	**SCET - GMT**	**PSID**	**Command**	**Parameters**	**Description**	**GCM**	**GO**	**GS**	**RIM**	**MF I**
1	95	337	11:30:00.066		:00.0	066 DMS: *RE		4R3	4	0	3,203,102:65:0	
2	**95**	**337**	**11:30:00.066**	**20A3FB**	**37F2PR**	**CMD,37F2PR,20A3F**	**Shield Flash Heater OFF (primary relay)**	**4R3**	**4**	**0**	**3,203,102:65:0**	
3	**95**	**337**	**11:30:00.066**	**20A3EW**	**37A**	**CMD,37A,20A3EW,,**	**NIMS Power ON**	**4R3**	**4**	**0**	**3,203,102:65:0**	
4	**95**	**337**	**11:30:00.066**	**20A3FA**	**37F1PR**	**CMD,37F1PR,20A3F**	**Radiator Flash Heater OFF (primary relay)**	**4R3**	**4**	**0**	**3,203,102:65:0**	
5	**95**	**337**	**11:30:00.066**	**20A3FF**	**40T2**	**CMD,40T2,20A3FF,**	**PCT Heater 2 ON**	**4R3**	**4**	**0**	**3,203,102:65:0**	
6	**95**	**337**	**11:30:00.066**	**20A3FE**	**40T1P**	**CMD,40T1P,20A3FE**	**PCT Heater 1 ON (primary relay)**	**4R3**	**4**	**0**	**3,203,102:65:0**	
7	**95**	**337**	**11:30:00.066**	**20A3FD**	**40HRPR**	**CMD,40HRPR,20A3F**	**RCT Heater OFF (primary relay)**	**4R3**	**4**	**0**	**3,203,102:65:0**	
8	**95**	**337**	**11:30:00.066**	**20A3EX**	**37HR**	**CMD,37HR,20A3EX,**	**Replacement Heaters OFF**	**4R3**	**4**	**0**	**3,203,102:65:0**	
9	**95**	**337**	**11:30:00.066**	**20A3EY**	**37C1PR**	**CMD,37C1PR,20A3E**	**Optics Heater 1 OFF (primary relay)**	**4R3**	**4**	**0**	**3,203,102:65:0**	
10	**95**	**337**	**11:30:00.066**	**20A3EZ**	**37C2PR**	**CMD,37C2PR,20A3E**	**Optics Heater 2 OFF (primary relay)**	**4R3**	**4**	**0**	**3,203,102:65:0**	
11	95	337	13:30:00.066	480DQ6A	6MROH	29,0200,18,A10	read from DDS29,0200,18,A	4R3	4	0	3,203,221:36:0	
12	95	337	13:55:20.066	480DQ6B	6MROH	29,0230,17,A10	read from DDS29,0230,17,A	4R3	4	0	3,203,246:41:0	
13	95	337	14:32:00.066	480LE6A	6MROH	35,4700,19,A10	read from MAG35,4700,19,A	4R3	4	0	3,203,282:65:0	
14	95	338	00:36:56.066	476D6A	6TMCHG	EMS	16 BPS D/L	4R3	4	0	3,203,881:00:0	
15	95	338	02:45:00.066	480DR6A	6MROH	29,0200,18,A16	read from DDS29,0200,18,A	4R3	4	0	3,204,007:60:0	
16	95	338	03:00:50.066	480DR6B	6MROH	29,0230,17,A16	read from DDS29,0230,17,A	4R3	4	0	3,204,023:29:0	
17	95	338	03:53:57.400	476E6A	6TMCHG	ELS	10 BPS TDM	4R3	4	0	3,204,075:78:0	
18	95	338	05:00:00.666	480LF6A	6MROH	35,4700,19,A10	read from MAG35,4700,19,A	4R3	4	0	3,204,141:17:0	
19	95	338	05:40:00.666	480AS6A	6MROH	36,202C,0,A10	read from SSI36,202C,0,A1	4R3	4	0	3,204,180:68:0	
20	95	338	05:41:20.666	480AS6B	6MROH	36,202C,0,A10	read from SSI36,202C,0,A1	4R3	4	0	3,204,182:06:0	
21	95	338	05:42:40.666	480AS6C	6MROH	36,202C,0,A10	read from SSI36,202C,0,A1	4R3	4	0	3,204,183:35:0	
22	95	338	07:54:53.333	476F6A	6TMCHG	EVS	8 BPS D/L	4R3	4	0	3,204,314:13:0	
23	95	338	09:08:59.333	476G6A	6TMCHG	ELS	10 BPS TDM	4R3	4	0	3,204,387:39:0	
24	**95**	**338**	**10:07:00.666**	**20K3A**	**40T2R**	**1**	**PCT Heater 2 OFF**	**4R3**	**4**	**0**	**3,204,444:74:0**	
25	**95**	**338**	**10:07:05.333**	**20K3B**	**40T2R**	**2**	**PCT Heater 2 OFF**	**4R3**	**4**	**0**	**3,204,444:81:0**	
26	95	338	16:23:18.666	165KB4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,204,816:89:0	
27	95	338	16:23:19.333	165KB4B	7SCAN	NORM,270.0,61.3,	Check S/P Position	4R3	4	0	3,204,816:90:0	
28	95	338	16:25:21.333	176KB6A	6TMCHG	NCGLPW	NO CHANGE / 7.68 KBPS LOW RATE SCI-PWS-NIM	4R3	4	0	3,204,819:00:0	
29	95	338	16:26:20.666	175KB422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	3,204,819:89:0	
30	95	338	16:26:20.666		:20.6	666 DMS: *RU		4R3	4	0	3,204,819:89:0	
31	95	338	16:26:22.133		:22.1	133 DMS: *RE		4R3	4	0	3,204,820:00:2	
32	95	338	16:27:22.666	175KB422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,204,821:00:0	
33	95	338	16:27:22.666		:22.6	666 DMS: *RU		4R3	4	0	3,204,821:00:0	
34	95	338	16:27:23.933		:23.9	933 DMS: *RE		4R3	4	0	3,204,821:01:9	
35	95	338	16:40:03.333	20EF4A	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	4R3	4	0	3,204,833:49:0	
36	95	338	16:45:00.666	481UA4A	7STAR	1,3000,95.710999	Star catalog update	4R3	4	0	3,204,838:40:0	
37	95	338	16:45:02.666	481UA4B	7STAR	2,184,2.664,14.9	Star catalog update	4R3	4	0	3,204,838:43:0	
38	95	338	16:45:04.666	481UA4C	7STAR	3,225,176.62	Star catalog update	4R3	4	0	3,204,838:46:0	
39	95	338	16:45:06.666	481UA4D	7STAR	4,550,122.00	Star catalog update	4R3	4	0	3,204,838:49:0	
40	95	338	16:45:08.666	481UA4E	7STAR	5,0,0.0,0.0	Star catalog update	4R3	4	0	3,204,838:52:0	
41	95	338	16:45:10.666	481UA4F	7STAR	6,0,0.0,0.0	Star catalog update	4R3	4	0	3,204,838:55:0	
42	**95**	**338**	**19:45:04.666**	**20CL3A**	**37F2PR**	**1**	**Shield Flash Heater OFF (primary relay)**	**4R3**	**4**	**0**	**3,205,016:48:0**	
43	**95**	**338**	**19:45:10.666**	**20CL3B**	**37F2PR**	**2**	**Shield Flash Heater OFF (primary relay)**	**4R3**	**4**	**0**	**3,205,016:57:0**	
44	95	339	04:00:00.666	480DS6A	6MROH	29,0200,18,A10	read from DDS29,0200,18,A	4R3	4	0	3,205,506:02:0	
45	95	339	04:25:20.666	480DS6B	6MROH	29,0230,17,A10	read from DDS29,0230,17,A	4R3	4	0	3,205,531:07:0	
46	95	339	05:15:00.666	480LG6A	6MROH	35,4700,19,A10	read from MAG35,4700,19,A	4R3	4	0	3,205,580:18:0	
47	95	339	07:30:00.666	481I4A	7VECT		Inert vect update UTC	4R3	4	0	3,205,713:65:0	
48	95	339	10:35:57.266	480WC6A	6MROH	25,17F0,7,A10	read from EPD25,17F0,7,A1	4R3	4	0	3,205,897:56:0	
49	95	339	10:46:37.266	480WC6B	6MROH	25,17F0,7,A10	read from EPD25,17F0,7,A1	4R3	4	0	3,205,908:15:0	
50	95	339	12:45:45.266	480PA6A	6MROH	25,1D5E,1,A8	read from EPD25,1D5E,1,A8	4R3	4	0	3,206,025:90:0	
51	95	339	12:49:05.266	480PA6B	6MROH	25,1D5E,1,A8	read from EPD25,1D5E,1,A8	4R3	4	0	3,206,029:26:0	
52	95	339	12:52:25.266	480PA6C	6MROH	25,1D5E,1,A8	read from EPD25,1D5E,1,A8	4R3	4	0	3,206,032:53:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
53	95	339	21:40:37.266	165IA4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,206,554:89:0	
54	95	339	21:40:37.933	165IA4B	7SCAN	NORM,186.355999,	Check S/P Position	4R3	4	0	3,206,554:90:0	
55	95	339	21:44:33.266	118IA	**SMOS**	GS		4R3	4	0	3,206,558:79:0	
56	95	339	21:44:39.933	165IA4C	7VECT		Inert vect update UTC	4R3	4	0	3,206,558:89:0	
57	95	339	21:44:40.600	165IA4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	4R3	4	0	3,206,558:90:0	
58	95	339	21:44:43.266	118IA110A111A4A	7STRP	0.00243,0.0,26,0	Slew =,1.45	4R3	4	0	3,206,559:03:0	
59	95	339	21:45:00.600	118IA110A111A4B	7STRP	0.0,0.00223,0,0,	Slew =,1.48	4R3	4	0	3,206,559:29:0	
60	95	339	21:45:09.266	118IA110A111A4C	7STRP	0.00243,0.0,26,0	Slew =,1.45	4R3	4	0	3,206,559:42:0	
61	95	339	21:45:26.600	118IA110A111A4D	7STRP	0.0,0.00223,0,0,	Slew =,1.48	4R3	4	0	3,206,559:68:0	
62	95	339	21:45:35.266	118IA110A111A4E	7STRP	0.00243,0.0,26,0	Slew =,1.45	4R3	4	0	3,206,559:81:0	
63	95	339	21:45:48.600	175IA422A6A	6DMSC	R403,0	DMS Control Tape runup 403.2kb	4R3	4	0	3,206,560:10:0	
64	95	339	21:45:48.600		:48.6	600 DMS: *RU		4R3	4	0	3,206,560:10:0	
65	95	339	21:45:50.600	176IA6A	6TMCHG	**NCGIM4**	NO CHANGE / 403.2 KBPS IMAGE + 1/8 NIMS RE	4R3	4	0	3,206,560:13:0	
66	95	339	21:45:52.400		:52.4	400 DMS: *RE		4R3	4	0	3,206,560:15:7	
67	95	339	21:45:52.600	118IA11A	**SMOS**	GE		4R3	4	0	3,206,560:16:0	
68	**95**	**339**	**21:45:53.933**	**SWG,1.**	**NIMPBK**	**301CA**	**SSI IO/NIMS (LM)**	**4R3**	**4**	**0**	**: :**	
69	95	339	21:45:58.600	175IA422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,206,560:25:0	
70	95	339	21:45:58.600		:58.6	600 DMS: *RU		4R3	4	0	3,206,560:25:0	
71	**95**	**339**	**21:45:59.933**	**NIMS2;**	**DESELC**	**300CA**	**SSI IO/NIMS(LM)**	**4R3**	**4**	**0**	**: :**	
72	95	339	21:46:01.400		:01.4	400 DMS: *RE		4R3	4	0	3,206,560:29:2	
73	95	340	02:00:00.600	480LH6A	6MROH	35,4700,19,A10	read from MAG35,4700,19,A	4R3	4	0	3,206,811:47:0	
74	95	340	04:40:13.933	165IB4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,206,969:89:0	
75	95	340	04:40:14.600	165IB4B	7SCAN	NORM,187.453999,	Check S/P Position	4R3	4	0	3,206,969:90:0	
76	95	340	04:44:09.933	118IB	**SMOS**	GS		4R3	4	0	3,206,973:79:0	
77	95	340	04:44:16.600	165IB4C	7VECT		Inert vect update UTC	4R3	4	0	3,206,973:89:0	
78	95	340	04:44:17.266	165IB4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	4R3	4	0	3,206,973:90:0	
79	95	340	04:44:19.933	118IB110A111A4A	7STRP	0.00241,0.0,26,0	Slew =,1.45	4R3	4	0	3,206,974:03:0	
80	95	340	04:44:37.266	118IB110A111A4B	7STRP	0.0,0.00221,0,0,	Slew =,1.48	4R3	4	0	3,206,974:29:0	
81	95	340	04:44:45.933	118IB110A111A4C	7STRP	0.00241,0.0,26,0	Slew =,1.45	4R3	4	0	3,206,974:42:0	
82	95	340	04:45:03.266	118IB110A111A4D	7STRP	0.0,0.00221,0,0,	Slew =,1.48	4R3	4	0	3,206,974:68:0	
83	95	340	04:45:11.933	118IB110A111A4E	7STRP	0.00241,0.0,26,0	Slew =,1.45	4R3	4	0	3,206,974:81:0	
84	95	340	04:45:25.266		:25.2	266 DMS: *RU		4R3	4	0	3,206,975:10:0	
85	95	340	04:45:25.266	175IB422A6A	6DMSC	R403,0	DMS Control Tape runup 403.2kb	4R3	4	0	3,206,975:10:0	
86	95	340	04:45:27.266	176IB6A	6TMCHG	**NCGIM4**	NO CHANGE / 403.2 KBPS IMAGE + 1/8 NIMS RE	4R3	4	0	3,206,975:13:0	
87	95	340	04:45:29.066		:29.0	066 DMS: *RE		4R3	4	0	3,206,975:15:7	
88	95	340	04:45:29.266	118IB11A	**SMOS**	GE		4R3	4	0	3,206,975:16:0	
89	**95**	**340**	**04:45:30.600**	**SWG,1.**	**NIMPBK**	**301CB**	**SSI IO/NIMS(LM)**	**4R3**	**4**	**0**	**: :**	
90	95	340	04:45:35.266	175IB422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,206,975:25:0	
91	95	340	04:45:35.266		:35.2	266 DMS: *RU		4R3	4	0	3,206,975:25:0	
92	**95**	**340**	**04:45:36.600**	**NIMS2;**	**DESELC**	**300CB**	**SSI IO/NIMS(LM)**	**4R3**	**4**	**0**	**: :**	
93	95	340	04:45:38.066		:38.0	066 DMS: *RE		4R3	4	0	3,206,975:29:2	
94	95	340	04:50:00.600	480DT6A	6MROH	29,0200,18,A10	read from DDS29,0200,18,A	4R3	4	0	3,206,979:59:0	
95	95	340	05:15:20.600	480DT6B	6MROH	29,0230,17,A10	read from DDS29,0230,17,A	4R3	4	0	3,207,004:64:0	
96	95	340	06:53:08.600	476O6A	6TMCHG	EVS	8 BPS D/L	4R3	4	0	3,207,101:39:0	
97	95	340	13:54:09.933	165QB4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,207,517:75:0	
98	95	340	13:54:10.600	165QB4B	7SCAN	NORM,199.033998,	Check S/P Position	4R3	4	0	3,207,517:76:0	
99	95	340	13:58:09.266	175QB422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	4R3	4	0	3,207,521:70:0	
100	95	340	13:58:09.266		:09.2	266 DMS: *RU		4R3	4	0	3,207,521:70:0	
101	95	340	13:58:14.466		:14.4	466 DMS: *RE		4R3	4	0	3,207,521:77:8	
102	95	340	13:58:14.600	176QB6A	6TMCHG	NCGAI8	NO CHANGE / 806.4 KBPS SSI + 1/8 NIMS RECO	4R3	4	0	3,207,521:78:0	
103	**95**	**340**	**13:58:15.266**	**AWG,1.7**	**NIMPBK**	**301CC**	**SSI PES NIMS(LM)**	**4R3**	**4**	**0**	**: :**	
104	95	340	13:58:23.266	175QB422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,207,522:00:0	
105	95	340	13:58:23.266		:23.2	266 DMS: *RU		4R3	4	0	3,207,522:00:0	
106	**95**	**340**	**13:58:23.933**	**NIMS2;**	**DESELC**	**300CC**	**SSI PES/NIMS(LM)**	**4R3**	**4**	**0**	**: :**	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
107	95	340	13:58:25.933		:25.9	933 DMS: *RE		4R3	4	0	3,207,522:04:0	
108	95	340	14:01:23.933	165KC4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,207,524:89:0	
109	95	340	14:01:24.600	165KC4B	7SCAN	NORM,270.0,61.3,	Check S/P Position	4R3	4	0	3,207,524:90:0	
110	95	340	14:03:26.600	176KC6A	6TMCHG	NCGLPW	NO CHANGE / 7.68 KBPS LOW RATE SCI-PWS-NIM	4R3	4	0	3,207,527:00:0	
111	95	340	14:04:25.933		:25.9	933 DMS: *RU		4R3	4	0	3,207,527:89:0	
112	95	340	14:04:25.933	175KC422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	3,207,527:89:0	
113	95	340	14:04:27.400		:27.4	400 DMS: *RE		4R3	4	0	3,207,528:00:2	
114	95	340	14:05:27.933		:27.9	933 DMS: *RU		4R3	4	0	3,207,529:00:0	
115	95	340	14:05:27.933	175KC422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,207,529:00:0	
116	95	340	14:05:29.200		:29.2	200 DMS: *RE		4R3	4	0	3,207,529:01:9	
117	95	340	18:40:27.866	165IC4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,207,800:89:0	
118	95	340	18:40:28.533	165IC4B	7SCAN	NORM,210.320999,	Check S/P Position	4R3	4	0	3,207,800:90:0	
119	95	340	18:44:23.866	118IC	**SMOS**	GS		4R3	4	0	3,207,804:79:0	
120	95	340	18:44:30.533	165IC4C	7VECT		Inert vect update UTC	4R3	4	0	3,207,804:89:0	
121	95	340	18:44:31.200	165IC4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	4R3	4	0	3,207,804:90:0	
122	95	340	18:44:33.866	118IC110A111A4A	7STRP	0.00271,0.0,26,0	Slew =,1.45	4R3	4	0	3,207,805:03:0	
123	95	340	18:44:51.200	118IC110A111A4B	7STRP	0.0,0.00271,0,0,	Slew =,1.75	4R3	4	0	3,207,805:29:0	
124	95	340	18:44:59.866	118IC110A111A4C	7STRP	0.00271,0.0,26,0	Slew =,1.45	4R3	4	0	3,207,805:42:0	
125	95	340	18:45:17.200	118IC110A111A4D	7STRP	0.0,0.00271,0,0,	Slew =,1.75	4R3	4	0	3,207,805:68:0	
126	95	340	18:45:25.866	118IC110A111A4E	7STRP	0.00271,0.0,26,0	Slew =,1.45	4R3	4	0	3,207,805:81:0	
127	95	340	18:45:39.200	175IC422A6A	6DMSC	R403,0	DMS Control Tape runup 403.2kb	4R3	4	0	3,207,806:10:0	
128	95	340	18:45:39.200		:39.2	200 DMS: *RU		4R3	4	0	3,207,806:10:0	
129	95	340	18:45:41.200	176IC6A	6TMCHG	**NCGIM4**	NO CHANGE / 403.2 KBPS IMAGE + 1/8 NIMS RE	4R3	4	0	3,207,806:13:0	
130	95	340	18:45:43.000		:43.0	000 DMS: *RE		4R3	4	0	3,207,806:15:7	
131	95	340	18:45:43.200	118IC11A	**SMOS**	GE		4R3	4	0	3,207,806:16:0	
132	**95**	**340**	**18:45:44.533**	**SWG,1.**	**NIMPBK**	**301CE**	**SSI/NIMS(LM)**	**4R3**	**4**	**0**	**: :**	
133	95	340	18:45:49.866	175IC422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,207,806:26:0	
134	95	340	18:45:49.866		:49.8	866 DMS: *RU		4R3	4	0	3,207,806:26:0	
135	**95**	**340**	**18:45:51.200**	**NIMS2;**	**DESELC**	**300CE**	**SSI/NIMS(LM)**	**4R3**	**4**	**0**	**: :**	
136	95	340	18:45:52.666		:52.6	666 DMS: *RE		4R3	4	0	3,207,806:30:2	
137	95	340	22:58:17.866	165LA4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,208,055:89:0	
138	95	340	22:58:18.533	165LA4B	7SCAN	NORM,206.761999,	Check S/P Position	4R3	4	0	3,208,055:90:0	
139	95	340	23:00:11.200	117LA	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	3,208,057:77:0	
140	95	340	23:00:19.200		:19.2	200 DMS: *RU		4R3	4	0	3,208,057:89:0	
141	95	340	23:00:19.200	165LA4C	7VECT		Inert vect update UTC	4R3	4	0	3,208,057:89:0	
142	95	340	23:00:19.200	175LA422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	3,208,057:89:0	
143	95	340	23:00:19.866	165LA4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	4R3	4	0	3,208,057:90:0	
144	95	340	23:00:20.533	176LA6A	6TMCHG	NCGLPW	NO CHANGE / 7.68 KBPS LOW RATE SCI-PWS-NIM	4R3	4	0	3,208,058:00:0	
145	95	340	23:00:20.533	117LA105A106A4A	7STRP	-0.021003,-0.001	Slew =,0.19	4R3	4	0	3,208,058:00:0	
146	95	340	23:00:20.666		:20.6	666 DMS: *RE		4R3	4	0	3,208,058:00:2	
147	95	340	23:01:47.866		:47.8	866 DMS: *RU		4R3	4	0	3,208,059:40:0	
148	95	340	23:01:47.866	175LA422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,208,059:40:0	
149	95	340	23:01:49.133		:49.1	133 DMS: *RE		4R3	4	0	3,208,059:41:9	
150	95	340	23:02:17.200	117LA11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	3,208,059:84:0	
151	95	340	23:27:57.200	165LB4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,208,085:28:0	
152	95	340	23:27:57.866	165LB4B	7SCAN	NORM,206.125999,	Check S/P Position	4R3	4	0	3,208,085:29:0	
153	95	340	23:29:50.533	117LB	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	3,208,087:16:0	
154	95	340	23:29:57.200	176LB6A	6TMCHG	NCGLPW	NO CHANGE / 7.68 KBPS LOW RATE SCI-PWS-NIM	4R3	4	0	3,208,087:26:0	
155	95	340	23:29:58.533	175LB422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	3,208,087:28:0	
156	95	340	23:29:58.533	165LB4C	7VECT		Inert vect update UTC	4R3	4	0	3,208,087:28:0	
157	95	340	23:29:58.533		:58.5	533 DMS: *RU		4R3	4	0	3,208,087:28:0	
158	95	340	23:29:59.200	165LB4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	4R3	4	0	3,208,087:29:0	
159	95	340	23:29:59.866	117LB105A106A4A	7STRP	-0.050042,-0.006	Slew =,0.59	4R3	4	0	3,208,087:30:0	
160	95	340	23:30:00.000		:00.0	000 DMS: *RE		4R3	4	0	3,208,087:30:2	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
161	95	340	23:32:01.200	117LB11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	3,208,089:30:0	
162	95	340	23:32:01.200	175LB422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,208,089:30:0	
163	95	340	23:32:01.200		:01.2	200 DMS: *RU		4R3	4	0	3,208,089:30:0	
164	95	340	23:32:02.466		:02.4	466 DMS: *RE		4R3	4	0	3,208,089:31:9	
165	**95**	**340**	**23:32:37.200**	**128JA149A131A4A**	**37IOP**	**5,1**	**Short Map, Grating Start Position =01**	**4R5**	**4**	**1**	**3,208,089:84:0**	
166	**95**	**340**	**23:33:37.866**	**128JA149A131B4A**	**37IST**	**1,2,0,OFF,0,1,0**	**Chopper ON, Sync, Chopper (Ref)Gain State**	**2R5**	**4**	**1**	**3,208,090:84:0**	
167	**95**	**340**	**23:34:38.533**	**128JA149A131C4A**	**37GOF**	**4**		**2R5**	**4**	**1**	**3,208,091:84:0**	
168	95	340	23:34:53.200	165JA4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,208,092:15:0	
169	95	340	23:34:53.866	165JA4B	7SCAN	NORM,206.063,-7.	Check S/P Position	2R5	4	1	3,208,092:16:0	
170	**95**	**340**	**23:34:54.000**	**JAJNPES2D201-**		**-----START------**		**2R5**	**4**	**1**	**: :**	
171	95	340	23:38:45.200	117JA	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,208,095:90:0	
172	95	340	23:38:53.200	165JA4C	7VECT		Inert vect update UTC	2R5	4	1	3,208,096:11:0	
173	95	340	23:38:53.866	165JA4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	2R5	4	1	3,208,096:12:0	
174	95	340	23:38:54.533	117JA105A106A4A	7STRP	-0.016912,0.0,0,	Slew =0,0.1	2R5	4	1	3,208,096:13:0	
175	95	340	23:39:29.200	176JO6A	6TMCHG	**NCGMPW**	NO CHANGE / 28.8 KBPS PWS + NIMS RECORD	2R5	4	1	3,208,096:65:0	
176	95	340	23:39:32.533		:32.5	533 DMS: *RU		2R5	4	1	3,208,096:70:0	
177	95	340	23:39:32.533	175JO422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	2R5	4	1	3,208,096:70:0	
178	95	340	23:39:36.533		:36.5	533 DMS: *RE		2R5	4	1	3,208,096:76:0	
179	**95**	**340**	**23:39:37.866**	**AWG,1.7**	**NIMPBK**	**301JA**	**PROBE ENTRY SITE (SM)**	**2R5**	**4**	**1**	**: :**	
180	95	340	23:41:09.866	175JO422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,208,098:34:0	
181	95	340	23:41:09.866		:09.8	866 DMS: *RU		2R5	4	1	3,208,098:34:0	
182	95	340	23:41:11.066		:11.0	066 DMS: *RE		2R5	4	1	3,208,098:35:8	
183	**95**	**340**	**23:41:11.200**	**NIMS2;**	**DESELC**	**300JA**	**PROBE ENTRY SITE**	**2R5**	**4**	**1**	**: :**	
184	95	340	23:41:47.866	176KD6A	6TMCHG	NCGLPW	NO CHANGE / 7.68 KBPS LOW RATE SCI-PWS-NIM	2R5	4	1	3,208,099:00:0	
185	95	340	23:41:53.200	117JA11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,208,099:08:0	
186	**95**	**340**	**23:41:54.000**	**JAJNPES2D201-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**	
187	95	340	23:41:59.200	116KD4A	7STRP	0.00781,-0.00006	Slew =0,1.0	2R5	4	1	3,208,099:17:0	
188	95	340	23:42:47.200		:47.2	200 DMS: *RU		2R5	4	1	3,208,099:89:0	
189	95	340	23:42:47.200	175KD422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,208,099:89:0	
190	95	340	23:42:48.666		:48.6	666 DMS: *RE		2R5	4	1	3,208,100:00:2	
191	95	340	23:48:52.533	175KD422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,208,106:00:0	
192	95	340	23:48:52.533		:52.5	533 DMS: *RU		2R5	4	1	3,208,106:00:0	
193	95	340	23:48:53.800		:53.8	800 DMS: *RE		2R5	4	1	3,208,106:01:9	
194	95	340	23:49:51.866	165QC4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,208,106:89:0	
195	95	340	23:49:52.533	165QC4B	7SCAN	NORM,205.376999,	Check S/P Position	2R5	4	1	3,208,106:90:0	
196	95	340	23:53:52.533	175QC422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	2R5	4	1	3,208,110:86:0	
197	95	340	23:53:52.533		:52.5	533 DMS: *RU		2R5	4	1	3,208,110:86:0	
198	95	340	23:53:55.866	176QC6A	6TMCHG	**NCGIM8**	NO CHANGE / 806.4 KBPS IMAGE + 1/8 NIMS RE	2R5	4	1	3,208,111:00:0	
199	95	340	23:53:57.733		:57.7	733 DMS: *RE		2R5	4	1	3,208,111:02:8	
200	**95**	**340**	**23:53:59.200**	**AWG,1.**	**NIMPBK**	**301CF**	**SSI PES/ NIMS(SM)**	**2R5**	**4**	**1**	**: :**	
201	95	340	23:54:21.866	175QC422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,208,111:39:0	
202	95	340	23:54:21.866		:21.8	866 DMS: *RU		2R5	4	1	3,208,111:39:0	
203	**95**	**340**	**23:54:23.200**	**NIMS2;**	**DESELC**	**300CF**	**SSI PES/NIMS(SM)**	**2R5**	**4**	**1**	**: :**	
204	95	340	23:54:24.533		:24.5	533 DMS: *RE		2R5	4	1	3,208,111:43:0	
205	**95**	**340**	**23:59:45.866**	**AWG,1.**	**NIMPBK**	**301CG**	**SSI JO/NIMS(SM)**	**2R5**	**4**	**1**	**: :**	
206	**95**	**340**	**23:59:47.200**	**NIMS2;**	**DESELC**	**300CG**	**SSI JO/NIMS(SM)**	**2R5**	**4**	**1**	**: :**	
207	95	341	00:18:10.533	165ID4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,208,134:89:0	
208	95	341	00:18:11.200	165ID4B	7SCAN	NORM,215.529999,	Check S/P Position	2R5	4	1	3,208,134:90:0	
209	95	341	00:22:06.533	118ID	**SMOS**	GS		2R5	4	1	3,208,138:79:0	
210	95	341	00:22:13.200	165ID4C	7VECT		Inert vect update UTC	2R5	4	1	3,208,138:89:0	
211	95	341	00:22:13.866	165ID4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	2R5	4	1	3,208,138:90:0	
212	95	341	00:22:16.533	118ID110A111A4A	7STRP	-0.00087,0.0,26,	Slew =,0.51	2R5	4	1	3,208,139:03:0	
213	95	341	00:22:55.866		:55.8	866 DMS: *RU		2R5	4	1	3,208,139:62:0	
214	95	341	00:22:55.866	175ID422A6A	6DMSC	R403,0	DMS Control Tape runup 403.2kb	2R5	4	1	3,208,139:62:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
215	95	341	00:22:57.866	176ID6A	6TMCHG	**NCGIM4**	NO CHANGE / 403.2 KBPS IMAGE + 1/8 NIMS RE	2R5	4	1	3,208,139:65:0	
216	95	341	00:22:59.666		:59.6	666 DMS: *RE		2R5	4	1	3,208,139:67:7	
217	95	341	00:22:59.866	118ID11A	**SMOS**	GE		2R5	4	1	3,208,139:68:0	
218	95	341	00:23:01.200	175ID422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,208,139:70:0	
219	95	341	00:23:01.200		:01.2	200 DMS: *RU		2R5	4	1	3,208,139:70:0	
220	95	341	00:23:04.000		:04.0	000 DMS: *RE		2R5	4	1	3,208,139:74:2	
221	95	341	00:38:58.533	165KE4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,208,155:50:0	
222	95	341	00:38:59.200	165KE4B	7SCAN	NORM,205.007,-7.	Check S/P Position	2R5	4	1	3,208,155:51:0	
223	95	341	00:43:28.533	176KE6A	6TMCHG	NCGLPW	NO CHANGE / 7.68 KBPS LOW RATE SCI-PWS-NIM	2R5	4	1	3,208,160:00:0	
224	95	341	00:44:01.866	165KE4C	7VECT		Inert vect update UTC	2R5	4	1	3,208,160:50:0	
225	95	341	00:44:02.533	165KE4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	2R5	4	1	3,208,160:51:0	
226	95	341	00:44:27.866	175KE422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,208,160:89:0	
227	95	341	00:44:27.866		:27.8	866 DMS: *RU		2R5	4	1	3,208,160:89:0	
228	95	341	00:44:29.333		:29.3	333 DMS: *RE		2R5	4	1	3,208,161:00:2	
229	95	341	00:50:33.200	175KE422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,208,167:00:0	
230	95	341	00:50:33.200		:33.2	200 DMS: *RU		2R5	4	1	3,208,167:00:0	
231	95	341	00:50:34.466		:34.4	466 DMS: *RE		2R5	4	1	3,208,167:01:9	
232	95	341	00:57:27.866	165QD4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,208,173:76:0	
233	95	341	00:57:28.533	165QD4B	7SCAN	NORM,205.012999,	Check S/P Position	2R5	4	1	3,208,173:77:0	
234	95	341	01:01:28.533		:28.5	533 DMS: *RU		2R5	4	1	3,208,177:73:0	
235	95	341	01:01:28.533	175QD422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	2R5	4	1	3,208,177:73:0	
236	95	341	01:01:31.866	176QD6A	6TMCHG	**NCGIM8**	NO CHANGE / 806.4 KBPS IMAGE + 1/8 NIMS RE	2R5	4	1	3,208,177:78:0	
237	95	341	01:01:33.733		:33.7	733 DMS: *RE		2R5	4	1	3,208,177:80:8	
238	**95**	**341**	**01:01:35.200**	**AWG,1.**	**NIMPBK**	**301CH**	**SSI PES/NIMS(SM)**	**2R5**	**4**	**1**	**: :**	
239	95	341	01:01:57.866		:57.8	866 DMS: *RU		2R5	4	1	3,208,178:26:0	
240	95	341	01:01:57.866	175QD422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,208,178:26:0	
241	**95**	**341**	**01:01:59.200**	**NIMS2;**	**DESELC**	**300CH**	**SSI PES/NIMS(SM)**	**2R5**	**4**	**1**	**: :**	
242	95	341	01:02:00.533		:00.5	533 DMS: *RE		2R5	4	1	3,208,178:30:0	
243	95	341	01:02:29.200	165JB4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,208,178:73:0	
244	95	341	01:02:29.866	165JB4B	7SCAN	NORM,205.400999,	Check S/P Position	2R5	4	1	3,208,178:74:0	
245	**95**	**341**	**01:02:31.000**	**JAJNPES2D301-**		**-----START------**		**2R5**	**4**	**1**	**: :**	
246	**95**	**341**	**01:03:37.200**	**128JB149A131A4A**	**37IOP**	**5,1**	**Short Map, Grating Start Position =01**	**2R5**	**4**	**1**	**3,208,179:84:0**	
247	95	341	01:05:21.200	117JB	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,208,181:58:0	
248	95	341	01:05:29.200	165JB4C	7VECT		Inert vect update UTC	2R5	4	1	3,208,181:70:0	
249	95	341	01:05:29.866	165JB4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	2R5	4	1	3,208,181:71:0	
250	95	341	01:05:30.533	117JB105A106A4A	7STRP	-0.0107,0.0,0,0,	Slew =0,0.1	2R5	4	1	3,208,181:72:0	
251	95	341	01:05:47.866	175JP422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	2R5	4	1	3,208,182:07:0	
252	95	341	01:05:47.866		:47.8	866 DMS: *RU		2R5	4	1	3,208,182:07:0	
253	95	341	01:05:51.866		:51.8	866 DMS: *RE		2R5	4	1	3,208,182:13:0	
254	95	341	01:05:51.866	176JP6A	6TMCHG	**NCGMPW**	NO CHANGE / 28.8 KBPS PWS + NIMS RECORD	2R5	4	1	3,208,182:13:0	
255	**95**	**341**	**01:05:53.200**	**AWG,1.**	**NIMPBK**	**301JB**	**PROBE ENTRY SITE (SM)**	**2R5**	**4**	**1**	**: :**	
256	95	341	01:07:24.533	117JB11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,208,183:61:0	
257	95	341	01:07:25.200		:25.2	200 DMS: *RU		2R5	4	1	3,208,183:62:0	
258	95	341	01:07:25.200	175JP422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,208,183:62:0	
259	95	341	01:07:26.400		:26.4	400 DMS: *RE		2R5	4	1	3,208,183:63:8	
260	**95**	**341**	**01:07:26.533**	**NIMS2;**	**DESELC**	**300JB**	**PES2D301**	**2R5**	**4**	**1**	**: :**	
261	**95**	**341**	**01:07:27.000**	**JAJNPES2D301-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**	
262	95	341	05:59:55.866	165KF4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,208,472:89:0	
263	95	341	05:59:56.533	165KF4B	7SCAN	NORM,270.0,61.3,	Check S/P Position	2R5	4	1	3,208,472:90:0	
264	95	341	06:01:58.533	176KF6A	6TMCHG	NCGLPW	NO CHANGE / 7.68 KBPS LOW RATE SCI-PWS-NIM	2R5	4	1	3,208,475:00:0	
265	95	341	06:02:57.866	175KF422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,208,475:89:0	
266	95	341	06:02:57.866		:57.8	866 DMS: *RU		2R5	4	1	3,208,475:89:0	
267	95	341	06:02:59.333		:59.3	333 DMS: *RE		2R5	4	1	3,208,476:00:2	
268	95	341	06:03:59.866	175KF422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,208,477:00:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
269	95	341	06:03:59.866		:59.8	866 DMS: *RU		2R5	4	1	3,208,477:00:0
270	95	341	06:04:01.133		:01.1	133 DMS: *RE		2R5	4	1	3,208,477:01:9
271	95	341	06:05:59.866	165JC4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,208,478:89:0
272	**95**	**341**	**06:06:00.000**	**JAJNPES1N 01-**		**-----START------**		**2R5**	**4**	**1**	**: :**
273	95	341	06:06:00.533	165JC4B	7SCAN	NORM,220.341,-13	Check S/P Position	2R5	4	1	3,208,478:90:0
274	**95**	**341**	**06:07:57.866**	**128JC149A131A4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**3,208,480:84:0**
275	95	341	07:40:20.533	165JC4C	7VECT		Inert vect update UTC	2R3	4	0	3,208,572:26:0
276	95	341	07:40:21.200	165JC4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	2R3	4	0	3,208,572:27:0
277	95	341	07:40:45.866	117JC	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	3,208,572:64:0
278	95	341	07:40:55.200	117JC105A106A4A	7STRP	-0.0104,0.0,0,0,	Slew =,0.03	2R3	4	0	3,208,572:78:0
279	95	341	07:41:03.866		:03.8	866 DMS: *RU		2R3	4	0	3,208,573:00:0
280	95	341	07:41:03.866	175JN422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	2R3	4	0	3,208,573:00:0
281	95	341	07:41:03.866	176JN6A	6TMCHG	**NCGMPW**	NO CHANGE / 28.8 KBPS PWS + NIMS RECORD	2R3	4	0	3,208,573:00:0
282	95	341	07:41:07.866		:07.8	866 DMS: *RE		2R3	4	0	3,208,573:06:0
283	**95**	**341**	**07:41:09.200**	**AWG,1.**	**NIMPBK**	**301JC**	**PROBE ENTRY SITE (LM)**	**2R3**	**4**	**0**	**: :**
284	95	341	07:46:55.200		:55.2	200 DMS: *RU		2R3	4	0	3,208,578:72:0
285	95	341	07:46:55.200	175JN422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,208,578:72:0
286	95	341	07:46:56.400		:56.4	400 DMS: *RE		2R3	4	0	3,208,578:73:8
287	**95**	**341**	**07:46:56.533**	**NIMS2;**	**DESELC**	**300JC**	**PES1N01**	**2R3**	**4**	**0**	**: :**
288	95	341	07:47:02.533	117JC11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	3,208,578:83:0
289	**95**	**341**	**07:47:03.000**	**JAJNPES1N 01-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**
290	95	341	08:43:11.866	165JD4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,208,634:41:0
291	95	341	08:43:12.533	165JD4B	7SCAN	NORM,220.535,-13	Check S/P Position	2R3	4	0	3,208,634:42:0
292	**95**	**341**	**08:43:13.000**	**JAJNPES1D101-**		**-----START------**		**2R3**	**4**	**0**	**: :**
293	**95**	**341**	**08:45:41.866**	**128JD149A131A4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**3,208,636:84:0**
294	95	341	08:47:06.533	117JD	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	3,208,638:29:0
295	95	341	08:47:13.200		:13.2	200 DMS: *RU		2R3	4	0	3,208,638:39:0
296	95	341	08:47:13.200	176JK6A	6TMCHG	**NCGMPW**	NO CHANGE / 28.8 KBPS PWS + NIMS RECORD	2R3	4	0	3,208,638:39:0
297	95	341	08:47:13.200	175JK422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	2R3	4	0	3,208,638:39:0
298	95	341	08:47:14.533	165JD4C	7VECT		Inert vect update UTC	2R3	4	0	3,208,638:41:0
299	95	341	08:47:15.200	165JD4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	2R3	4	0	3,208,638:42:0
300	95	341	08:47:15.866	117JD105A106A4A	7STRP	-0.01,0.0,0,0,0,	Slew =,0.03	2R3	4	0	3,208,638:43:0
301	95	341	08:47:17.200		:17.2	200 DMS: *RE		2R3	4	0	3,208,638:45:0
302	**95**	**341**	**08:47:18.533**	**AWG,1.**	**NIMPBK**	**301JD**	**PROBE ENTRY SITE (LM)**	**2R3**	**4**	**0**	**: :**
303	95	341	08:53:04.533		:04.5	533 DMS: *RU		2R3	4	0	3,208,644:20:0
304	95	341	08:53:04.533	175JK422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,208,644:20:0
305	95	341	08:53:05.733		:05.7	733 DMS: *RE		2R3	4	0	3,208,644:21:8
306	**95**	**341**	**08:53:05.866**	**NIMS2;**	**DESELC**	**300JD**	**PES1D101**	**2R3**	**4**	**0**	**: :**
307	95	341	08:53:11.866	117JD11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	3,208,644:31:0
308	**95**	**341**	**08:53:13.000**	**JAJNPES1D101-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**
309	95	341	09:30:14.533	165IE4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,208,680:89:0
310	95	341	09:30:15.200	165IE4B	7SCAN	NORM,243.448,-17	Check S/P Position	2R3	4	0	3,208,680:90:0
311	95	341	09:34:16.533		:16.5	533 DMS: *RU		2R3	4	0	3,208,684:88:0
312	95	341	09:34:16.533	175IE422A6A	6DMSC	R403,0	DMS Control Tape runup 403.2kb	2R3	4	0	3,208,684:88:0
313	95	341	09:34:17.200	165IE4C	7VECT		Inert vect update UTC	2R3	4	0	3,208,684:89:0
314	95	341	09:34:17.866	165IE4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	2R3	4	0	3,208,684:90:0
315	95	341	09:34:18.533	176IE6A	6TMCHG	**NCGIM4**	NO CHANGE / 403.2 KBPS IMAGE + 1/8 NIMS RE	2R3	4	0	3,208,685:00:0
316	95	341	09:34:20.333		:20.3	333 DMS: *RE		2R3	4	0	3,208,685:02:7
317	**95**	**341**	**09:34:21.866**	**SWG,1.**	**NIMPBK**	**301CJ**	**SSI JOI/NIMS(LM)**	**2R3**	**4**	**0**	**: :**
318	95	341	09:34:44.533		:44.5	533 DMS: *RU		2R3	4	0	3,208,685:39:0
319	95	341	09:34:44.533	175IE422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,208,685:39:0
320	**95**	**341**	**09:34:45.866**	**NIMS2;**	**DESELC**	**300CJ**	**SSI JOI/NIMS(LM)**	**2R3**	**4**	**0**	**: :**
321	95	341	09:34:47.333		:47.3	333 DMS: *RE		2R3	4	0	3,208,685:43:2
322	95	341	09:54:15.200	165JE4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,208,704:66:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
323	95	341	09:54:15.866	165JE4B	7SCAN	NORM,219.865999,	Check S/P Position	2R3	4	0	3,208,704:67:0	
324	**95**	**341**	**09:54:16.000**	**JAJNPES1D201-**		**-----START------**		**2R3**	**4**	**0**	**: :**	
325	**95**	**341**	**09:56:28.533**	**128JE149A131A4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**3,208,706:84:0**	
326	95	341	09:58:07.200	117JE	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	3,208,708:50:0	
327	95	341	09:58:15.200	165JE4C	7VECT		Inert vect update UTC	2R3	4	0	3,208,708:62:0	
328	95	341	09:58:15.866	165JE4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	2R3	4	0	3,208,708:63:0	
329	95	341	09:58:16.533	117JE105A106A4A	7STRP	-0.011931,0.0,0,	Slew =,0.03	2R3	4	0	3,208,708:64:0	
330	95	341	09:58:17.200	176JL6A	6TMCHG	**NCGMPW**	NO CHANGE / 28.8 KBPS PWS + NIMS RECORD	2R3	4	0	3,208,708:65:0	
331	95	341	09:58:17.200	175JL422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	2R3	4	0	3,208,708:65:0	
332	95	341	09:58:17.200		:17.2	200 DMS: *RU		2R3	4	0	3,208,708:65:0	
333	95	341	09:58:21.200		:21.2	200 DMS: *RE		2R3	4	0	3,208,708:71:0	
334	**95**	**341**	**09:58:22.533**	**AWG,1.**	**NIMPBK**	**301JE**	**PROBE ENTRY SITE (LM)**	**2R3**	**4**	**0**	**: :**	
335	95	341	10:05:15.200	117JE11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	3,208,715:55:0	
336	95	341	10:05:19.200	175JL422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,208,715:61:0	
337	95	341	10:05:19.200		:19.2	200 DMS: *RU		2R3	4	0	3,208,715:61:0	
338	95	341	10:05:20.400		:20.4	400 DMS: *RE		2R3	4	0	3,208,715:62:8	
339	**95**	**341**	**10:05:20.533**	**NIMS2;**	**DESELC**	**300JE**	**PES1D201**	**2R3**	**4**	**0**	**: :**	
340	**95**	**341**	**10:05:26.000**	**JAJNPES1D201-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**	
341	95	341	10:05:59.200	165LC4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,208,716:30:0	
342	95	341	10:05:59.866	165LC4B	7SCAN	NORM,220.810999,	Check S/P Position	2R3	4	0	3,208,716:31:0	
343	95	341	10:07:52.533	117LC	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	3,208,718:18:0	
344	95	341	10:07:57.866	176LC6A	6TMCHG	NCGLPW	NO CHANGE / 7.68 KBPS LOW RATE SCI-PWS-NIM	2R3	4	0	3,208,718:26:0	
345	95	341	10:08:00.533		:00.5	533 DMS: *RU		2R3	4	0	3,208,718:30:0	
346	95	341	10:08:00.533	175LC422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	3,208,718:30:0	
347	95	341	10:08:00.533	165LC4C	7VECT		Inert vect update UTC	2R3	4	0	3,208,718:30:0	
348	95	341	10:08:01.200	165LC4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	2R3	4	0	3,208,718:31:0	
349	95	341	10:08:01.866	117LC105A106A4A	7STRP	-0.042526,-0.006	Slew =,0.59	2R3	4	0	3,208,718:32:0	
350	95	341	10:08:02.000		:02.0	000 DMS: *RE		2R3	4	0	3,208,718:32:2	
351	95	341	10:09:22.533	117LC105A106A4B	7STRP	0.042626,0.0052,	Slew =11.85	2R3	4	0	3,208,719:62:0	
352	95	341	10:09:32.533	117LC105A106A4C	7STRP	-0.042526,-0.006	Slew =,0.59	2R3	4	0	3,208,719:77:0	
353	95	341	10:10:53.200	117LC105A106A4D	7STRP	0.042626,0.0052,	Slew =11.85	2R3	4	0	3,208,721:16:0	
354	95	341	10:11:03.200	117LC105A106A4E	7STRP	-0.042526,-0.006	Slew =,0.59	2R3	4	0	3,208,721:31:0	
355	95	341	10:12:23.866	117LC105A106A4F	7STRP	0.042626,0.0052,	Slew =11.85	2R3	4	0	3,208,722:61:0	
356	95	341	10:12:33.866	117LC105A106A4G	7STRP	-0.042526,-0.006	Slew =,0.59	2R3	4	0	3,208,722:76:0	
357	95	341	10:13:17.866		:17.8	866 DMS: *RU		2R3	4	0	3,208,723:51:0	
358	95	341	10:13:17.866	175LC422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,208,723:51:0	
359	95	341	10:13:19.133		:19.1	133 DMS: *RE		2R3	4	0	3,208,723:52:9	
360	95	341	10:13:54.533	117LC11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	3,208,724:15:0	
361	95	341	10:14:59.200	165LD4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,208,725:21:0	
362	95	341	10:14:59.866	165LD4B	7SCAN	NORM,219.741999,	Check S/P Position	2R3	4	0	3,208,725:22:0	
363	95	341	10:15:19.866	176LD6A	6TMCHG	NCGLPW	NO CHANGE / 7.68 KBPS LOW RATE SCI-PWS-NIM	2R3	4	0	3,208,725:52:0	
364	95	341	10:15:25.200		:25.2	200 DMS: *RU		2R3	4	0	3,208,725:60:0	
365	95	341	10:15:25.200	175LD422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	3,208,725:60:0	
366	95	341	10:15:25.200	165LD4C	7VECT		Inert vect update UTC	2R3	4	0	3,208,725:60:0	
367	95	341	10:15:25.866	165LD4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	2R3	4	0	3,208,725:61:0	
368	95	341	10:15:26.666		:26.6	666 DMS: *RE		2R3	4	0	3,208,725:62:2	
369	95	341	10:15:56.533		:56.5	533 DMS: *RU		2R3	4	0	3,208,726:16:0	
370	95	341	10:15:56.533	175LD422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,208,726:16:0	
371	95	341	10:15:57.800		:57.8	800 DMS: *RE		2R3	4	0	3,208,726:17:9	
372	**95**	**341**	**10:45:08.533**	**AWG,1.**	**NIMPBK**	**301CK**	**SSI JO/NIMS(LM)**	**2R3**	**4**	**0**	**: :**	
373	**95**	**341**	**10:45:09.866**	**NIMS2;**	**DESELC**	**300CK**	**SSI JO/NIMS(LM)**	**2R3**	**4**	**0**	**: :**	
374	95	341	10:49:06.533	165IF4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,208,758:89:0	
375	95	341	10:49:07.200	165IF4B	7SCAN	NORM,218.331999,	Check S/P Position	2R3	4	0	3,208,758:90:0	
376	95	341	10:53:08.533		:08.5	533 DMS: *RU		2R3	4	0	3,208,762:88:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
377	95	341	10:53:08.533	175IF422A6A	6DMSC	R403,0	DMS Control Tape runup 403.2kb	2R3	4	0	3,208,762:88:0
378	95	341	10:53:09.200	165IF4C	7VECT		Inert vect update UTC	2R3	4	0	3,208,762:89:0
379	95	341	10:53:09.866	165IF4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	2R3	4	0	3,208,762:90:0
380	95	341	10:53:10.533	176IF6A	6TMCHG	**NCGIM4**	NO CHANGE / 403.2 KBPS IMAGE + 1/8 NIMS RE	2R3	4	0	3,208,763:00:0
381	95	341	10:53:12.333		:12.3	333 DMS: *RE		2R3	4	0	3,208,763:02:7
382	95	341	10:53:13.866		:13.8	866 DMS: *RU		2R3	4	0	3,208,763:05:0
383	95	341	10:53:13.866	175IF422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,208,763:05:0
384	95	341	10:53:16.666		:16.6	666 DMS: *RE		2R3	4	0	3,208,763:09:2
385	95	341	11:10:59.866	165LE4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,208,780:57:0
386	95	341	11:11:00.533	165LE4B	7SCAN	NORM,223.556,-17	Check S/P Position	2R3	4	0	3,208,780:58:0
387	95	341	11:11:22.533	176LE6A	6TMCHG	NCGLPW	NO CHANGE / 7.68 KBPS LOW RATE SCI-PWS-NIM	2R3	4	0	3,208,781:00:0
388	95	341	11:11:25.866	175LE422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	3,208,781:05:0
389	95	341	11:11:25.866		:25.8	866 DMS: *RU		2R3	4	0	3,208,781:05:0
390	95	341	11:11:25.866	165LE4C	7VECT		Inert vect update UTC	2R3	4	0	3,208,781:05:0
391	95	341	11:11:26.533	165LE4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	2R3	4	0	3,208,781:06:0
392	95	341	11:11:27.333		:27.3	333 DMS: *RE		2R3	4	0	3,208,781:07:2
393	95	341	11:11:57.200		:57.2	200 DMS: *RU		2R3	4	0	3,208,781:52:0
394	95	341	11:11:57.200	175LE422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,208,781:52:0
395	95	341	11:11:58.466		:58.4	466 DMS: *RE		2R3	4	0	3,208,781:53:9
396	95	341	11:18:01.866	165JF4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,208,787:53:0
397	95	341	11:18:02.533	165JF4B	7SCAN	NORM,220.372,-13	Check S/P Position	2R3	4	0	3,208,787:54:0
398	**95**	**341**	**11:18:03.000**	**JAJNPES1D301-**		**-----START------**		**2R3**	**4**	**0**	**: :**
399	**95**	**341**	**11:20:23.866**	**128JF149A131A4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**3,208,789:84:0**
400	95	341	11:21:53.866	117JF	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	3,208,791:37:0
401	95	341	11:22:01.866	165JF4C	7VECT		Inert vect update UTC	2R3	4	0	3,208,791:49:0
402	95	341	11:22:02.533	165JF4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	2R3	4	0	3,208,791:50:0
403	95	341	11:22:03.200	117JF105A106A4A	7STRP	-0.01019,0.0,0,0	Slew =,0.03	2R3	4	0	3,208,791:51:0
404	95	341	11:22:03.866		:03.8	866 DMS: *RU		2R3	4	0	3,208,791:52:0
405	95	341	11:22:03.866	176JM6A	6TMCHG	**NCGMPW**	NO CHANGE / 28.8 KBPS PWS + NIMS RECORD	2R3	4	0	3,208,791:52:0
406	95	341	11:22:03.866	175JM422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	2R3	4	0	3,208,791:52:0
407	95	341	11:22:07.866		:07.8	866 DMS: *RE		2R3	4	0	3,208,791:58:0
408	**95**	**341**	**11:22:09.200**	**AWG,1.**	**NIMPBK**	**301JF**	**PROBE ENTRY SITE (LM)**	**2R3**	**4**	**0**	**: :**
409	95	341	11:27:55.200		:55.2	200 DMS: *RU		2R3	4	0	3,208,797:33:0
410	95	341	11:27:55.200	175JM422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,208,797:33:0
411	95	341	11:27:56.400		:56.4	400 DMS: *RE		2R3	4	0	3,208,797:34:8
412	**95**	**341**	**11:27:56.533**	**NIMS2;**	**DESELC**	**300JF**	**PES1D301**	**2R3**	**4**	**0**	**: :**
413	95	341	11:28:01.200	117JF11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	3,208,797:42:0
414	**95**	**341**	**11:28:03.000**	**JAJNPES1D301-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**
415	95	341	11:55:04.533	20J6A	6MROH	7,6B70,0,A8	read from AACSA7,6B70,0,A8	2R3	4	0	3,208,824:20:0
416	95	341	11:56:44.533	20J6B	6MROH	7,6B70,0,A8	read from AACSA7,6B70,0,A8	2R3	4	0	3,208,825:79:0
417	95	341	11:58:24.533	20J6C	6MROH	7,6B70,0,A8	read from AACSA7,6B70,0,A8	2R3	4	0	3,208,827:47:0
418	95	341	12:00:04.533	20J6D	6MROH	8,6B70,0,B8	read from AACSB8,6B70,0,B8	2R3	4	0	3,208,829:15:0
419	95	341	12:01:44.533	20J6E	6MROH	8,6B70,0,B8	read from AACSB8,6B70,0,B8	2R3	4	0	3,208,830:74:0
420	95	341	12:03:24.533	20J6F	6MROH	8,6B70,0,B8	read from AACSB8,6B70,0,B8	2R3	4	0	3,208,832:42:0
421	95	341	12:20:06.533	165KG4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,208,848:89:0
422	95	341	12:20:07.200	165KG4B	7SCAN	NORM,270.0,61.3,	Check S/P Position	2R3	4	0	3,208,848:90:0
423	95	341	12:40:09.866		:09.8	866 DMS: RE		2R3	4	0	3,208,868:74:0
424	95	341	12:40:09.866		:09.8	866 DMS: *RE		2R3	4	0	3,208,868:74:0
425	95	341	12:49:25.866	165IG4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,208,877:89:0
426	95	341	12:49:26.533	165IG4B	7SCAN	NORM,216.082998,	Check S/P Position	2R3	4	0	3,208,877:90:0
427	95	341	12:51:19.866	117IG	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	3,208,879:78:0
428	95	341	12:51:25.866		:25.8	866 DMS: *RU		2R3	4	0	3,208,879:87:0
429	95	341	12:51:25.866	175IG422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	2R3	4	0	3,208,879:87:0
430	95	341	12:51:27.200	165IG4C	7VECT		Inert vect update UTC	2R3	4	0	3,208,879:89:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
431	95	341	12:51:27.866	165IG4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	2R3	4	0	3,208,879:90:0
432	95	341	12:51:28.533	176IG6A	6TMCHG	NCGAI8	NO CHANGE / 806.4 KBPS SSI + 1/8 NIMS RECO	2R3	4	0	3,208,880:00:0
433	95	341	12:51:29.200	117IG105A106A4A	7STRP	0.0,0.050042,0,0	Slew =,3.14	2R3	4	0	3,208,880:01:0
434	95	341	12:51:31.066		:31.0	066 DMS: *RE		2R3	4	0	3,208,880:03:8
435	95	341	12:51:47.200	175IG422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,208,880:28:0
436	95	341	12:51:47.200		:47.2	200 DMS: *RU		2R3	4	0	3,208,880:28:0
437	95	341	12:51:48.533	117IG105A106B4A	7STRP	-0.00731,-0.0007	Slew =,4.24	2R3	4	0	3,208,880:30:0
438	95	341	12:51:49.866		:49.8	866 DMS: *RE		2R3	4	0	3,208,880:32:0
439	95	341	12:51:51.866		:51.8	866 DMS: *RU		2R3	4	0	3,208,880:35:0
440	95	341	12:51:51.866	175IH422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	2R3	4	0	3,208,880:35:0
441	95	341	12:51:55.200	117IG105A106B4B	7STRP	0.0,0.048037,0,0	Slew =,3.14	2R3	4	0	3,208,880:40:0
442	**95**	**341**	**12:51:55.200**	**20G3A**	**40T2R**		**1 PCT Heater 2 OFF**	**2R3**	**4**	**0**	**3,208,880:40:0**
443	95	341	12:51:57.066		:57.0	066 DMS: *RE		2R3	4	0	3,208,880:42:8
444	**95**	**341**	**12:51:58.533**	**AWG,1.**	**NIMPBK**	**301CM**	**SSI JOE/NIMS(LM)**	**2R3**	**4**	**0**	**: :**
445	**95**	**341**	**12:52:00.533**	**20G3B**	**40T2R**		**2 PCT Heater 2 OFF**	**2R3**	**4**	**0**	**3,208,880:48:0**
446	95	341	12:52:13.200		:13.2	200 DMS: *RU		2R3	4	0	3,208,880:67:0
447	95	341	12:52:13.200	175IH422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,208,880:67:0
448	**95**	**341**	**12:52:14.533**	**NIMS2;**	**DESELC**	**300CM**	**SSI JOE/NIMS(LM)**	**2R3**	**4**	**0**	**: :**
449	95	341	12:52:14.533	117IG105A106C4A	7STRP	-0.00731,0.01400	Slew =,4.24	2R3	4	0	3,208,880:69:0
450	95	341	12:52:15.866		:15.8	866 DMS: *RE		2R3	4	0	3,208,880:71:0
451	95	341	12:52:19.866	175II422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	2R3	4	0	3,208,880:77:0
452	95	341	12:52:19.866		:19.8	866 DMS: *RU		2R3	4	0	3,208,880:77:0
453	95	341	12:52:23.200	117IG105A106C4B	7STRP	0.0,0.012001,0,0	Slew =,3.14	2R3	4	0	3,208,880:82:0
454	95	341	12:52:25.066		:25.0	066 DMS: *RE		2R3	4	0	3,208,880:84:8
455	**95**	**341**	**12:52:26.533**	**SWG,1.7**	**NIMPBK**	**301CN**	**SSI JOE/NIMS(LM)**	**2R3**	**4**	**0**	**: :**
456	95	341	12:52:29.200	175II422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,208,881:00:0
457	95	341	12:52:29.200		:29.2	200 DMS: *RU		2R3	4	0	3,208,881:00:0
458	**95**	**341**	**12:52:30.533**	**NIMS2;**	**DESELC**	**300CN**	**SSI JOE/NIMS(LM)**	**2R3**	**4**	**0**	**: :**
459	95	341	12:52:30.533	117IG11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	3,208,881:02:0
460	95	341	12:52:31.866		:31.8	866 DMS: *RE		2R3	4	0	3,208,881:04:0
461	**95**	**341**	**12:53:00.000**	**JAENSOPOLE01-**		**-----START------**		**2R3**	**4**	**0**	**: :**
462	**95**	**341**	**12:53:25.200**	**157JG156A121A4A**	**37IST**	**1,2,0,OFF,0,1,2**	**Chopper ON, Sync, Chopper (Ref)Gain State**	**3R3**	**4**	**0**	**3,208,881:84:0**
463	**95**	**341**	**12:54:25.866**	**157JG156A121B4A**	**37SS**	**2,1,1,0,1,2,12**	**Special Sequence (loads PTABs for modes 12**	**3R3**	**4**	**0**	**3,208,882:84:0**
464	**95**	**341**	**12:55:26.533**	**157JG156A121C4A**	**37SS**	**3,1,1,0,1,2,12**	**Special Sequence (loads PTABs for modes 12**	**3R3**	**4**	**0**	**3,208,883:84:0**
465	**95**	**341**	**12:56:27.200**	**157JG156A121D4A**	**37IOP**	**13,1**	**Special Sequence 2, Grating Start Position**	**3RD**	**4**	**1**	**3,208,884:84:0**
466	95	341	12:57:36.533	165JG4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	3RD	4	1	3,208,886:06:0
467	95	341	12:57:37.200	165JG4B	7SCAN	NORM,210.904999,	Check S/P Position	3RD	4	1	3,208,886:07:0
468	95	341	12:57:45.866	117JG	**CSMOS**	GS	***** GROUP START CSMOS	3RD	4	1	3,208,886:20:0
469	95	341	12:58:05.866		:05.8	866 DMS: *RU		3RD	4	1	3,208,886:50:0
470	95	341	12:58:05.866	175JA422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	3RD	4	1	3,208,886:50:0
471	95	341	12:58:07.200	176JA6A	6TMCHG	**NCGMPW**	NO CHANGE / 28.8 KBPS PWS + NIMS RECORD	3RD	4	1	3,208,886:52:0
472	95	341	12:58:08.533	165JG4C	7VECT		Inert vect update UTC	3RD	4	1	3,208,886:54:0
473	95	341	12:58:09.200	165JG4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	3RD	4	1	3,208,886:55:0
474	95	341	12:58:09.866	117JG105A106A4A	7STRP	0.016501,0.0,0,0	Slew =,0.06	3RD	4	1	3,208,886:56:0
475	95	341	12:58:09.866		:09.8	866 DMS: *RE		3RD	4	1	3,208,886:56:0
476	**95**	**341**	**12:58:11.200**	**SWG,1.**	**NIMPBK**	**301JG**	**EUROPA SOUTH POLE (FMSS2)**	**3RD**	**4**	**1**	**: :**
477	95	341	13:02:59.866	117JG105A106A4B	7STRP	-0.023004,-0.007	Slew =11.45	3RD	4	1	3,208,891:36:0
478	95	341	13:03:05.200	117JG105A106A4C	7STRP	0.016501,0.0,0,0	Slew =,0.06	3RD	4	1	3,208,891:44:0
479	95	341	13:07:55.200	117JG105A106B4A	7STRP	-0.021003,-0.007	Slew =11.45	3RD	4	1	3,208,896:24:0
480	95	341	13:07:59.866	117JG105A106B4B	7STRP	0.016501,0.0,0,0	Slew =,0.06	3RD	4	1	3,208,896:31:0
481	95	341	13:12:49.866	117JG105A106C4A	7STRP	-0.016001,-0.008	Slew =11.45	3RD	4	1	3,208,901:11:0
482	95	341	13:12:56.533	117JG105A106C4B	7STRP	0.013801,0.0,0,0	Slew =,0.06	3RD	4	1	3,208,901:21:0
483	95	341	13:16:59.200	117JG105A106D4A	7STRP	0.0,-0.008,0,0,0	Slew =11.45	3RD	4	1	3,208,905:21:0
484	95	341	13:17:09.866	117JG105A106D4B	7STRP	-0.002,0.0,0,0,0	Slew =,0.06	3RD	4	1	3,208,905:37:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
485	95	341	13:17:40.533		:40.5	533 DMS: *RU		3RD	4	1	3,208,905:83:0	
486	95	341	13:17:40.533	175JA422A6B	6DMSC	RDY,0	DMS Control Tape stop	3RD	4	1	3,208,905:83:0	
487	95	341	13:17:41.733		:41.7	733 DMS: *RE		3RD	4	1	3,208,905:84:8	
488	**95**	**341**	**13:17:41.866**	**NIMS2;**	**DESELC**	**300JG**	**EUROPA SO. POLE**	**3RD**	**4**	**1**	**: :**	
489	95	341	13:17:44.533	175PA422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	3RD	4	1	3,208,905:89:0	
490	95	341	13:17:44.533		:44.5	533 DMS: *RU		3RD	4	1	3,208,905:89:0	
491	95	341	13:17:45.866	176PA6A	6TMCHG	NCGLPW	NO CHANGE / 7.68 KBPS LOW RATE SCI-PWS-NIM	3RD	4	1	3,208,906:00:0	
492	95	341	13:17:45.866	117JG11A	**CSMOS**	GE	***** GROUP END CSMOS	3RD	4	1	3,208,906:00:0	
493	95	341	13:17:46.000		:46.0	000 DMS: *RE		3RD	4	1	3,208,906:00:2	
494	**95**	**341**	**13:17:46.000**	**JAENSOPOLE01-**		**-----STOP-------**		**3RD**	**4**	**1**	**: :**	
495	95	341	13:17:47.200	165LF4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	3RD	4	1	3,208,906:02:0	
496	95	341	13:17:47.866	165LF4B	7SCAN	NORM,133.040998,	Check S/P Position	3RD	4	1	3,208,906:03:0	
497	95	341	13:18:11.866	117LF	**CSMOS**	GS	***** GROUP START CSMOS	3RD	4	1	3,208,906:39:0	
498	95	341	13:18:19.866	165LF4C	7VECT		Inert vect update UTC	3RD	4	1	3,208,906:51:0	
499	95	341	13:18:20.533	165LF4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	3RD	4	1	3,208,906:52:0	
500	95	341	13:18:21.200	117LF105A106A4A	7STRP	-0.014501,0.0,0,	Slew =,0.41	3RD	4	1	3,208,906:53:0	
501	95	341	13:19:01.200	117LF105A106A4B	7STRP	0.013901,-0.0015	Slew =,11.9	3RD	4	1	3,208,907:22:0	
502	95	341	13:19:05.866	117LF105A106A4C	7STRP	-0.014501,0.0,0,	Slew =,0.41	3RD	4	1	3,208,907:29:0	
503	95	341	13:19:45.866	117LF105A106A4D	7STRP	0.013901,-0.0015	Slew =,11.9	3RD	4	1	3,208,907:89:0	
504	95	341	13:19:50.533	117LF105A106A4E	7STRP	-0.014501,0.0,0,	Slew =,0.41	3RD	4	1	3,208,908:05:0	
505	95	341	13:20:30.533	117LF105A106A4F	7STRP	0.013901,-0.0015	Slew =,11.9	3RD	4	1	3,208,908:65:0	
506	95	341	13:20:35.200	117LF105A106A4G	7STRP	-0.014501,0.0,0,	Slew =,0.41	3RD	4	1	3,208,908:72:0	
507	95	341	13:21:15.200	117LF105A106A4H	7STRP	0.013901,-0.0015	Slew =,11.9	3RD	4	1	3,208,909:41:0	
508	95	341	13:21:19.866	117LF105A106A4I	7STRP	-0.014501,0.0,0,	Slew =,0.41	3RD	4	1	3,208,909:48:0	
509	95	341	13:21:59.866	117LF105A106A4J	7STRP	0.013901,-0.0015	Slew =,11.9	3RD	4	1	3,208,910:17:0	
510	95	341	13:22:04.533	117LF105A106A4K	7STRP	-0.014501,0.0,0,	Slew =,0.41	3RD	4	1	3,208,910:24:0	
511	95	341	13:22:44.533	117LF105A106A4L	7STRP	0.013901,-0.0015	Slew =,11.9	3RD	4	1	3,208,910:84:0	
512	95	341	13:22:49.200	117LF105A106A4M	7STRP	-0.014501,0.0,0,	Slew =,0.41	3RD	4	1	3,208,911:00:0	
513	95	341	13:23:29.200	117LF105A106A4N	7STRP	0.013901,-0.0015	Slew =,11.9	3RD	4	1	3,208,911:60:0	
514	95	341	13:23:33.866	117LF105A106A4O	7STRP	-0.014501,0.0,0,	Slew =,0.41	3RD	4	1	3,208,911:67:0	
515	95	341	13:24:13.866	117LF105A106A4P	7STRP	0.013901,-0.0015	Slew =,11.9	3RD	4	1	3,208,912:36:0	
516	95	341	13:24:18.533	117LF105A106A4Q	7STRP	-0.014501,0.0,0,	Slew =,0.41	3RD	4	1	3,208,912:43:0	
517	95	341	13:24:58.533	117LF105A106A4R	7STRP	0.013901,-0.0015	Slew =,11.9	3RD	4	1	3,208,913:12:0	
518	95	341	13:25:03.200	117LF105A106A4S	7STRP	-0.014501,0.0,0,	Slew =,0.41	3RD	4	1	3,208,913:19:0	
519	95	341	13:25:43.200	117LF105A106A4T	7STRP	0.013901,-0.0015	Slew =,11.9	3RD	4	1	3,208,913:79:0	
520	95	341	13:25:47.866	117LF105A106A4U	7STRP	-0.014501,0.0,0,	Slew =,0.41	3RD	4	1	3,208,913:86:0	
521	95	341	13:26:27.866	117LF105A106A4V	7STRP	0.013901,-0.0015	Slew =,11.9	3RD	4	1	3,208,914:55:0	
522	95	341	13:26:32.533	117LF105A106A4W	7STRP	-0.014501,0.0,0,	Slew =,0.41	3RD	4	1	3,208,914:62:0	
523	95	341	13:27:12.533	117LF105A106A4X	7STRP	0.013901,-0.0015	Slew =,11.9	3RD	4	1	3,208,915:31:0	
524	95	341	13:27:17.200	117LF105A106A4Y	7STRP	-0.014501,0.0,0,	Slew =,0.41	3RD	4	1	3,208,915:38:0	
525	95	341	13:27:57.200	117LF105A106A4Z	7STRP	0.013901,-0.0015	Slew =,11.9	3RD	4	1	3,208,916:07:0	
526	95	341	13:28:01.866	117LF105A106A4AA	7STRP	-0.014501,0.0,0,	Slew =,0.41	3RD	4	1	3,208,916:14:0	
527	95	341	13:28:41.866	117LF105A106A4AB	7STRP	0.013901,-0.0015	Slew =,11.9	3RD	4	1	3,208,916:74:0	
528	95	341	13:28:46.533	117LF105A106A4AC	7STRP	-0.014501,0.0,0,	Slew =,0.41	3RD	4	1	3,208,916:81:0	
529	95	341	13:29:26.533	117LF105A106B4A	7STRP	0.013701,-0.0013	Slew =,11.9	3RD	4	1	3,208,917:50:0	
530	95	341	13:29:32.533	117LF105A106B4B	7STRP	-0.013201,0.0,0,	Slew =,0.41	3RD	4	1	3,208,917:59:0	
531	95	341	13:30:09.200	117LF105A106C4A	7STRP	0.01,-0.0013,0,0	Slew =,11.9	3RD	4	1	3,208,918:23:0	
532	95	341	13:30:14.533	117LF105A106C4B	7STRP	-0.0104,0.0,0,0,	Slew =,0.41	3RD	4	1	3,208,918:31:0	
533	95	341	13:30:44.533	117LF105A106C4C	7STRP	0.01,-0.0013,0,0	Slew =,11.9	3RD	4	1	3,208,918:76:0	
534	95	341	13:30:49.866	117LF105A106C4D	7STRP	-0.0104,0.0,0,0,	Slew =,0.41	3RD	4	1	3,208,918:84:0	
535	95	341	13:31:19.866	117LF105A106C4E	7STRP	0.01,-0.0013,0,0	Slew =,11.9	3RD	4	1	3,208,919:38:0	
536	95	341	13:31:25.200	117LF105A106C4F	7STRP	-0.0104,0.0,0,0,	Slew =,0.41	3RD	4	1	3,208,919:46:0	
537	95	341	13:31:55.200	117LF105A106C4G	7STRP	0.01,-0.0013,0,0	Slew =,11.9	3RD	4	1	3,208,920:00:0	
538	95	341	13:32:00.533	117LF105A106C4H	7STRP	-0.0104,0.0,0,0,	Slew =,0.41	3RD	4	1	3,208,920:08:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
539	95	341	13:32:30.533	117LF105A106C4I	7STRP	0.01,-0.0013,0,0	Slew =,11.9	3RD	4	1	3,208,920:53:0	
540	95	341	13:32:35.866	117LF105A106C4J	7STRP	-0.0104,0.0,0,0,	Slew =,0.41	3RD	4	1	3,208,920:61:0	
541	95	341	13:33:05.866	117LF105A106C4K	7STRP	0.01,-0.0013,0,0	Slew =,11.9	3RD	4	1	3,208,921:15:0	
542	95	341	13:33:11.200	117LF105A106C4L	7STRP	-0.0104,0.0,0,0,	Slew =,0.41	3RD	4	1	3,208,921:23:0	
543	95	341	13:33:41.200	117LF105A106C4M	7STRP	0.01,-0.0013,0,0	Slew =,11.9	3RD	4	1	3,208,921:68:0	
544	95	341	13:33:46.533	117LF105A106C4N	7STRP	-0.0104,0.0,0,0,	Slew =,0.41	3RD	4	1	3,208,921:76:0	
545	95	341	13:34:16.533	117LF105A106C4O	7STRP	0.01,-0.0013,0,0	Slew =,11.9	3RD	4	1	3,208,922:30:0	
546	95	341	13:34:21.866	117LF105A106C4P	7STRP	-0.0104,0.0,0,0,	Slew =,0.41	3RD	4	1	3,208,922:38:0	
547	95	341	13:34:51.866	117LF105A106C4Q	7STRP	0.01,-0.0013,0,0	Slew =,11.9	3RD	4	1	3,208,922:83:0	
548	95	341	13:34:57.200	117LF105A106C4R	7STRP	-0.0104,0.0,0,0,	Slew =,0.41	3RD	4	1	3,208,923:00:0	
549	95	341	13:35:27.200	117LF105A106C4S	7STRP	0.01,-0.0013,0,0	Slew =,11.9	3RD	4	1	3,208,923:45:0	
550	95	341	13:35:32.533	117LF105A106C4T	7STRP	-0.0104,0.0,0,0,	Slew =,0.41	3RD	4	1	3,208,923:53:0	
551	95	341	13:35:32.533	165LF4E	7VECT		Inert vect update UTC	3RD	4	1	3,208,923:53:0	
552	95	341	13:36:02.533	117LF105A106C4U	7STRP	0.01,-0.0013,0,0	Slew =,11.9	3RD	4	1	3,208,924:07:0	
553	95	341	13:36:07.866	117LF105A106C4V	7STRP	-0.0104,0.0,0,0,	Slew =,0.41	3RD	4	1	3,208,924:15:0	
554	95	341	13:36:37.866	117LF105A106C4W	7STRP	0.01,-0.0013,0,0	Slew =,11.9	3RD	4	1	3,208,924:60:0	
555	95	341	13:36:43.200	117LF105A106C4X	7STRP	-0.0104,0.0,0,0,	Slew =,0.41	3RD	4	1	3,208,924:68:0	
556	95	341	13:37:13.200	117LF105A106C4Y	7STRP	0.01,-0.0013,0,0	Slew =,11.9	3RD	4	1	3,208,925:22:0	
557	95	341	13:37:18.533	117LF105A106C4Z	7STRP	-0.0104,0.0,0,0,	Slew =,0.41	3RD	4	1	3,208,925:30:0	
558	95	341	13:37:48.533	117LF105A106C4AA	7STRP	0.01,-0.0013,0,0	Slew =,11.9	3RD	4	1	3,208,925:75:0	
559	95	341	13:37:53.866	117LF105A106C4AB	7STRP	-0.0104,0.0,0,0,	Slew =,0.41	3RD	4	1	3,208,925:83:0	
560	95	341	13:38:23.866	117LF105A106D4A	7STRP	0.0075,-0.0015,0	Slew =,11.9	3RD	4	1	3,208,926:37:0	
561	95	341	13:38:29.200	117LF105A106D4B	7STRP	-0.0075,0.0,0,0,	Slew =,0.41	3RD	4	1	3,208,926:45:0	
562	95	341	13:38:51.200	117LF105A106D4C	7STRP	0.0075,-0.0015,0	Slew =,11.9	3RD	4	1	3,208,926:78:0	
563	95	341	13:38:56.533	117LF105A106D4D	7STRP	-0.0075,0.0,0,0,	Slew =,0.41	3RD	4	1	3,208,926:86:0	
564	95	341	13:39:18.533	117LF105A106D4E	7STRP	0.0075,-0.0015,0	Slew =,11.9	3RD	4	1	3,208,927:28:0	
565	95	341	13:39:23.866	117LF105A106D4F	7STRP	-0.0075,0.0,0,0,	Slew =,0.41	3RD	4	1	3,208,927:36:0	
566	95	341	13:39:45.866	117LF105A106D4G	7STRP	0.0075,-0.0015,0	Slew =,11.9	3RD	4	1	3,208,927:69:0	
567	95	341	13:39:51.200	117LF105A106D4H	7STRP	-0.0075,0.0,0,0,	Slew =,0.41	3RD	4	1	3,208,927:77:0	
568	95	341	13:40:13.200	117LF105A106D4I	7STRP	0.0075,-0.0015,0	Slew =,11.9	3RD	4	1	3,208,928:19:0	
569	95	341	13:40:18.533	117LF105A106D4J	7STRP	-0.0075,0.0,0,0,	Slew =,0.41	3RD	4	1	3,208,928:27:0	
570	95	341	13:40:40.533	117LF105A106E4A	7STRP	0.035014,0.03953	Slew =,11.9	3RD	4	1	3,208,928:60:0	
571	95	341	13:40:53.200	117LF105A106E4B	7STRP	-0.009,0.0,0,0,0	Slew =,0.41	3RD	4	1	3,208,928:79:0	
572	95	341	13:41:20.533	117LF105A106F4A	7STRP	0.0075,-0.0015,0	Slew =,11.9	3RD	4	1	3,208,929:29:0	
573	95	341	13:41:25.866	117LF105A106F4B	7STRP	-0.009,0.0,0,0,0	Slew =,0.41	3RD	4	1	3,208,929:37:0	
574	95	341	13:41:53.200	117LF105A106F4C	7STRP	0.0075,-0.0015,0	Slew =,11.9	3RD	4	1	3,208,929:78:0	
575	95	341	13:41:58.533	117LF105A106F4D	7STRP	-0.009,0.0,0,0,0	Slew =,0.41	3RD	4	1	3,208,929:86:0	
576	95	341	13:42:25.866	117LF105A106F4E	7STRP	0.0075,-0.0015,0	Slew =,11.9	3RD	4	1	3,208,930:36:0	
577	95	341	13:42:31.200	117LF105A106F4F	7STRP	-0.009,0.0,0,0,0	Slew =,0.41	3RD	4	1	3,208,930:44:0	
578	95	341	13:42:58.533	117LF105A106F4G	7STRP	0.0075,-0.0015,0	Slew =,11.9	3RD	4	1	3,208,930:85:0	
579	95	341	13:43:03.866	117LF105A106F4H	7STRP	-0.009,0.0,0,0,0	Slew =,0.41	3RD	4	1	3,208,931:02:0	
580	95	341	13:43:31.200	117LF105A106F4I	7STRP	0.0075,-0.0015,0	Slew =,11.9	3RD	4	1	3,208,931:43:0	
581	95	341	13:43:36.533	117LF105A106F4J	7STRP	-0.009,0.0,0,0,0	Slew =,0.41	3RD	4	1	3,208,931:51:0	
582	95	341	13:44:03.866	117LF105A106F4K	7STRP	0.0075,-0.0015,0	Slew =,11.9	3RD	4	1	3,208,932:01:0	
583	95	341	13:44:09.200	117LF105A106F4L	7STRP	-0.009,0.0,0,0,0	Slew =,0.41	3RD	4	1	3,208,932:09:0	
584	95	341	13:44:36.533	117LF105A106F4M	7STRP	0.0075,-0.0015,0	Slew =,11.9	3RD	4	1	3,208,932:50:0	
585	95	341	13:44:41.866	117LF105A106F4N	7STRP	-0.009,0.0,0,0,0	Slew =,0.41	3RD	4	1	3,208,932:58:0	
586	95	341	13:45:09.200	117LF105A106F4O	7STRP	0.0075,-0.0015,0	Slew =,11.9	3RD	4	1	3,208,933:08:0	
587	95	341	13:45:14.533	117LF105A106F4P	7STRP	-0.009,0.0,0,0,0	Slew =,0.41	3RD	4	1	3,208,933:16:0	
588	95	341	13:45:41.866	117LF105A106F4Q	7STRP	0.0075,-0.0015,0	Slew =,11.9	3RD	4	1	3,208,933:57:0	
589	95	341	13:45:47.200	117LF105A106F4R	7STRP	-0.009,0.0,0,0,0	Slew =,0.41	3RD	4	1	3,208,933:65:0	
590	95	341	13:46:14.533	117LF105A106F4S	7STRP	0.0075,-0.0015,0	Slew =,11.9	3RD	4	1	3,208,934:15:0	
591	95	341	13:46:19.866	117LF105A106F4T	7STRP	-0.009,0.0,0,0,0	Slew =,0.41	3RD	4	1	3,208,934:23:0	
592	95	341	13:46:47.200	117LF105A106F4U	7STRP	0.0075,-0.0015,0	Slew =,11.9	3RD	4	1	3,208,934:64:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
593	95	341	13:46:52.533	117LF105A106F4V	7STRP	-0.009,0.0,0,0,0	Slew =,0.41	3RD	4	1	3,208,934:72:0	
594	95	341	13:47:19.866	117LF105A106G4A	7STRP	0.0083,-0.0015,0	Slew =,11.9	3RD	4	1	3,208,935:22:0	
595	95	341	13:47:25.200	117LF105A106G4B	7STRP	-0.009,0.0,0,0,0	Slew =,0.41	3RD	4	1	3,208,935:30:0	
596	95	341	13:47:52.533	117LF105A106G4C	7STRP	0.0083,-0.0015,0	Slew =,11.9	3RD	4	1	3,208,935:71:0	
597	95	341	13:47:57.866	117LF105A106G4D	7STRP	-0.009,0.0,0,0,0	Slew =,0.41	3RD	4	1	3,208,935:79:0	
598	95	341	13:48:25.200	117LF105A106G4E	7STRP	0.0083,-0.0015,0	Slew =,11.9	3RD	4	1	3,208,936:29:0	
599	95	341	13:48:30.533	117LF105A106G4F	7STRP	-0.009,0.0,0,0,0	Slew =,0.41	3RD	4	1	3,208,936:37:0	
600	95	341	13:48:57.866	117LF105A106G4G	7STRP	0.0083,-0.0015,0	Slew =,11.9	3RD	4	1	3,208,936:78:0	
601	95	341	13:49:03.200	117LF105A106G4H	7STRP	-0.009,0.0,0,0,0	Slew =,0.41	3RD	4	1	3,208,936:86:0	
602	95	341	13:49:30.533	117LF105A106G4I	7STRP	0.0083,-0.0015,0	Slew =,11.9	3RD	4	1	3,208,937:36:0	
603	95	341	13:49:35.866	117LF105A106G4J	7STRP	-0.009,0.0,0,0,0	Slew =,0.41	3RD	4	1	3,208,937:44:0	
604	95	341	13:50:03.200	117LF105A106G4K	7STRP	0.0083,-0.0015,0	Slew =,11.9	3RD	4	1	3,208,937:85:0	
605	95	341	13:50:08.533	117LF105A106G4L	7STRP	-0.009,0.0,0,0,0	Slew =,0.41	3RD	4	1	3,208,938:02:0	
606	95	341	13:50:35.866	117LF105A106G4M	7STRP	0.0083,-0.0015,0	Slew =,11.9	3RD	4	1	3,208,938:43:0	
607	95	341	13:50:41.200	117LF105A106G4N	7STRP	-0.009,0.0,0,0,0	Slew =,0.41	3RD	4	1	3,208,938:51:0	
608	95	341	13:51:08.533	117LF105A106G4O	7STRP	0.0083,-0.0015,0	Slew =,11.9	3RD	4	1	3,208,939:01:0	
609	95	341	13:51:13.866	117LF105A106G4P	7STRP	-0.009,0.0,0,0,0	Slew =,0.41	3RD	4	1	3,208,939:09:0	
610	95	341	13:51:41.200	117LF105A106G4Q	7STRP	0.0083,-0.0015,0	Slew =,11.9	3RD	4	1	3,208,939:50:0	
611	95	341	13:51:46.533	117LF105A106G4R	7STRP	-0.009,0.0,0,0,0	Slew =,0.41	3RD	4	1	3,208,939:58:0	
612	95	341	13:52:13.866	117LF105A106G4S	7STRP	0.0083,-0.0015,0	Slew =,11.9	3RD	4	1	3,208,940:08:0	
613	95	341	13:52:19.200	117LF105A106G4T	7STRP	-0.009,0.0,0,0,0	Slew =,0.41	3RD	4	1	3,208,940:16:0	
614	95	341	13:52:46.533	117LF11A	**CSMOS**	GE	***** GROUP END CSMOS	3RD	4	1	3,208,940:57:0	
615	95	341	13:53:09.200	192LG4A	**7CONE**	**17.45,0.0**	Check S/P Position	3RD	4	1	3,208,941:00:0	
616	95	341	13:58:58.533	165LH4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	3RD	4	1	3,208,946:69:0	
617	95	341	13:58:59.200	165LH4B	7SCAN	NORM,237.648998,	Check S/P Position	3RD	4	1	3,208,946:70:0	
618	95	341	14:01:05.933		:05.9	933 DMS: *RE		3RD	4	1	3,208,948:78:1	
619	95	341	14:01:08.666		:08.6	666 DMS: *RE		3RD	4	1	3,208,948:82:2	
620	95	341	14:02:53.200	117LH	**CSMOS**	GS	***** GROUP START CSMOS	3RD	4	1	3,208,950:57:0	
621	95	341	14:03:01.200	165LH4C	7VECT		Inert vect update UTC	3RD	4	1	3,208,950:69:0	
622	95	341	14:03:01.866	165LH4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	3RD	4	1	3,208,950:70:0	
623	95	341	14:03:02.533	117LH105A106A4A	7STRP	-0.077857,-0.015	Slew =,0.59	3RD	4	1	3,208,950:71:0	
624	95	341	14:05:25.200	117LH105A106A4B	7STRP	0.078259,0.01450	Slew =11.39	3RD	4	1	3,208,953:12:0	
625	95	341	14:05:36.533	117LH105A106A4C	7STRP	-0.077857,-0.015	Slew =,0.59	3RD	4	1	3,208,953:29:0	
626	95	341	14:07:59.200	117LH105A106A4D	7STRP	0.078259,0.01450	Slew =11.39	3RD	4	1	3,208,955:61:0	
627	95	341	14:08:10.533	117LH105A106A4E	7STRP	-0.077857,-0.015	Slew =,0.59	3RD	4	1	3,208,955:78:0	
628	95	341	14:10:33.200	117LH105A106A4F	7STRP	0.078259,0.01450	Slew =11.39	3RD	4	1	3,208,958:19:0	
629	95	341	14:10:44.533	117LH105A106A4G	7STRP	-0.077857,-0.015	Slew =,0.59	3RD	4	1	3,208,958:36:0	
630	95	341	14:13:07.200	165LI4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	3RD	4	1	3,208,960:68:0	
631	95	341	14:13:07.200	117LH11A	**CSMOS**	GE	***** GROUP END CSMOS	3RD	4	1	3,208,960:68:0	
632	95	341	14:13:07.866	165LI4B	7SCAN	NORM,249.353998,	Check S/P Position	3RD	4	1	3,208,960:69:0	
633	95	341	14:14:48.533	117LI	**CSMOS**	GS	***** GROUP START CSMOS	3RD	4	1	3,208,962:38:0	
634	95	341	14:15:09.866	117LI105A106A4A	7STRP	0.01,0.0,0,0,0,0	Slew =,0.08	3RD	4	1	3,208,962:70:0	
635	95	341	14:17:35.200	117LI105A106B4A	7STRP	-0.012501,-0.001	Slew =11.49	3RD	4	1	3,208,965:15:0	
636	95	341	14:17:40.533	117LI105A106B4B	7STRP	0.015001,0.0,0,0	Slew =,0.08	3RD	4	1	3,208,965:23:0	
637	95	341	14:20:59.200	117LI105A106C4A	7STRP	-0.015501,-0.001	Slew =11.49	3RD	4	1	3,208,968:48:0	
638	95	341	14:21:05.200	117LI105A106C4B	7STRP	0.017002,0.0,0,0	Slew =,0.08	3RD	4	1	3,208,968:57:0	
639	95	341	14:25:09.866	117LI105A106D4A	7STRP	-0.017002,-0.001	Slew =11.49	3RD	4	1	3,208,972:60:0	
640	95	341	14:25:16.533	117LI105A106D4B	7STRP	0.019502,0.0,0,0	Slew =,0.08	3RD	4	1	3,208,972:70:0	
641	95	341	14:29:53.866	117LI105A106E4A	7STRP	-0.020803,-0.001	Slew =11.49	3RD	4	1	3,208,977:31:0	
642	95	341	14:30:00.533	117LI105A106E4B	7STRP	0.021503,0.0,0,0	Slew =,0.08	3RD	4	1	3,208,977:41:0	
643	95	341	14:34:44.533	117LI105A106E4C	7STRP	-0.020803,-0.001	Slew =11.49	3RD	4	1	3,208,982:12:0	
644	95	341	14:34:51.200	117LI105A106E4D	7STRP	0.021503,0.0,0,0	Slew =,0.08	3RD	4	1	3,208,982:22:0	
645	95	341	14:39:35.200	117LI105A106E4E	7STRP	-0.020803,-0.001	Slew =11.49	3RD	4	1	3,208,986:84:0	
646	95	341	14:39:41.866	117LI105A106E4F	7STRP	0.021503,0.0,0,0	Slew =,0.08	3RD	4	1	3,208,987:03:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
647	95	341	14:44:25.866	117LI105A106E4G	7STRP	-0.020803,-0.001	Slew =11.49	3RD	4	1	3,208,991:65:0	
648	95	341	14:44:32.533	117LI105A106E4H	7STRP	0.021503,0.0,0,0	Slew =,0.08	3RD	4	1	3,208,991:75:0	
649	95	341	14:49:16.533	117LI105A106E4I	7STRP	-0.020803,-0.001	Slew =11.49	3RD	4	1	3,208,996:46:0	
650	95	341	14:49:23.200	117LI105A106E4J	7STRP	0.021503,0.0,0,0	Slew =,0.08	3RD	4	1	3,208,996:56:0	
651	95	341	14:54:07.200	117LI105A106F4A	7STRP	-0.020503,-0.001	Slew =11.49	3RD	4	1	3,209,001:27:0	
652	95	341	14:54:13.200	117LI105A106F4B	7STRP	0.019502,0.0,0,0	Slew =,0.08	3RD	4	1	3,209,001:36:0	
653	95	341	14:58:31.200	117LI105A106G4A	7STRP	-0.016501,-0.001	Slew =11.49	3RD	4	1	3,209,005:59:0	
654	95	341	14:58:37.200	117LI105A106G4B	7STRP	0.016001,0.0,0,0	Slew =,0.08	3RD	4	1	3,209,005:68:0	
655	95	341	15:02:09.200	117LI105A106H4A	7STRP	-0.013501,-0.001	Slew =11.49	3RD	4	1	3,209,009:22:0	
656	95	341	15:02:15.200	117LI105A106H4B	7STRP	0.012001,0.0,0,0	Slew =,0.08	3RD	4	1	3,209,009:31:0	
657	95	341	15:04:54.533	117LI11A	**CSMOS**	GE	***** GROUP END CSMOS	3RD	4	1	3,209,011:88:0	
658	95	341	15:04:55.200	165JH4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	3RD	4	1	3,209,011:89:0	
659	95	341	15:04:55.866	165JH4B	7SCAN	NORM,249.643,-16	Check S/P Position	3RD	4	1	3,209,011:90:0	
660	**95**	**341**	**15:04:57.000**	**JAINHRSPEC01-**		**-----START------**		**3RD**	**4**	**1**	**: :**	
661	95	341	15:05:51.866	175PA422A6B	6DMSC	RDY,0	DMS Control Tape stop	3RD	4	1	3,209,012:83:0	
662	95	341	15:05:51.866		:51.8	866 DMS: *RU		3RD	4	1	3,209,012:83:0	
663	**95**	**341**	**15:05:52.533**	**157JH156A121B4A**	**37IST**	**0,0,0,OFF,0,1,0**	**Gain State 2**	**2RD**	**4**	**1**	**3,209,012:84:0**	
664	95	341	15:05:53.133		:53.1	133 DMS: *RE		2RD	4	1	3,209,012:84:9	
665	95	341	15:05:53.200	175NZ422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2RD	4	1	3,209,012:85:0	
666	95	341	15:05:53.200		:53.2	200 DMS: *RU		2RD	4	1	3,209,012:85:0	
667	95	341	15:05:55.866	165JH4C	7VECT		Inert vect update UTC	2RD	4	1	3,209,012:89:0	
668	95	341	15:05:56.533	165JH4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	2RD	4	1	3,209,012:90:0	
669	95	341	15:05:57.200	176NZ6A	6TMCHG	NCGHPW	NO CHANGE / 115.2 KBPS PWS + NIMS RECORD	2RD	4	1	3,209,013:00:0	
670	95	341	15:05:57.200		:57.2	200 DMS: *RE		2RD	4	1	3,209,013:00:0	
671	95	341	15:06:48.533	117JH	**CSMOS**	GS	***** GROUP START CSMOS	2RD	4	1	3,209,013:77:0	
672	95	341	15:06:52.533		:52.5	533 DMS: *RU		2RD	4	1	3,209,013:83:0	
673	95	341	15:06:52.533	175NZ422A6B	6DMSC	RDY,0	DMS Control Tape stop	2RD	4	1	3,209,013:83:0	
674	**95**	**341**	**15:06:53.200**	**157JH156A121A4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**3,209,013:84:0**	
675	95	341	15:06:53.733		:53.7	733 DMS: *RE		2R3	4	0	3,209,013:84:8	
676	95	341	15:06:53.866	175JE422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	2R3	4	0	3,209,013:85:0	
677	95	341	15:06:53.866		:53.8	866 DMS: *RU		2R3	4	0	3,209,013:85:0	
678	95	341	15:06:57.866	176JE6A	6TMCHG	**NCGMPW**	NO CHANGE / 28.8 KBPS PWS + NIMS RECORD	2R3	4	0	3,209,014:00:0	
679	95	341	15:06:57.866	117JH105A106A4A	7STRP	0.025706,0.0,0,0	Slew =,0.03	2R3	4	0	3,209,014:00:0	
680	95	341	15:06:57.866		:57.8	866 DMS: *RE		2R3	4	0	3,209,014:00:0	
681	**95**	**341**	**15:06:59.200**	**SWG,1.**	**NIMPBK**	**301JH**	**IO SPECTRUM(LM)**	**2R3**	**4**	**0**	**: :**	
682	95	341	15:21:58.533	117JH105A106B4A	7STRP	-0.028508,-0.007	Slew =,6.53	2R3	4	0	3,209,028:77:0	
683	95	341	15:22:06.533	117JH105A106B4B	7STRP	0.031811,0.0,0,0	Slew =,0.03	2R3	4	0	3,209,028:89:0	
684	**95**	**341**	**15:40:34.533**	**NIMS2;**	**DESELC**	**300JH**	**IO SPECTRUM(LM)**	**2R3**	**4**	**0**	**: :**	
685	95	341	15:40:37.200	176NA6A	6TMCHG	NCGMPP	NO CHANGE / 28.8 KBPS PWS RECORD	2R3	4	0	3,209,047:26:0	
686	95	341	15:40:41.200	117JH11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	3,209,047:32:0	
687	**95**	**341**	**15:41:15.866**	**157JH156A121C4A**	**37IOP**	**13,1**	**Special Sequence 2, Grating Start Position**	**2RD**	**4**	**1**	**3,209,047:84:0**	
688	95	341	15:41:34.533	117JI	**CSMOS**	GS	***** GROUP START CSMOS	2RD	4	1	3,209,048:21:0	
689	95	341	15:41:37.866	176JS6A	6TMCHG	**NCGMPW**	NO CHANGE / 28.8 KBPS PWS + NIMS RECORD	2RD	4	1	3,209,048:26:0	
690	95	341	15:41:43.866	117JI105A106A4A	7STRP	0.00001,0.0,0,0,	Slew =,0.06	2RD	4	1	3,209,048:35:0	
691	**95**	**341**	**15:41:45.200**	**SWG,1.**	**NIMPBK**	**301JI**	**IO SPECTRUM (FMSS2)**	**2RD**	**4**	**1**	**: :**	
692	95	341	15:41:49.200	117JI105A106B4A	7STRP	-0.032612,-0.009	Slew =,6.45	2RD	4	1	3,209,048:43:0	
693	95	341	15:41:58.533	117JI105A106B4B	7STRP	0.034013,0.0,0,0	Slew =,0.06	2RD	4	1	3,209,048:57:0	
694	95	341	15:51:55.866	117JI105A106C4A	7STRP	-0.030409,-0.010	Slew =,6.45	2RD	4	1	3,209,058:43:0	
695	95	341	15:52:05.200	117JI105A106C4B	7STRP	0.028007,0.0,0,0	Slew =,0.06	2RD	4	1	3,209,058:57:0	
696	95	341	16:00:09.200		:09.2	200 DMS: *RU		2RD	4	1	3,209,066:55:0	
697	95	341	16:00:09.200	175JE422A6B	6DMSC	RDY,0	DMS Control Tape stop	2RD	4	1	3,209,066:55:0	
698	95	341	16:00:10.400		:10.4	400 DMS: *RE		2RD	4	1	3,209,066:56:8	
699	**95**	**341**	**16:00:10.533**	**NIMS2;**	**DESELC**	**300JI**	**IO SPECIAL SEQ./FM**	**2RD**	**4**	**1**	**: :**	
700	95	341	16:00:14.533	175PE422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2RD	4	1	3,209,066:63:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
701	95	341	16:00:14.533		:14.5	533 DMS: *RU		2RD	4	1	3,209,066:63:0	
702	95	341	16:00:15.200	117JI11A	**CSMOS**	GE	***** GROUP END CSMOS	2RD	4	1	3,209,066:64:0	
703	95	341	16:00:15.866	176PE6A	6TMCHG	NCGLPW	NO CHANGE / 7.68 KBPS LOW RATE SCI-PWS-NIM	2RD	4	1	3,209,066:65:0	
704	95	341	16:00:16.000		:16.0	000 DMS: *RE		2RD	4	1	3,209,066:65:2	
705	**95**	**341**	**16:00:16.000**	**JAINHRSPEC01-**		**-----STOP-------**		**2RD**	**4**	**1**	**: :**	
706	95	341	16:13:51.200	165IJ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2RD	4	1	3,209,080:14:0	
707	95	341	16:13:51.866	165IJ4B	7SCAN	NORM,250.855999,	Check S/P Position	2RD	4	1	3,209,080:15:0	
708	95	341	16:14:35.866	117IJ	**CSMOS**	GS	***** GROUP START CSMOS	2RD	4	1	3,209,080:81:0	
709	95	341	16:14:41.200	165IJ4C	7VECT		Inert vect update UTC	2RD	4	1	3,209,080:89:0	
710	95	341	16:14:41.200	175PE422A6B	6DMSC	RDY,0	DMS Control Tape stop	2RD	4	1	3,209,080:89:0	
711	95	341	16:14:41.200		:41.2	200 DMS: *RU		2RD	4	1	3,209,080:89:0	
712	95	341	16:14:41.866	165IJ4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	2RD	4	1	3,209,080:90:0	
713	95	341	16:14:42.466		:42.4	466 DMS: *RE		2RD	4	1	3,209,080:90:9	
714	95	341	16:14:42.533		:42.5	533 DMS: *RU		2RD	4	1	3,209,081:00:0	
715	95	341	16:14:42.533	176IJ6A	6TMCHG	NCGAI8	NO CHANGE / 806.4 KBPS SSI + 1/8 NIMS RECO	2RD	4	1	3,209,081:00:0	
716	95	341	16:14:42.533	175IJ422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	2RD	4	1	3,209,081:00:0	
717	95	341	16:14:45.200	117IJ105A106A4A	7STRP	0.027007,0.0,0,0	Slew =,3.16	2RD	4	1	3,209,081:04:0	
718	95	341	16:14:47.733		:47.7	733 DMS: *RE		2RD	4	1	3,209,081:07:8	
719	**95**	**341**	**16:14:49.200**	**SWG,1.**	**NIMPBK**	**301DY**	**SSI JOI/NIMS(LM)**	**2RD**	**4**	**1**	**: :**	
720	95	341	16:14:56.533	175IJ422A6B	6DMSC	RDY,0	DMS Control Tape stop	2RD	4	1	3,209,081:21:0	
721	95	341	16:14:56.533		:56.5	533 DMS: *RU		2RD	4	1	3,209,081:21:0	
722	95	341	16:14:57.200	117IJ105A106B4A	7STRP	0.013001,-0.0073	Slew =,6.42	2RD	4	1	3,209,081:22:0	
723	**95**	**341**	**16:14:57.866**	**NIMS2;**	**DESELC**	**300DY**	**IO SSI/NIMS(LM)**	**2RD**	**4**	**1**	**: :**	
724	95	341	16:14:59.200		:59.2	200 DMS: *RE		2RD	4	1	3,209,081:25:0	
725	95	341	16:15:05.866	175IK422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	2RD	4	1	3,209,081:35:0	
726	95	341	16:15:05.866		:05.8	866 DMS: *RU		2RD	4	1	3,209,081:35:0	
727	95	341	16:15:07.866	117IJ105A106B4B	7STRP	0.04503,0.0,0,0,	Slew =,3.16	2RD	4	1	3,209,081:38:0	
728	95	341	16:15:11.066		:11.0	066 DMS: *RE		2RD	4	1	3,209,081:42:8	
729	**95**	**341**	**16:15:12.533**	**SWG,1.**	**NIMPBK**	**301CP**	**SSI JOI/NIMS(LM)**	**2RD**	**4**	**1**	**: :**	
730	95	341	16:15:24.533		:24.5	533 DMS: *RU		2RD	4	1	3,209,081:63:0	
731	95	341	16:15:24.533	175IK422A6B	6DMSC	RDY,0	DMS Control Tape stop	2RD	4	1	3,209,081:63:0	
732	**95**	**341**	**16:15:25.866**	**NIMS2;**	**DESELC**	**300CP**	**SSI JOI/NIMS(LM)**	**2RD**	**4**	**1**	**: :**	
733	95	341	16:15:25.866	117IJ105A106C4A	7STRP	-0.00625,-0.0073	Slew =,6.42	2RD	4	1	3,209,081:65:0	
734	95	341	16:15:27.200		:27.2	200 DMS: *RE		2RD	4	1	3,209,081:67:0	
735	95	341	16:15:33.866		:33.8	866 DMS: *RU		2RD	4	1	3,209,081:77:0	
736	95	341	16:15:33.866	175IL422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	2RD	4	1	3,209,081:77:0	
737	95	341	16:15:35.200	117IJ105A106C4B	7STRP	0.046283,0.0,0,0	Slew =,3.16	2RD	4	1	3,209,081:79:0	
738	95	341	16:15:39.066		:39.0	066 DMS: *RE		2RD	4	1	3,209,081:84:8	
739	**95**	**341**	**16:15:40.533**	**SWG,1.**	**NIMPBK**	**301CQ**	**SSI JOI/NIMS(LM)**	**2RD**	**4**	**1**	**: :**	
740	95	341	16:15:52.533	175IL422A6B	6DMSC	RDY,0	DMS Control Tape stop	2RD	4	1	3,209,082:14:0	
741	95	341	16:15:52.533		:52.5	533 DMS: *RU		2RD	4	1	3,209,082:14:0	
742	95	341	16:15:53.200	117IJ105A106D4A	7STRP	0.0053,-0.007311	Slew =,6.42	2RD	4	1	3,209,082:15:0	
743	**95**	**341**	**16:15:53.866**	**NIMS2;**	**DESELC**	**300CQ**	**SSI JOI/NIMS(LM)**	**2RD**	**4**	**1**	**: :**	
744	95	341	16:15:55.200		:55.2	200 DMS: *RE		2RD	4	1	3,209,082:18:0	
745	95	341	16:16:01.866	175IM422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	2RD	4	1	3,209,082:28:0	
746	95	341	16:16:01.866		:01.8	866 DMS: *RU		2RD	4	1	3,209,082:28:0	
747	95	341	16:16:03.866	117IJ105A106D4B	7STRP	0.045531,0.0,0,0	Slew =,3.16	2RD	4	1	3,209,082:31:0	
748	95	341	16:16:07.066		:07.0	066 DMS: *RE		2RD	4	1	3,209,082:35:8	
749	**95**	**341**	**16:16:08.533**	**SWG,1.**	**NIMPBK**	**301CR**	**SSI JOI /NIMS(LM)**	**2RD**	**4**	**1**	**: :**	
750	95	341	16:16:20.533		:20.5	533 DMS: *RU		2RD	4	1	3,209,082:56:0	
751	95	341	16:16:20.533	175IM422A6B	6DMSC	RDY,0	DMS Control Tape stop	2RD	4	1	3,209,082:56:0	
752	95	341	16:16:21.866	117IJ105A106E4A	7STRP	-0.0055,-0.00731	Slew =,6.42	2RD	4	1	3,209,082:58:0	
753	**95**	**341**	**16:16:21.866**	**NIMS2;**	**DESELC**	**300CR**	**SSI JOI/NIMS(LM)**	**2RD**	**4**	**1**	**: :**	
754	95	341	16:16:23.200		:23.2	200 DMS: *RE		2RD	4	1	3,209,082:60:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
755	95	341	16:16:29.866	175IN422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	2RD	4	1	3,209,082:70:0	
756	95	341	16:16:29.866		:29.8	866 DMS: *RU		2RD	4	1	3,209,082:70:0	
757	95	341	16:16:31.200	117IJ105A106E4B	7STRP	0.046032,0.0,0,0	Slew =,3.16	2RD	4	1	3,209,082:72:0	
758	95	341	16:16:35.066		:35.0	066 DMS: *RE		2RD	4	1	3,209,082:77:8	
759	**95**	**341**	**16:16:36.533**	**SWG,1.**	**NIMPBK**	**301CS**	**SSI JOI/NIMS(LM)**	**2RD**	**4**	**1**	**: :**	
760	95	341	16:16:48.533	175IN422A6B	6DMSC	RDY,0	DMS Control Tape stop	2RD	4	1	3,209,083:07:0	
761	95	341	16:16:48.533		:48.5	533 DMS: *RU		2RD	4	1	3,209,083:07:0	
762	95	341	16:16:49.200	117IJ105A106F4A	7STRP	-0.0065,-0.00731	Slew =,6.42	2RD	4	1	3,209,083:08:0	
763	**95**	**341**	**16:16:49.866**	**NIMS2;**	**DESELC**	**300CS**	**SSI JOI/NIMS(LM)**	**2RD**	**4**	**1**	**: :**	
764	95	341	16:16:51.200		:51.2	200 DMS: *RE		2RD	4	1	3,209,083:11:0	
765	95	341	16:16:53.200		:53.2	200 DMS: *RU		2RD	4	1	3,209,083:14:0	
766	95	341	16:16:53.200	175IO422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	2RD	4	1	3,209,083:14:0	
767	95	341	16:16:56.533	117IJ105A106F4B	7STRP	0.029008,0.0,0,0	Slew =,3.16	2RD	4	1	3,209,083:19:0	
768	95	341	16:16:58.400		:58.4	400 DMS: *RE		2RD	4	1	3,209,083:21:8	
769	**95**	**341**	**16:16:59.866**	**SWG,1.**	**NIMPBK**	**301CT**	**SSI JOI/NIMS(LM)**	**2RD**	**4**	**1**	**: :**	
770	95	341	16:17:07.200		:07.2	200 DMS: *RU		2RD	4	1	3,209,083:35:0	
771	95	341	16:17:07.200	175IO422A6B	6DMSC	RDY,0	DMS Control Tape stop	2RD	4	1	3,209,083:35:0	
772	**95**	**341**	**16:17:08.533**	**NIMS2;**	**DESELC**	**300CT**	**SSI JOI/NIMS(LM)**	**2RD**	**4**	**1**	**: :**	
773	95	341	16:17:09.200	117IJ11A	**CSMOS**	GE	***** GROUP END CSMOS	2RD	4	1	3,209,083:38:0	
774	95	341	16:17:09.866	176PF6A	6TMCHG	NCGLPW	NO CHANGE / 7.68 KBPS LOW RATE SCI-PWS-NIM	2RD	4	1	3,209,083:39:0	
775	95	341	16:17:09.866		:09.8	866 DMS: *RE		2RD	4	1	3,209,083:39:0	
776	95	341	16:17:10.533		:10.5	533 DMS: *RU		2RD	4	1	3,209,083:40:0	
777	95	341	16:17:10.533	175PF422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2RD	4	1	3,209,083:40:0	
778	95	341	16:17:12.000		:12.0	000 DMS: *RE		2RD	4	1	3,209,083:42:2	
779	95	341	16:17:46.533	165JJ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2RD	4	1	3,209,084:03:0	
780	95	341	16:17:47.200	165JJ4B	7SCAN	NORM,250.883999,	Check S/P Position	2RD	4	1	3,209,084:04:0	
781	**95**	**341**	**16:17:48.000**	**JAINGLOBAL01-**		**-----START------**		**2RD**	**4**	**1**	**: :**	
782	95	341	16:18:39.200	117JJ	**CSMOS**	GS	***** GROUP START CSMOS	2RD	4	1	3,209,084:82:0	
783	**95**	**341**	**16:18:40.533**	**157JJ156A121A4A**	**37IOP**	**7,21**	**Fixed Map, Grating Start Position =21**	**2R7**	**4**	**21**	**3,209,084:84:0**	
784	95	341	16:18:43.200	175PF422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R7	4	21	3,209,084:88:0	
785	95	341	16:18:43.200		:43.2	200 DMS: *RU		2R7	4	21	3,209,084:88:0	
786	95	341	16:18:44.466		:44.4	466 DMS: *RE		2R7	4	21	3,209,084:89:9	
787	95	341	16:18:44.533		:44.5	533 DMS: *RU		2R7	4	21	3,209,084:90:0	
788	95	341	16:18:44.533	175JC422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	2R7	4	21	3,209,084:90:0	
789	95	341	16:18:45.200	176JC6A	6TMCHG	**NCGMPW**	NO CHANGE / 28.8 KBPS PWS + NIMS RECORD	2R7	4	21	3,209,085:00:0	
790	95	341	16:18:47.200	165JJ4C	7VECT		Inert vect update UTC	2R7	4	21	3,209,085:03:0	
791	95	341	16:18:47.866	165JJ4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	2R7	4	21	3,209,085:04:0	
792	95	341	16:18:48.533	117JJ105A106A4A	7STRP	0.037017,0.0,0,0	Slew =,0.76	2R7	4	21	3,209,085:05:0	
793	95	341	16:18:48.533		:48.5	533 DMS: *RE		2R7	4	21	3,209,085:05:0	
794	**95**	**341**	**16:18:49.866**	**SWG,1.**	**NIMPBK**	**301JJ**	**IO GLOBAL MOSAIC (XM)**	**2R7**	**4**	**21**	**: :**	
795	95	341	16:19:41.866	117JJ105A106B4A	7STRP	-0.042025,-0.008	Slew =10.49	2R7	4	21	3,209,085:85:0	
796	95	341	16:19:50.533	117JJ105A106B4B	7STRP	0.046534,0.0,0,0	Slew =,0.76	2R7	4	21	3,209,086:07:0	
797	95	341	16:20:57.200	117JJ105A106C4A	7STRP	-0.048037,-0.008	Slew =10.49	2R7	4	21	3,209,087:16:0	
798	95	341	16:21:05.866	117JJ105A106C4B	7STRP	0.04954,0.0,0,0,	Slew =,0.76	2R7	4	21	3,209,087:29:0	
799	95	341	16:22:16.533	117JJ105A106D4A	7STRP	-0.049841,-0.008	Slew =10.49	2R7	4	21	3,209,088:44:0	
800	95	341	16:22:25.200	117JJ105A106D4B	7STRP	0.050042,0.0,0,0	Slew =,0.76	2R7	4	21	3,209,088:57:0	
801	95	341	16:23:36.533	117JJ105A106E4A	7STRP	-0.048237,-0.008	Slew =10.49	2R7	4	21	3,209,089:73:0	
802	95	341	16:23:45.200	117JJ105A106E4B	7STRP	0.046233,0.0,0,0	Slew =,0.76	2R7	4	21	3,209,089:86:0	
803	95	341	16:24:51.200	117JJ105A106F4A	7STRP	-0.040823,-0.008	Slew =10.49	2R7	4	21	3,209,091:03:0	
804	95	341	16:24:58.533	117JJ105A106F4B	7STRP	0.035615,0.0,0,0	Slew =,0.76	2R7	4	21	3,209,091:14:0	
805	95	341	16:25:49.866		:49.8	866 DMS: *RU		2R7	4	21	3,209,092:00:0	
806	95	341	16:25:49.866	175JC422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R7	4	21	3,209,092:00:0	
807	95	341	16:25:49.866	117JJ11A	**CSMOS**	GE	***** GROUP END CSMOS	2R7	4	21	3,209,092:00:0	
808	95	341	16:25:49.866	176PG6A	6TMCHG	NCGLPW	NO CHANGE / 7.68 KBPS LOW RATE SCI-PWS-NIM	2R7	4	21	3,209,092:00:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
809	95	341	16:25:51.066		:51.0	066 DMS: *RE		2R7	4	21	3,209,092:01:8
810	95	341	16:25:51.200	175PG422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R7	4	21	3,209,092:02:0
811	**95**	**341**	**16:25:51.200**	**NIMS2;**	**DESELC**	**300JJ**	**IO GLOBAL**	**2R7**	**4**	**21**	**: :**
812	95	341	16:25:51.200		:51.2	200 DMS: *RU		2R7	4	21	3,209,092:02:0
813	**95**	**341**	**16:25:52.000**	**JAINGLOBAL01-**		**-----STOP-------**		**2R7**	**4**	**21**	**: :**
814	95	341	16:25:52.666		:52.6	666 DMS: *RE		2R7	4	21	3,209,092:04:2
815	95	341	16:29:14.533	165LJ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R7	4	21	3,209,095:34:0
816	95	341	16:29:15.200	165LJ4B	7SCAN	NORM,251.434999,	Check S/P Position	2R7	4	21	3,209,095:35:0
817	95	341	16:29:47.200	117LJ	**CSMOS**	GS	***** GROUP START CSMOS	2R7	4	21	3,209,095:83:0
818	95	341	16:29:55.200	165LJ4C	7VECT		Inert vect update UTC	2R7	4	21	3,209,096:04:0
819	95	341	16:29:55.866	165LJ4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	2R7	4	21	3,209,096:05:0
820	95	341	16:29:56.533	117LJ105A106A4A	7STRP	0.042025,0.0,0,0	Slew =,3.01	2R7	4	21	3,209,096:06:0
821	95	341	16:30:14.533	117LJ105A106A4B	7STRP	-0.042025,-0.001	Slew =11.95	2R7	4	21	3,209,096:33:0
822	95	341	16:30:21.866	117LJ105A106A4C	7STRP	0.042025,0.0,0,0	Slew =,3.01	2R7	4	21	3,209,096:44:0
823	95	341	16:30:39.866	117LJ105A106A4D	7STRP	-0.042025,-0.001	Slew =11.95	2R7	4	21	3,209,096:71:0
824	95	341	16:30:47.200	117LJ105A106A4E	7STRP	0.042025,0.0,0,0	Slew =,3.01	2R7	4	21	3,209,096:82:0
825	95	341	16:31:05.200	117LJ105A106A4F	7STRP	-0.042025,-0.001	Slew =11.95	2R7	4	21	3,209,097:18:0
826	95	341	16:31:12.533	117LJ105A106A4G	7STRP	0.042025,0.0,0,0	Slew =,3.01	2R7	4	21	3,209,097:29:0
827	95	341	16:31:30.533	117LJ105A106A4H	7STRP	-0.042025,-0.001	Slew =11.95	2R7	4	21	3,209,097:56:0
828	95	341	16:31:37.866	117LJ105A106A4I	7STRP	0.042025,0.0,0,0	Slew =,3.01	2R7	4	21	3,209,097:67:0
829	95	341	16:31:55.866	117LJ105A106A4J	7STRP	-0.042025,-0.001	Slew =11.95	2R7	4	21	3,209,098:03:0
830	95	341	16:32:03.200	117LJ105A106A4K	7STRP	0.042025,0.0,0,0	Slew =,3.01	2R7	4	21	3,209,098:14:0
831	95	341	16:32:21.200	117LJ105A106B4A	7STRP	-0.053551,-0.001	Slew =11.95	2R7	4	21	3,209,098:41:0
832	95	341	16:32:29.866	117LJ105A106B4B	7STRP	0.065092,0.0,0,0	Slew =,3.01	2R7	4	21	3,209,098:54:0
833	95	341	16:32:55.866	117LJ105A106C4A	7STRP	-0.064088,-0.001	Slew =11.95	2R7	4	21	3,209,099:02:0
834	95	341	16:33:05.866	117LJ105A106C4B	7STRP	0.064088,0.0,0,0	Slew =,3.01	2R7	4	21	3,209,099:17:0
835	95	341	16:33:31.866	117LJ105A106C4C	7STRP	-0.064088,-0.001	Slew =11.95	2R7	4	21	3,209,099:56:0
836	95	341	16:33:41.866	117LJ105A106C4D	7STRP	0.064088,0.0,0,0	Slew =,3.01	2R7	4	21	3,209,099:71:0
837	95	341	16:34:07.866	117LJ105A106C4E	7STRP	-0.064088,-0.001	Slew =11.95	2R7	4	21	3,209,100:19:0
838	95	341	16:34:17.866	117LJ105A106C4F	7STRP	0.064088,0.0,0,0	Slew =,3.01	2R7	4	21	3,209,100:34:0
839	95	341	16:34:43.866	117LJ105A106C4G	7STRP	-0.064088,-0.001	Slew =11.95	2R7	4	21	3,209,100:73:0
840	95	341	16:34:53.866	117LJ105A106C4H	7STRP	0.064088,0.0,0,0	Slew =,3.01	2R7	4	21	3,209,100:88:0
841	95	341	16:35:19.866	117LJ105A106C4I	7STRP	-0.064088,-0.001	Slew =11.95	2R7	4	21	3,209,101:36:0
842	95	341	16:35:29.866	117LJ105A106C4J	7STRP	0.064088,0.0,0,0	Slew =,3.01	2R7	4	21	3,209,101:51:0
843	95	341	16:35:55.866	117LJ105A106C4K	7STRP	-0.064088,-0.001	Slew =11.95	2R7	4	21	3,209,101:90:0
844	95	341	16:36:05.866	117LJ105A106C4L	7STRP	0.064088,0.0,0,0	Slew =,3.01	2R7	4	21	3,209,102:14:0
845	95	341	16:36:31.866	117LJ105A106C4M	7STRP	-0.064088,-0.001	Slew =11.95	2R7	4	21	3,209,102:53:0
846	95	341	16:36:41.866	117LJ105A106C4N	7STRP	0.064088,0.0,0,0	Slew =,3.01	2R7	4	21	3,209,102:68:0
847	95	341	16:37:07.866	117LJ105A106C4O	7STRP	-0.064088,-0.001	Slew =11.95	2R7	4	21	3,209,103:16:0
848	95	341	16:37:17.866	117LJ105A106C4P	7STRP	0.064088,0.0,0,0	Slew =,3.01	2R7	4	21	3,209,103:31:0
849	95	341	16:37:43.866	117LJ105A106C4Q	7STRP	-0.064088,-0.001	Slew =11.95	2R7	4	21	3,209,103:70:0
850	95	341	16:37:53.866	117LJ105A106C4R	7STRP	0.064088,0.0,0,0	Slew =,3.01	2R7	4	21	3,209,103:85:0
851	95	341	16:38:19.866	117LJ105A106C4S	7STRP	-0.064088,-0.001	Slew =11.95	2R7	4	21	3,209,104:33:0
852	95	341	16:38:29.866	117LJ105A106C4T	7STRP	0.064088,0.0,0,0	Slew =,3.01	2R7	4	21	3,209,104:48:0
853	95	341	16:38:55.866	117LJ105A106C4U	7STRP	-0.064088,-0.001	Slew =11.95	2R7	4	21	3,209,104:87:0
854	95	341	16:39:05.866	117LJ105A106C4V	7STRP	0.064088,0.0,0,0	Slew =,3.01	2R7	4	21	3,209,105:11:0
855	95	341	16:39:31.866	117LJ105A106C4W	7STRP	-0.064088,-0.001	Slew =11.95	2R7	4	21	3,209,105:50:0
856	95	341	16:39:41.866	117LJ105A106C4X	7STRP	0.064088,0.0,0,0	Slew =,3.01	2R7	4	21	3,209,105:65:0
857	95	341	16:40:07.866	117LJ105A106C4Y	7STRP	-0.064088,-0.001	Slew =11.95	2R7	4	21	3,209,106:13:0
858	95	341	16:40:17.866	117LJ105A106C4Z	7STRP	0.064088,0.0,0,0	Slew =,3.01	2R7	4	21	3,209,106:28:0
859	95	341	16:40:43.866	117LJ105A106C4AA	7STRP	-0.064088,-0.001	Slew =11.95	2R7	4	21	3,209,106:67:0
860	95	341	16:40:53.866	117LJ105A106C4AB	7STRP	0.064088,0.0,0,0	Slew =,3.01	2R7	4	21	3,209,106:82:0
861	95	341	16:41:19.866	117LJ105A106C4AC	7STRP	-0.064088,-0.001	Slew =11.95	2R7	4	21	3,209,107:30:0
862	95	341	16:41:29.866	117LJ105A106C4AD	7STRP	0.064088,0.0,0,0	Slew =,3.01	2R7	4	21	3,209,107:45:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
863	95	341	16:41:55.866	117LJ105A106C4AE	7STRP	-0.064088,-0.001	Slew =11.95	2R7	4	21	3,209,107:84:0	
864	95	341	16:42:05.866	117LJ105A106C4AF	7STRP	0.064088,0.0,0,0	Slew =,3.01	2R7	4	21	3,209,108:08:0	
865	95	341	16:42:31.866	117LJ105A106C4AG	7STRP	-0.064088,-0.001	Slew =11.95	2R7	4	21	3,209,108:47:0	
866	95	341	16:42:41.866	117LJ105A106C4AH	7STRP	0.064088,0.0,0,0	Slew =,3.01	2R7	4	21	3,209,108:62:0	
867	95	341	16:42:54.933		:54.9	933 DMS: *RE		2R7	4	21	3,209,108:81:6	
868	95	341	16:42:57.666		:57.6	666 DMS: *RE		2R7	4	21	3,209,108:85:7	
869	95	341	16:43:07.866	117LJ105A106C4AI	7STRP	-0.064088,-0.001	Slew =11.95	2R7	4	21	3,209,109:10:0	
870	95	341	16:43:17.866	117LJ105A106C4AJ	7STRP	0.064088,0.0,0,0	Slew =,3.01	2R7	4	21	3,209,109:25:0	
871	95	341	16:43:43.866	117LJ105A106C4AK	7STRP	-0.064088,-0.001	Slew =11.95	2R7	4	21	3,209,109:64:0	
872	95	341	16:43:53.866	117LJ105A106C4AL	7STRP	0.064088,0.0,0,0	Slew =,3.01	2R7	4	21	3,209,109:79:0	
873	95	341	16:44:19.866	117LJ105A106C4AM	7STRP	-0.064088,-0.001	Slew =11.95	2R7	4	21	3,209,110:27:0	
874	95	341	16:44:29.866	117LJ105A106C4AN	7STRP	0.064088,0.0,0,0	Slew =,3.01	2R7	4	21	3,209,110:42:0	
875	95	341	16:44:55.866	117LJ105A106C4AO	7STRP	-0.064088,-0.001	Slew =11.95	2R7	4	21	3,209,110:81:0	
876	95	341	16:45:05.866	117LJ105A106C4AP	7STRP	0.064088,0.0,0,0	Slew =,3.01	2R7	4	21	3,209,111:05:0	
877	95	341	16:45:31.866	117LJ105A106C4AQ	7STRP	-0.064088,-0.001	Slew =11.95	2R7	4	21	3,209,111:44:0	
878	95	341	16:45:41.866	117LJ105A106C4AR	7STRP	0.064088,0.0,0,0	Slew =,3.01	2R7	4	21	3,209,111:59:0	
879	95	341	16:46:07.866	117LJ105A106C4AS	7STRP	-0.064088,-0.001	Slew =11.95	2R7	4	21	3,209,112:07:0	
880	95	341	16:46:17.866	117LJ105A106C4AT	7STRP	0.064088,0.0,0,0	Slew =,3.01	2R7	4	21	3,209,112:22:0	
881	95	341	16:46:43.866	117LJ105A106C4AU	7STRP	-0.064088,-0.001	Slew =11.95	2R7	4	21	3,209,112:61:0	
882	95	341	16:46:53.866	117LJ105A106C4AV	7STRP	0.064088,0.0,0,0	Slew =,3.01	2R7	4	21	3,209,112:76:0	
883	95	341	16:47:19.866	117LJ105A106C4AW	7STRP	-0.064088,-0.001	Slew =11.95	2R7	4	21	3,209,113:24:0	
884	95	341	16:47:29.866	117LJ105A106C4AX	7STRP	0.064088,0.0,0,0	Slew =,3.01	2R7	4	21	3,209,113:39:0	
885	95	341	16:47:55.866	117LJ105A106C4AY	7STRP	-0.064088,-0.001	Slew =11.95	2R7	4	21	3,209,113:78:0	
886	95	341	16:48:05.866	117LJ105A106C4AZ	7STRP	0.064088,0.0,0,0	Slew =,3.01	2R7	4	21	3,209,114:02:0	
887	95	341	16:48:31.866	117LJ105A106C4BA	7STRP	-0.064088,-0.001	Slew =11.95	2R7	4	21	3,209,114:41:0	
888	95	341	16:48:41.866	117LJ105A106C4BB	7STRP	0.064088,0.0,0,0	Slew =,3.01	2R7	4	21	3,209,114:56:0	
889	95	341	16:49:07.866	117LJ105A106C4BC	7STRP	-0.064088,-0.001	Slew =11.95	2R7	4	21	3,209,115:04:0	
890	95	341	16:49:17.866	117LJ105A106C4BD	7STRP	0.064088,0.0,0,0	Slew =,3.01	2R7	4	21	3,209,115:19:0	
891	95	341	16:49:43.866	117LJ105A106C4BE	7STRP	-0.064088,-0.001	Slew =11.95	2R7	4	21	3,209,115:58:0	
892	95	341	16:49:53.866	117LJ105A106C4BF	7STRP	0.064088,0.0,0,0	Slew =,3.01	2R7	4	21	3,209,115:73:0	
893	95	341	16:50:19.866	117LJ105A106C4BG	7STRP	-0.064088,-0.001	Slew =11.95	2R7	4	21	3,209,116:21:0	
894	95	341	16:50:29.866	117LJ105A106C4BH	7STRP	0.064088,0.0,0,0	Slew =,3.01	2R7	4	21	3,209,116:36:0	
895	95	341	16:50:55.866	117LJ105A106C4BI	7STRP	-0.064088,-0.001	Slew =11.95	2R7	4	21	3,209,116:75:0	
896	95	341	16:51:05.866	117LJ105A106C4BJ	7STRP	0.064088,0.0,0,0	Slew =,3.01	2R7	4	21	3,209,116:90:0	
897	95	341	16:51:31.866	117LJ105A106C4BK	7STRP	-0.064088,-0.001	Slew =11.95	2R7	4	21	3,209,117:38:0	
898	95	341	16:51:41.866	117LJ105A106C4BL	7STRP	0.064088,0.0,0,0	Slew =,3.01	2R7	4	21	3,209,117:53:0	
899	95	341	16:52:07.866	117LJ105A106C4BM	7STRP	-0.064088,-0.001	Slew =11.95	2R7	4	21	3,209,118:01:0	
900	95	341	16:52:17.866	117LJ105A106C4BN	7STRP	0.064088,0.0,0,0	Slew =,3.01	2R7	4	21	3,209,118:16:0	
901	95	341	16:52:43.866	117LJ105A106D4A	7STRP	-0.051546,-0.001	Slew =11.95	2R7	4	21	3,209,118:55:0	
902	95	341	16:52:52.533	117LJ105A106D4B	7STRP	0.040021,0.0,0,0	Slew =,3.01	2R7	4	21	3,209,118:68:0	
903	95	341	16:53:10.533	117LJ105A106E4A	7STRP	-0.040021,-0.001	Slew =11.95	2R7	4	21	3,209,119:04:0	
904	95	341	16:53:18.533	117LJ105A106E4B	7STRP	0.040021,0.0,0,0	Slew =,3.01	2R7	4	21	3,209,119:16:0	
905	95	341	16:53:35.866	117LJ105A106E4C	7STRP	-0.040021,-0.001	Slew =11.95	2R7	4	21	3,209,119:42:0	
906	95	341	16:53:43.866	117LJ105A106E4D	7STRP	0.040021,0.0,0,0	Slew =,3.01	2R7	4	21	3,209,119:54:0	
907	95	341	16:54:01.200	117LJ105A106E4E	7STRP	-0.040021,-0.001	Slew =11.95	2R7	4	21	3,209,119:80:0	
908	95	341	16:54:09.200	117LJ105A106E4F	7STRP	0.040021,0.0,0,0	Slew =,3.01	2R7	4	21	3,209,120:01:0	
909	95	341	16:54:26.533	117LJ105A106E4G	7STRP	-0.040021,-0.001	Slew =11.95	2R7	4	21	3,209,120:27:0	
910	95	341	16:54:34.533	117LJ105A106E4H	7STRP	0.040021,0.0,0,0	Slew =,3.01	2R7	4	21	3,209,120:39:0	
911	95	341	16:54:51.866	117LJ105A106E4I	7STRP	-0.040021,-0.001	Slew =11.95	2R7	4	21	3,209,120:65:0	
912	95	341	16:54:59.866	117LJ105A106E4J	7STRP	0.040021,0.0,0,0	Slew =,3.01	2R7	4	21	3,209,120:77:0	
913	95	341	16:55:12.533		:12.5	533 DMS: *RU		2R7	4	21	3,209,121:05:0	
914	95	341	16:55:12.533	175PG422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R7	4	21	3,209,121:05:0	
915	95	341	16:55:13.800		:13.8	800 DMS: *RE		2R7	4	21	3,209,121:06:9	
916	95	341	16:55:13.866	175NB422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	2R7	4	21	3,209,121:07:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
917	95	341	16:55:13.866		:13.8	866 DMS: *RU		2R7	4	21	3,209,121:07:0	
918	95	341	16:55:17.200	117LJ11A	**CSMOS**	GE	***** GROUP END CSMOS	2R7	4	21	3,209,121:12:0	
919	95	341	16:55:17.866		:17.8	866 DMS: *RE		2R7	4	21	3,209,121:13:0	
920	95	341	16:55:17.866	176NB6A	6TMCHG	NCGMPP	NO CHANGE / 28.8 KBPS PWS RECORD	2R7	4	21	3,209,121:13:0	
921	95	341	16:55:46.533	165JK4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R7	4	21	3,209,121:56:0	
922	95	341	16:55:47.200	165JK4B	7SCAN	NORM,250.679998,	Check S/P Position	2R7	4	21	3,209,121:57:0	
923	**95**	**341**	**16:55:48.000**	**JAINHRCHEM01-**		**-----START------**		**2R7**	**4**	**21**	**: :**	
924	**95**	**341**	**16:56:05.200**	**128JK149A131A4A**	**37IOP**	**5,1**	**Short Map, Grating Start Position =01**	**2R5**	**4**	**1**	**3,209,121:84:0**	
925	95	341	16:56:11.866	117JK	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,209,122:03:0	
926	95	341	16:56:18.533	176JD6A	6TMCHG	**NCGMPW**	NO CHANGE / 28.8 KBPS PWS + NIMS RECORD	2R5	4	1	3,209,122:13:0	
927	95	341	16:56:19.866	165JK4C	7VECT		Inert vect update UTC	2R5	4	1	3,209,122:15:0	
928	95	341	16:56:20.533	165JK4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	2R5	4	1	3,209,122:16:0	
929	95	341	16:56:21.200	117JK105A106A4A	7STRP	0.028007,0.0,0,0	Slew =,0.12	2R5	4	1	3,209,122:17:0	
930	**95**	**341**	**16:56:22.533**	**SWG,1.**	**NIMPBK**	**301JK**	**IO HRCHEM (SM)**	**2R5**	**4**	**1**	**: :**	
931	95	341	17:00:27.866	117JK105A106B4A	7STRP	-0.026006,-0.008	Slew =,4.79	2R5	4	1	3,209,126:23:0	
932	95	341	17:00:36.533	117JK105A106B4B	7STRP	0.026006,0.0,0,0	Slew =,0.12	2R5	4	1	3,209,126:36:0	
933	95	341	17:04:25.866		:25.8	866 DMS: *RU		2R5	4	1	3,209,130:16:0	
934	95	341	17:04:25.866	175NB422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,209,130:16:0	
935	95	341	17:04:27.066		:27.0	066 DMS: *RE		2R5	4	1	3,209,130:17:8	
936	95	341	17:04:27.200	117JK11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,209,130:18:0	
937	**95**	**341**	**17:04:27.200**	**NIMS2;**	**DESELC**	**300JK**	**IO HRCHEM**	**2R5**	**4**	**1**	**: :**	
938	**95**	**341**	**17:04:28.000**	**JAINHRCHEM01-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**	
939	95	341	17:04:31.200		:31.2	200 DMS: *RU		2R5	4	1	3,209,130:24:0	
940	95	341	17:04:31.200	175PH422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,209,130:24:0	
941	95	341	17:04:32.533	176PH6A	6TMCHG	NCGLPW	NO CHANGE / 7.68 KBPS LOW RATE SCI-PWS-NIM	2R5	4	1	3,209,130:26:0	
942	95	341	17:04:32.666		:32.6	666 DMS: *RE		2R5	4	1	3,209,130:26:2	
943	95	341	17:05:21.866	117LK	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,209,131:09:0	
944	95	341	17:05:46.533	165LK4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,209,131:46:0	
945	95	341	17:05:47.200	165LK4B	7SCAN	NORM,251.862999,	Check S/P Position	2R5	4	1	3,209,131:47:0	
946	95	341	17:06:12.533	165LK4C	7VECT		Inert vect update UTC	2R5	4	1	3,209,131:85:0	
947	95	341	17:06:13.200	165LK4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	2R5	4	1	3,209,131:86:0	
948	95	341	17:06:13.866	117LK105A106A4A	7STRP	0.005,0.0,0,0,0,	Slew =,0.06	2R5	4	1	3,209,131:87:0	
949	95	341	17:07:44.533	117LK105A106B4A	7STRP	-0.007,0.0013,0,	Slew =,3.44	2R5	4	1	3,209,133:41:0	
950	95	341	17:07:50.533	117LK105A106B4B	7STRP	0.008,0.0,0,0,0,	Slew =,0.06	2R5	4	1	3,209,133:50:0	
951	95	341	17:10:11.866	117LK105A106C4A	7STRP	-0.009,0.0015,0,	Slew =,3.44	2R5	4	1	3,209,135:80:0	
952	95	341	17:10:17.866	117LK105A106C4B	7STRP	0.01,0.0,0,0,0,0	Slew =,0.06	2R5	4	1	3,209,135:89:0	
953	95	341	17:13:14.533	117LK105A106D4A	7STRP	-0.0103,0.0015,0	Slew =,3.44	2R5	4	1	3,209,138:81:0	
954	95	341	17:13:21.200	117LK105A106D4B	7STRP	0.011601,0.0,0,0	Slew =,0.06	2R5	4	1	3,209,139:00:0	
955	95	341	17:16:45.200	117LK105A106E4A	7STRP	-0.013001,0.0019	Slew =,3.44	2R5	4	1	3,209,142:33:0	
956	95	341	17:16:52.533	117LK105A106E4B	7STRP	0.012001,0.0,0,0	Slew =,0.06	2R5	4	1	3,209,142:44:0	
957	95	341	17:20:23.866	117LK105A106F4A	7STRP	-0.009,0.0021,0,	Slew =,3.44	2R5	4	1	3,209,145:88:0	
958	95	341	17:20:29.866	117LK105A106F4B	7STRP	0.004,0.0,0,0,0,	Slew =,0.06	2R5	4	1	3,209,146:06:0	
959	95	341	17:21:46.533	117LK11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,209,147:30:0	
960	95	341	17:23:06.533	165IP4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,209,148:59:0	
961	95	341	17:23:07.200	165IP4B	7SCAN	NORM,263.580997,	Check S/P Position	2R5	4	1	3,209,148:60:0	
962	**95**	**341**	**17:24:23.866**	**128JL149A131A4A**	**37SS**	**0,1,0,0,15,0,12**	**Special Sequence (loads PTABs for modes 12**	**2R5**	**4**	**1**	**3,209,149:84:0**	
963	**95**	**341**	**17:25:24.533**	**128JL149A131B4A**	**37SS**	**1,1,0,0,15,0,12**	**Special Sequence (loads PTABs for modes 12**	**2R5**	**4**	**1**	**3,209,150:84:0**	
964	95	341	17:25:35.200	117IP	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,209,151:09:0	
965	95	341	17:25:53.200	175PH422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,209,151:36:0	
966	95	341	17:25:53.200		:53.2	200 DMS: *RU		2R5	4	1	3,209,151:36:0	
967	95	341	17:25:54.466		:54.4	466 DMS: *RE		2R5	4	1	3,209,151:37:9	
968	95	341	17:25:54.533	175IP422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	2R5	4	1	3,209,151:38:0	
969	95	341	17:25:54.533		:54.5	533 DMS: *RU		2R5	4	1	3,209,151:38:0	
970	95	341	17:25:55.200	176IP6A	6TMCHG	NCGAI8	NO CHANGE / 806.4 KBPS SSI + 1/8 NIMS RECO	2R5	4	1	3,209,151:39:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
971	95	341	17:25:55.866	165IP4C	7VECT		Inert vect update UTC	2R5	4	1	3,209,151:40:0	
972	95	341	17:25:56.533	165IP4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	2R5	4	1	3,209,151:41:0	
973	95	341	17:25:57.866	117IP105A106A4A	7STRP	0.019002,0.0,0,0	Slew =,3.15	2R5	4	1	3,209,151:43:0	
974	95	341	17:25:59.733		:59.7	733 DMS: *RE		2R5	4	1	3,209,151:45:8	
975	**95**	**341**	**17:26:01.200**	**SWG,1.**	**NIMPBK**	**301CU**	**SSI JOI/NIMS(SM)**	**2R5**	**4**	**1**	**: :**	
976	95	341	17:26:06.533		:06.5	533 DMS: *RU		2R5	4	1	3,209,151:56:0	
977	95	341	17:26:06.533	175IP422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,209,151:56:0	
978	95	341	17:26:07.200	117IP105A106A4B	7STRP	0.002,-0.007313,	Slew =0,8.0	2R5	4	1	3,209,151:57:0	
979	**95**	**341**	**17:26:07.866**	**NIMS2;**	**DESELC**	**300CU**	**SSI JOI/NIMS(SM)**	**2R5**	**4**	**1**	**: :**	
980	95	341	17:26:09.200		:09.2	200 DMS: *RE		2R5	4	1	3,209,151:60:0	
981	95	341	17:26:13.200	175IQ422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	2R5	4	1	3,209,151:66:0	
982	95	341	17:26:13.200		:13.2	200 DMS: *RU		2R5	4	1	3,209,151:66:0	
983	95	341	17:26:16.533	117IP105A106A4C	7STRP	0.019002,0.0,0,0	Slew =,3.15	2R5	4	1	3,209,151:71:0	
984	95	341	17:26:18.400		:18.4	400 DMS: *RE		2R5	4	1	3,209,151:73:8	
985	**95**	**341**	**17:26:19.866**	**SWG,1.**	**NIMPBK**	**301CW**	**SSI JOI/NIMS(SM)**	**2R5**	**4**	**1**	**: :**	
986	95	341	17:26:25.200		:25.2	200 DMS: *RU		2R5	4	1	3,209,151:84:0	
987	**95**	**341**	**17:26:25.200**	**128JL149A131C4A**	**37IOP**	**13,1**	**Special Sequence 2, Grating Start Position**	**2RD**	**4**	**1**	**3,209,151:84:0**	
988	95	341	17:26:25.200	175IQ422A6B	6DMSC	RDY,0	DMS Control Tape stop	2RD	4	1	3,209,151:84:0	
989	95	341	17:26:25.866	117IP11A	**CSMOS**	GE	***** GROUP END CSMOS	2RD	4	1	3,209,151:85:0	
990	**95**	**341**	**17:26:26.000**	**JAINMTMESA01-**		**-----START------**		**2RD**	**4**	**1**	**: :**	
991	95	341	17:26:26.533	165JL4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2RD	4	1	3,209,151:86:0	
992	**95**	**341**	**17:26:26.533**	**NIMS2;**	**DESELC**	**300CW**	**SSI JOI/NIMS(SM)**	**2RD**	**4**	**1**	**: :**	
993	95	341	17:26:27.200	165JL4B	7SCAN	NORM,264.230999,	Check S/P Position	2RD	4	1	3,209,151:87:0	
994	95	341	17:26:27.866		:27.8	866 DMS: *RE		2RD	4	1	3,209,151:88:0	
995	95	341	17:26:28.533		:28.5	533 DMS: *RU		2RD	4	1	3,209,151:89:0	
996	95	341	17:26:28.533	175PI422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2RD	4	1	3,209,151:89:0	
997	95	341	17:26:29.866	176PI6A	6TMCHG	NCGLPW	NO CHANGE / 7.68 KBPS LOW RATE SCI-PWS-NIM	2RD	4	1	3,209,152:00:0	
998	95	341	17:26:30.000		:30.0	000 DMS: *RE		2RD	4	1	3,209,152:00:2	
999	95	341	17:26:35.866	117JL	**CSMOS**	GS	***** GROUP START CSMOS	2RD	4	1	3,209,152:09:0	
1000	95	341	17:26:42.533		:42.5	533 DMS: *RU		2RD	4	1	3,209,152:19:0	
1001	95	341	17:26:42.533	175PI422A6B	6DMSC	RDY,0	DMS Control Tape stop	2RD	4	1	3,209,152:19:0	
1002	95	341	17:26:43.800		:43.8	800 DMS: *RE		2RD	4	1	3,209,152:20:9	
1003	95	341	17:26:43.866		:43.8	866 DMS: *RU		2RD	4	1	3,209,152:21:0	
1004	95	341	17:26:43.866	175JH422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	2RD	4	1	3,209,152:21:0	
1005	95	341	17:26:47.200	165JL4C	7VECT		Inert vect update UTC	2RD	4	1	3,209,152:26:0	
1006	95	341	17:26:47.200	176JH6A	6TMCHG	**NCGMPW**	NO CHANGE / 28.8 KBPS PWS + NIMS RECORD	2RD	4	1	3,209,152:26:0	
1007	95	341	17:26:47.866	165JL4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	2RD	4	1	3,209,152:27:0	
1008	95	341	17:26:47.866		:47.8	866 DMS: *RE		2RD	4	1	3,209,152:27:0	
1009	95	341	17:26:48.533	117JL105A106A4A	7STRP	0.00125,0.0,0,0,	Slew =,0.06	2RD	4	1	3,209,152:28:0	
1010	**95**	**341**	**17:26:49.200**	**SWG,1.**	**NIMPBK**	**301JL**	**MOUNTAIN MESA (FMSS2)**	**2RD**	**4**	**1**	**: :**	
1011	95	341	17:27:17.866		:17.8	866 DMS: *RU		2RD	4	1	3,209,152:72:0	
1012	95	341	17:27:17.866	175JH422A6B	6DMSC	RDY,0	DMS Control Tape stop	2RD	4	1	3,209,152:72:0	
1013	95	341	17:27:18.533	117JL11A	**CSMOS**	GE	***** GROUP END CSMOS	2RD	4	1	3,209,152:73:0	
1014	95	341	17:27:19.066		:19.0	066 DMS: *RE		2RD	4	1	3,209,152:73:8	
1015	**95**	**341**	**17:27:19.200**	**NIMS2;**	**DESELC**	**300JL**	**IO MESA**	**2RD**	**4**	**1**	**: :**	
1016	95	341	17:27:20.533	175PJ422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2RD	4	1	3,209,152:76:0	
1017	95	341	17:27:20.533		:20.5	533 DMS: *RU		2RD	4	1	3,209,152:76:0	
1018	95	341	17:27:21.866	176PJ6A	6TMCHG	NCGLPW	NO CHANGE / 7.68 KBPS LOW RATE SCI-PWS-NIM	2RD	4	1	3,209,152:78:0	
1019	95	341	17:27:22.000		:22.0	000 DMS: *RE		2RD	4	1	3,209,152:78:2	
1020	**95**	**341**	**17:27:22.000**	**JAINMTMESA01-**		**-----STOP-------**		**2RD**	**4**	**1**	**: :**	
1021	95	341	17:27:47.200	165IR4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2RD	4	1	3,209,153:25:0	
1022	95	341	17:27:47.866	165IR4B	7SCAN	NORM,255.125,-13	Check S/P Position	2RD	4	1	3,209,153:26:0	
1023	95	341	17:28:23.200	117IR	**CSMOS**	GS	***** GROUP START CSMOS	2RD	4	1	3,209,153:79:0	
1024	**95**	**341**	**17:28:26.533**	**128JM149A131A4A**	**37IST**	**0,0,0,OFF,0,1,1**	**Gain State 4**	**4RD**	**4**	**1**	**3,209,153:84:0**	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1025	95	341	17:28:29.866		:29.8	866 DMS: *RU		4RD	4	1	3,209,153:89:0	
1026	95	341	17:28:29.866	175PJ422A6B	6DMSC	RDY,0	DMS Control Tape stop	4RD	4	1	3,209,153:89:0	
1027	95	341	17:28:29.866	165IR4C	7VECT		Inert vect update UTC	4RD	4	1	3,209,153:89:0	
1028	95	341	17:28:30.533	165IR4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	4RD	4	1	3,209,153:90:0	
1029	95	341	17:28:31.133		:31.1	133 DMS: *RE		4RD	4	1	3,209,153:90:9	
1030	95	341	17:28:31.200		:31.2	200 DMS: *RU		4RD	4	1	3,209,154:00:0	
1031	95	341	17:28:31.200	176IR6A	6TMCHG	NCGAI8	NO CHANGE / 806.4 KBPS SSI + 1/8 NIMS RECO	4RD	4	1	3,209,154:00:0	
1032	95	341	17:28:31.200	175IR422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	4RD	4	1	3,209,154:00:0	
1033	95	341	17:28:32.533	117IR105A106A4A	7STRP	0.0112,-0.039401	Slew =,9.98	4RD	4	1	3,209,154:02:0	
1034	95	341	17:28:36.400		:36.4	400 DMS: *RE		4RD	4	1	3,209,154:07:8	
1035	**95**	**341**	**17:28:37.866**	**SWG,1.**	**NIMPBK**	**301CY**	**SSI IO/NIMS(FM)**	**4RD**	**4**	**1**	**: :**	
1036	95	341	17:28:47.866		:47.8	866 DMS: *RU		4RD	4	1	3,209,154:25:0	
1037	95	341	17:28:47.866	175IR422A6B	6DMSC	RDY,0	DMS Control Tape stop	4RD	4	1	3,209,154:25:0	
1038	**95**	**341**	**17:28:49.200**	**NIMS2;**	**DESELC**	**300CY**	**SSI IO/NIMS(FM)**	**4RD**	**4**	**1**	**: :**	
1039	95	341	17:28:50.533		:50.5	533 DMS: *RE		4RD	4	1	3,209,154:29:0	
1040	95	341	17:28:51.200	117IR105A106A4B	7STRP	-0.00731,-0.0005	Slew =,3.71	4RD	4	1	3,209,154:30:0	
1041	95	341	17:28:54.533		:54.5	533 DMS: *RU		4RD	4	1	3,209,154:35:0	
1042	95	341	17:28:54.533	175IS422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	4RD	4	1	3,209,154:35:0	
1043	95	341	17:28:55.866	117IR105A106A4C	7STRP	0.0112,-0.039401	Slew =,9.98	4RD	4	1	3,209,154:37:0	
1044	95	341	17:28:59.733		:59.7	733 DMS: *RE		4RD	4	1	3,209,154:42:8	
1045	**95**	**341**	**17:29:01.200**	**SWG,1.**	**NIMPBK**	**301CZ**	**SSI I0/NIMS(XS)**	**4RD**	**4**	**1**	**: :**	
1046	95	341	17:29:11.200	175IS422A6B	6DMSC	RDY,0	DMS Control Tape stop	4RD	4	1	3,209,154:60:0	
1047	95	341	17:29:11.200		:11.2	200 DMS: *RU		4RD	4	1	3,209,154:60:0	
1048	**95**	**341**	**17:29:12.533**	**NIMS2;**	**DESELC**	**300CZ**	**SSI IO/NIMS(XS)**	**4RD**	**4**	**1**	**: :**	
1049	95	341	17:29:13.866		:13.8	866 DMS: *RE		4RD	4	1	3,209,154:64:0	
1050	95	341	17:29:14.533		:14.5	533 DMS: *RU		4RD	4	1	3,209,154:65:0	
1051	95	341	17:29:14.533	117IR11A	**CSMOS**	GE	***** GROUP END CSMOS	4RD	4	1	3,209,154:65:0	
1052	95	341	17:29:14.533	175PK422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4RD	4	1	3,209,154:65:0	
1053	95	341	17:29:14.533	176PK6A	6TMCHG	NCGLPW	NO CHANGE / 7.68 KBPS LOW RATE SCI-PWS-NIM	4RD	4	1	3,209,154:65:0	
1054	95	341	17:29:16.000		:16.0	000 DMS: *RE		4RD	4	1	3,209,154:67:2	
1055	**95**	**341**	**17:29:22.000**	**JAINLBSCAN01-**		**-----START------**		**4RD**	**4**	**1**	**: :**	
1056	95	341	17:29:22.533	165JM4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4RD	4	1	3,209,154:77:0	
1057	95	341	17:29:23.200	165JM4B	7SCAN	NORM,256.872997,	Check S/P Position	4RD	4	1	3,209,154:78:0	
1058	**95**	**341**	**17:29:27.200**	**128JM149A131B4A**	**37IOP**	**12,15**	**Special Sequence 1, Grating Start Position**	**4RC**	**4**	**15**	**3,209,154:84:0**	
1059	95	341	17:29:37.866	117JM	**CSMOS**	GS	***** GROUP START CSMOS	4RC	4	15	3,209,155:09:0	
1060	95	341	17:29:45.866		:45.8	866 DMS: *RU		4RC	4	15	3,209,155:21:0	
1061	95	341	17:29:45.866	175PK422A6B	6DMSC	RDY,0	DMS Control Tape stop	4RC	4	15	3,209,155:21:0	
1062	95	341	17:29:47.133		:47.1	133 DMS: *RE		4RC	4	15	3,209,155:22:9	
1063	95	341	17:29:47.200		:47.2	200 DMS: *RU		4RC	4	15	3,209,155:23:0	
1064	95	341	17:29:47.200	175JF422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	4RC	4	15	3,209,155:23:0	
1065	95	341	17:29:49.200	176JF6A	6TMCHG	**NCGMPW**	NO CHANGE / 28.8 KBPS PWS + NIMS RECORD	4RC	4	15	3,209,155:26:0	
1066	95	341	17:29:50.533	165JM4C	7VECT		Inert vect update UTC	4RC	4	15	3,209,155:28:0	
1067	95	341	17:29:51.200		:51.2	200 DMS: *RE		4RC	4	15	3,209,155:29:0	
1068	95	341	17:29:51.200	165JM4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	4RC	4	15	3,209,155:29:0	
1069	95	341	17:29:51.866	117JM105A106A4A	7STRP	-0.018002,0.0,0,	Slew =,0.76	4RC	4	15	3,209,155:30:0	
1070	**95**	**341**	**17:29:52.533**	**SWG,1.**	**NIMPBK**	**301JM**	**IO LIMBSCAN (XSS1)**	**4RC**	**4**	**15**	**: :**	
1071	95	341	17:30:21.866	117JM105A106B4A	7STRP	0.058065,-0.0921	Slew =11.89	4RC	4	15	3,209,155:75:0	
1072	95	341	17:30:22.533		:22.5	533 DMS: *RU		4RC	4	15	3,209,155:76:0	
1073	95	341	17:30:22.533	175JF422A6B	6DMSC	RDY,0	DMS Control Tape stop	4RC	4	15	3,209,155:76:0	
1074	95	341	17:30:23.733		:23.7	733 DMS: *RE		4RC	4	15	3,209,155:77:8	
1075	95	341	17:30:23.866		:23.8	866 DMS: *RU		4RC	4	15	3,209,155:78:0	
1076	**95**	**341**	**17:30:23.866**	**NIMS2;**	**DESELC**	**300JM**	**IO LIMBSCAN (XS)**	**4RC**	**4**	**15**	**: :**	
1077	95	341	17:30:23.866	175PV422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4RC	4	15	3,209,155:78:0	
1078	95	341	17:30:23.866	176PV6A	6TMCHG	NCGLPW	NO CHANGE / 7.68 KBPS LOW RATE SCI-PWS-NIM	4RC	4	15	3,209,155:78:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1079	95	341	17:30:25.333		:25.3	333 DMS: *RE		4RC	4	15	3,209,155:80:2	
1080	95	341	17:30:49.866		:49.8	866 DMS: *RU		4RC	4	15	3,209,156:26:0	
1081	95	341	17:30:49.866	175PV422A6B	6DMSC	RDY,0	DMS Control Tape stop	4RC	4	15	3,209,156:26:0	
1082	95	341	17:30:49.866	176JW6A	6TMCHG	**NCGMPW**	NO CHANGE / 28.8 KBPS PWS + NIMS RECORD	4RC	4	15	3,209,156:26:0	
1083	95	341	17:30:51.133		:51.1	133 DMS: *RE		4RC	4	15	3,209,156:27:9	
1084	95	341	17:30:52.533		:52.5	533 DMS: *RU		4RC	4	15	3,209,156:30:0	
1085	95	341	17:30:52.533	175JX422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	4RC	4	15	3,209,156:30:0	
1086	95	341	17:30:56.533	117JM105A106B4B	7STRP	-0.019002,0.0,0,	Slew =,0.76	4RC	4	15	3,209,156:36:0	
1087	95	341	17:30:56.533		:56.5	533 DMS: *RE		4RC	4	15	3,209,156:36:0	
1088	**95**	**341**	**17:30:57.866**	**SWG,1.**	**NIMPBK**	**301CL**	**IO LIMBSCAN (XS)**	**4RC**	**4**	**15**	**: :**	
1089	95	341	17:31:26.533		:26.5	533 DMS: *RU		4RC	4	15	3,209,156:81:0	
1090	95	341	17:31:26.533	117JM105A106C4A	7STRP	0.0,0.024047,0,0	Slew =11.89	4RC	4	15	3,209,156:81:0	
1091	95	341	17:31:26.533	175JX422A6B	6DMSC	RDY,0	DMS Control Tape stop	4RC	4	15	3,209,156:81:0	
1092	95	341	17:31:27.733		:27.7	733 DMS: *RE		4RC	4	15	3,209,156:82:8	
1093	**95**	**341**	**17:31:27.866**	**NIMS2;**	**DESELC**	**300CL**	**IO LIMBSCAN (XS)**	**4RC**	**4**	**15**	**: :**	
1094	95	341	17:31:35.866		:35.8	866 DMS: *RU		4RC	4	15	3,209,157:04:0	
1095	95	341	17:31:35.866	175JQ422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	4RC	4	15	3,209,157:04:0	
1096	95	341	17:31:39.866	117JM105A106C4B	7STRP	-0.018002,0.0,0,	Slew =,0.76	4RC	4	15	3,209,157:10:0	
1097	95	341	17:31:39.866		:39.8	866 DMS: *RE		4RC	4	15	3,209,157:10:0	
1098	**95**	**341**	**17:31:41.200**	**SWG,1.**	**NIMPBK**	**301CD**	**IO LIMBSCAN (XMSS1)**	**4RC**	**4**	**15**	**: :**	
1099	95	341	17:32:09.200	117JM11A	**CSMOS**	GE	***** GROUP END CSMOS	4RC	4	15	3,209,157:54:0	
1100	95	341	17:32:09.866		:09.8	866 DMS: *RU		4RC	4	15	3,209,157:55:0	
1101	95	341	17:32:09.866	175JQ422A6B	6DMSC	RDY,0	DMS Control Tape stop	4RC	4	15	3,209,157:55:0	
1102	95	341	17:32:11.066		:11.0	066 DMS: *RE		4RC	4	15	3,209,157:56:8	
1103	**95**	**341**	**17:32:11.200**	**NIMS2;**	**DESELC**	**300CD**	**IO LIMB/XS**	**4RC**	**4**	**15**	**: :**	
1104	**95**	**341**	**17:32:12.000**	**JAINLBSCAN01-**		**-----STOP-------**		**4RC**	**4**	**15**	**: :**	
1105	95	341	17:32:15.200		:15.2	200 DMS: *RU		4RC	4	15	3,209,157:63:0	
1106	95	341	17:32:15.200	175PL422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4RC	4	15	3,209,157:63:0	
1107	95	341	17:32:16.533	176PL6A	6TMCHG	NCGLPW	NO CHANGE / 7.68 KBPS LOW RATE SCI-PWS-NIM	4RC	4	15	3,209,157:65:0	
1108	95	341	17:32:16.666		:16.6	666 DMS: *RE		4RC	4	15	3,209,157:65:2	
1109	95	341	17:33:17.200	165IT4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4RC	4	15	3,209,158:65:0	
1110	95	341	17:33:17.866	165IT4B	7SCAN	NORM,258.954998,	Check S/P Position	4RC	4	15	3,209,158:66:0	
1111	95	341	17:33:28.533	117IT	**CSMOS**	GS	***** GROUP START CSMOS	4RC	4	15	3,209,158:82:0	
1112	**95**	**341**	**17:33:29.866**	**128JN149A131A4A**	**37IST**	**0,0,0,OFF,0,1,0**	**Gain State 2**	**2RC**	**4**	**15**	**3,209,158:84:0**	
1113	**95**	**341**	**17:33:31.000**	**JAINPROMVT01-**		**-----START------**		**2RC**	**4**	**15**	**: :**	
1114	95	341	17:33:33.200		:33.2	200 DMS: *RU		2RC	4	15	3,209,158:89:0	
1115	95	341	17:33:33.200	165IT4C	7VECT		Inert vect update UTC	2RC	4	15	3,209,158:89:0	
1116	95	341	17:33:33.200	175PL422A6B	6DMSC	RDY,0	DMS Control Tape stop	2RC	4	15	3,209,158:89:0	
1117	95	341	17:33:33.866	165IT4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	2RC	4	15	3,209,158:90:0	
1118	95	341	17:33:34.466		:34.4	466 DMS: *RE		2RC	4	15	3,209,158:90:9	
1119	95	341	17:33:34.533	175IT422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	2RC	4	15	3,209,159:00:0	
1120	95	341	17:33:34.533		:34.5	533 DMS: *RU		2RC	4	15	3,209,159:00:0	
1121	95	341	17:33:34.533	176IT6A	6TMCHG	NCGAI8	NO CHANGE / 806.4 KBPS SSI + 1/8 NIMS RECO	2RC	4	15	3,209,159:00:0	
1122	95	341	17:33:37.866	117IT105A106A4A	7STRP	0.034013,0.0,0,0	Slew =,3.15	2RC	4	15	3,209,159:05:0	
1123	95	341	17:33:39.733		:39.7	733 DMS: *RE		2RC	4	15	3,209,159:07:8	
1124	**95**	**341**	**17:33:41.200**	**SWG,1.**	**NIMPBK**	**301DA**	**SSI IO/NIMS (XS)**	**2RC**	**4**	**15**	**: :**	
1125	95	341	17:33:51.200		:51.2	200 DMS: *RU		2RC	4	15	3,209,159:25:0	
1126	95	341	17:33:51.200	175IT422A6B	6DMSC	RDY,0	DMS Control Tape stop	2RC	4	15	3,209,159:25:0	
1127	**95**	**341**	**17:33:52.533**	**NIMS2;**	**DESELC**	**300DA**	**SSI IO/NIMS(XS)**	**2RC**	**4**	**15**	**: :**	
1128	95	341	17:33:52.533	117IT105A106B4A	7STRP	-0.0005,-0.00675	Slew =0,7.0	2RC	4	15	3,209,159:27:0	
1129	95	341	17:33:53.866		:53.8	866 DMS: *RE		2RC	4	15	3,209,159:29:0	
1130	95	341	17:33:57.866	175IU422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	2RC	4	15	3,209,159:35:0	
1131	95	341	17:33:57.866		:57.8	866 DMS: *RU		2RC	4	15	3,209,159:35:0	
1132	95	341	17:34:01.200	117IT105A106B4B	7STRP	0.034013,0.001,0	Slew =,3.15	2RC	4	15	3,209,159:40:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1133	95	341	17:34:03.066		:03.0	066 DMS: *RE		2RC	4	15	3,209,159:42:8	
1134	**95**	**341**	**17:34:04.533**	**SWG,1.**	**NIMPBK**	**301DB**	**SSI IO/NIMS(XS)**	**2RC**	**4**	**15**	**: :**	
1135	95	341	17:34:14.533	175IU422A6B	6DMSC	RDY,0	DMS Control Tape stop	2RC	4	15	3,209,159:60:0	
1136	95	341	17:34:14.533		:14.5	533 DMS: *RU		2RC	4	15	3,209,159:60:0	
1137	**95**	**341**	**17:34:15.866**	**NIMS2;**	**DESELC**	**300DB**	**SSI IO/NIMS(XS)**	**2RC**	**4**	**15**	**: :**	
1138	95	341	17:34:15.866	117IT11A	**CSMOS**	GE	***** GROUP END CSMOS	2RC	4	15	3,209,159:62:0	
1139	95	341	17:34:16.533	165JN4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2RC	4	15	3,209,159:63:0	
1140	95	341	17:34:17.200	165JN4B	7SCAN	NORM,260.489998,	Check S/P Position	2RC	4	15	3,209,159:64:0	
1141	95	341	17:34:17.200		:17.2	200 DMS: *RE		2RC	4	15	3,209,159:64:0	
1142	95	341	17:34:17.866	175PM422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2RC	4	15	3,209,159:65:0	
1143	95	341	17:34:17.866		:17.8	866 DMS: *RU		2RC	4	15	3,209,159:65:0	
1144	95	341	17:34:17.866	176PM6A	6TMCHG	NCGLPW	NO CHANGE / 7.68 KBPS LOW RATE SCI-PWS-NIM	2RC	4	15	3,209,159:65:0	
1145	95	341	17:34:19.333		:19.3	333 DMS: *RE		2RC	4	15	3,209,159:67:2	
1146	**95**	**341**	**17:34:30.533**	**128JN149A131B4A**	**37IOP**	**13,1**	**Special Sequence 2, Grating Start Position**	**2RD**	**4**	**1**	**3,209,159:84:0**	
1147	95	341	17:34:33.200	117JN	**CSMOS**	GS	***** GROUP START CSMOS	2RD	4	1	3,209,159:88:0	
1148	95	341	17:34:34.533	175PM422A6B	6DMSC	RDY,0	DMS Control Tape stop	2RD	4	1	3,209,159:90:0	
1149	95	341	17:34:34.533		:34.5	533 DMS: *RU		2RD	4	1	3,209,159:90:0	
1150	95	341	17:34:35.200	176JI6A	6TMCHG	**NCGMPW**	NO CHANGE / 28.8 KBPS PWS + NIMS RECORD	2RD	4	1	3,209,160:00:0	
1151	95	341	17:34:35.800		:35.8	800 DMS: *RE		2RD	4	1	3,209,160:00:9	
1152	95	341	17:34:35.866	175JI422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	2RD	4	1	3,209,160:01:0	
1153	95	341	17:34:35.866		:35.8	866 DMS: *RU		2RD	4	1	3,209,160:01:0	
1154	95	341	17:34:39.866		:39.8	866 DMS: *RE		2RD	4	1	3,209,160:07:0	
1155	95	341	17:34:41.200	165JN4C	7VECT		Inert vect update UTC	2RD	4	1	3,209,160:09:0	
1156	**95**	**341**	**17:34:41.200**	**SWG,1.**	**NIMPBK**	**301JN**	**PROMETHEUS VENT (FMSS2)**	**2RD**	**4**	**1**	**: :**	
1157	95	341	17:34:41.866	165JN4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	2RD	4	1	3,209,160:10:0	
1158	95	341	17:34:42.533	117JN105A106A4A	7STRP	0.0022,0.0,0,0,0	Slew =,0.06	2RD	4	1	3,209,160:11:0	
1159	95	341	17:35:26.533		:26.5	533 DMS: *RU		2RD	4	1	3,209,160:77:0	
1160	95	341	17:35:26.533	175JI422A6B	6DMSC	RDY,0	DMS Control Tape stop	2RD	4	1	3,209,160:77:0	
1161	95	341	17:35:27.200	176PN6A	6TMCHG	NCGLPW	NO CHANGE / 7.68 KBPS LOW RATE SCI-PWS-NIM	2RD	4	1	3,209,160:78:0	
1162	95	341	17:35:27.200	117JN11A	**CSMOS**	GE	***** GROUP END CSMOS	2RD	4	1	3,209,160:78:0	
1163	95	341	17:35:27.733		:27.7	733 DMS: *RE		2RD	4	1	3,209,160:78:8	
1164	95	341	17:35:27.866		:27.8	866 DMS: *RU		2RD	4	1	3,209,160:79:0	
1165	**95**	**341**	**17:35:27.866**	**NIMS2;**	**DESELC**	**300JN**	**IO PROMETHEUS VENT**	**2RD**	**4**	**1**	**: :**	
1166	95	341	17:35:27.866	175PN422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2RD	4	1	3,209,160:79:0	
1167	**95**	**341**	**17:35:28.000**	**JAINPROMVT01-**		**-----STOP-------**		**2RD**	**4**	**1**	**: :**	
1168	95	341	17:35:29.333		:29.3	333 DMS: *RE		2RD	4	1	3,209,160:81:2	
1169	95	341	17:35:54.533	165IV4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2RD	4	1	3,209,161:28:0	
1170	95	341	17:35:55.200	165IV4B	7SCAN	NORM,270.960999,	Check S/P Position	2RD	4	1	3,209,161:29:0	
1171	95	341	17:36:42.533	117IV	**CSMOS**	GS	***** GROUP START CSMOS	2RD	4	1	3,209,162:09:0	
1172	95	341	17:36:49.200		:49.2	200 DMS: *RU		2RD	4	1	3,209,162:19:0	
1173	95	341	17:36:49.200	165IV4C	7VECT		Inert vect update UTC	2RD	4	1	3,209,162:19:0	
1174	95	341	17:36:49.200	175PN422A6B	6DMSC	RDY,0	DMS Control Tape stop	2RD	4	1	3,209,162:19:0	
1175	95	341	17:36:49.866	165IV4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	2RD	4	1	3,209,162:20:0	
1176	95	341	17:36:50.466		:50.4	466 DMS: *RE		2RD	4	1	3,209,162:20:9	
1177	95	341	17:36:50.533		:50.5	533 DMS: *RU		2RD	4	1	3,209,162:21:0	
1178	95	341	17:36:50.533	175IV422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	2RD	4	1	3,209,162:21:0	
1179	95	341	17:36:53.866	117IV105A106A4A	7STRP	0.034013,0.0,0,0	Slew =,3.15	2RD	4	1	3,209,162:26:0	
1180	95	341	17:36:53.866	176IV6A	6TMCHG	NCGAI8	NO CHANGE / 806.4 KBPS SSI + 1/8 NIMS RECO	2RD	4	1	3,209,162:26:0	
1181	95	341	17:36:55.733		:55.7	733 DMS: *RE		2RD	4	1	3,209,162:28:8	
1182	**95**	**341**	**17:36:57.200**	**SWG,1.**	**NIMPBK**	**301DC**	**SSI IO/NIMS(FMSS2)**	**2RD**	**4**	**1**	**: :**	
1183	95	341	17:37:07.200		:07.2	200 DMS: *RU		2RD	4	1	3,209,162:46:0	
1184	95	341	17:37:07.200	175IV422A6B	6DMSC	RDY,0	DMS Control Tape stop	2RD	4	1	3,209,162:46:0	
1185	**95**	**341**	**17:37:08.533**	**NIMS2;**	**DESELC**	**300DC**	**SSI IO/NIMS(FMSS2)**	**2RD**	**4**	**1**	**: :**	
1186	95	341	17:37:08.533	117IV105A106B4A	7STRP	-0.001,-0.006001	Slew =0,6.4	2RD	4	1	3,209,162:48:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1187	95	341	17:37:09.866		:09.8	866 DMS: *RE		2RD	4	1	3,209,162:50:0	
1188	95	341	17:37:11.200	175IW422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	2RD	4	1	3,209,162:52:0	
1189	95	341	17:37:11.200		:11.2	200 DMS: *RU		2RD	4	1	3,209,162:52:0	
1190	95	341	17:37:15.200	117IV105A106B4B	7STRP	0.034013,0.0015,	Slew =,3.15	2RD	4	1	3,209,162:58:0	
1191	95	341	17:37:16.400		:16.4	400 DMS: *RE		2RD	4	1	3,209,162:59:8	
1192	**95**	**341**	**17:37:17.866**	**SWG,1.**	**NIMPBK**	**301DD**	**SSI IO/NIMS(FMSS2)**	**2RD**	**4**	**1**	**: :**	
1193	95	341	17:37:27.866	175IW422A6B	6DMSC	RDY,0	DMS Control Tape stop	2RD	4	1	3,209,162:77:0	
1194	95	341	17:37:27.866		:27.8	866 DMS: *RU		2RD	4	1	3,209,162:77:0	
1195	**95**	**341**	**17:37:28.000**	**JAINVOLUND01-**		**-----START------**		**2RD**	**4**	**1**	**: :**	
1196	95	341	17:37:28.533	176PO6A	6TMCHG	NCGLPW	NO CHANGE / 7.68 KBPS LOW RATE SCI-PWS-NIM	2RD	4	1	3,209,162:78:0	
1197	**95**	**341**	**17:37:29.200**	**NIMS2;**	**DESELC**	**300DD**	**SSI IO/NIMS(FMSS2)**	**2RD**	**4**	**1**	**: :**	
1198	95	341	17:37:29.866	117IV11A	**CSMOS**	GE	***** GROUP END CSMOS	2RD	4	1	3,209,162:80:0	
1199	95	341	17:37:30.533	165JO4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2RD	4	1	3,209,162:81:0	
1200	95	341	17:37:30.533		:30.5	533 DMS: *RE		2RD	4	1	3,209,162:81:0	
1201	95	341	17:37:31.200	165JO4B	7SCAN	NORM,273.961998,	Check S/P Position	2RD	4	1	3,209,162:82:0	
1202	95	341	17:37:31.200		:31.2	200 DMS: *RU		2RD	4	1	3,209,162:82:0	
1203	95	341	17:37:31.200	175PO422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2RD	4	1	3,209,162:82:0	
1204	**95**	**341**	**17:37:32.533**	**128JO149A131A4A**	**37IOP**	**13,1**	**Special Sequence 2, Grating Start Position**	**2RD**	**4**	**1**	**3,209,162:84:0**	
1205	95	341	17:37:32.666		:32.6	666 DMS: *RE		2RD	4	1	3,209,162:84:2	
1206	95	341	17:37:48.533	117JO	**CSMOS**	GS	***** GROUP START CSMOS	2RD	4	1	3,209,163:17:0	
1207	95	341	17:37:52.533		:52.5	533 DMS: *RU		2RD	4	1	3,209,163:23:0	
1208	95	341	17:37:52.533	175PO422A6B	6DMSC	RDY,0	DMS Control Tape stop	2RD	4	1	3,209,163:23:0	
1209	95	341	17:37:53.800		:53.8	800 DMS: *RE		2RD	4	1	3,209,163:24:9	
1210	95	341	17:37:53.866	175JJ422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	2RD	4	1	3,209,163:25:0	
1211	95	341	17:37:53.866		:53.8	866 DMS: *RU		2RD	4	1	3,209,163:25:0	
1212	95	341	17:37:54.533	176JJ6A	6TMCHG	**NCGMPW**	NO CHANGE / 28.8 KBPS PWS + NIMS RECORD	2RD	4	1	3,209,163:26:0	
1213	95	341	17:37:56.533	165JO4C	7VECT		Inert vect update UTC	2RD	4	1	3,209,163:29:0	
1214	95	341	17:37:57.200	165JO4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	2RD	4	1	3,209,163:30:0	
1215	95	341	17:37:57.866	117JO105A106A4A	7STRP	0.0023,0.0,0,0,0	Slew =,0.06	2RD	4	1	3,209,163:31:0	
1216	95	341	17:37:57.866		:57.8	866 DMS: *RE		2RD	4	1	3,209,163:31:0	
1217	**95**	**341**	**17:37:59.200**	**SWG,1.**	**NIMPBK**	**301JO**	**VOLCANIC VENT AREA (FMSS2)**	**2RD**	**4**	**1**	**: :**	
1218	95	341	17:38:41.866	175JJ422A6B	6DMSC	RDY,0	DMS Control Tape stop	2RD	4	1	3,209,164:06:0	
1219	95	341	17:38:41.866		:41.8	866 DMS: *RU		2RD	4	1	3,209,164:06:0	
1220	95	341	17:38:42.533	117JO11A	**CSMOS**	GE	***** GROUP END CSMOS	2RD	4	1	3,209,164:07:0	
1221	95	341	17:38:42.533	165IX4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2RD	4	1	3,209,164:07:0	
1222	95	341	17:38:43.066		:43.0	066 DMS: *RE		2RD	4	1	3,209,164:07:8	
1223	95	341	17:38:43.200	165IX4B	7SCAN	NORM,279.507999,	Check S/P Position	2RD	4	1	3,209,164:08:0	
1224	**95**	**341**	**17:38:43.200**	**NIMS2;**	**DESELC**	**300JO**	**IO VOLUME VENT**	**2RD**	**4**	**1**	**: :**	
1225	95	341	17:38:43.866	117IX	**CSMOS**	GS	***** GROUP START CSMOS	2RD	4	1	3,209,164:09:0	
1226	**95**	**341**	**17:38:44.000**	**JAINVOLUND01-**		**-----STOP-------**		**2RD**	**4**	**1**	**: :**	
1227	95	341	17:38:45.200	175PP422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2RD	4	1	3,209,164:11:0	
1228	95	341	17:38:45.200		:45.2	200 DMS: *RU		2RD	4	1	3,209,164:11:0	
1229	95	341	17:38:46.533	176PP6A	6TMCHG	NCGLPW	NO CHANGE / 7.68 KBPS LOW RATE SCI-PWS-NIM	2RD	4	1	3,209,164:13:0	
1230	95	341	17:38:46.666		:46.6	666 DMS: *RE		2RD	4	1	3,209,164:13:2	
1231	95	341	17:39:03.866		:03.8	866 DMS: *RU		2RD	4	1	3,209,164:39:0	
1232	95	341	17:39:03.866	175PP422A6B	6DMSC	RDY,0	DMS Control Tape stop	2RD	4	1	3,209,164:39:0	
1233	95	341	17:39:03.866	176IX6A	6TMCHG	NCGAI8	NO CHANGE / 806.4 KBPS SSI + 1/8 NIMS RECO	2RD	4	1	3,209,164:39:0	
1234	95	341	17:39:04.533	165IX4C	7VECT		Inert vect update UTC	2RD	4	1	3,209,164:40:0	
1235	95	341	17:39:05.133		:05.1	133 DMS: *RE		2RD	4	1	3,209,164:40:9	
1236	95	341	17:39:05.200	165IX4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	2RD	4	1	3,209,164:41:0	
1237	95	341	17:39:05.866		:05.8	866 DMS: *RU		2RD	4	1	3,209,164:42:0	
1238	95	341	17:39:05.866	175IX422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	2RD	4	1	3,209,164:42:0	
1239	95	341	17:39:09.200	117IX105A106A4A	7STRP	0.034013,0.0,0,0	Slew =,3.15	2RD	4	1	3,209,164:47:0	
1240	95	341	17:39:11.066		:11.0	066 DMS: *RE		2RD	4	1	3,209,164:49:8	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1241	**95**	**341**	**17:39:12.533**	**SWG,1.**	**NIMPBK**	**301DE**	**SSI IO/NIMS(FMSS2)**	**2RD**	**4**	**1**	**: :**	
1242	95	341	17:39:22.533		:22.5	533 DMS: *RU		2RD	4	1	3,209,164:67:0	
1243	95	341	17:39:22.533	175IX422A6B	6DMSC	RDY,0	DMS Control Tape stop	2RD	4	1	3,209,164:67:0	
1244	95	341	17:39:23.200	117IX105A106B4A	7STRP	0.001,-0.005751,	Slew =,5.44	2RD	4	1	3,209,164:68:0	
1245	**95**	**341**	**17:39:23.866**	**NIMS2;**	**DESELC**	**300DE**	**SSI IO/NIMS(FMSS2)**	**2RD**	**4**	**1**	**: :**	
1246	95	341	17:39:25.200		:25.2	200 DMS: *RE		2RD	4	1	3,209,164:71:0	
1247	95	341	17:39:26.533	175IY422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	2RD	4	1	3,209,164:73:0	
1248	95	341	17:39:26.533		:26.5	533 DMS: *RU		2RD	4	1	3,209,164:73:0	
1249	95	341	17:39:29.866	117IX105A106B4B	7STRP	0.034013,0.0015,	Slew =,3.15	2RD	4	1	3,209,164:78:0	
1250	95	341	17:39:31.733		:31.7	733 DMS: *RE		2RD	4	1	3,209,164:80:8	
1251	**95**	**341**	**17:39:33.200**	**SWG,1.**	**NIMPBK**	**301DF**	**SSI IO/NIMS(FMSS2)**	**2RD**	**4**	**1**	**: :**	
1252	**95**	**341**	**17:39:33.866**	**128JP149A131A4A**	**37IOP**	**13,1**	**Special Sequence 2, Grating Start Position**	**2RD**	**4**	**1**	**3,209,164:84:0**	
1253	**95**	**341**	**17:39:35.000**	**JAINCOLCHS01-**		**-----START------**		**2RD**	**4**	**1**	**: :**	
1254	95	341	17:39:43.200		:43.2	200 DMS: *RU		2RD	4	1	3,209,165:07:0	
1255	95	341	17:39:43.200	175IY422A6B	6DMSC	RDY,0	DMS Control Tape stop	2RD	4	1	3,209,165:07:0	
1256	95	341	17:39:43.866	165JP4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2RD	4	1	3,209,165:08:0	
1257	95	341	17:39:43.866	117IX11A	**CSMOS**	GE	***** GROUP END CSMOS	2RD	4	1	3,209,165:08:0	
1258	**95**	**341**	**17:39:44.533**	**NIMS2;**	**DESELC**	**300DF**	**SSI IO/NIMS(FMSS2)**	**2RD**	**4**	**1**	**: :**	
1259	95	341	17:39:44.533	117JP	**CSMOS**	GS	***** GROUP START CSMOS	2RD	4	1	3,209,165:09:0	
1260	95	341	17:39:44.533	165JP4B	7SCAN	NORM,285.424999,	Check S/P Position	2RD	4	1	3,209,165:09:0	
1261	95	341	17:39:45.866		:45.8	866 DMS: *RE		2RD	4	1	3,209,165:11:0	
1262	95	341	17:39:46.533		:46.5	533 DMS: *RU		2RD	4	1	3,209,165:12:0	
1263	95	341	17:39:46.533	175PQ422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2RD	4	1	3,209,165:12:0	
1264	95	341	17:39:47.200	176PQ6A	6TMCHG	NCGLPW	NO CHANGE / 7.68 KBPS LOW RATE SCI-PWS-NIM	2RD	4	1	3,209,165:13:0	
1265	95	341	17:39:48.000		:48.0	000 DMS: *RE		2RD	4	1	3,209,165:14:2	
1266	95	341	17:40:04.533	175PQ422A6B	6DMSC	RDY,0	DMS Control Tape stop	2RD	4	1	3,209,165:39:0	
1267	95	341	17:40:04.533	176JB6A	6TMCHG	**NCGMPW**	NO CHANGE / 28.8 KBPS PWS + NIMS RECORD	2RD	4	1	3,209,165:39:0	
1268	95	341	17:40:04.533		:04.5	533 DMS: *RU		2RD	4	1	3,209,165:39:0	
1269	95	341	17:40:05.800		:05.8	800 DMS: *RE		2RD	4	1	3,209,165:40:9	
1270	95	341	17:40:07.200	175JB422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	2RD	4	1	3,209,165:43:0	
1271	95	341	17:40:07.200		:07.2	200 DMS: *RU		2RD	4	1	3,209,165:43:0	
1272	95	341	17:40:09.866	165JP4C	7VECT		Inert vect update UTC	2RD	4	1	3,209,165:47:0	
1273	95	341	17:40:10.533	165JP4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	2RD	4	1	3,209,165:48:0	
1274	95	341	17:40:11.200	117JP105A106A4A	7STRP	0.00175,0.0,0,0,	Slew =,0.06	2RD	4	1	3,209,165:49:0	
1275	95	341	17:40:11.200		:11.2	200 DMS: *RE		2RD	4	1	3,209,165:49:0	
1276	**95**	**341**	**17:40:12.533**	**SWG,1.**	**NIMPBK**	**301JP**	**CHOLCHIS REGIA AREA (FMSS2)**	**2RD**	**4**	**1**	**: :**	
1277	95	341	17:40:43.866	117JP11A	**CSMOS**	GE	***** GROUP END CSMOS	2RD	4	1	3,209,166:07:0	
1278	**95**	**341**	**17:40:45.200**	**NIMS2;**	**DESELC**	**300JP**	**IO COLCHIS VENT(FMSS2)**	**2RD**	**4**	**1**	**: :**	
1279	95	341	17:40:47.200	165LL4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2RD	4	1	3,209,166:12:0	
1280	95	341	17:40:47.866	176NC6A	6TMCHG	NCGMPP	NO CHANGE / 28.8 KBPS PWS RECORD	2RD	4	1	3,209,166:13:0	
1281	95	341	17:40:47.866	165LL4B	7SCAN	NORM,284.086998,	Check S/P Position	2RD	4	1	3,209,166:13:0	
1282	**95**	**341**	**17:40:48.000**	**JAINCOLCHS01-**		**-----STOP-------**		**2RD**	**4**	**1**	**: :**	
1283	95	341	17:41:38.533	165LL4C	7VECT		Inert vect update UTC	2RD	4	1	3,209,166:89:0	
1284	95	341	17:41:39.200	165LL4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	2RD	4	1	3,209,166:90:0	
1285	95	341	17:41:53.200	117LL	**CSMOS**	GS	***** GROUP START CSMOS	2RD	4	1	3,209,167:20:0	
1286	95	341	17:42:02.533	117LL105A106A4A	7STRP	0.091756,-0.0005	Slew =0,1.0	2RD	4	1	3,209,167:34:0	
1287	95	341	17:43:03.866	165LL4E	7VECT		Inert vect update UTC	2RD	4	1	3,209,168:35:0	
1288	95	341	17:43:42.533	117LL105A106B4A	7STRP	-0.048037,0.0100	Slew =,7.75	2RD	4	1	3,209,169:02:0	
1289	95	341	17:43:51.866	117LL105A106B4B	7STRP	0.033513,0.0,0,0	Slew =0,1.0	2RD	4	1	3,209,169:16:0	
1290	95	341	17:44:30.533	117LL11A	**CSMOS**	GE	***** GROUP END CSMOS	2RD	4	1	3,209,169:74:0	
1291	95	341	17:44:30.533	165IZ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2RD	4	1	3,209,169:74:0	
1292	95	341	17:44:31.200	165IZ4B	7SCAN	NORM,319.982998,	Check S/P Position	2RD	4	1	3,209,169:75:0	
1293	95	341	17:44:47.866	117IZ	**CSMOS**	GS	***** GROUP START CSMOS	2RD	4	1	3,209,170:09:0	
1294	95	341	17:45:16.533		:16.5	533 DMS: *RU		2RD	4	1	3,209,170:52:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1295	95	341	17:45:16.533	176IZ6A	6TMCHG	NCGAI8	NO CHANGE / 806.4 KBPS SSI + 1/8 NIMS RECO	2RD	4	1	3,209,170:52:0	
1296	95	341	17:45:16.533	175JB422A6B	6DMSC	RDY,0	DMS Control Tape stop	2RD	4	1	3,209,170:52:0	
1297	95	341	17:45:17.733		:17.7	733 DMS: *RE		2RD	4	1	3,209,170:53:8	
1298	95	341	17:45:17.866	165IZ4C	7VECT		Inert vect update UTC	2RD	4	1	3,209,170:54:0	
1299	95	341	17:45:18.533	165IZ4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	2RD	4	1	3,209,170:55:0	
1300	95	341	17:45:19.200		:19.2	200 DMS: *RU		2RD	4	1	3,209,170:56:0	
1301	95	341	17:45:19.200	175IZ422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	2RD	4	1	3,209,170:56:0	
1302	95	341	17:45:22.533	117IZ105A106A4A	7STRP	0.125655,0.0012,	Slew =0,2.9	2RD	4	1	3,209,170:61:0	
1303	95	341	17:45:24.400		:24.4	400 DMS: *RE		2RD	4	1	3,209,170:63:8	
1304	**95**	**341**	**17:45:25.866**	**AWG,1.**	**NIMPBK**	**301DG**	**SSI IO/NIMS(FMSS2)**	**2RD**	**4**	**1**	**: :**	
1305	95	341	17:46:08.533		:08.5	533 DMS: *RU		2RD	4	1	3,209,171:39:0	
1306	95	341	17:46:08.533	175IZ422A6B	6DMSC	RDY,0	DMS Control Tape stop	2RD	4	1	3,209,171:39:0	
1307	**95**	**341**	**17:46:09.866**	**NIMS2;**	**DESELC**	**300DG**	**SSI IO/NIMS(FMSS2)**	**2RD**	**4**	**1**	**: :**	
1308	95	341	17:46:11.200		:11.2	200 DMS: *RE		2RD	4	1	3,209,171:43:0	
1309	95	341	17:46:11.200	117IZ11A	**CSMOS**	GE	***** GROUP END CSMOS	2RD	4	1	3,209,171:43:0	
1310	95	341	17:46:13.200		:13.2	200 DMS: *RU		2RD	4	1	3,209,171:46:0	
1311	95	341	17:46:13.200	175ND422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	2RD	4	1	3,209,171:46:0	
1312	95	341	17:46:17.200		:17.2	200 DMS: *RE		2RD	4	1	3,209,171:52:0	
1313	95	341	17:46:17.200	176ND6A	6TMCHG	NCGMPP	NO CHANGE / 28.8 KBPS PWS RECORD	2RD	4	1	3,209,171:52:0	
1314	95	341	17:46:25.866	165LM4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2RD	4	1	3,209,171:65:0	
1315	95	341	17:46:26.533	165LM4B	7SCAN	NORM,8.359,-6.40	Check S/P Position	2RD	4	1	3,209,171:66:0	
1316	95	341	17:46:43.866	117LM	**CSMOS**	GS	***** GROUP START CSMOS	2RD	4	1	3,209,172:01:0	
1317	95	341	17:46:51.866	165LM4C	7VECT		Inert vect update UTC	2RD	4	1	3,209,172:13:0	
1318	95	341	17:46:52.533	165LM4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	2RD	4	1	3,209,172:14:0	
1319	95	341	17:46:53.200	117LM105A106A4A	7STRP	0.188175,-0.0290	Slew =,0.49	2RD	4	1	3,209,172:15:0	
1320	95	341	17:49:07.866	175ND422A6B	6DMSC	RDY,0	DMS Control Tape stop	2RD	4	1	3,209,174:35:0	
1321	95	341	17:49:07.866		:07.8	866 DMS: *RU		2RD	4	1	3,209,174:35:0	
1322	95	341	17:49:09.066		:09.0	066 DMS: *RE		2RD	4	1	3,209,174:36:8	
1323	95	341	17:49:09.200		:09.2	200 DMS: *RU		2RD	4	1	3,209,174:37:0	
1324	95	341	17:49:09.200	175PR422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2RD	4	1	3,209,174:37:0	
1325	95	341	17:49:10.533	176PR6A	6TMCHG	NCGLPW	NO CHANGE / 7.68 KBPS LOW RATE SCI-PWS-NIM	2RD	4	1	3,209,174:39:0	
1326	95	341	17:49:10.666		:10.6	666 DMS: *RE		2RD	4	1	3,209,174:39:2	
1327	95	341	17:50:48.533	165LM4E	7VECT		Inert vect update UTC	2RD	4	1	3,209,176:04:0	
1328	**95**	**341**	**17:54:43.866**	**128LN149A131A4A**	**37IOP**	**7,21**	**Fixed Map, Grating Start Position =21**	**2R7**	**4**	**21**	**3,209,179:84:0**	
1329	**95**	**341**	**17:54:44.000**	**JAINHOTSPT01***		**-----START------**		**2R7**	**4**	**21**	**: :**	
1330	95	341	17:54:47.200	117LM11A	**CSMOS**	GE	***** GROUP END CSMOS	2R7	4	21	3,209,179:89:0	
1331	95	341	17:54:51.866	165LN4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R7	4	21	3,209,180:05:0	
1332	95	341	17:54:52.533	165LN4B	7SCAN	NORM,54.411,11.3	Check S/P Position	2R7	4	21	3,209,180:06:0	
1333	95	341	17:55:00.533	175PR422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R7	4	21	3,209,180:18:0	
1334	95	341	17:55:00.533		:00.5	533 DMS: *RU		2R7	4	21	3,209,180:18:0	
1335	95	341	17:55:01.800		:01.8	800 DMS: *RE		2R7	4	21	3,209,180:19:9	
1336	95	341	17:55:01.866		:01.8	866 DMS: *RU		2R7	4	21	3,209,180:20:0	
1337	95	341	17:55:01.866	175LN422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	2R7	4	21	3,209,180:20:0	
1338	95	341	17:55:03.866	117LN	**CSMOS**	GS	***** GROUP START CSMOS	2R7	4	21	3,209,180:23:0	
1339	95	341	17:55:05.866		:05.8	866 DMS: *RE		2R7	4	21	3,209,180:26:0	
1340	95	341	17:55:05.866	176LN6A	6TMCHG	**NCGMPW**	NO CHANGE / 28.8 KBPS PWS + NIMS RECORD	2R7	4	21	3,209,180:26:0	
1341	**95**	**341**	**17:55:08.533**	**SWG,1.**	**NIMPBK**	**301JQ**	**IO HOTSPOT (KANEHEKILI)(XM)**	**2R7**	**4**	**21**	**: :**	
1342	95	341	17:55:11.866	165LN4C	7VECT		Inert vect update UTC	2R7	4	21	3,209,180:35:0	
1343	95	341	17:55:12.533	165LN4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	2R7	4	21	3,209,180:36:0	
1344	95	341	17:55:13.200	117LN105A106A4A	7STRP	0.018002,-0.0065	Slew =,2.45	2R7	4	21	3,209,180:37:0	
1345	**95**	**341**	**17:55:19.200**	**NIMS2;**	**DESELC**	**300JQ**	**IO HOTSPOT (KANEHEKILI)(XM)**	**2R7**	**4**	**21**	**: :**	
1346	95	341	17:55:24.533	117LN105A106A4B	7STRP	-0.017502,0.0080	Slew =,9.45	2R7	4	21	3,209,180:54:0	
1347	95	341	17:55:33.200	117LN105A106A4C	7STRP	0.018002,-0.0065	Slew =,2.45	2R7	4	21	3,209,180:67:0	
1348	95	341	17:55:44.533	117LN105A106A4D	7STRP	-0.017502,0.0080	Slew =,9.45	2R7	4	21	3,209,180:84:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1349	95	341	17:55:53.200	117LN105A106A4E	7STRP	0.018002,-0.0065	Slew =,2.45	2R7	4	21	3,209,181	06:0
1350	95	341	17:56:04.533	117LN105A106A4F	7STRP	-0.017502,0.0080	Slew =,9.45	2R7	4	21	3,209,181	23:0
1351	95	341	17:56:13.200	117LN105A106A4G	7STRP	0.018002,-0.0065	Slew =,2.45	2R7	4	21	3,209,181	36:0
1352	95	341	17:56:24.533	117LN105A106A4H	7STRP	-0.017502,0.0080	Slew =,9.45	2R7	4	21	3,209,181	53:0
1353	95	341	17:56:33.200	117LN105A106A4I	7STRP	0.018002,-0.0065	Slew =,2.45	2R7	4	21	3,209,181	66:0
1354	95	341	17:56:44.533	117LN105A106A4J	7STRP	-0.017502,0.0080	Slew =,9.45	2R7	4	21	3,209,181	83:0
1355	95	341	17:56:53.200	117LN105A106A4K	7STRP	0.018002,-0.0065	Slew =,2.45	2R7	4	21	3,209,182	05:0
1356	95	341	17:57:04.533	117LN105A106A4L	7STRP	-0.017502,0.0080	Slew =,9.45	2R7	4	21	3,209,182	22:0
1357	95	341	17:57:13.200	117LN105A106A4M	7STRP	0.018002,-0.0065	Slew =,2.45	2R7	4	21	3,209,182	35:0
1358	95	341	17:57:24.533	117LN105A106A4N	7STRP	-0.017502,0.0080	Slew =,9.45	2R7	4	21	3,209,182	52:0
1359	95	341	17:57:33.200	117LN105A106A4O	7STRP	0.018002,-0.0065	Slew =,2.45	2R7	4	21	3,209,182	65:0
1360	95	341	17:57:44.533	117LN105A106B4A	7STRP	-0.017502,0.008,	Slew =,9.45	2R7	4	21	3,209,182	82:0
1361	95	341	17:57:54.533	117LN105A106B4B	7STRP	0.018002,-0.0065	Slew =,2.45	2R7	4	21	3,209,183	06:0
1362	95	341	17:58:05.866	117LN105A106B4C	7STRP	-0.017502,0.008,	Slew =,9.45	2R7	4	21	3,209,183	23:0
1363	95	341	17:58:15.866	117LN105A106B4D	7STRP	0.018002,-0.0065	Slew =,2.45	2R7	4	21	3,209,183	38:0
1364	95	341	17:58:27.200	117LN105A106B4E	7STRP	-0.017502,0.008,	Slew =,9.45	2R7	4	21	3,209,183	55:0
1365	95	341	17:58:37.200	117LN105A106B4F	7STRP	0.018002,-0.0065	Slew =,2.45	2R7	4	21	3,209,183	70:0
1366	95	341	17:58:48.533	117LN105A106B4G	7STRP	-0.017502,0.008,	Slew =,9.45	2R7	4	21	3,209,183	87:0
1367	95	341	17:58:58.533	117LN105A106B4H	7STRP	0.018002,-0.0065	Slew =,2.45	2R7	4	21	3,209,184	11:0
1368	95	341	17:59:09.866	117LN105A106B4I	7STRP	-0.017502,0.008,	Slew =,9.45	2R7	4	21	3,209,184	28:0
1369	95	341	17:59:19.866	117LN105A106B4J	7STRP	0.018002,-0.0065	Slew =,2.45	2R7	4	21	3,209,184	43:0
1370	95	341	17:59:31.200		:31.2	200 DMS: *RU		2R7	4	21	3,209,184	60:0
1371	95	341	17:59:31.200	175LN422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R7	4	21	3,209,184	60:0
1372	95	341	17:59:31.200	117LN11A	**CSMOS**	GE	***** GROUP END CSMOS	2R7	4	21	3,209,184	60:0
1373	95	341	17:59:32.400		:32.4	400 DMS: *RE		2R7	4	21	3,209,184	61:8
1374	95	341	17:59:33.200		:33.2	200 DMS: *RU		2R7	4	21	3,209,184	63:0
1375	95	341	17:59:33.200	175PS422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R7	4	21	3,209,184	63:0
1376	95	341	17:59:34.533	176PS6A	6TMCHG	NCGLPW	NO CHANGE / 7.68 KBPS LOW RATE SCI-PWS-NIM	2R7	4	21	3,209,184	65:0
1377	95	341	17:59:34.666		:34.6	666 DMS: *RE		2R7	4	21	3,209,184	65:2
1378	95	341	17:59:39.200	165LO4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R7	4	21	3,209,184	72:0
1379	95	341	17:59:39.866	165LO4B	7SCAN	NORM,55.186,11.9	Check S/P Position	2R7	4	21	3,209,184	73:0
1380	95	341	17:59:42.533	117LO	**CSMOS**	GS	***** GROUP START CSMOS	2R7	4	21	3,209,184	77:0
1381	**95**	**341**	**17:59:48.000**	**JAINHOTSPT01***		**-----STOP-------**		**2R7**	**4**	**21**	**: :**	
1382	95	341	17:59:50.533	165LO4C	7VECT		Inert vect update UTC	2R7	4	21	3,209,184	89:0
1383	95	341	17:59:51.200	165LO4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	2R7	4	21	3,209,184	90:0
1384	95	341	17:59:51.866	117LO105A106A4A	7STRP	0.046634,-0.0713	Slew =,0.38	2R7	4	21	3,209,185	00:0
1385	**95**	**341**	**18:05:48.000**	**JAINLOKIPL01***		**-----START------**		**2R7**	**4**	**21**	**: :**	
1386	**95**	**341**	**18:05:51.200**	**128JQ149A131A4A**	**37IOP**	**7,21**	**Fixed Map, Grating Start Position =21**	**2R7**	**4**	**21**	**3,209,190**	**84:0**
1387	95	341	18:06:01.866	117JQ	**CSMOS**	GS	***** GROUP START CSMOS	2R7	4	21	3,209,191	09:0
1388	95	341	18:06:04.533	117LO11A	**CSMOS**	GE	***** GROUP END CSMOS	2R7	4	21	3,209,191	13:0
1389	95	341	18:06:04.533	165JQ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R7	4	21	3,209,191	13:0
1390	95	341	18:06:05.200	165JQ4B	7SCAN	NORM,55.439,15.7	Check S/P Position	2R7	4	21	3,209,191	14:0
1391	95	341	18:06:08.533		:08.5	533 DMS: *RU		2R7	4	21	3,209,191	19:0
1392	95	341	18:06:08.533	175PS422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R7	4	21	3,209,191	19:0
1393	95	341	18:06:09.800		:09.8	800 DMS: *RE		2R7	4	21	3,209,191	20:9
1394	95	341	18:06:09.866		:09.8	866 DMS: *RU		2R7	4	21	3,209,191	21:0
1395	95	341	18:06:09.866	175JG422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	2R7	4	21	3,209,191	21:0
1396	95	341	18:06:13.200	176JG6A	6TMCHG	**NCGMPW**	NO CHANGE / 28.8 KBPS PWS + NIMS RECORD	2R7	4	21	3,209,191	26:0
1397	95	341	18:06:13.200	165JQ4C	7VECT		Inert vect update UTC	2R7	4	21	3,209,191	26:0
1398	95	341	18:06:13.866		:13.8	866 DMS: *RE		2R7	4	21	3,209,191	27:0
1399	95	341	18:06:13.866	165JQ4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	2R7	4	21	3,209,191	27:0
1400	95	341	18:06:14.533	117JQ105A106A4A	7STRP	0.019002,0.0,0,0	Slew =,0.76	2R7	4	21	3,209,191	28:0
1401	**95**	**341**	**18:06:15.200**	**SWG,1.**	**NIMPBK**	**301JR**	**IO LOKI REGION (XM)**	**2R7**	**4**	**21**	**: :**	
1402	95	341	18:06:47.866	117JQ105A106B4A	7STRP	-0.019002,-0.007	Slew =,4.92	2R7	4	21	3,209,191	78:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1403	95	341	18:06:55.200	117JQ105A106B4B	7STRP	0.019002,0.0,0,0	Slew =,0.76	2R7	4	21	3,209,191:89:0	
1404	95	341	18:07:28.533	117JQ105A106C4A	7STRP	-0.022004,-0.007	Slew =,4.92	2R7	4	21	3,209,192:48:0	
1405	95	341	18:07:37.200	117JQ105A106C4B	7STRP	0.020003,0.0,0,0	Slew =,0.76	2R7	4	21	3,209,192:61:0	
1406	95	341	18:08:03.200	117LP	**CSMOS**	GS	***** GROUP START CSMOS	2R7	4	21	3,209,193:09:0	
1407	95	341	18:08:10.533	165LP4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R7	4	21	3,209,193:20:0	
1408	95	341	18:08:10.533	117JQ11A	**CSMOS**	GE	***** GROUP END CSMOS	2R7	4	21	3,209,193:20:0	
1409	95	341	18:08:11.200	175JG422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R7	4	21	3,209,193:21:0	
1410	95	341	18:08:11.200		:11.2	200 DMS: *RU		2R7	4	21	3,209,193:21:0	
1411	95	341	18:08:11.200	165LP4B	7SCAN	NORM,62.221,13.9	Check S/P Position	2R7	4	21	3,209,193:21:0	
1412	95	341	18:08:12.400		:12.4	400 DMS: *RE		2R7	4	21	3,209,193:22:8	
1413	**95**	**341**	**18:08:12.533**	**NIMS2;**	**DESELC**	**300JR**	**IO LOKI (XM)**	**2R7**	**4**	**21**	**: :**	
1414	**95**	**341**	**18:08:13.000**	**JAINLOKIPL01***		**-----STOP-------**		**2R7**	**4**	**21**	**: :**	
1415	95	341	18:08:13.200		:13.2	200 DMS: *RU		2R7	4	21	3,209,193:24:0	
1416	95	341	18:08:13.200	175PT422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R7	4	21	3,209,193:24:0	
1417	95	341	18:08:14.533	176PT6A	6TMCHG	NCGLPW	NO CHANGE / 7.68 KBPS LOW RATE SCI-PWS-NIM	2R7	4	21	3,209,193:26:0	
1418	95	341	18:08:14.666		:14.6	666 DMS: *RE		2R7	4	21	3,209,193:26:2	
1419	95	341	18:08:31.866	165LP4C	7VECT		Inert vect update UTC	2R7	4	21	3,209,193:52:0	
1420	95	341	18:08:32.533	165LP4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	2R7	4	21	3,209,193:53:0	
1421	95	341	18:08:33.200	117LP105A106A4A	7STRP	-0.042025,-0.095	Slew =0,0.6	2R7	4	21	3,209,193:54:0	
1422	95	341	18:15:34.533	117LP11A	**CSMOS**	GE	***** GROUP END CSMOS	2R7	4	21	3,209,200:49:0	
1423	95	341	18:25:36.533	175PT422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R7	4	21	3,209,210:42:0	
1424	95	341	18:25:36.533		:36.5	533 DMS: *RU		2R7	4	21	3,209,210:42:0	
1425	95	341	18:25:37.800		:37.8	800 DMS: *RE		2R7	4	21	3,209,210:43:9	
1426	95	342	05:00:00.466	481AB4A	7VECT		Inert vect update UTC	2R7	4	21	3,209,837:81:0	
1427	95	342	17:01:54.466	476A6A	6TMCHG	ELSLRS	10 BPS TDM / LRS Rec 7.68kb/s	2R7	4	21	3,210,551:78:0	
1428	95	342	17:59:59.800		:59.8	800 DMS: *RE		2R7	4	21	3,210,609:28:0	

JAJNPES2D201

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OAPEL:  JAJNPES2D201            ALIAS:  JAJNPES2D201
EXT:    A                       PSID:   JA
SCLK1:  03208096:76:0           SCLK2:  03208098:34:0
SCET1:  1995-340/23:39:36.533   SCET2:  1995-340/23:41:09.866
TARGET: JUPITER                 PARTITION: 1

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

MB_DOWN:    00000               MB_UP:      00000
COMP_FLAG:  1
EST_COMP:   2.0                 EST_COMPV:  0.3
RATE_CON1:  00000               RATE_CON2:  00000
NWAVETOT:   102                 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:     0501102000          05  01  102  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	00000	0,0000,0000,0000,0000

JAJNPES2D301

```
OAPEL:  JAJNPES2D301              ALIAS:  JAJNPES2D301
EXT:    A                         PSID:   JB
SCLK1:  03208182:13:0             SCLK2:  03208183:62:0
SCET1:  1995-341/01:05:51.866     SCET2:  1995-341/01:07:25.200
TARGET: JUPITER                   PARTITION: 1

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

MB_DOWN:    00000                 MB_UP:      00000
COMP_FLAG:  1
EST_COMP:   2.0                   EST_COMPV:  0.3
RATE_CON1:  00000                 RATE_CON2:  00000
NWAVETOT:   102                   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:     0501102000          05  01  102  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	00000	0,0000,0000,0000,0000

JAJNPES1N_01

OAPEL: JAJNPES1N_01 ALIAS: JAJNPES1N_01
EXT: A PSID: JC
SCLK1: 03208573:06:0 SCLK2: 03208578:72:0
SCET1: 1995-341/07:41:07.866 SCET2: 1995-341/07:46:55.200
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: 00000
NWAVETOT: 408 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: 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

JAJNPES1D101

OAPEL: JAJNPES1D101 ALIAS: JAJNPES1D101
EXT: A PSID: JD
SCLK1: 03208638:45:0 SCLK2: 03208644:20:0
SCET1: 1995-341/08:47:17.200 SCET2: 1995-341/08:53:04.533
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: 00000
NWAVETOT: 408 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: 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

JAJNPES1D201

OAPEL: JAJNPES1D201 ALIAS: JAJNPES1D201
EXT: A PSID: JE
SCLK1: 03208708:71:0 SCLK2: 03208715:61:0
SCET1: 1995-341/09:58:21.200 SCET2: 1995-341/10:05:19.200
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: 00000
NWAVETOT: 408 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: 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

JAJNPES1D301

OAPEL: JAJNPES1D301 ALIAS: JAJNPES1D301
EXT: A PSID: JF
SCLK1: 03208791:58:0 SCLK2: 03208797:33:0
SCET1: 1995-341/11:22:07.866 SCET2: 1995-341/11:27:55.200
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: 00000
NWAVETOT: 408 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: 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

JAENSOPOLE01

```
OAPEL:  JAENSOPOLE01            ALIAS:  JAENSOPOLE01
EXT:    A                       PSID:   JG
SCLK1:  03208886:56:0           SCLK2:  03208905:83:0
SCET1:  1995-341/12:58:09.866   SCET2:  1995-341/13:17:40.533
TARGET: EUROPA                  PARTITION: 1

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

MB_DOWN:    00000               MB_UP:      00000
COMP_FLAG:  1
EST_COMP:   2.0                 EST_COMPV:  0.3
RATE_CON1:  00000               RATE_CON2:  00000
NWAVETOT:   204                 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:     1301204000          13  01  204  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	00000	0,0000,0000,0000,0000

JAINHRSPEC01

```
OAPEL:  JAINHRSPEC01            ALIAS:  JAINHRSPEC01
EXT:    B                       PSID:   JH
SCLK1:  03209014:00:0           SCLK2:  03209047:26:0
SCET1:  1995-341/15:06:57.866   SCET2:  1995-341/15:40:37.200
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:  00000
NWAVETOT:   408                 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:     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

JAINGLOBAL01

```
OAPEL:  JAINGLOBAL01            ALIAS:  JAINGLOBAL01
EXT:    A                       PSID:   JJ
SCLK1:  03209085:05:0           SCLK2:  03209092:00:0
SCET1:  1995-341/16:18:48.533   SCET2:  1995-341/16:25:49.866
TARGET: IO                      PARTITION: 1

MODE:       7                   GAIN:       2
CHOP:       1                   GRAT_OFF:   4
PTAB_A:     1 1 021 012         PTAB_B:     1 1 021 012
ECAL:       0                   OPCAL:      0
R/T:        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:  00000
NWAVETOT:   017                 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:     0702017000          07  02  017  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	00000	0,0000,0000,0000,0000

JAINHRCHEM01

```
OAPEL:  JAINHRCHEM01            ALIAS:  JAINHRCHEM01
EXT:    A                       PSID:   JK
SCLK1:  03209122:13:0           SCLK2:  03209130:16:0
SCET1:  1995-341/16:56:18.533   SCET2:  1995-341/17:04:25.866
TARGET: IO                      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:  00000
NWAVETOT:   102                 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:     0501102000          05  01  102  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	00000	0,0000,0000,0000,0000

JAINMTMESA01

```
OAPEL:  JAINMTMESA01            ALIAS:  JAINMTMESA01
EXT:    C                       PSID:   JL
SCLK1:  03209152:27:0           SCLK2:  03209152:72:0
SCET1:  1995-341/17:26:47.866   SCET2:  1995-341/17:27:17.866
TARGET: IO                      PARTITION: 1

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

MB_DOWN:   00000                MB_UP:     00000
COMP_FLAG: 1
EST_COMP:  2.0                  EST_COMPV: 0.3
RATE_CON1: 00000                RATE_CON2: 00000
NWAVETOT:  204                  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:    1301204000          13  01  204  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	00000	0,0000,0000,0000,0000

JAINLBSCAN01

```
OAPEL:  JAINLBSCAN01            ALIAS:  JAINLBSCAN01
EXT:    C                       PSID:   JM
SCLK1:  03209155:29:0           SCLK2:  03209155:76:0
SCET1:  1995-341/17:29:51.200   SCET2:  1995-341/17:30:22.533
TARGET: IO                      PARTITION: 1

MODE:       7                   GAIN:       4
CHOP:       1                   GRAT_OFF:   4
PTAB_A:     1 0 015 012         PTAB_B:     1 0 015 012
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:  00000
NWAVETOT:   017                 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:     0702017000          07  02  017  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	00000	0,0000,0000,0000,0000

JAINPROMVT01

```
OAPEL:  JAINPROMVT01              ALIAS:  JAINPROMVT01
EXT:    C                         PSID:   JN
SCLK1:  03209160:07:0             SCLK2:  03209160:77:0
SCET1:  1995-341/17:34:39.866     SCET2:  1995-341/17:35:26.533
TARGET: IO                        PARTITION: 1

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

MB_DOWN:    00000                 MB_UP:      00000
COMP_FLAG:  1
EST_COMP:   2.0                   EST_COMPV:  0.3
RATE_CON1:  00000                 RATE_CON2:  00000
NWAVETOT:   204                   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:     1301204000          13  01  204  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	00000	0,0000,0000,0000,0000

JAINVOLUND01

```
OAPEL:  JAINVOLUND01              ALIAS:  JAINVOLUND01
EXT:    A                         PSID:   JO
SCLK1:  03209163:31:0             SCLK2:  03209164:06:0
SCET1:  1995-341/17:37:57.866     SCET2:  1995-341/17:38:41.866
TARGET: IO                        PARTITION: 1

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

MB_DOWN:    00000                 MB_UP:      00000
COMP_FLAG:  1
EST_COMP:   2.0                   EST_COMPV:  0.3
RATE_CON1:  00000                 RATE_CON2:  00000
NWAVETOT:   204                   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:     1301204000          13  01  204  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	00000	0,0000,0000,0000,0000

JAINCOLCHS01

```
OAPEL:  JAINCOLCHS01            ALIAS:  JAINCOLCHS01
EXT:    B                       PSID:   JP
SCLK1:  03209165:49:0           SCLK2:  03209166:13:0
SCET1:  1995-341/17:40:11.200   SCET2:  1995-341/17:40:47.866
TARGET: IO                      PARTITION: 1

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

MB_DOWN:    00000               MB_UP:      00000
COMP_FLAG:  1
EST_COMP:   2.0                 EST_COMPV:  0.3
RATE_CON1:  00000               RATE_CON2:  00000
NWAVETOT:   204                 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:     1301204000          13  01  204  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	00000	0,0000,0000,0000,0000

JAINHOTSPT01

```
OAPEL:  JAINHOTSPT01            ALIAS:  JAIPKANEHE01
EXT:    A                       PSID:   LN
SCLK1:  03209180:26:0           SCLK2:  03209184:60:0
SCET1:  1995-341/17:55:05.866   SCET2:  1995-341/17:59:31.200
TARGET: IO                      PARTITION: 1

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

MB_DOWN:    00000               MB_UP:      00000
COMP_FLAG:  1
EST_COMP:   2.0                 EST_COMPV:  0.3
RATE_CON1:  00000               RATE_CON2:  00000
NWAVETOT:   017                 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:     0702017000          07  02  017  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	00000	0,0000,0000,0000,0000

JAINLOKIPL01

```
OAPEL:  JAINLOKIPL01            ALIAS:  JAINLOKIPL01
EXT:    A                       PSID:   JQ
SCLK1:  03209191:27:0           SCLK2:  03209193:21:0
SCET1:  1995-341/18:06:13.866   SCET2:  1995-341/18:08:11.200
TARGET: IO                      PARTITION: 1

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

MB_DOWN:   00000                MB_UP:     00000
COMP_FLAG: 1
EST_COMP:  2.0                  EST_COMPV: 0.3
RATE_CON1: 00000                RATE_CON2: 00000
NWAVETOT:  017                  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:    0702017000          07  02  017  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	00000	0,0000,0000,0000,0000

NIMS J0 OBSTAB

This is a time-ordered ASCII TABLE (listing) of GALILEO NIMS observation parameters for use by downlink data processing of the NIMS J0 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
   JRINGS   - R - Jupiter rings
   (the single letter abbreviation appears as the third character in the OAPEL name ).
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```

```
-------------------------------------------------------------------------------------------------------------------------------
JAJNPES2D201JAJNPES2D201AJA03208096:76:003208098:34:01         JUPITER  5214 1 1 0 1 4 6 1 1 0 1 4 600010 0000000000 1 2.00.3000
0000000                  102MPW1995-340/23:39:36.5331995-340/23:41:09.866
          00000000000000000000000000000000000000000000000000501102000 2061FFFF0100000

JAJNPES2D301JAJNPES2D301AJB03208182:13:003208183:62:01         JUPITER  5214 1 1 0 1 4 6 1 1 0 1 4 600010 0000000000 1 2.00.3000
0000000                  102MPW1995-341/01:05:51.8661995-341/01:07:25.200
          00000000000000000000000000000000000000000000000000501102000 2061FFFF0100000

JAJNPES1N_01JAJNPES1N_01AJC03208573:06:003208578:72:01         JUPITER  3214 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0000000                  408MPW1995-341/07:41:07.8661995-341/07:46:55.200
          00000000000000000000000000000000000000000000000000302408000 2241FFFF0200000

JAJNPES1D101JAJNPES1D101AJD03208638:45:003208644:20:01         JUPITER  3214 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0000000                  408MPW1995-341/08:47:17.2001995-341/08:53:04.533
          00000000000000000000000000000000000000000000000000302408000 2241FFFF0200000

JAJNPES1D201JAJNPES1D201AJE03208708:71:003208715:61:01         JUPITER  3214 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0000000                  408MPW1995-341/09:58:21.2001995-341/10:05:19.200
          00000000000000000000000000000000000000000000000000302408000 2241FFFF0200000

JAJNPES1D301JAJNPES1D301AJF03208791:58:003208797:33:01         JUPITER  3214 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0000000                  408MPW1995-341/11:22:07.8661995-341/11:27:55.200
          00000000000000000000000000000000000000000000000000302408000 2241FFFF0200000

JAENSOPOLE01JAENSOPOLE01AJG03208886:56:003208905:83:01         EUROPA   1314 1 1 0 1 212 1 1 0 1 21200010 0000000000 1 2.00.3000
0000000                  204MPW1995-341/12:58:09.8661995-341/13:17:40.533
          00000000000000000000000000000000000000000000000001301204000 2121FFFF0100000

JAINHRSPEC01JAINHRSPEC01BJH03209014:00:003209047:26:01         IO       3214 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0000000                  408MPW1995-341/15:06:57.8661995-341/15:40:37.200
          00000000000000000000000000000000000000000000000000302408000 2241FFFF0200000

JAINGLOBAL01JAINGLOBAL01AJJ03209085:05:003209092:00:01         IO       7214 1 1 021 012 1 1 021 01200010 0000000000 1 2.00.3000
0000000                  017MPW1995-341/16:18:48.5331995-341/16:25:49.866
          00000000000000000000000000000000000000000000000000702017000 2121FFFF0100000

JAINHRCHEM01JAINHRCHEM01AJK03209122:13:003209130:16:01         IO       5214 1 1 0 1 4 6 1 1 0 1 4 600010 0000000000 1 2.00.3000
0000000                  102MPW1995-341/16:56:18.5331995-341/17:04:25.866
          00000000000000000000000000000000000000000000000000501102000 2061FFFF0100000

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JAINMTMESA01JAINMTMESA01CJL03209152:27:003209152:72:01         IO       1214 1 1 0 1 212 1 1 0 1 21200010 0000000000 1 2.00.3000
0000000                  204MPW1995-341/17:26:47.8661995-341/17:27:17.866
          00000000000000000000000000000000000000000000000001301204000 2121FFFF0100000

JAINLBSCAN01JAINLBSCAN01CJM03209155:29:003209155:76:01         IO       7414 1 0 015 012 1 0 015 01200010 0000000000 1 2.00.3000
0000000                  017MPW1995-341/17:29:51.2001995-341/17:30:22.533
          00000000000000000000000000000000000000000000000000702017000 2121FFFF0100000

JAINPROMVT01JAINPROMVT01CJN03209160:07:003209160:77:01         IO       1214 1 1 0 1 212 1 1 0 1 21200010 0000000000 1 2.00.3000
0000000                  204MPW1995-341/17:34:39.8661995-341/17:35:26.533
          00000000000000000000000000000000000000000000000001301204000 2121FFFF0100000

JAINVOLUND01JAINVOLUND01AJO03209163:31:003209164:06:01         IO       1214 1 1 0 1 212 1 1 0 1 21200010 0000000000 1 2.00.3000
0000000                  204MPW1995-341/17:37:57.8661995-341/17:38:41.866
          00000000000000000000000000000000000000000000000001301204000 2121FFFF0100000

JAINCOLCHS01JAINCOLCHS01BJP03209165:49:003209166:13:01         IO       1214 1 1 0 1 212 1 1 0 1 21200010 0000000000 1 2.00.3000
0000000                  204MPW1995-341/17:40:11.2001995-341/17:40:47.866
          00000000000000000000000000000000000000000000000001301204000 2121FFFF0100000

JAINHOTSPT01JAIPKANEHE01ALN03209180:26:003209184:60:01         IO       7214 1 1 021 012 1 1 021 01200010 0000000000 1 2.00.3000
0000000                  017MPW1995-341/17:55:05.8661995-341/17:59:31.200
          00000000000000000000000000000000000000000000000000702017000 2121FFFF0100000

JAINLOKIPL01JAINLOKIPL01AJQ03209191:27:003209193:21:01         IO       7214 1 1 021 012 1 1 021 01200010 0000000000 1 2.00.3000
0000000                  017MPW1995-341/18:06:13.8661995-341/18:08:11.200
          00000000000000000000000000000000000000000000000000702017000 2121FFFF0100000

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Chapter 3 - Orbit Geometries

Contents

Contents

Introduction to Chapter 3

This chapter contains diagrams of various aspects of geometry for the J0 Orbit.

The figure on page 5 is a North Trajectory Pole View of the J0 Orbit from +/- 5 days of Io closest approach.

The figure on page 6 is a North Trajectory Pole View of the J0 Orbit from +/- 1 day of Io closest approach.

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

The figure on page 8 shows the spacecraft's groundtrack on Io at Io closest approach.

The figure on page 9 shows the spacecraft's groundtrack on Jupiter at Jupiter closest approach.

The figure on page 10 is a North Trajectory Pole View of the J0 Orbit from +/- 1 hour of Europa closest approach.

The figure on page 11 is a North Trajectory Pole View of the J0 Orbit from +/- 15 minutes of Io closest approach.

The figure on page 12 is a North Trajectory Pole View of the J0 Orbit from +/- 1 hour of Io closest approach.

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

The figure on page 14 shows spacecraft altitude with respect to Europa (km).

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

The figure on page 16 shows the cone angle of Io (Earth - S/C - Io, deg).

The figure on page 17 shows spacecraft altitude with respect to Io (km).

The figure on page 18 shows the Sun-Io-S/C Angle (deg).

The figure on page 19 shows the cone angle of Jupiter (Earth - S/C - Jupiter, deg), at flyby.

The figure on page 20 shows spacecraft range to Jupiter's center of mass (Rj), at flyby.

The figure on page 21 shows the Sun-Jupiter-S/C Angle (deg), at flyby.

The figure on page 22 shows the cone angle of Jupiter (Earth - S/C - Jupiter, deg), inbound.

Introduction to Chapter 3

The figure on page 23 shows spacecraft range to Jupiter's center of mass (Rj), inbound.

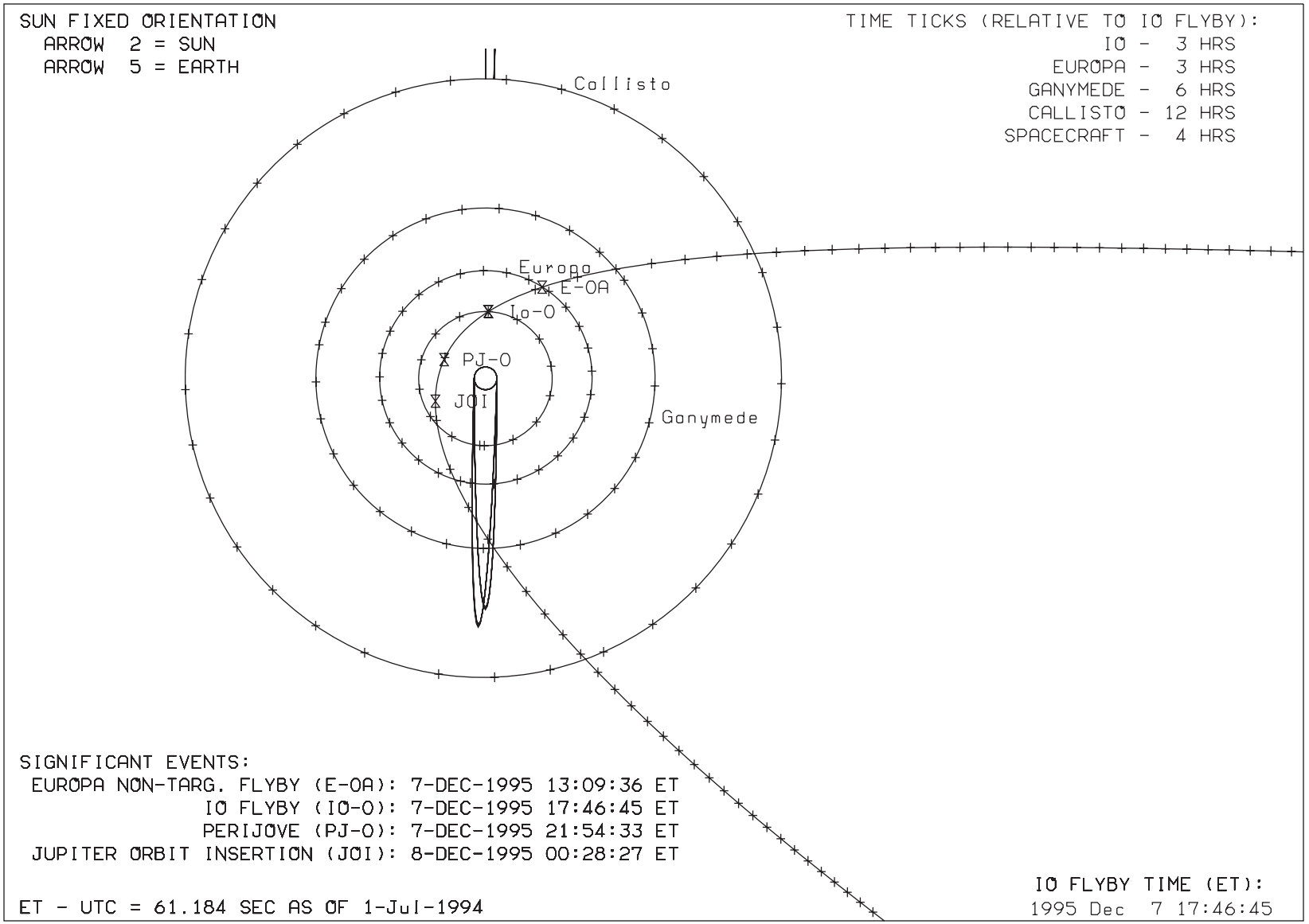
The figure on page 24 shows the Sun-Jupiter-S/C Angle (deg), inbound.

The figure on page 25 shows the cone angle of Jupiter (Earth - S/C - Jupiter, deg), outbound.

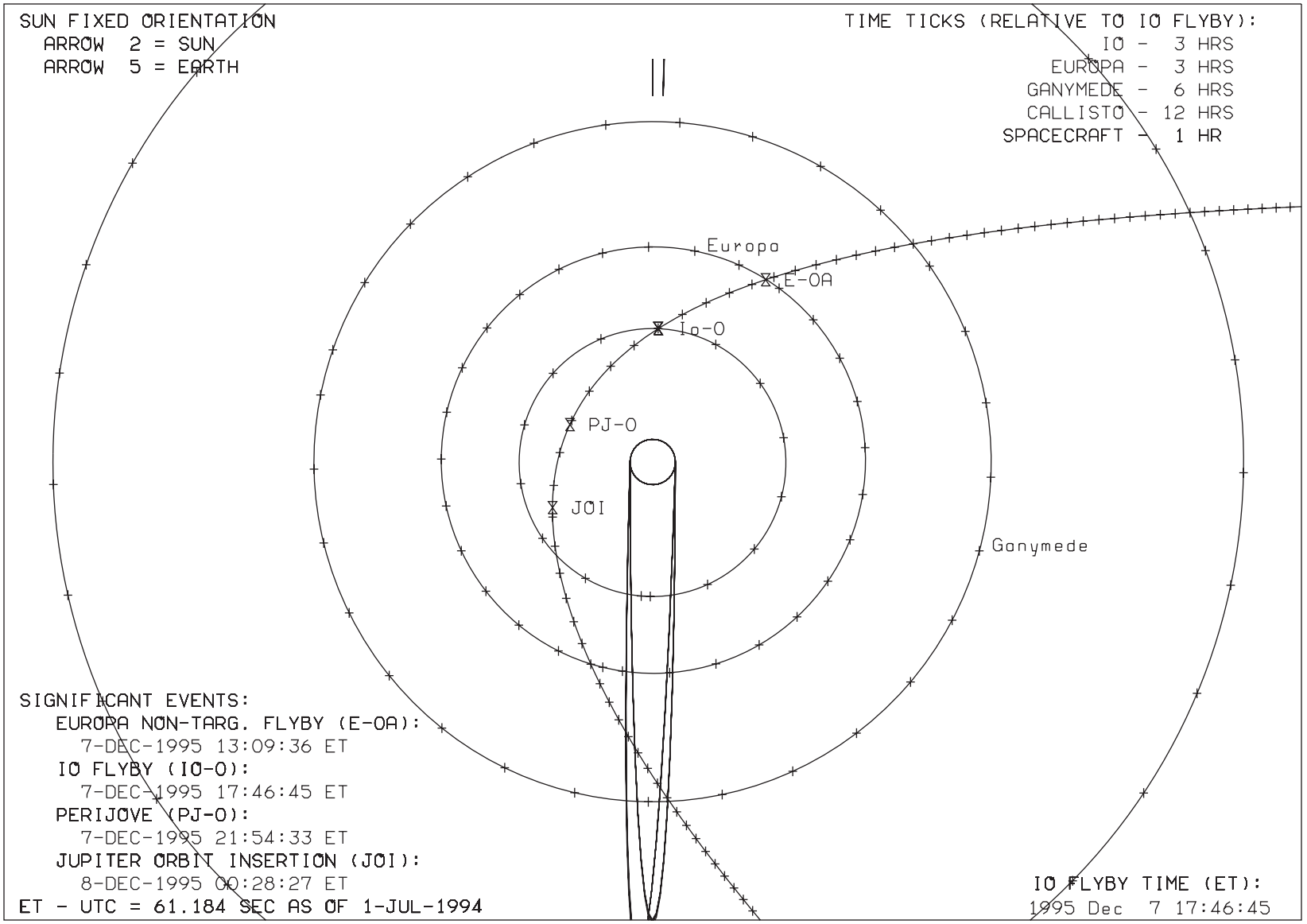
The figure on page 26 shows spacecraft range to Jupiter's center of mass (Rj), outbound.

The figure on page 27 shows the Sun-Jupiter-S/C Angle (deg), outbound.

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



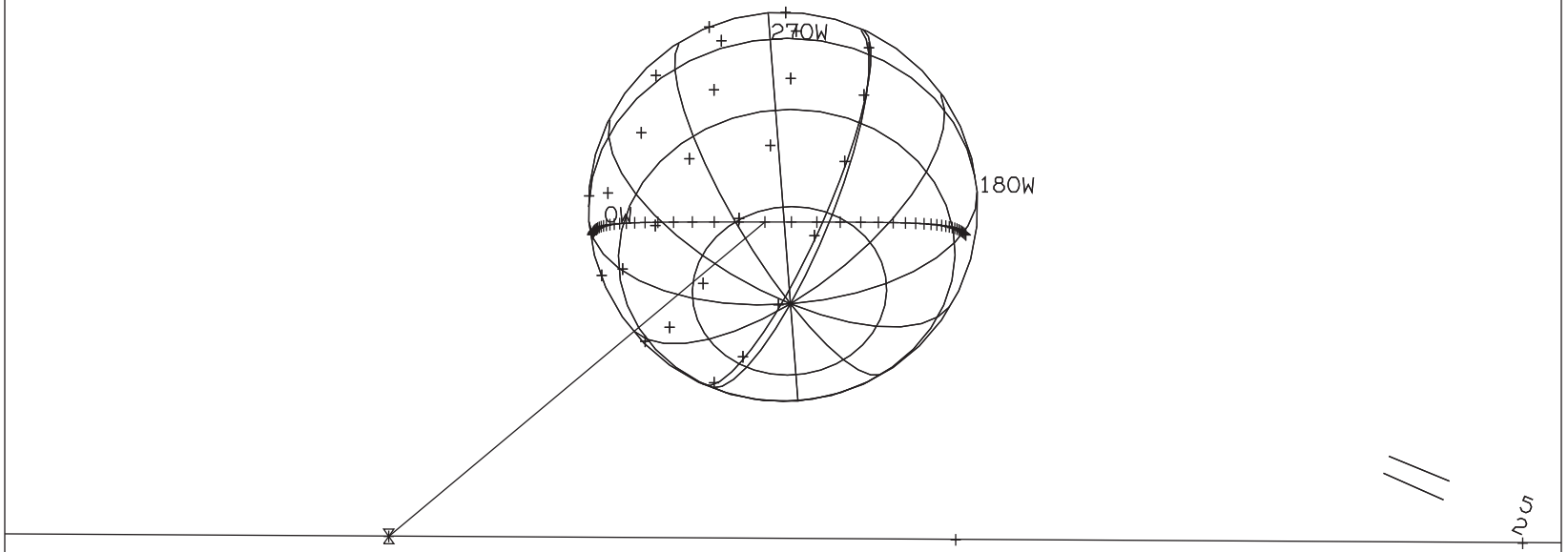
Jupiter O: North Trajectory Pole View (Io +/- 1 day)



EUROPA 0A: GROUNDTRACK AT CLOSEST APPROACH

SIGNIFICANT EVENTS:
EUROPA NON-TARG. FLYBY (E-0A): 7-DEC-1995 13:09:36 ET
IO FLYBY (IO-0): 7-DEC-1995 17:46:45 ET
PERIJOVE (PJ-0): 7-DEC-1995 21:54:33 ET
JUPITER ORBIT INSERTION (JOI): 8-DEC-1995 00:28:27 ET

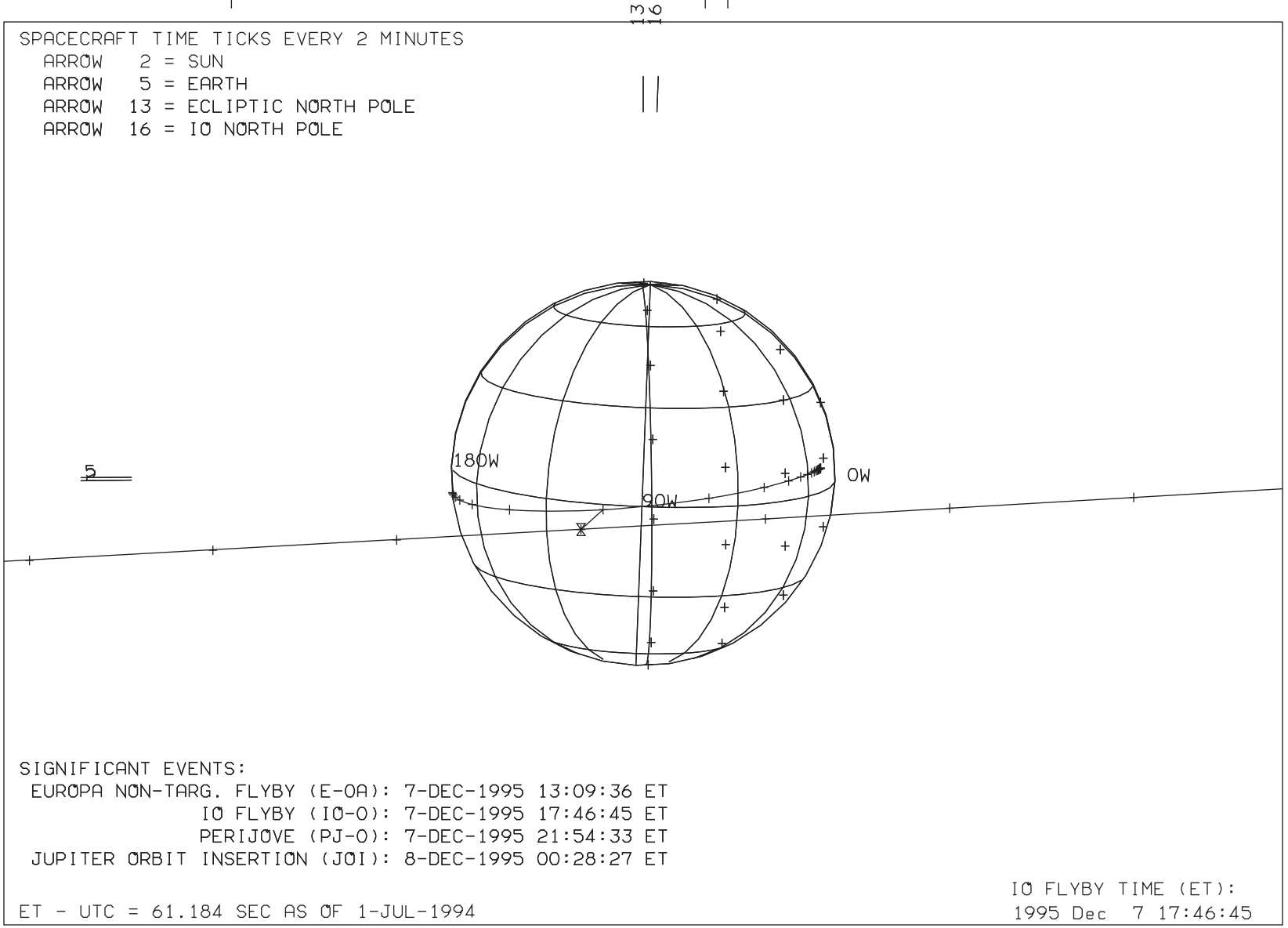
SPACECRAFT TIME TICKS EVERY 5 MINUTES
ARROW 2 = SUN
ARROW 5 = EARTH
ARROW 13 = ECLIPTIC NORTH POLE
ARROW 16 = IO NORTH POLE



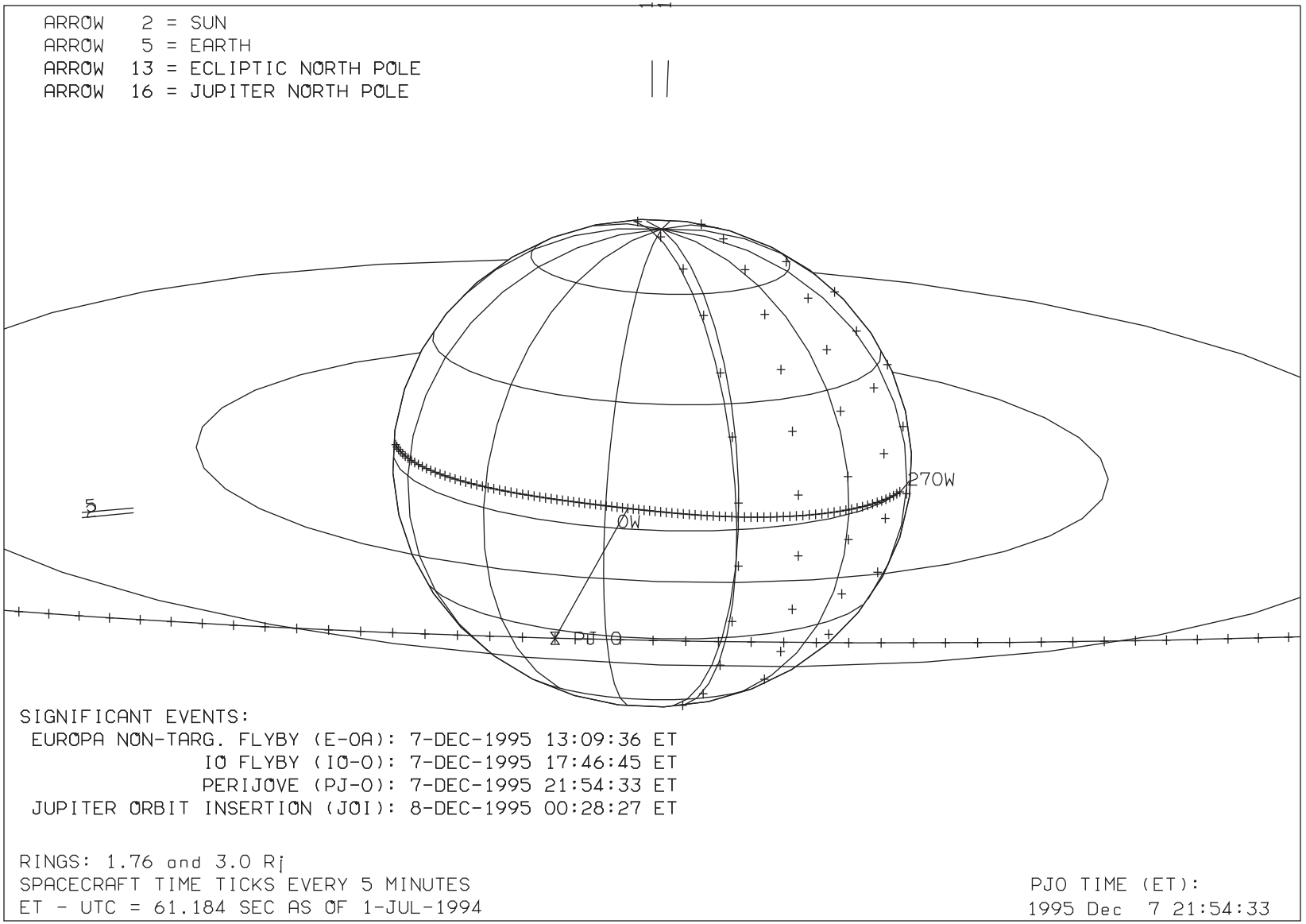
ET - UTC = 61.184 SEC AS OF 1-JUL-1994

EUROPA FLYBY TIME (ET):
1995 Dec 7 13:09:36

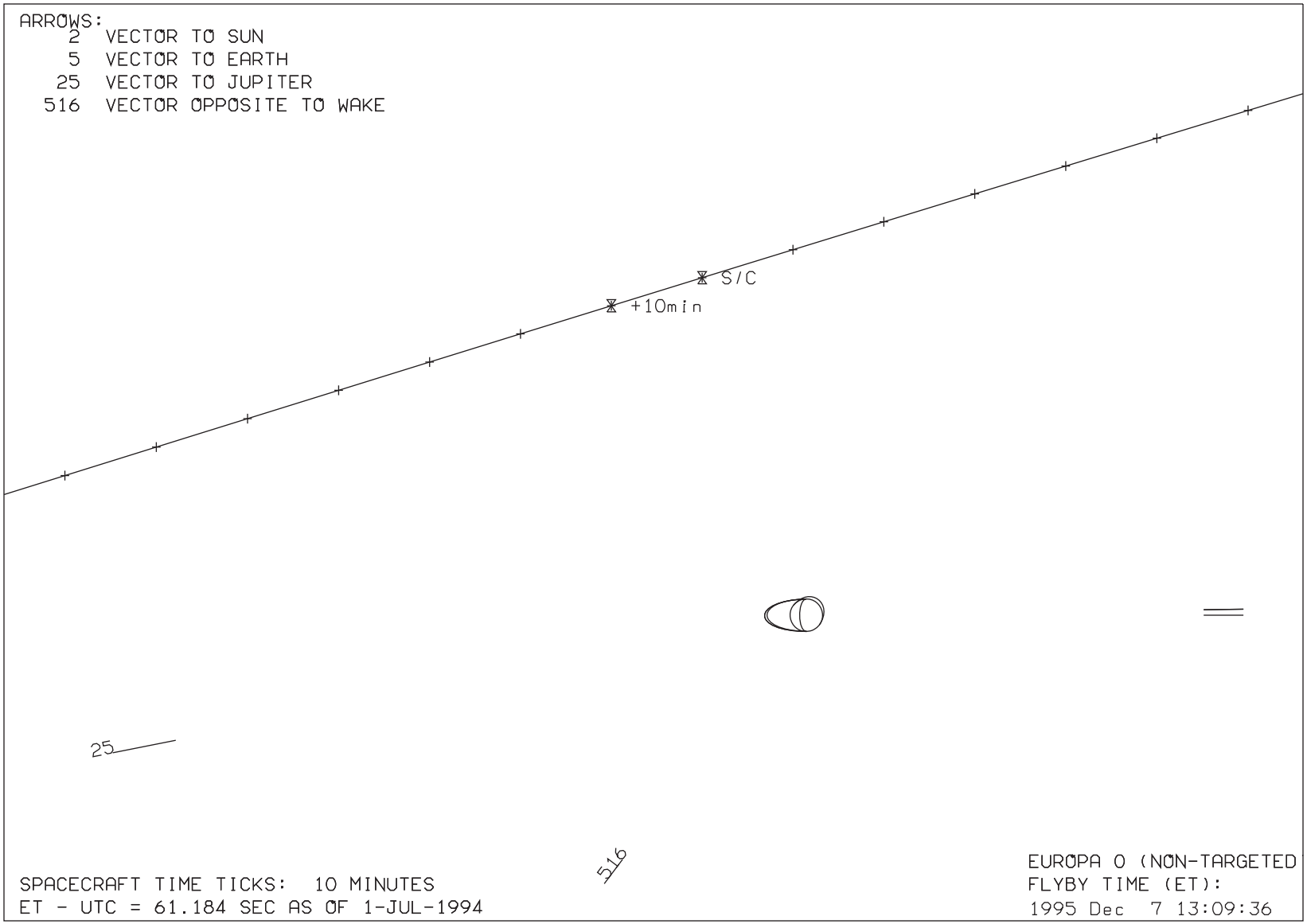
Jupiter 0: Io Closest Approach Groundtrack



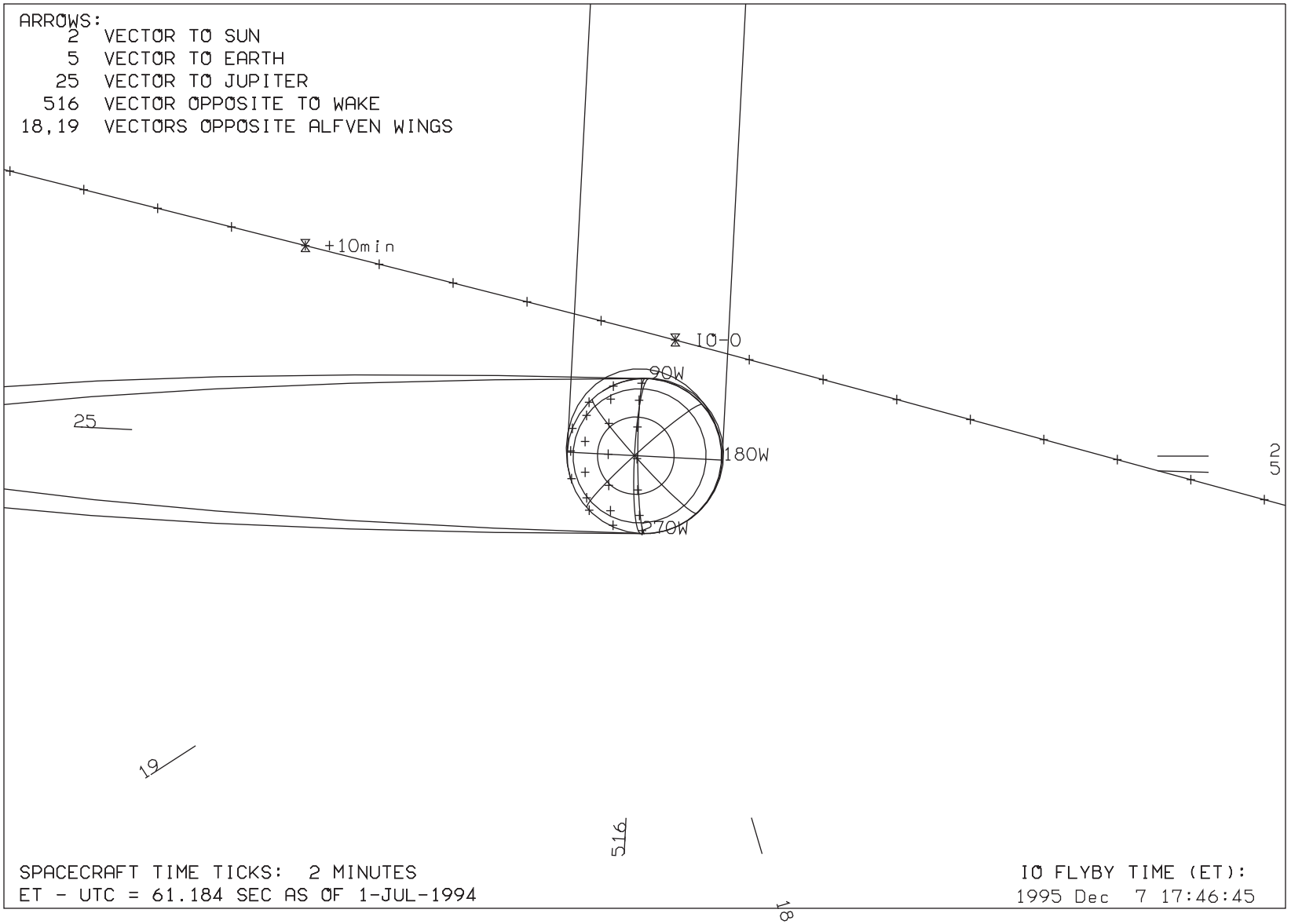
JUPITER 0: GROUNDTRACK AT CLOSEST APPROACH



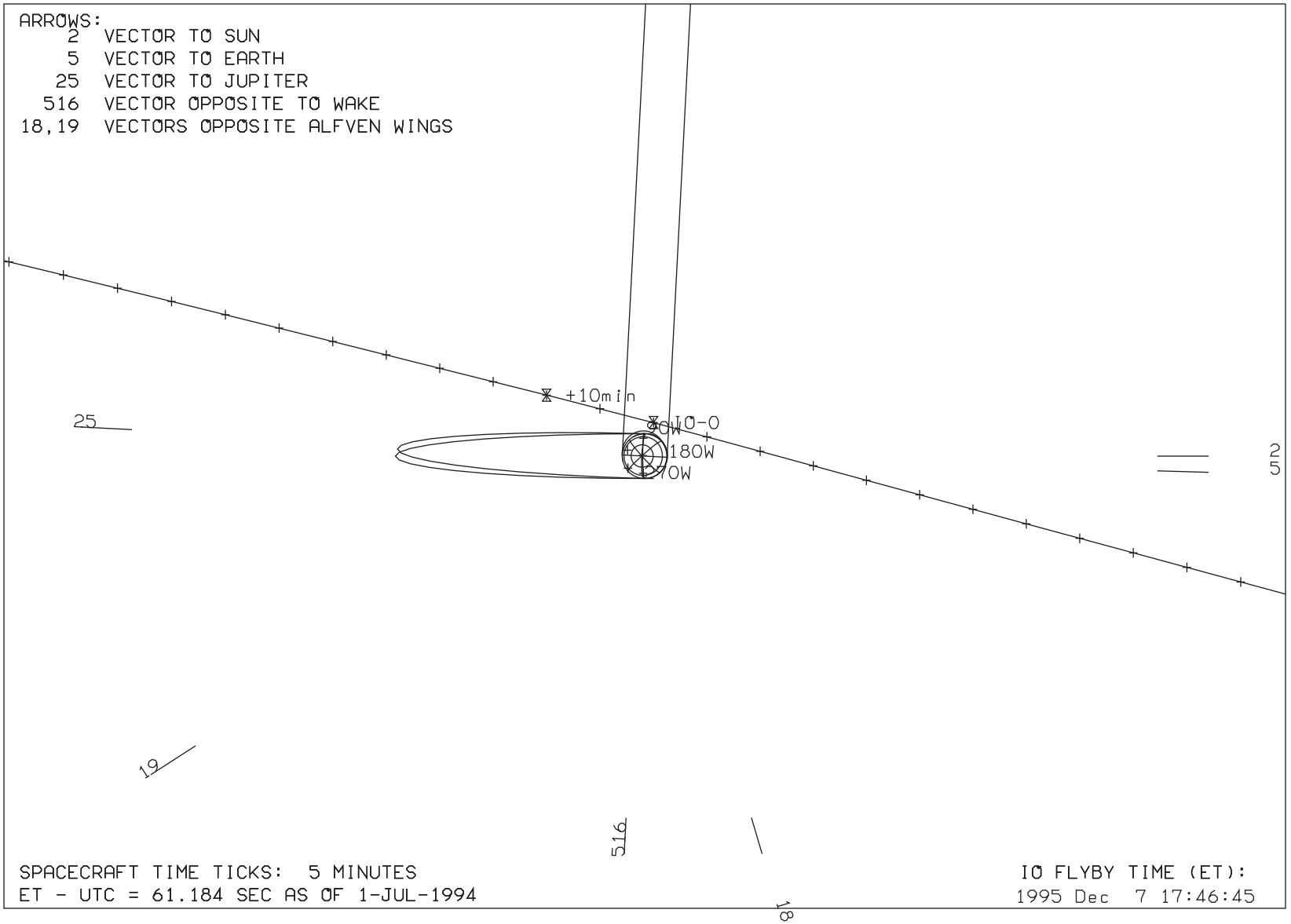
JUPITER 0: EUROPA FLYBY TRAJECTORY POLE VIEW

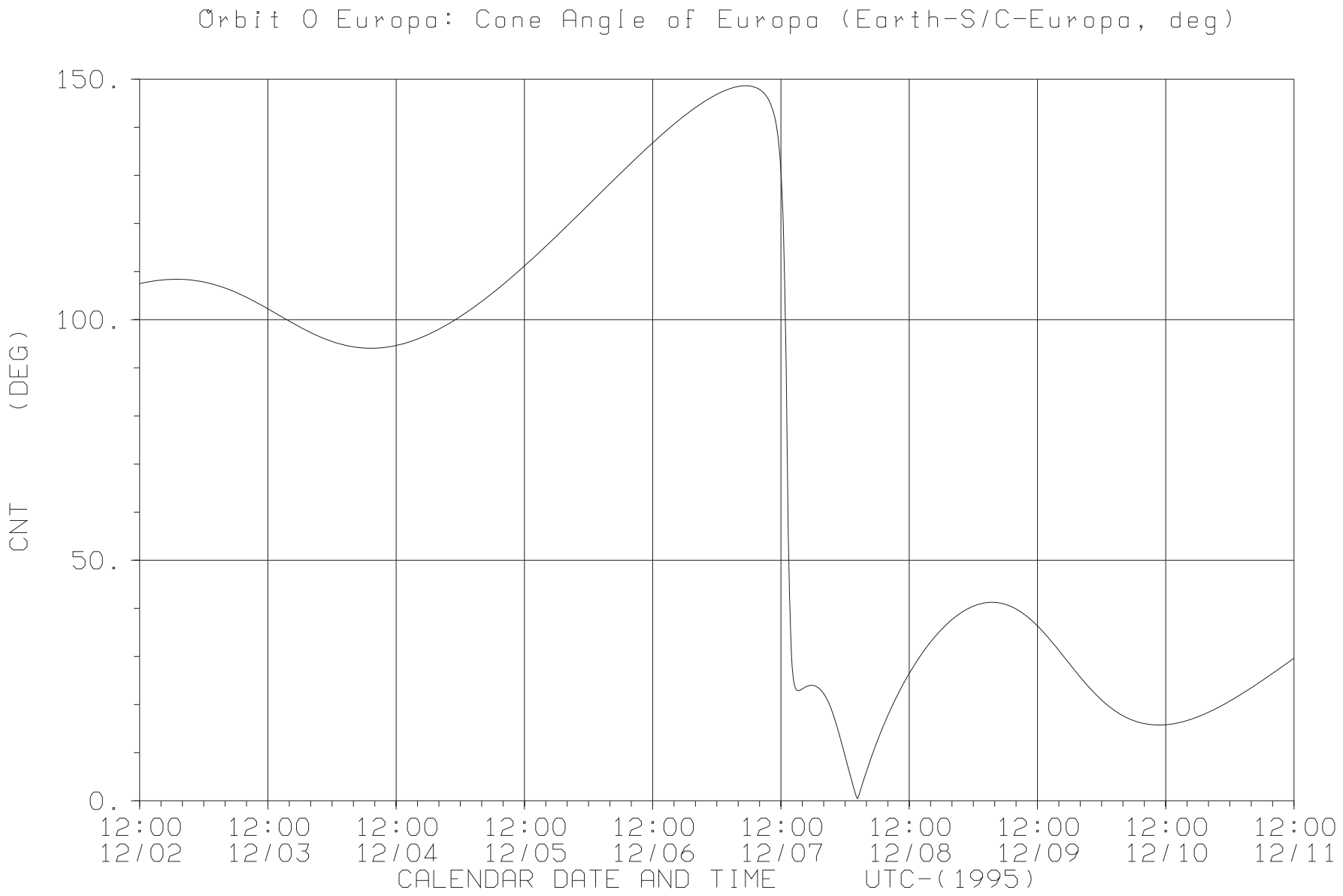


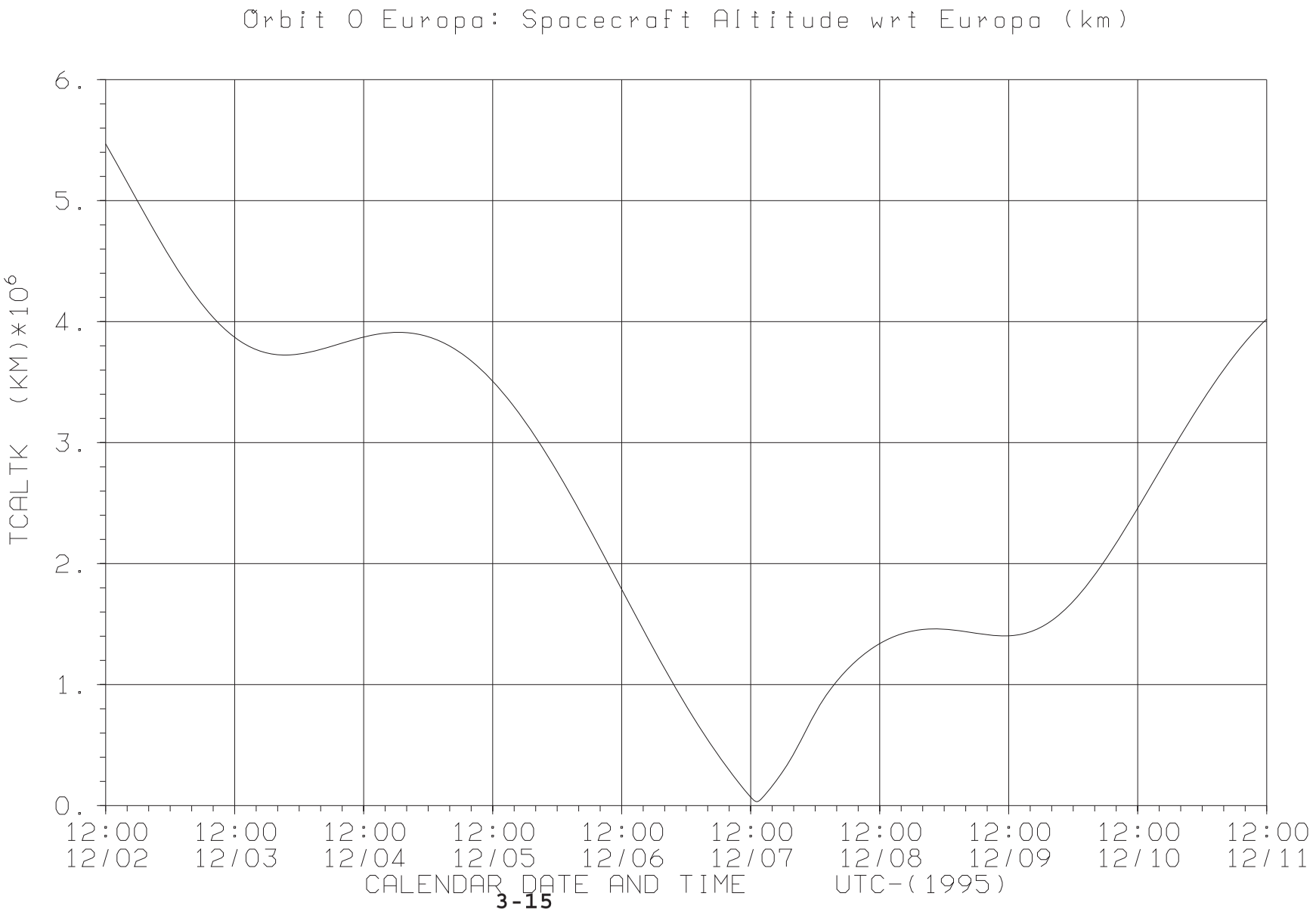
JUPITER 0: IO FLYBY TRAJECTORY POLE VIEW



JUPITER 0: IO FLYBY TRAJECTORY POLE VIEW

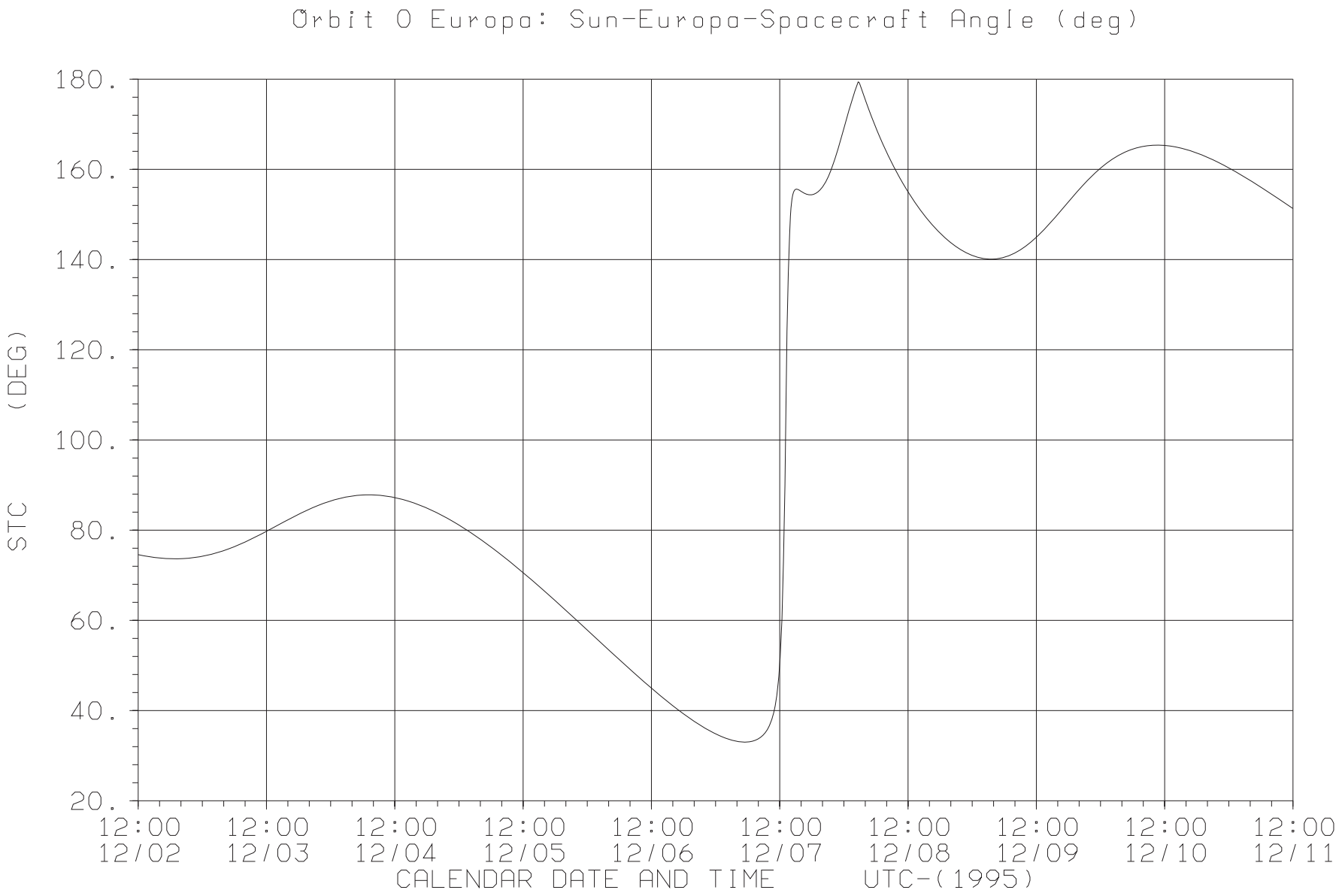


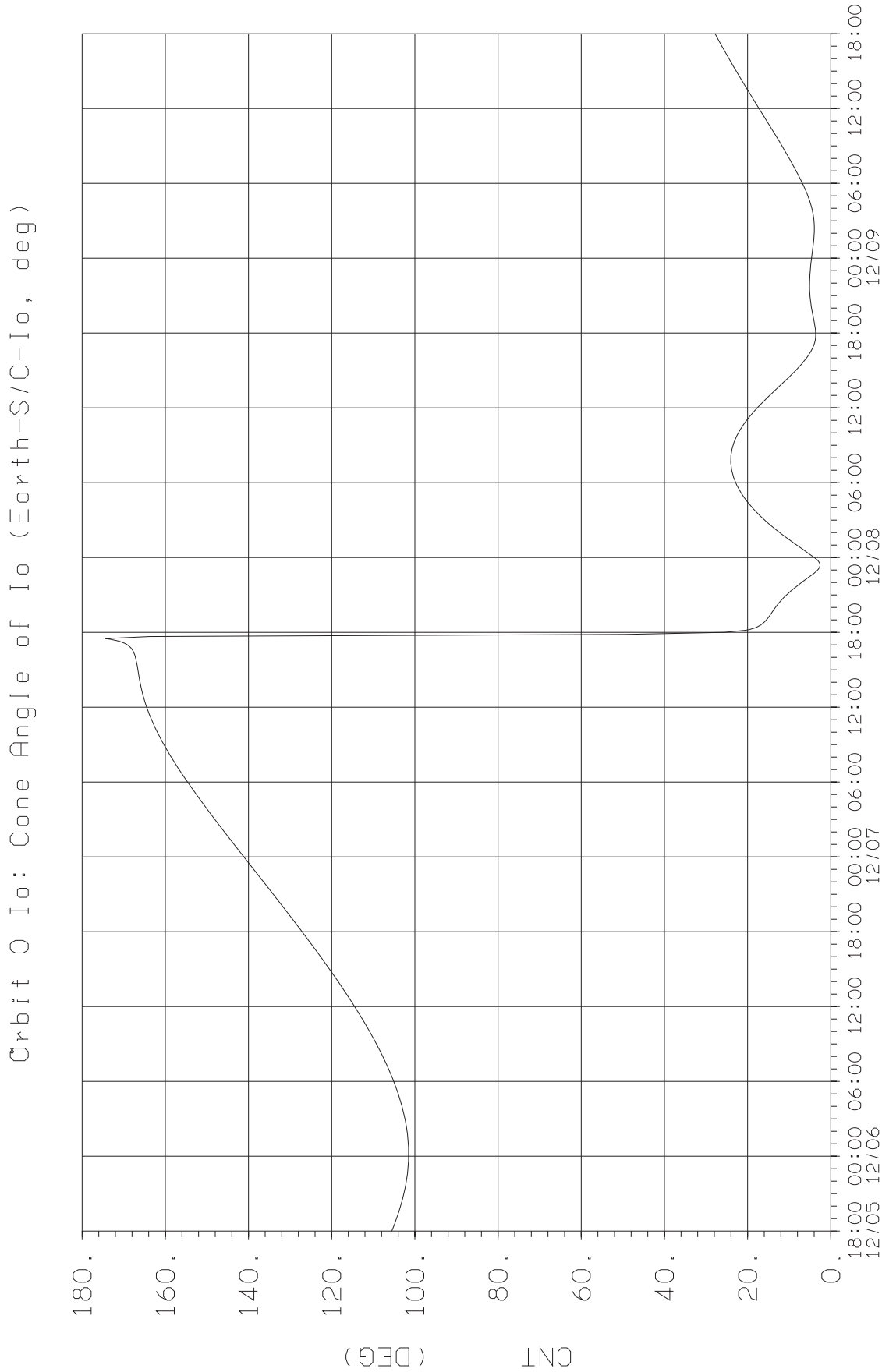

Orbit 0 Europa: Cone Angle of Europa (Earth-S/C-Europa, deg)
150.
100.
50.
0.
CNT (DEG)
12:00 12/02
12:00 12/03
12:00 12/04
12:00 12/05
12:00 12/06
12:00 12/07
12:00 12/08
12:00 12/09
12:00 12/10
12:00 12/11
CALENDAR DATE AND TIME UTC-(1995)

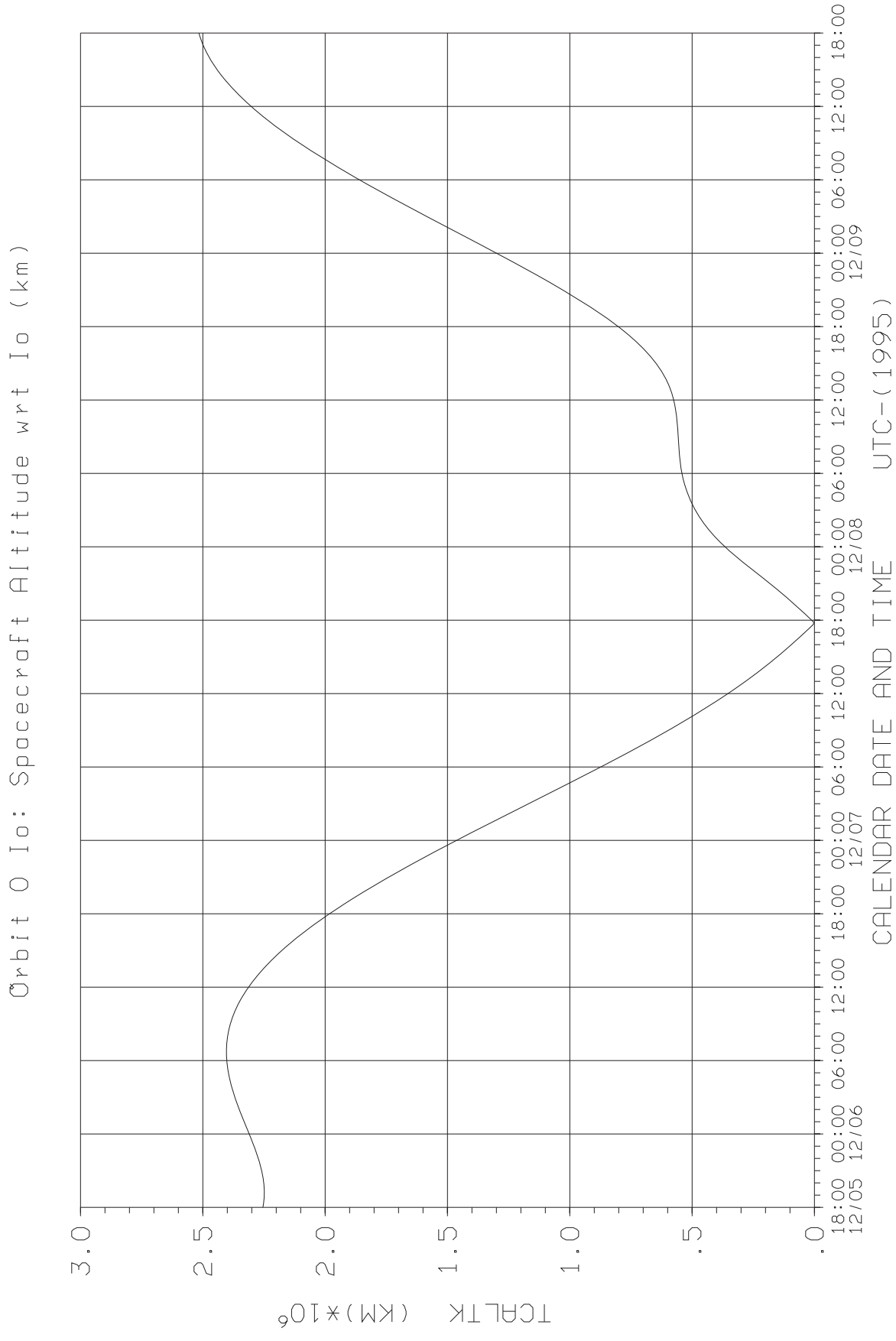

Orbit 0 Europa: Spacecraft Altitude wrt Europa (km)
TCALTK (KM)*10^6
6.
5.
4.
3.
2.
1.
0.
12:00 12/02
12:00 12/03
12:00 12/04
12:00 12/05
12:00 12/06
12:00 12/07
12:00 12/08
12:00 12/09
12:00 12/10
12:00 12/11
CALENDAR DATE AND TIME UTC-(1995)

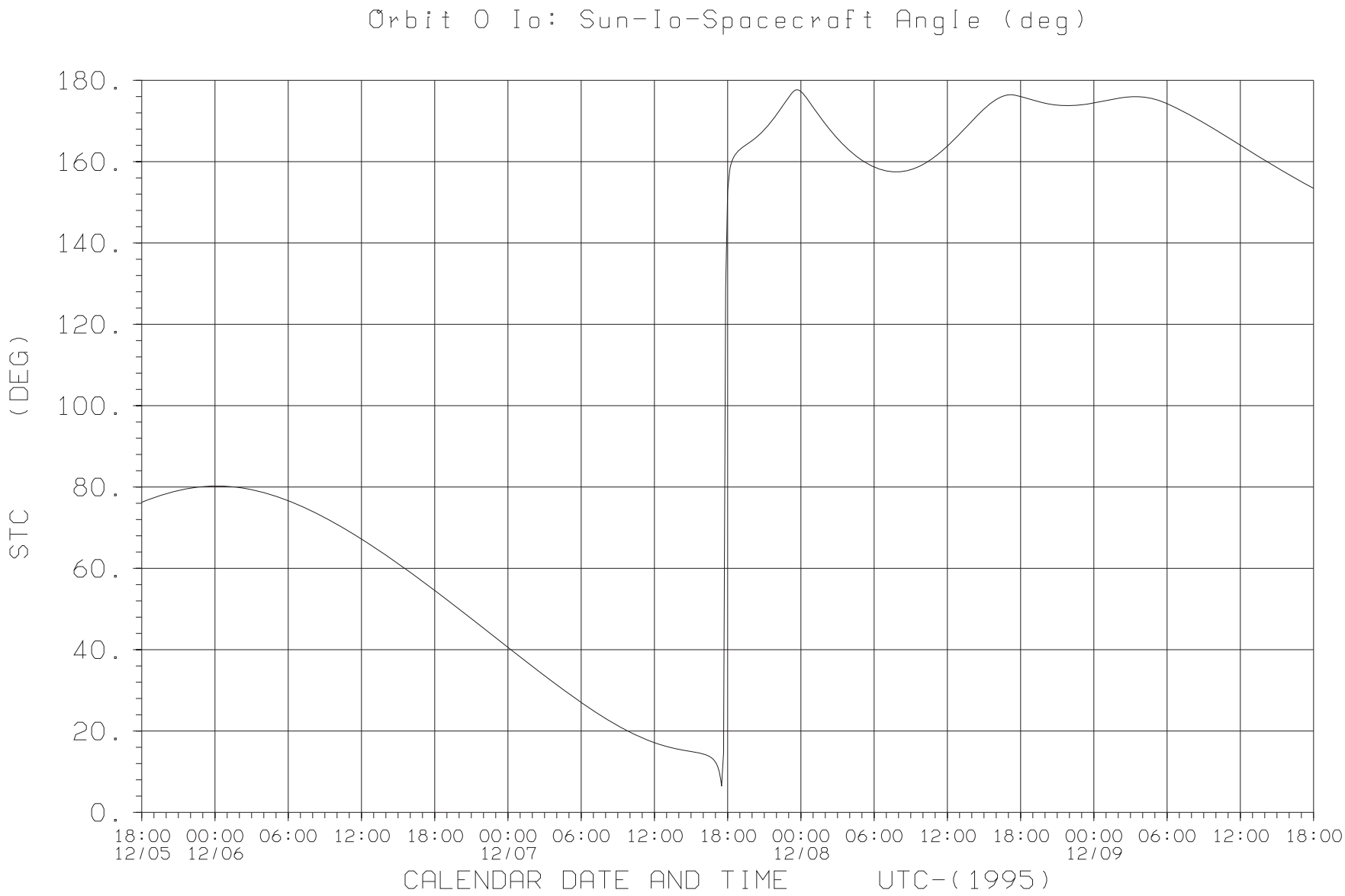
3-14

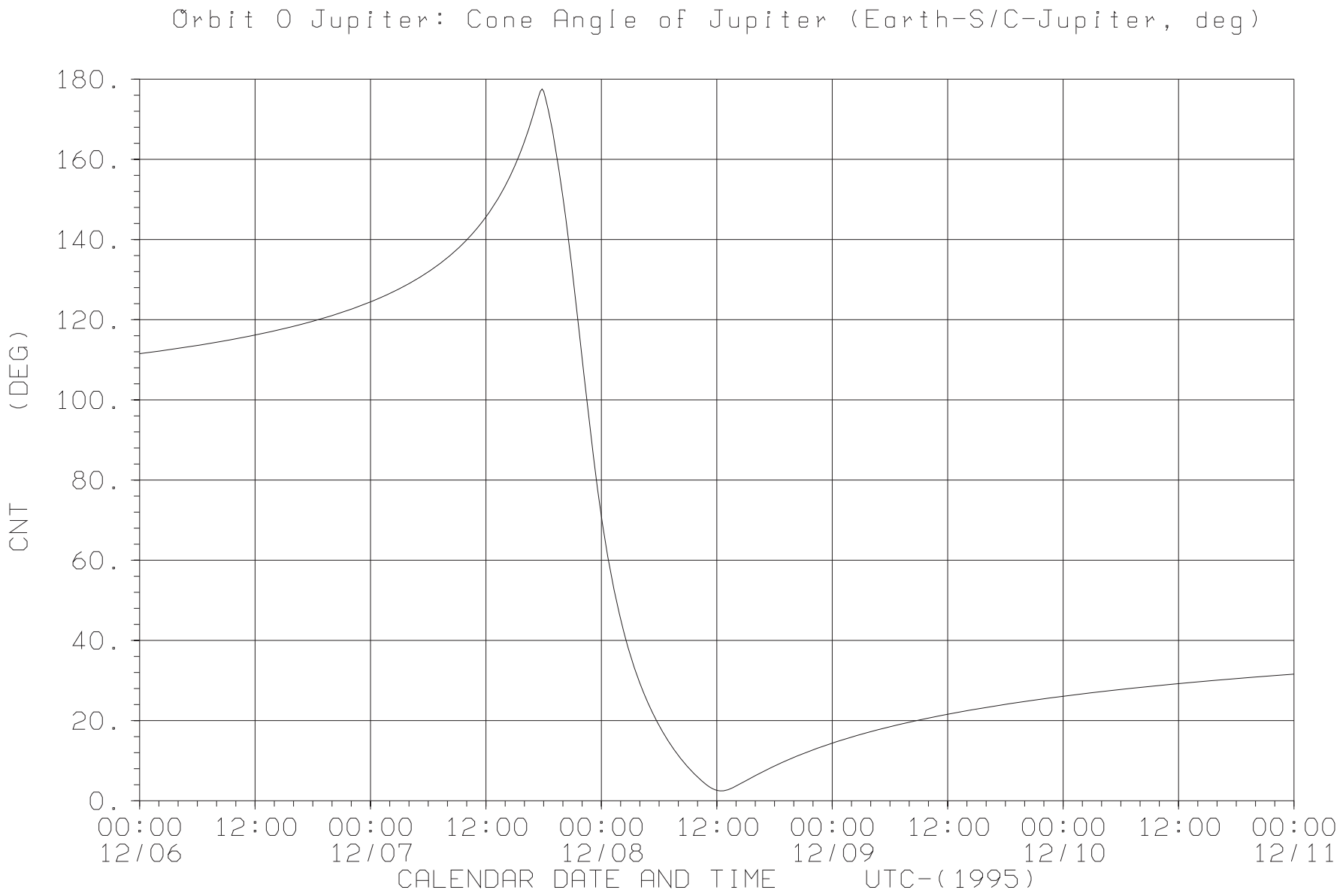
3-15

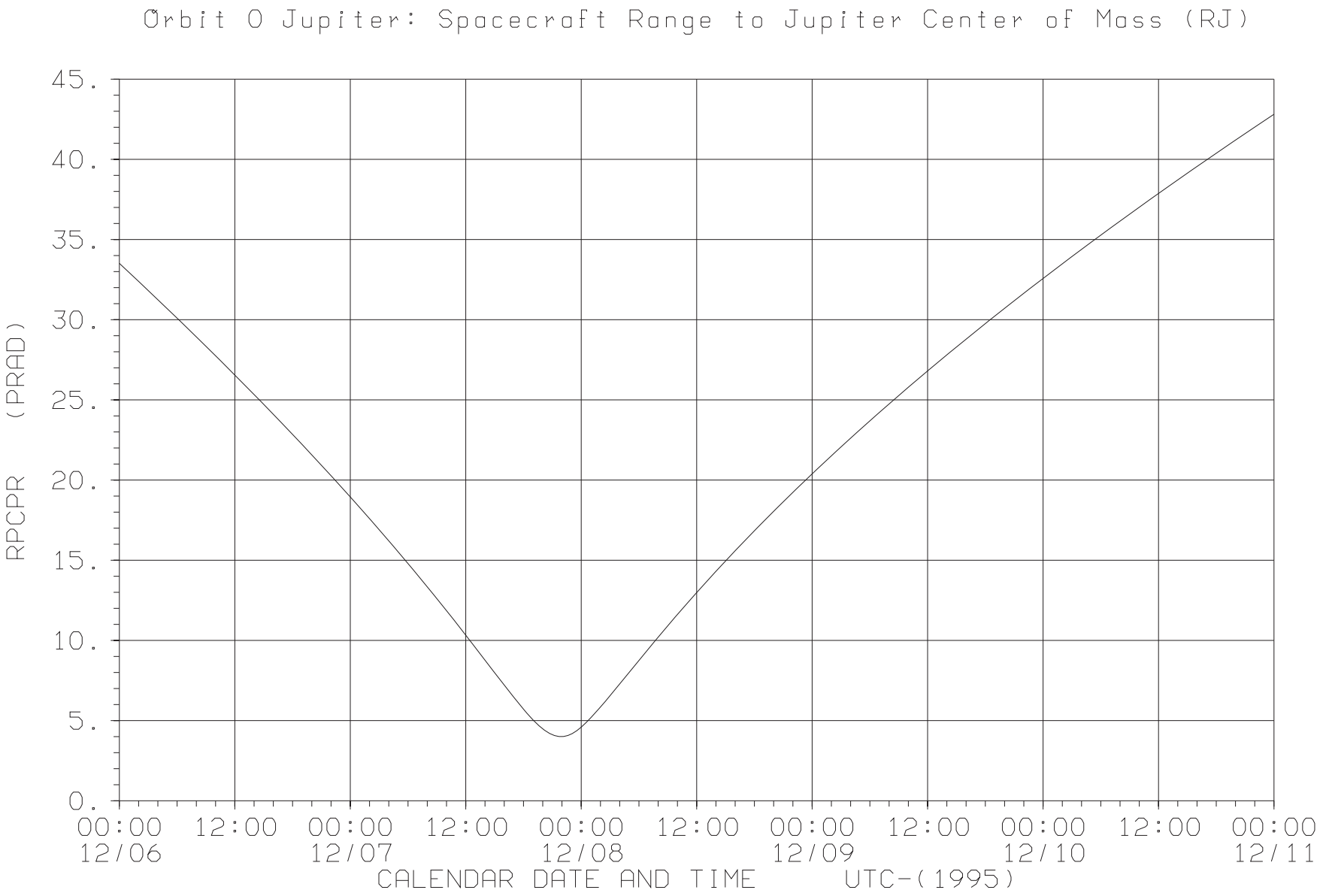

Orbit 0 Europa: Sun-Europa-Spacecraft Angle (deg)
STC (DEG)
180.
160.
140.
120.
100.
80.
60.
40.
20.
12:00 12/02
12:00 12/03
12:00 12/04
12:00 12/05
12:00 12/06
12:00 12/07
12:00 12/08
12:00 12/09
12:00 12/10
12:00 12/11
CALENDAR DATE AND TIME UTC-(1995)

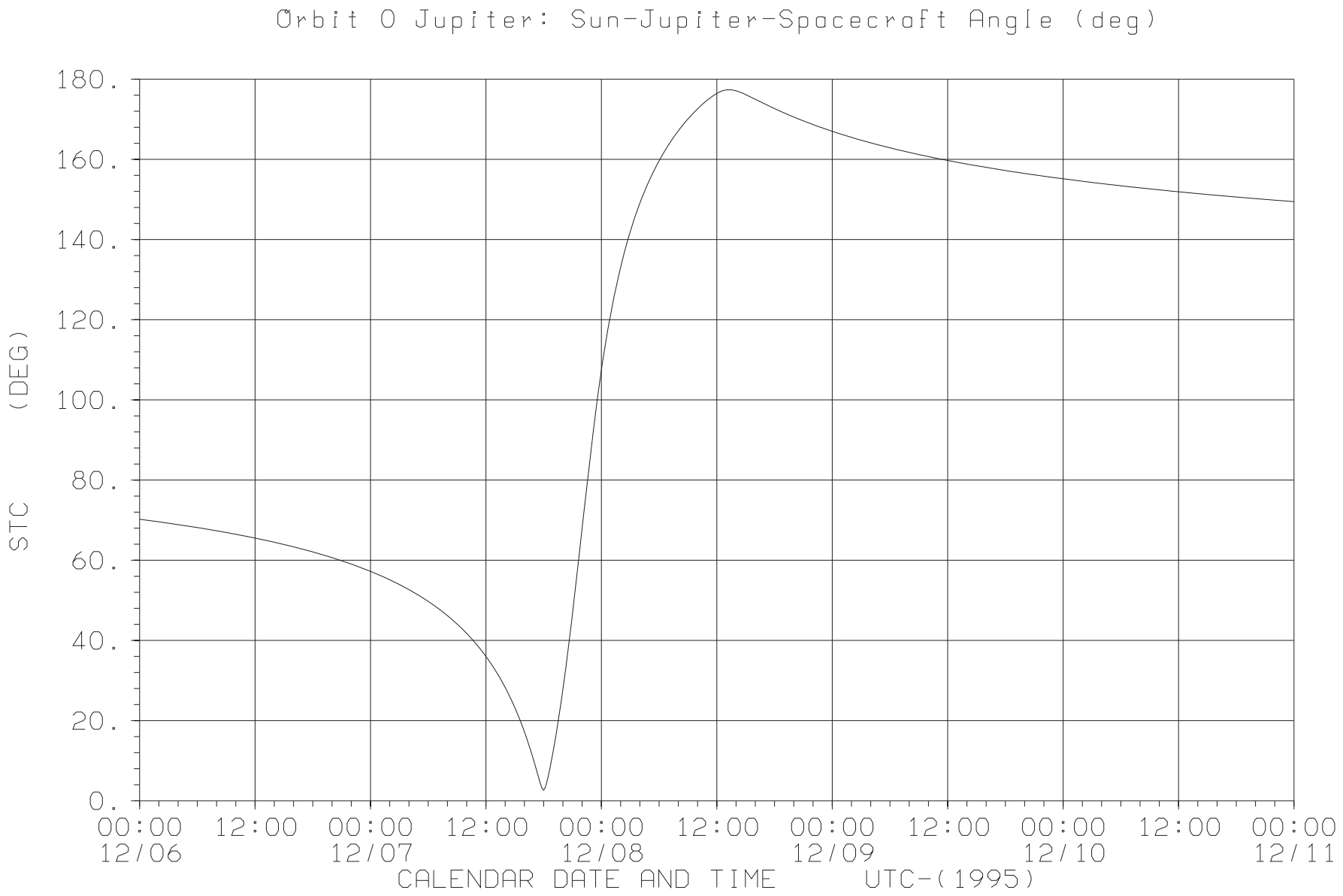

Orbit 0 Io: Cone Angle of Io (Earth-S/C-Io, deg)
CNT (DEG)
180.
160.
140.
120.
100.
80.
60.
40.
20.
0.
18:00 12/05
00:00 12/06
06:00
12:00
18:00
00:00 12/07
06:00
12:00
18:00
00:00 12/08
06:00
12:00
18:00
00:00 12/09
06:00
12:00
18:00
CALENDAR DATE AND TIME UTC-(1995)

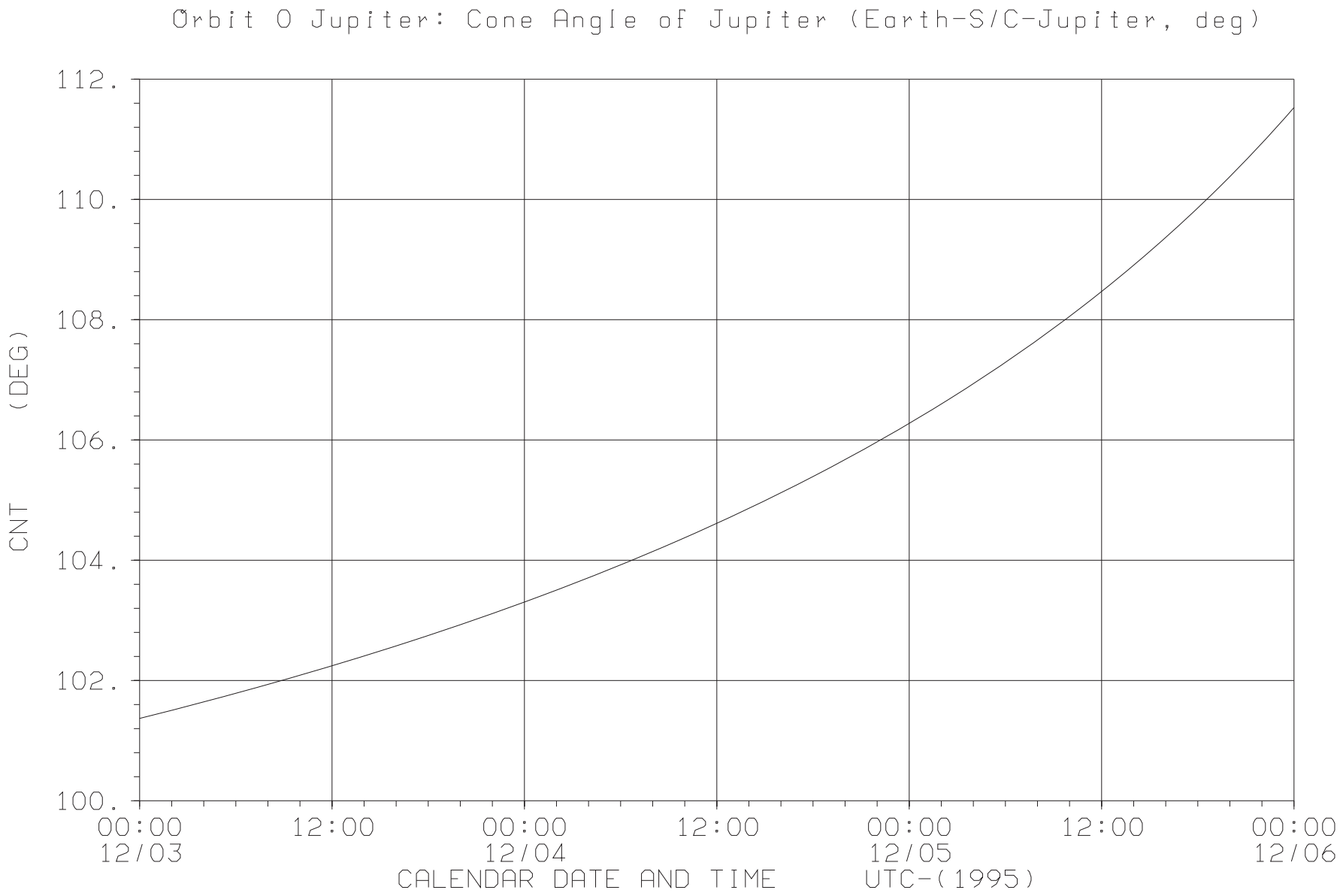

Orbit 0 Io: Spacecraft Altitude wrt Io (km)
TCALTK (KM)*10⁶
3.0
2.5
2.0
1.5
1.0
.5
0
18:00 12/05
00:00 12/06
06:00
12:00
18:00
00:00 12/07
06:00
12:00
18:00
00:00 12/08
06:00
12:00
18:00
00:00 12/09
06:00
12:00
18:00
CALENDAR DATE AND TIME UTC-(1995)

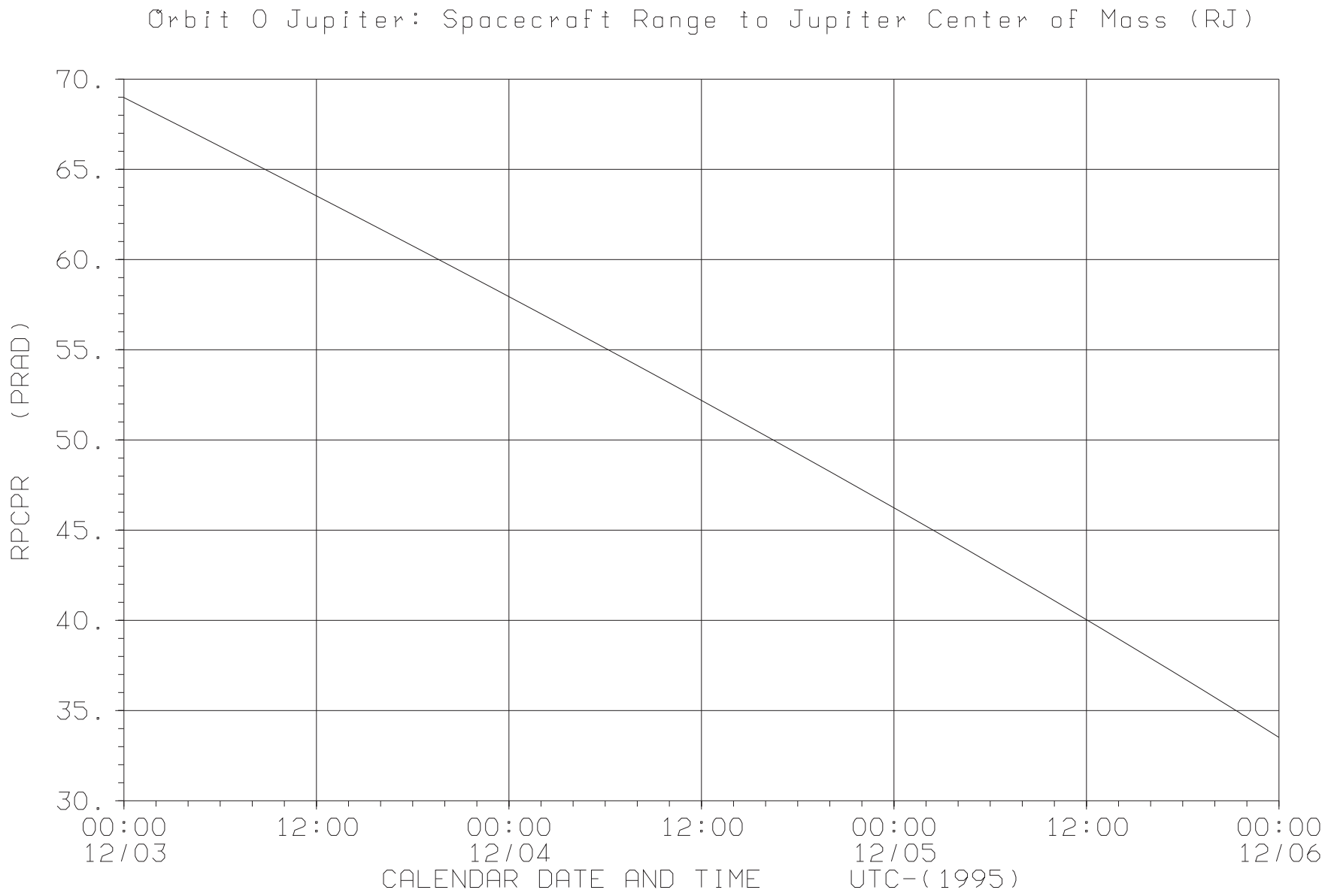

Orbit 0 Io: Sun-Io-Spacecraft Angle (deg)
STC (DEG)
180.
160.
140.
120.
100.
80.
60.
40.
20.
0.
18:00 12/05
00:00 12/06
06:00
12:00
18:00
00:00 12/07
06:00
12:00
18:00
00:00 12/08
06:00
12:00
18:00
00:00 12/09
06:00
12:00
18:00
CALENDAR DATE AND TIME UTC-(1995)

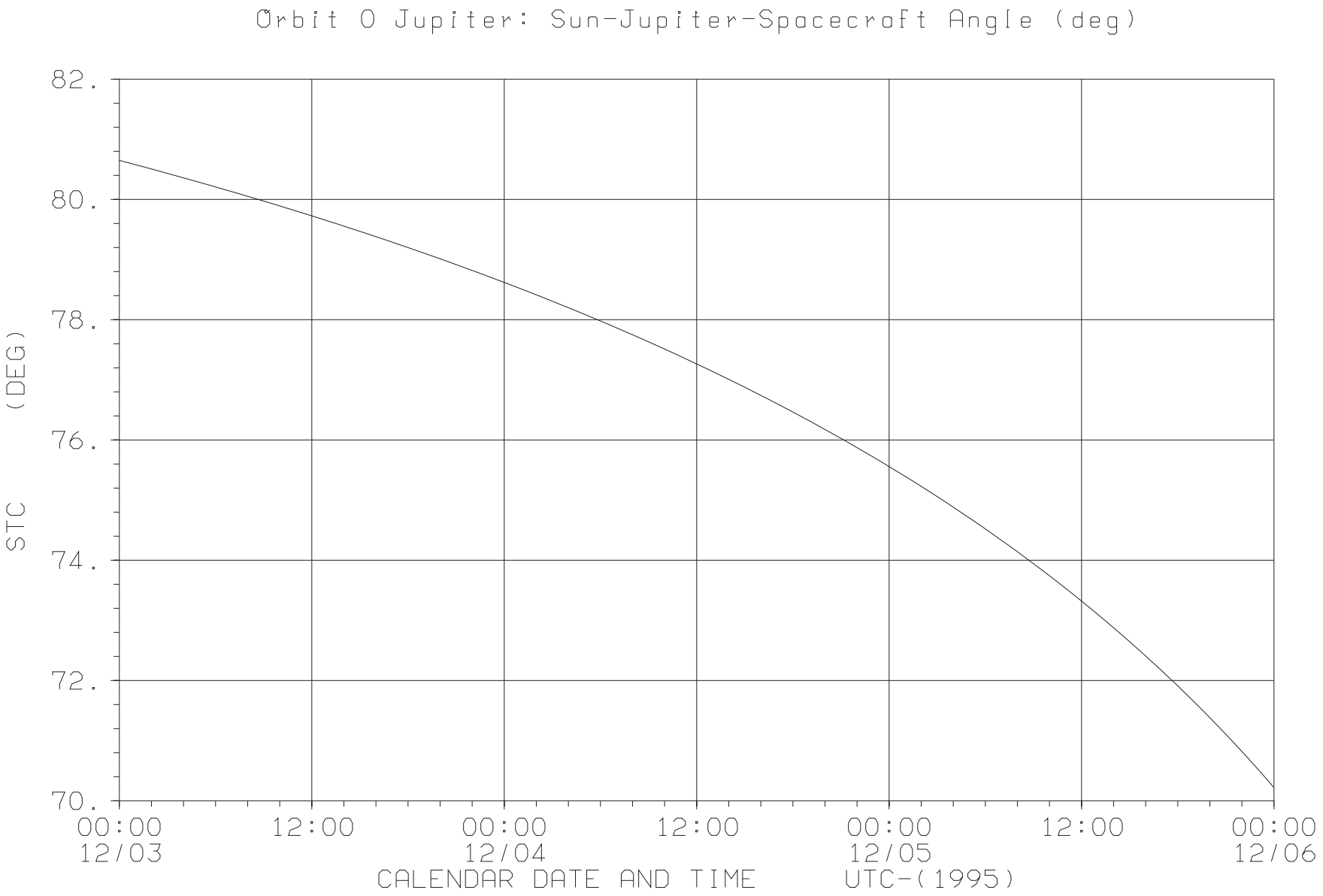

Orbit 0 Jupiter: Cone Angle of Jupiter (Earth-S/C-Jupiter, deg)
CNT (DEG)
180.
160.
140.
120.
100.
80.
60.
40.
20.
0.
00:00 12/06
12:00
00:00 12/07
12:00
00:00 12/08
12:00
00:00 12/09
12:00
00:00 12/10
12:00
00:00 12/11
CALENDAR DATE AND TIME UTC-(1995)

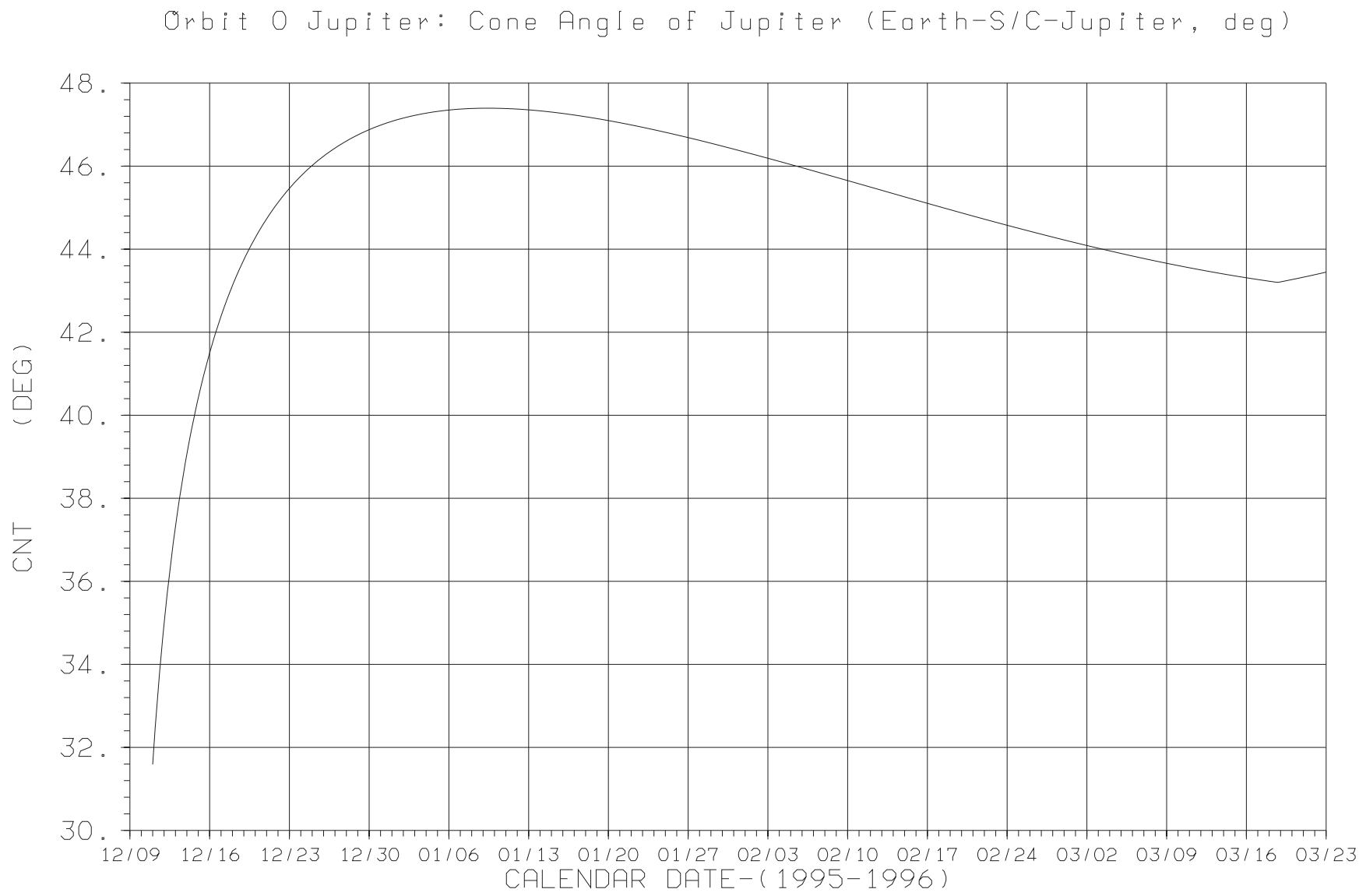

Orbit 0 Jupiter: Spacecraft Range to Jupiter Center of Mass (RJ)
RPCPR (PRAD)
45.
40.
35.
30.
25.
20.
15.
10.
5.
0.
00:00 12/06
12:00
00:00 12/07
12:00
00:00 12/08
12:00
00:00 12/09
12:00
00:00 12/10
12:00
00:00 12/11
CALENDAR DATE AND TIME UTC-(1995)

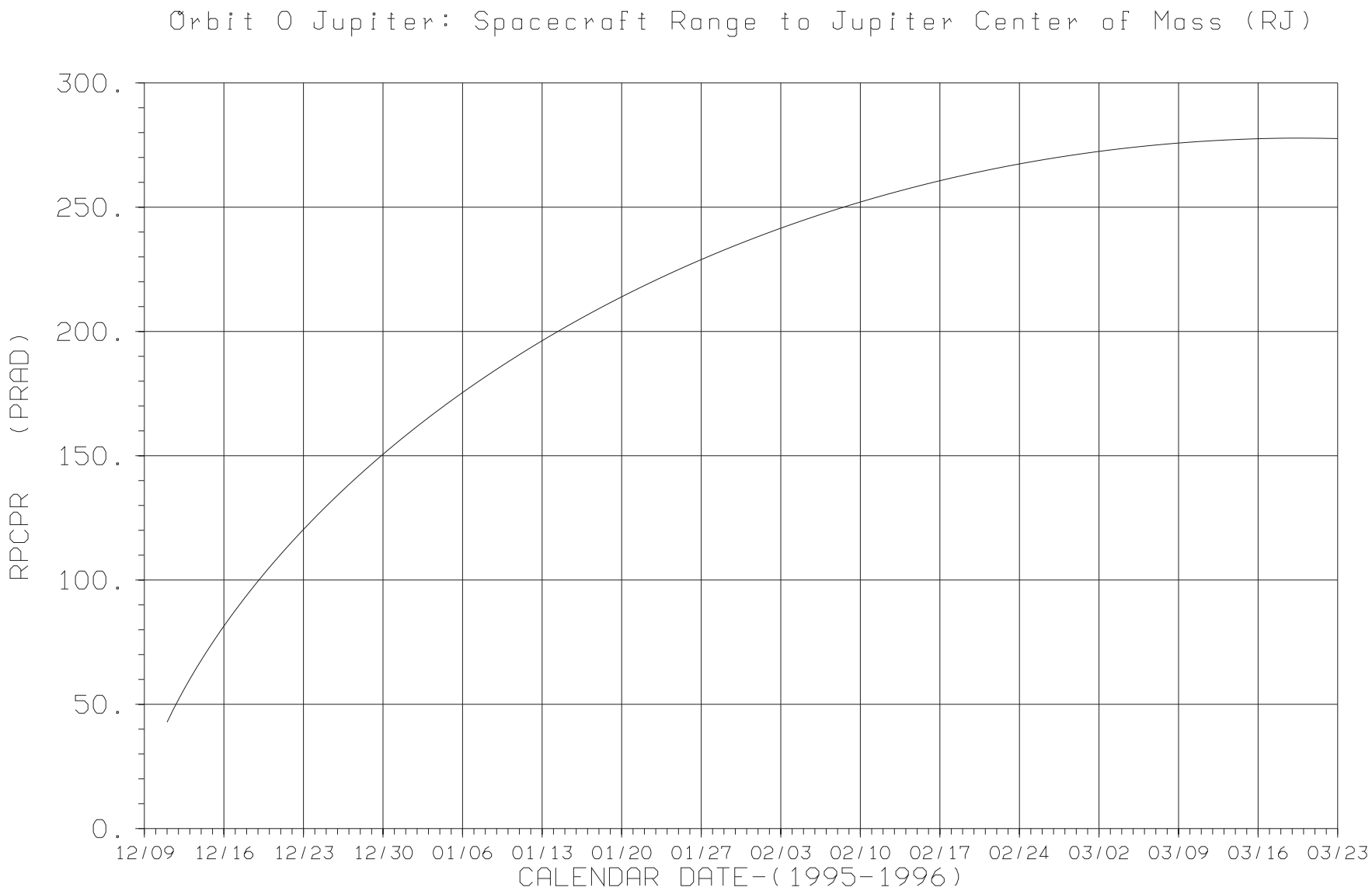

Orbit 0 Jupiter: Sun-Jupiter-Spacecraft Angle (deg)
STC (DEG)
180.
160.
140.
120.
100.
80.
60.
40.
20.
0.
00:00 12/06
12:00
00:00 12/07
12:00
00:00 12/08
12:00
00:00 12/09
12:00
00:00 12/10
12:00
00:00 12/11
CALENDAR DATE AND TIME UTC-(1995)

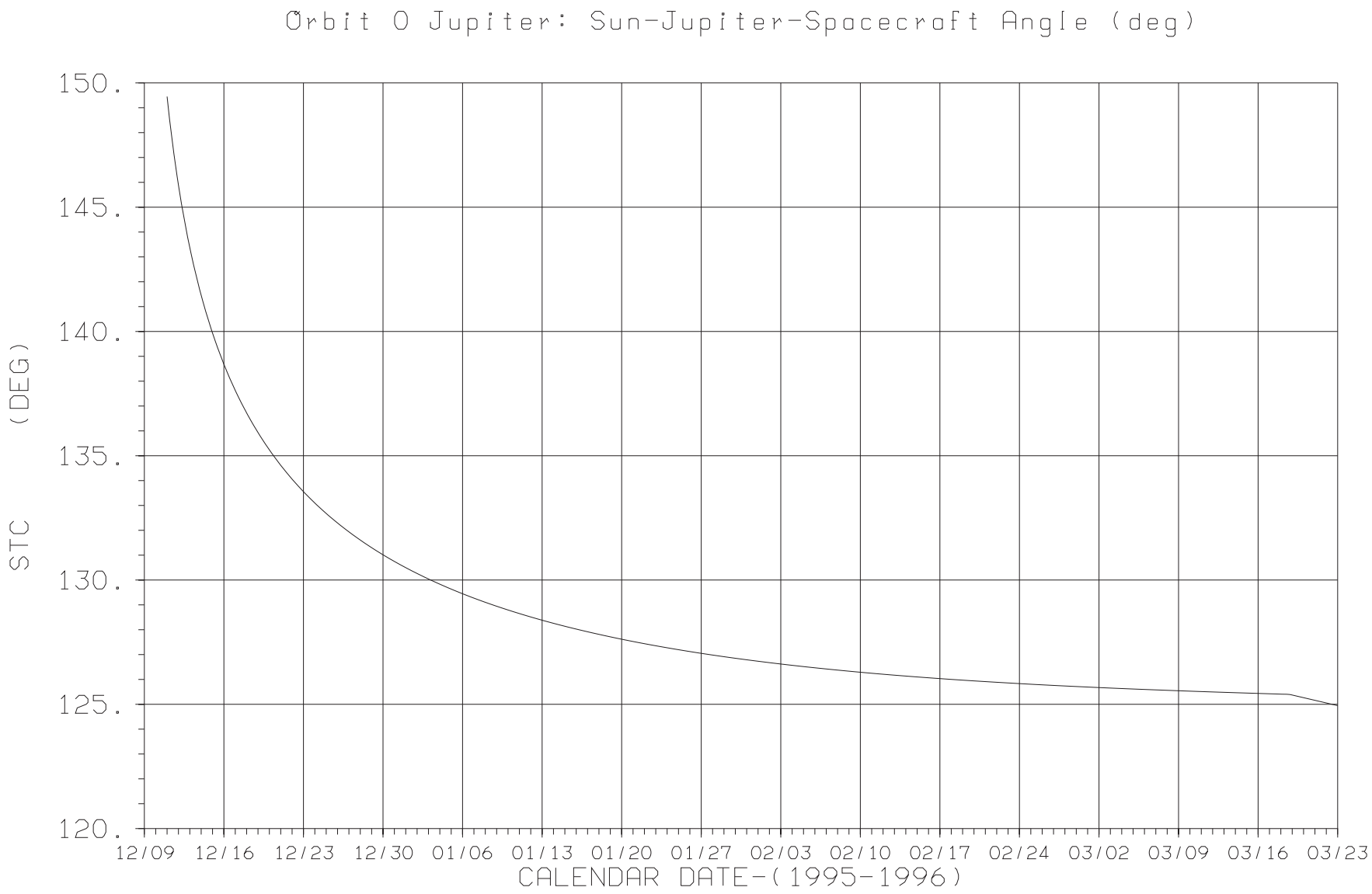

Orbit 0 Jupiter: Cone Angle of Jupiter (Earth-S/C-Jupiter, deg)
112.
110.
108.
106.
104.
102.
100.
CNT (DEG)
00:00
12/03
12:00
00:00
12/04
12:00
00:00
12/05
12:00
00:00
12/06
CALENDAR DATE AND TIME UTC-(1995)


Orbit O Jupiter: Spacecroft Range to Jupiter Center of Mass (RJ)
RPCPR (PRAD)
70.
65.
60.
55.
50.
45.
40.
35.
30.
00:00
12/03
12:00
00:00
12/04
12:00
00:00
12/05
12:00
00:00
12/06
CALENDAR DATE AND TIME UTC-(1995)


Orbit O Jupiter: Sun-Jupiter-Spacecraft Angle (deg)
STC (DEG)
82.
80.
78.
76.
74.
72.
70.
00:00
12/03
12:00
00:00
12/04
12:00
00:00
12/05
12:00
00:00
12/06
CALENDAR DATE AND TIME UTC-(1995)


Orbit O Jupiter: Cone Angle of Jupiter (Earth-S/C-Jupiter, deg)
CNT (DEG)
48.
46.
44.
42.
40.
38.
36.
34.
32.
30.
12/09
12/16
12/23
12/30
01/06
01/13
01/20
01/27
02/03
02/10
02/17
02/24
03/02
03/09
03/16
03/23
CALENDAR DATE-(1995-1996)


Orbit 0 Jupiter: Spacecraft Range to Jupiter Center of Mass (RJ)
RPCPR (PRAD)
300.
250.
200.
150.
100.
50.
0.
12/09
12/16
12/23
12/30
01/06
01/13
01/20
01/27
02/03
02/10
02/17
02/24
03/02
03/09
03/16
03/23
CALENDAR DATE-(1995-1996)


Orbit O Jupiter: Sun-Jupiter-Spacecraft Angle (deg)
STC (DEG)
150.
145.
140.
135.
130.
125.
120.
12/09
12/16
12/23
12/30
01/06
01/13
01/20
01/27
02/03
02/10
02/17
02/24
03/02
03/09
03/16
03/23
CALENDAR DATE-(1995-1996)

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

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

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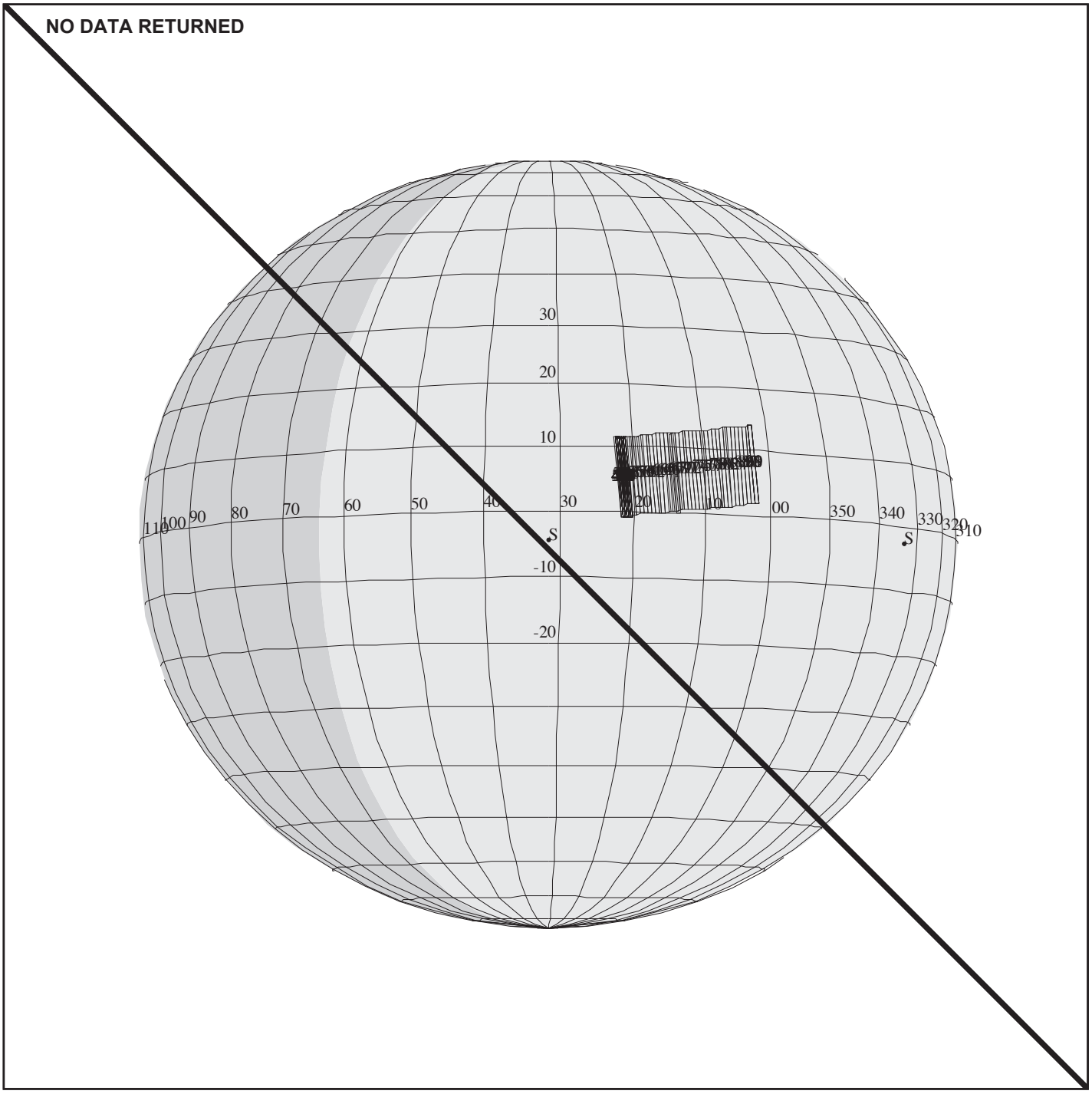


165JA:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS=13/2582 TC= 1(5.34 21.88)
A= 720 pD= 1812 SR= 2.660 RA50=206.06 DEC50= -7.39 cone=118.50 clock= 91.90
117JA:#SB= 1 OR= 0.090 RR=12.000 BM=F RC= 1 BS=13/2582
1:#s= 1 Cs= -16.91 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 536 rD= 2

JAJNPES2D201

POINTER E2.0 lisac: 6/17/1994 14: 1:26

FILE:P.JAJNPES2D201

CENTRAL BODY:JUPITER III

MINI:m.JAJNPES2D201

S/C EPH:/DATA/NAVIO/IOaimpt.sc

PERIAPSIS:

THINNING:NIM 2

START:JEE 95-341/21:53:31.203 -22:14:37

BODY PLOT TIME:TARGET-TIME D= 1812

OBSERVATION:JAJNPES2D201

DESCRIP:PES_DAYSIDE_TRACK_2-2

PES DAYSIDE FEATURE TRACK 2-2 ACTIVITY ID: JAJNPES2D201-
START TIME: JEE-CDS 00001323:87:0

Activity ID Orbit JA Target J Inst N OAPEL PES2D2 SeqNo 01 Multi -
Title PES DAYSIDE FEATURE TRACK 2-2
Requestor K.BAINES/E. BARBINIS Working Group AWG
Bottom Label Plot Key NIMS Science Team NIMS

Time System EPOCH Load ID Calendar Date 12/06/95 Week 49

Start	JEE-CDS	00001323:87:0	95-340/23:34:54	JEE-000/22:18:37
End	JEE-CDS	00001317:03:0	95-340/23:41:54	JEE-000/22:11:37
Duration		00000006:84:0	000/00:07:00	000/00:07:00

Inertial Yes SP Y Earth Ref Y Spin Stat D Coop Imag N DSP .F. RSTrack

RECORD: Format MPW Record Duration 1 :49: Tic Duration
Multiple Records Acq Start/Stop Cycles 1 Start Tics 0 Track

Instrument Compression:

DDS	0	SSI	0	PWS	0	EUV	0	EPD	0
MAG	0	AACS	0	PWSW	0	HIC	0	PPR	0

NIM% 100. UVS 0
NIMS 2.0 PLS 0

REALTIME: RTS FORMAT RTS Rate Playback Duration

DDS	EUV	PLS	EPD	NIMS
MAG	HIC	PWS	UVS	OPNAV

Tracks 0.0122 Bits-to-Ground 476933 Playback S/S Cycles 0

Observation Objective

Dayside shortmap spectral map of 1*1 probe entry site, centered at 20.44 degrees relative longitude. Acquired on next-to-last (-2) rotation prior to probe entry (19 RJ), to compare to PES1D2 observation acquired ~10 hours later on the subsequent orbit (at an identical viewing angle) in order to allow extrapolation of atmospheric conditions to probe entry time. Acquired nearly coincidentally with SSI and UVS feature track observations. Airmass (1/MU + 1/MU0) = 2.34, optimal time 23:40:24

Design Detail

CDS 248 POINTER Design Y Frames 0 Exc Alias

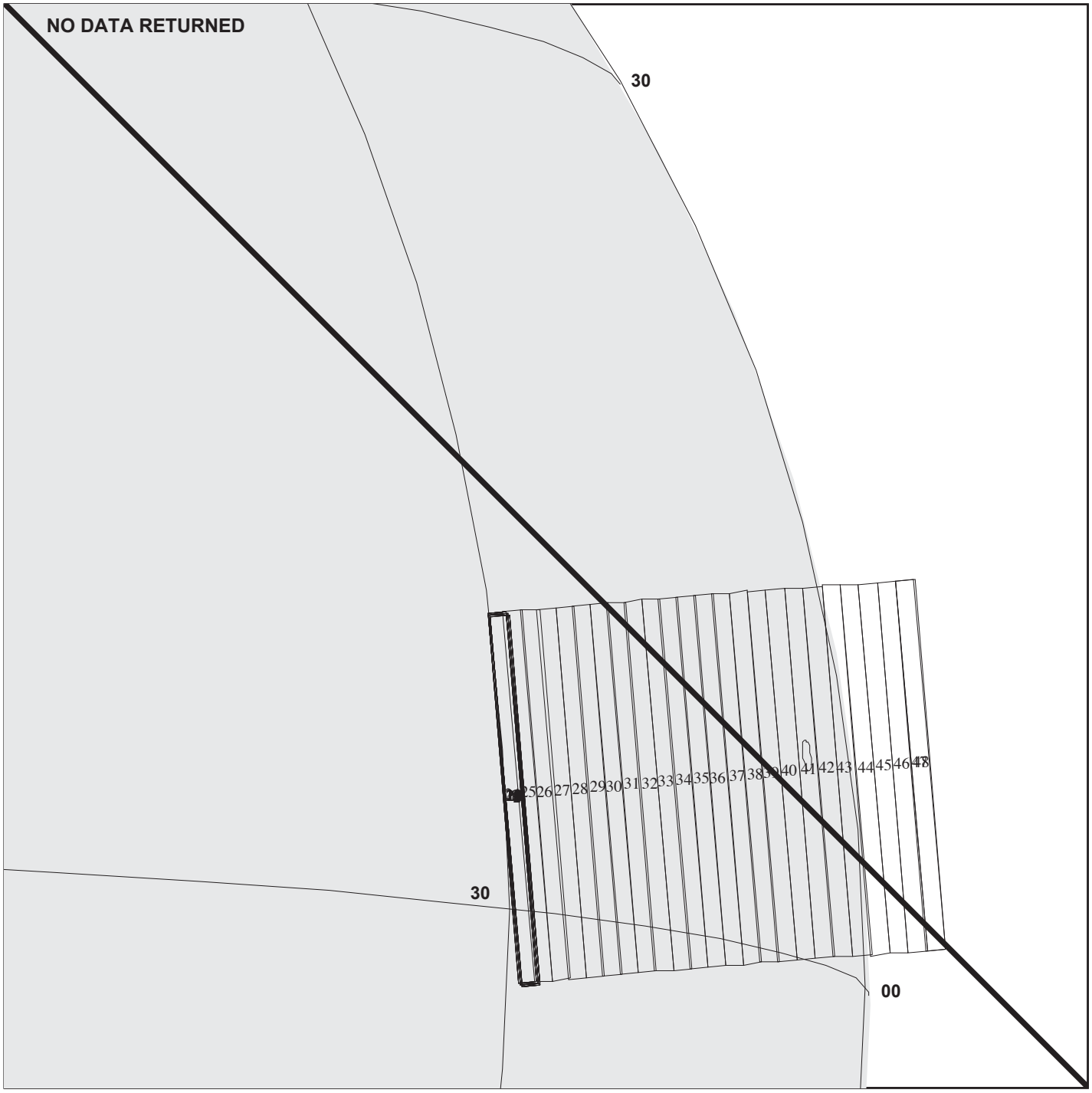
TARGET 144 CSMOS 24 INITRS 47 SCIREC 18 SCITLM 15

Grating Start Position = 1

No Data Returned
Short Map (SM), Gain 2, Grating Start 1, MPW, JSM102

Created on 12/02/93 Version 1 10/24/94
Last Changed / / Changed By 10:38:16

Galileo Activity Plan Form rev 6/93



165JB:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS=72/8052 TC= 1(3.5 29.7)
A= 540 pD= 342 SR=17.450 RA50=205.40 DEC50= -7.39 cone=117.91 clock= 91.55
117JB:#SB= 1 OR= 0.090 RR=12.000 BM=F RC= 1 BS=72/8052
1:#s= 1 Cs= -10.70 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 342 rD= 2

JAJNPES2D301

POINTER E2.0 Iisac: 6/17/1994 14: 8:24

FILE:P.JAJNPES2D301

CENTRAL BODY:JUPITER III

MINI:m.JAJNPES2D301

S/C EPH:/DATA/NAVIO/IOaimpt.sc

PERIAPSIS:

START:JEE 95-341/21:53:31.203 -20:48:06

OBSERVATION:JAJNPES2D301

THINNING:NIM 2

BODY PLOT TIME:95-341/01:06:20

DESCRIP:PES_DAYSIDE_TRACK_2-3

PES DAYSIDE FEATURE TRACK 2-3 ACTIVITY ID: JAJNPES2D301-
START TIME: JEE-CDS 00001237:23:0

Activity ID Orbit JA Target J Inst N OAPEL PES2D3 SeqNo 01 Multi -
Title PES DAYSIDE FEATURE TRACK 2-3
Requestor K.BAINES/E. BARBINIS Working Group AWG
Bottom Label Plot Key NIMS Science Team NIMS

Time System CDS Load ID Calendar Date 12/07/95 Week 49

Start	JEE-CDS 00001237:23:0	95-341/01:02:31	JEE-000/20:51:00
End	JEE-CDS 00001232:35:0	95-341/01:07:27	JEE-000/20:46:04
Duration	00000004:79:0	000/00:04:56	000/00:04:56

Inertial Yes SP Y Earth Ref Y Spin Stat D Coop Imag N DSP .F. RSTrack

RECORD: Format MPW Record Duration 1 :49: Tic Duration
Multiple Records Acq Start/Stop Cycles 1 Start Tics 0 Track

Instrument Compression:

DDS	0	SSI	0	PWS	0	EUV	0	EPD	0	NIM% 100.	UVS 0
MAG	0	AACS	0	PWSW	0	HIC	0	PPR	0	NIMS 2.0	PLS 0

REALTIME: RTS FORMAT RTS Rate Playback Duration

DDS	EUV	PLS	EPD	NIMS
MAG	HIC	PWS	UVS	OPNAV

Tracks 0.0122 Bits-to-Ground 476933 Playback S/S Cycles 0

Observation Objective

Dayside shortmap spectral map of 1*1 probe entry site, centered at 75 degrees relative longitude. Acquired on next-to-last (-2) rotation prior to probe entry (19 RJ) along with SSI, PPR and UVS feature tracks to allow full-up complementary analysis of vertical structure over full suite of Galileo wavelengths. Airmass (1/MU + 1/MU0) = 4.91, optimal time 01:06:20, 3 minutes for re-targetting after SSI, 1:55 for observing (target lasts 93.333 secs).

Design Detail

CDS 248 POINTER Design Y Frames 0 Exc Alias

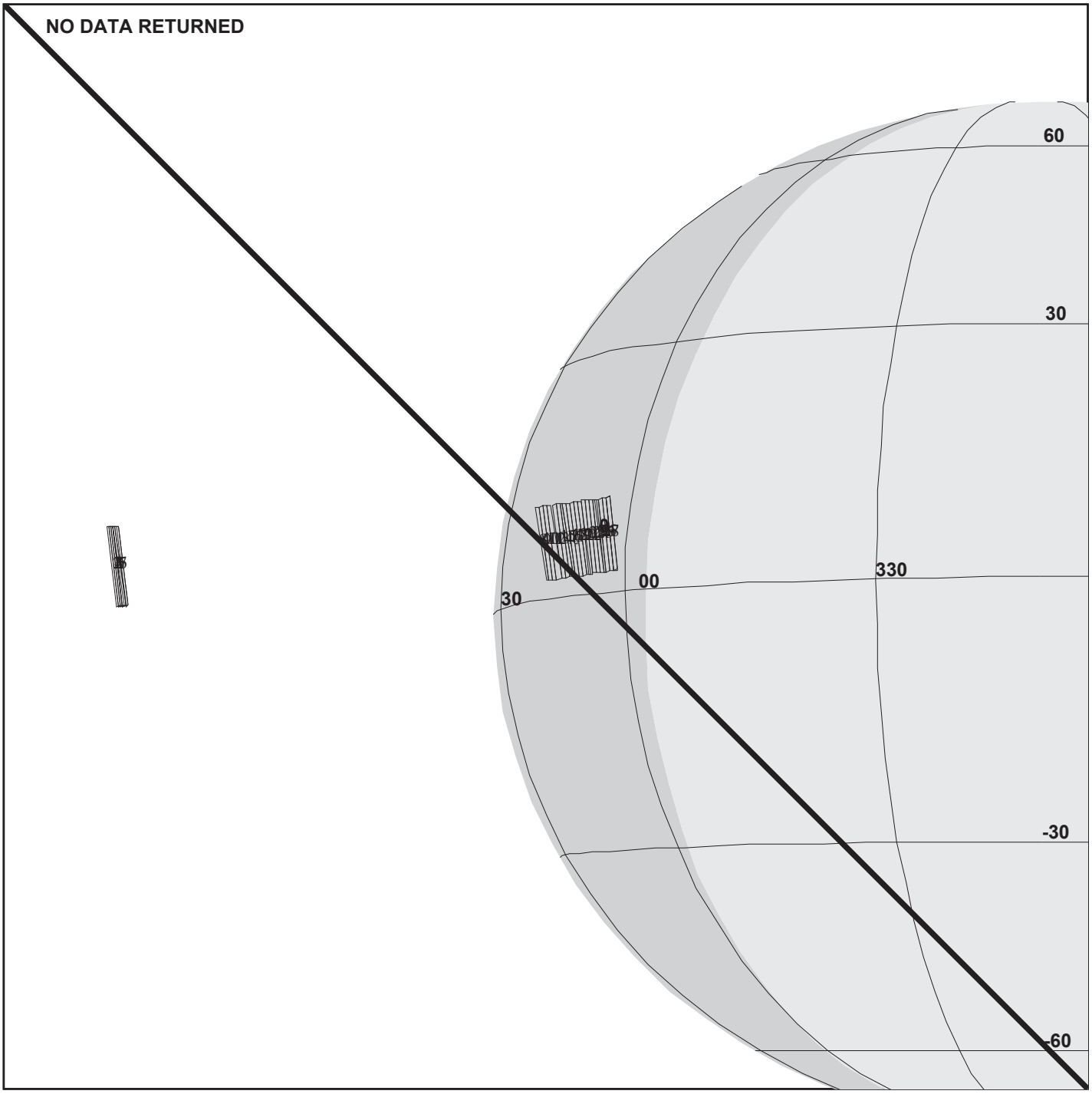
TARGET 144 CSMOS 24 INITRS 47 SCIREC 18 SCITLM 15

Grating Start Position = 1

No Data Returned
Short Map (SM), Gain 2, Grating Start 1, MPW, JSM102

Created on 12/02/93 Version 1 10/24/94
Last Changed / / Changed By 10:38:22

Galileo Activity Plan Form rev 6/93



165JC:TT=**** TMC= 1 C= 0.00 XC= 0.00 BS= 0/3015 TC= 1(6.7 17.2)
A= 728 pD= 17456 SR=17.450 RA50=220.34 DEC50=-13.29 cone=133.69 clock= 93.17
117JC:#SB= 1 OR= 0.030 RR=10.000 BM=F RC= 1 BS=78/9213
1:#s= 1 Cs= -10.40 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 1102 rD= 2

JAJNPES1N_01

POINTER E2.0 lisac: 6/17/1994 14:28:19

FILE:P.JAJNPES1N_01

CENTRAL BODY:JUPITER III

MINI:m.JAJNPES1N_01

S/C EPH:/DATA/NAVIO/IOaimpt.sc

PERIAPSIS:

THINNING:NIM 2

START:JEE 95-341/21:53:31.203 -15:43:00

BODY PLOT TIME:95-341/07:44:03

OBSERVATION:JAJNPES1N_01

DESCRIP:PES_NIGHTSIDE

PES NIGHTSIDE

ACTIVITY ID: JAJNPES1N 01-
START TIME: JEE-CDS 00000937:13:0

Activity ID Orbit JA Target J Inst N OAPEL PES1N SeqNo 01 Multi -
Title PES NIGHTSIDE
Requestor K.BAINES/E. BARBINIS Working Group AWG
Bottom Label Plot Key NIMS Science Team NIMS

Time System	EPOCH	Load ID	Calendar Date	12/07/95	Week 49
Start	JEE-CDS	00000937:13:0	95-341/06:06:00	JEE-000/15:47:31	
End	JEE-CDS	00000837:13:0	95-341/07:47:03	JEE-000/14:06:28	
Duration		00000100:00:0	000/01:41:03	000/01:41:03	

Inertial Yes SP Y Earth Ref Y Spin Stat D Coop Imag N DSP .F. RSTrack

RECORD: Format MPW Record Duration 5 :66: Tic Duration
Multiple Records 2 Acq Start/Stop Cycles 2 Start Tics 0 Track

Instrument Compression:

DDS	0	SSI	0	PWS	0	EUV 0	EPD 0	NIM% 100.	UVS 0
MAG	0	AACS	0	PWSW	0	HIC 0	PPR 0	NIMS 2.0	PLS 0

REALTIME: RTS FORMAT RTS Rate Playback Duration

DDS	EUV	PLS	EPD	NIMS
MAG	HIC	PWS	UVS	OPNAV

Tracks 0.0445 Bits-to-Ground 1773170 Playback S/S Cycles 0

Observation Objective

Nightside longmap spectral map of 1*1 PES area.
Centered at 55 degrees relative longitude, about 12 degrees away from the terminator. Acquired on final (-1) rotation prior to probe entry, (12 RJ). Combination with the 3 dayside PES observations on this rotation yields vertical atmospheric structure of the PES. Optimal time 07:44:03. For timeline purposes, 4 minutes for targetting, 6 minutes for observing. PES coordinates: 6.59 degrees North latitude, 11.85 degrees West longitude (System III).

Design Detail

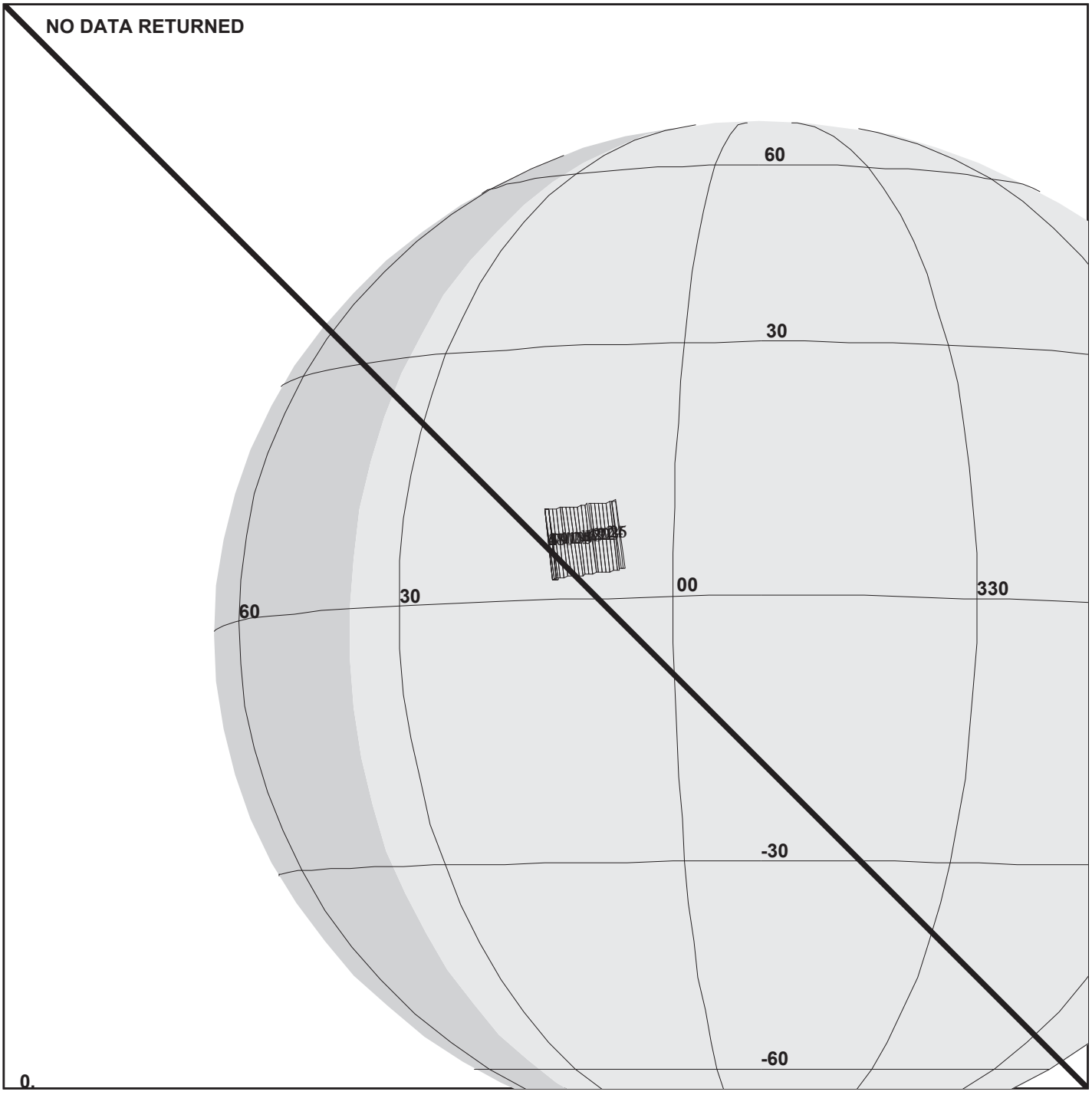
CDS	281	POINTER Design Y		Frames	0	Exc		Alias	
TARGET	144	CSMOS	24	INITRS	47	SCIREC	36	SCITLM	30

Note: Observation acquired during telemetry gap, so extra SCI RECORD needed to record scan platform movement during targetting. In actuality, then, the scan platform will target to Jupiter after the previous radiation monitor observation of UVS. Thus, only 30 seconds of targetting will be needed, which will be recorded using LRS. Switch of SCI RECORD to MPW occurs after the mini-retargetting.
Grating Start Position = 0

No Data Returned
Long Map (LM), Gain 2, Grating Start 0, MPW, JLM408

Created on 12/02/93 Version 1 10/24/94
Last Changed / / Changed By 10:38:27

Galileo Activity Plan Form rev 6/93



165JD:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS=43/1225 TC= 1(6.2 12.57)
A= 728 pD= 1068 SR= 4.800 RA50=220.54 DEC50=-13.32 cone=133.87 clock= 93.25
117JD:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS=43/1225
1:#s= 1 Cs= -10.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 1068 rD= 2

JAJNPES1D101

POINTER E2.0 lisac: 6/17/1994 15:13:22

FILE:P.JAJNPES1D101

CENTRAL BODY:JUPITER III

MINI:m.JAJNPES1D101

S/C EPH:/DATA/NAVIO/IOaimpt.sc

PERIAPSIS:

THINNING:NIM 2

START:JEE 95-341/21:53:31.203 -13:06:18

BODY PLOT TIME:95-341/08:50:13

OBSERVATION:JAJNPES1D101

DESCRIP:PES_DAYSIDE_TRACK_1-1

PES DAYSIDE FEATURE TRACK 1-1 ACTIVITY ID: JAJNPES1D101-
START TIME: JEE-CDS 00000781:59:0

Activity ID Orbit JA Target J Inst N OAPEL PES1D1 SeqNo 01 Multi -
Title PES DAYSIDE FEATURE TRACK 1-1
Requestor K.BAINES/E.BARBINIS Working Group AWG
Bottom Label Plot Key NIMS Science Team NIMS

Time System EPOCH Load ID Calendar Date 12/07/95 Week 49

Start	JEE-CDS	00000781:59:0	95-341/08:43:13	JEE-000/13:10:18
End	JEE-CDS	00000771:69:0	95-341/08:53:13	JEE-000/13:00:18
Duration		00000009:81:0	000/00:10:00	000/00:10:00

Inertial Yes SP Y Earth Ref Y Spin Stat D Coop Imag N DSP .F. RSTrack

RECORD: Format MPW Record Duration 5 :66: Tic Duration
Multiple Records 2 Acq Start/Stop Cycles 2 Start Tics 0 Track

Instrument Compression:

DDS	0	SSI	0	PWS	0	EUV	0	EPD	0	NIM% 100.	UVS 0
MAG	0	AACS	0	PWSW	0	HIC	0	PPR	0	NIMS 2.0	PLS 0

REALTIME: RTS FORMAT RTS Rate Playback Duration

DDS	EUV	PLS	EPD	NIMS
MAG	HIC	PWS	UVS	OPNAV

Tracks 0.0445 Bits-to-Ground 1773170 Playback S/S Cycles 0

Observation Objective

Dayside longmap spectral map of 1*1 PES area, centered at -17.3 degrees relative longitude. Acquired on final (-1) rotation prior to probe entry (12 RJ) at an airmass (1/MU + 1/MU0) = 3.25. Combination with other 3 PES observations on this rotation yields vertical atmospheric structure of the PES. Optimal time 08:50:13. For timeline purposes, planning OAPEL assumes 4 minutes for targetting, 6 minutes for observing. PES coordinates: 6.59 degrees North latitude, 8.79 degrees West longitude (System III).

Design Detail

CDS	281	POINTER Design Y	Frames	0	Exc	Alias			
TARGET	144	CSMOS	24	INITRS	47	SCIREC	36	SCITLM	30

Note: Observation acquired during telemetry gap, so extra SCI RECORD needed to record scan platform movement during targetting in LRS. In actuality, then, the scan platform will perform a 30-second mini-retargetting from the previous Jupiter PES observation, which will be recorded. Switch of SCI RECORD to MPW occurs after the mini-retargetting.
Grating Start Position = 0

No Data Returned
Long Map (LM), Gain 2, Grating Start 0, MPW, JLM408

Created on 12/02/93 Version 1 10/24/94
Last Changed / / Changed By 10:38:33

Galileo Activity Plan Form rev 6/93

165JE:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS=64/3965 TC= 1(5.91 13.08)
A= 720 pD= 1256 SR=17.450 RA50=219.87 DEC50=-13.26 cone=133.26 clock= 92.93
117JE:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS=64/3965
1:#s= 1 Cs= -11.93 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 1256 rD= 2

JAJNPES1D201

POINTER E2.0 lisac: 6/17/1994 15:23:44

FILE:P.JAJNPES1D201

CENTRAL BODY:JUPITER III

MINI:m.JAJNPES1D201

S/C EPH:/DATA/NAVIO/IOaimpt.sc

PERIAPSIS:

THINNING:NIM 2

START:JEE 95-341/21:53:31.203 -11:55:15

BODY PLOT TIME:95-341/09:56:16

OBSERVATION:JAJNPES1D201

DESCRIP:PES_DAYSIDE_TRACK_1-2

PES DAYSIDE FEATURE TRACK 1-2 ACTIVITY ID: JAJNPES1D201-
START TIME: JEE-CDS 00000711:29:0

Activity ID Orbit JA Target J Inst N OAPEL PES1D2 SeqNo 01 Multi -
Title PES DAYSIDE FEATURE TRACK 1-2
Requestor K.BAINES/E. BARBINIS Working Group AWG
Bottom Label Plot Key NIMS Science Team NIMS

Time System EPOCH Load ID Calendar Date 12/07/95 Week 49

Start	JEE-CDS 00000711:29:0	95-341/09:54:16	JEE-000/11:59:15
End	JEE-CDS 00000700:30:0	95-341/10:05:26	JEE-000/11:48:05
Duration	00000010:90:0	000/00:11:10	000/00:11:10

Inertial Yes SP Y Earth Ref Y Spin Stat D Coop Imag N DSP .F. RSTrack

RECORD: Format MPW Record Duration 6 :81: Tic Duration
Multiple Records Acq Start/Stop Cycles 1 Start Tics 0 Track

Instrument Compression:

DDS	0	SSI	0	PWS	0	EUV	0	EPD	0	NIM% 100.	UVS 0
MAG	0	AACS	0	PWSW	0	HIC	0	PPR	0	NIMS 2.0	PLS 0

REALTIME: RTS FORMAT RTS Rate Playback Duration

DDS	EUV	PLS	EPD	NIMS
MAG	HIC	PWS	UVS	OPNAV

Tracks 0.0531 Bits-to-Ground 2135980 Playback S/S Cycles 0

Observation Objective

Dayside longmap spectral map of slightly more than 1*1 PES area, centered near +23.3 degrees degrees relative longitude, acquired on final (-1) rotation prior to probe entry (12 RJ) at an airmass (1/MU + 1/MU0) near 2.19. Combination with other 3 PES observations on this rotation yields vertical atmospheric structure of the PES. Additional area acquired on this observation to be commensurate with area observed on previous rotation in OAPEL PES2D2. Optimal time 10:01:36, 4 minutes for targetting, 7 minutes for observing (although tape limits to 6 min and 41 secs of recording)

Design Detail

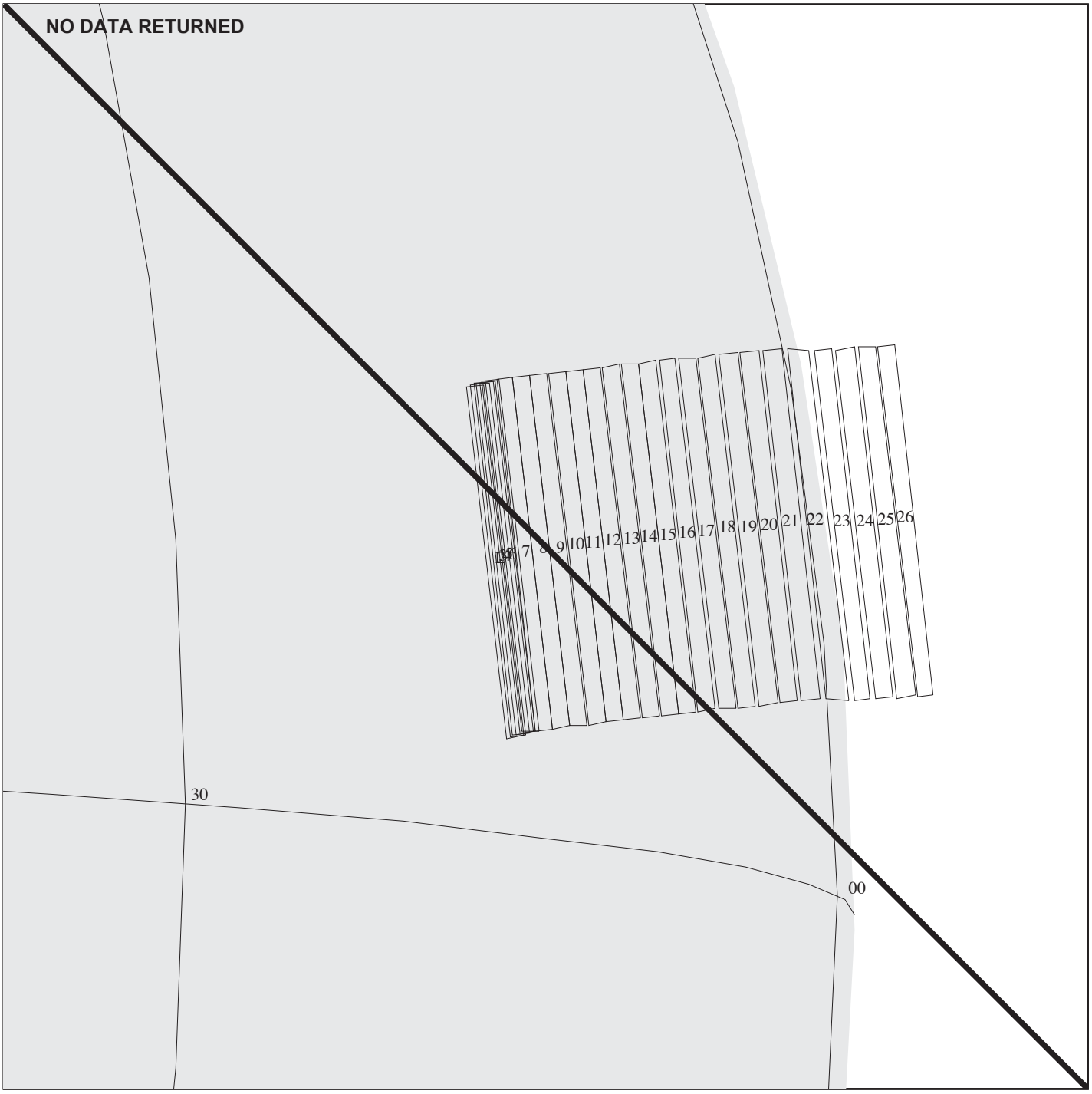
CDS	248	POINTER Design Y	Frames	0	Exc		Alias		
TARGET	144	CSMOS	24	INITRS	47	SCIREC	18	SCITLM	15

Grating Start Position = 0

No Data Returned
Long Map (LM), Gain 2, Grating Start 0, MPW, JLM408

Created on	12/02/93	Version	1	10/24/94
Last Changed	/ /	Changed By		10:38:39

Galileo Activity Plan Form rev 6/93



165JF:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS=51/9071 TC= 1(5.36 19.3)
A= 720 pD= 1074 SR=17.450 RA50=220.37 DEC50=-13.89 cone=133.98 clock= 92.43
117JF:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS=51/9071
1:#s= 1 Cs= -10.19 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 1074 rD= 2

JAJNPES1D301

POINTER E2.0 lisac: 6/17/1994 15:25:28

FILE:P.JAJNPES1D301

CENTRAL BODY:JUPITER III

MINI:m.JAJNPES1D301

S/C EPH:/DATA/NAVIO/IOaimpt.sc

PERIAPSIS:

THINNING:NIM 2

START:JEE 95-341/21:53:31.203 -10:31:28

BODY PLOT TIME:95-341/11:25:03

OBSERVATION:JAJNPES1D301

DESCRIP:PES_DAYSIDE_TRACK_1-3

PES DAYSIDE FEATURE TRACK 1-3 ACTIVITY ID: JAJNPES1D301-
START TIME: JEE-CDS 00000628:42:0

Activity ID Orbit JA Target J Inst N OAPEL PES1D3 SeqNo 01 Multi -
Title PES DAYSIDE FEATURE TRACK 1-3
Requestor K.BAINES/E. BARBINIS Working Group AWG
Bottom Label Plot Key NIMS Science Team NIMS

Time System EPOCH Load ID Calendar Date 12/07/95 Week 49

Start	JEE-CDS 00000628:42:0	95-341/11:18:03	JEE-000/10:35:28
End	JEE-CDS 00000618:52:0	95-341/11:28:03	JEE-000/10:25:28
Duration	00000009:81:0	000/00:10:00	000/00:10:00

Inertial Yes SP Y Earth Ref Y Spin Stat D Coop Imag N DSP .F. RSTrack

RECORD: Format MPW Record Duration 5 :66: Tic Duration
Multiple Records Acq Start/Stop Cycles 1 Start Tics 0 Track

Instrument Compression:

DDS	0	SSI	0	PWS	0	EUV	0	EPD	0	NIM% 100.	UVS 0
MAG	0	AACS	0	PWSW	0	HIC	0	PPR	0	NIMS 2.0	PLS 0

REALTIME: RTS FORMAT RTS Rate Playback Duration

DDS	EUV	PLS	EPD	NIMS
MAG	HIC	PWS	UVS	OPNAV

Tracks 0.0441 Bits-to-Ground 1773170 Playback S/S Cycles 0

Observation Objective

Dayside longmap spectral map of 1*1 PES area, centered at + 75 degrees relative longitude, acquired on final (-1) rotation prior to probe entry (12 RJ) at an airmass (1/MU + 1/MU0) = 5.063. Combination with other 3 PES observations on this rotation yields vertical atmospheric structure of the PES. Optimal time 11:25:03. PES coordinates: 6.59 degrees North latitude, 8.79 degrees West longitude (System III).

Design Detail

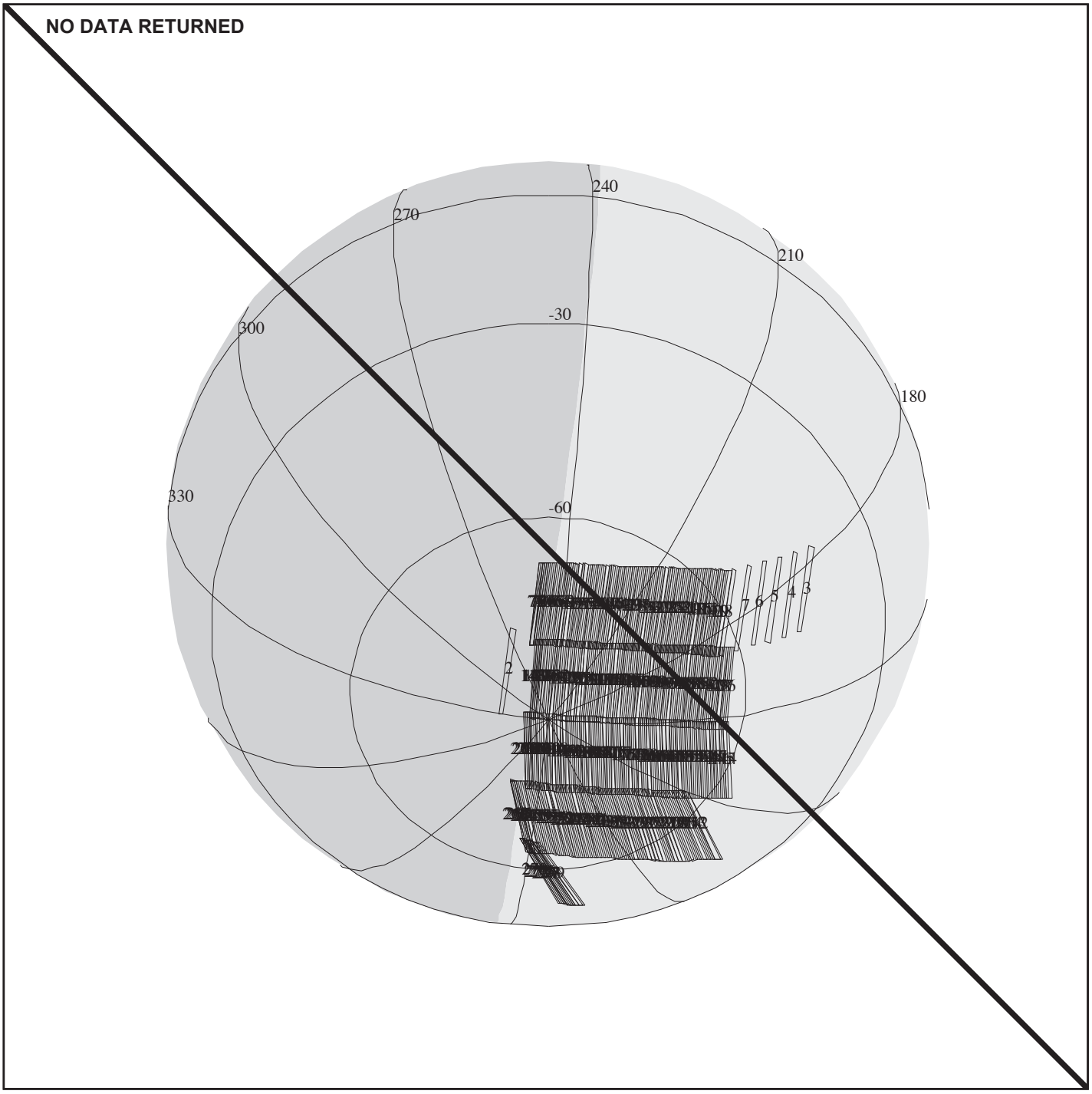
CDS	248	POINTER Design Y	Frames	0	Exc		Alias		
TARGET	144	CSMOS	24	INITRS	47	SCIREC	18	SCITLM	15

Grating Start Position = 0

No Data Returned
Long Map (LM), Gain 2, Grating Start 0, MPW, JLM408

Created on	12/02/93	Version	1		10/24/94
Last Changed	/ /	Changed By			10:38:45

Galileo Activity Plan Form rev 6/93



165JG:TT= 0 TMC= 1 C= -21.50 XC= -5.00 BS=56/6361 TC= 3
A= 96 pD= 3528 SR=17.450 RA50=210.90 DEC50= 58.26 cone= 82.03 clock=148.69
117JG:#SB= 4 OR= 0.060 RR=12.000 BM=F RC= 1 BS=56/6361
1:#s= 2 Cs= 16.50 XCs= 0.00 Cr= -23.00 XCr= -7.00 sD= 870 rD= 16
2:#s= 1 Cs= 16.50 XCs= 0.00 Cr= -21.00 XCr= -7.50 sD= 870 rD= 14
3:#s= 1 Cs= 13.80 XCs= 0.00 Cr= -16.00 XCr= -8.00 sD= 728 rD= 20
4:#s= 1 Cs= -2.00 XCs= 0.00 Cr= 0.00 XCr= -8.00 sD= 108 rD= 32

JAENSOPOLE01

POINTER E2.0 lisac: 6/18/1994 21:43: 9

FILE:P.JAENSOPOLE01

CENTRAL BODY: EUROPA

MINI:m.JAENSOPOLE01

S/C EPH:/DATA/NAVIO/IOaimpt.sc

PERIAPSIS:

START:EEE 95-341/13:08:45.223 -00:11:00

OBSERVATION:JAENSOPOLE01

THINNING:NIM 1

BODY PLOT TIME:TARGET-TIME D= 3528

DESCRIP:Europa South Pole Mosaic

```
EUROPA SOUTH POLE COVERAGE                    ACTIVITY ID: JAENSOPOLE01-
                                               START TIME: EEE-CDS 00000015:55:0

Activity ID  Orbit JA  Target E  Inst N  OAPEL SOPOLE  SeqNo 01  Multi -
Title        EUROPA SOUTH POLE COVERAGE
Requestor    A. OCAMPO/J. ALONSO                    Working Group  SWG
Bottom Label EUROPA SOPOLE        Plot Key  NIMS     Science Team   NIMS

Time System  EPOCH     Load ID          Calendar Date  12/07/95  Week 49

Start        EEE-CDS 00000015:55:0   95-341/12:53:00   EEE-000/00:15:45
End          EEE+CDS 00000008:82:0   95-341/13:17:46   EEE+000/00:09:01
Duration             00000024:46:0      000/00:24:46       000/00:24:46

Inertial Yes SP Y Earth Ref N Spin Stat D  Coop Imag N DSP .F. RSTrack

RECORD:  Format  MPW   Record Duration 19   :26:5   Tic Duration
Multiple Records       Acq Start/Stop Cycles  1   Start Tics     0  Track

                          Instrument Compression:
  DDS 0      SSI  0      PWS  0      EUV 0     EPD 0     NIM% 100. UVS 0
  MAG 0     AACS  0      PWSW 0      HIC 0     PPR T     NIMS 2.0  PLS 0

REALTIME: RTS FORMAT       RTS Rate        Playback ENA   Duration

          DDS          EUV          PLS          EPD         NIMS
          MAG          HIC          PWS          UVS         OPNAV

 Tracks  0.1474     Bits-to-Ground     5890130   Playback S/S Cycles    0

                        Observation Objective
Best NIMS coverage and resolution of the South      Long. Cov.  50-240 D
Pole region for 92-14A, includes previously un-     Lat.  Cov. -50 -90 D
charted region with possible extensions of Ado-     Coverage: 17%
nis and Thasus Lineas.--Unique observation--This    Sub S/C Long. 233.46 D
locality provides best opportunity to search for    Sub S/C Lat.  -61.17 D
volatile species other than H2 O.

                                Design Detail
 CDS   287  POINTER Design Y  Frames        0  Exc      Alias

 TARGET    144  CSMOS      63  INITRS     47  SCIREC     18  SCITLM     15

Distance: 35114 km          Mode: full map            -----Note-----
Phase: 85.53 Deg            Slew rate: 110 mr/s        PPR will ride
Cone: 95.24 Deg             % overlap:  8              along with NIMS
Wavelengths: 204            Num. of strips: 4.2        on this design.
Resolution: 17.55 km/pix                              --------------
Booms: not in f.o.v.        DMS mode: 28.8
Area cov. in pixels: 4236   ASD: 2.451 Deg            Tracks: 0.1474
Gain state = 3              Grating Start Position = 1
No Data Returned
Full Map (FM), Gain 3, Grating Start 1, MPW, EFM204

Created on      09/21/93      Version     1                      10/24/94
Last Changed      /  /        Changed By                         10:39:39

Galileo Activity Plan Form                                        rev 6/93
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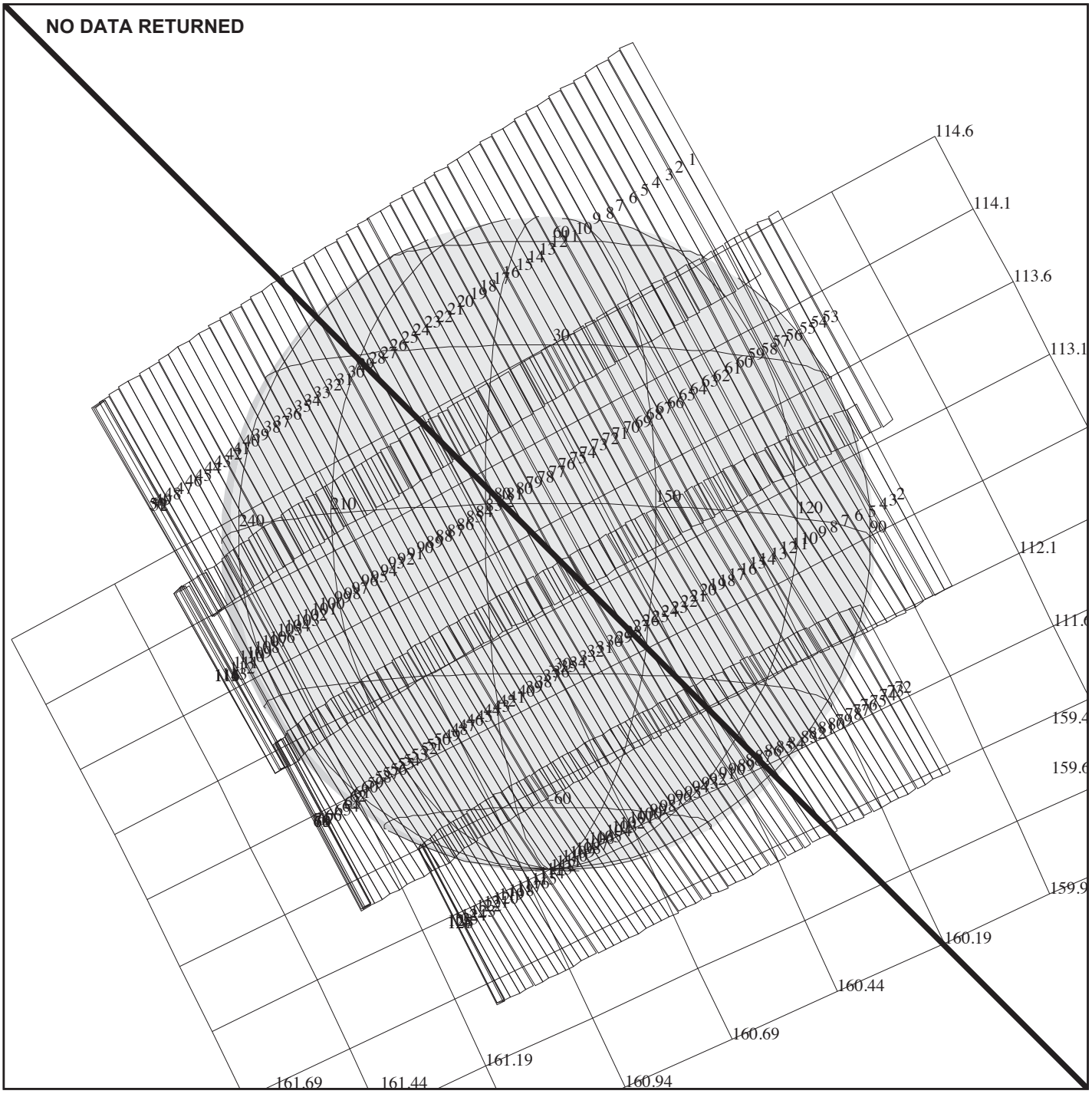


165JH:TT= 0 TMC= 1 C= -11.90 XC= 10.00 BS= 0/9475 TC= 3
A= 182 pD= 9774 SR= 8.000 RA50=249.64 DEC50=-16.39 cone=159.89 clock=115.20
117JH:#SB= 2 OR= 0.030 RR= 8.000 BM=F RC= 1 BS= 0/9657
1:#s= 1 Cs= 25.70 XCs= 0.00 Cr= -28.00 XCr= -8.00 sD= 2702 rD= 40
2:#s= 1 Cs= 31.80 XCs= 0.00 Cr= -28.50 XCr= -7.00 sD= 3344 rD= 24
117JI:#SB= 3 OR= 0.060 RR= 8.000 BM=F RC= 1 BS=35/5845
1:#s= 1 Cs= 0.01 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 16 rD= 12
2:#s= 1 Cs= 34.00 XCs= 0.00 Cr= -32.60 XCr= -9.00 sD= 1792 rD= 28
3:#s= 1 Cs= 28.00 XCs= 0.00 Cr= -30.40 XCr= -10.00 sD= 1470 rD= 28

JAINHRSPEC01

POINTER E2.0 Iisac: 6/18/1994 21:45: 1

FILE:P.JAINHRSPEC01

CENTRAL BODY: IO

MINI:m.JAINHRSPEC01

S/C EPH:/DATA/NAVIO/IOaimpt.sc

PERIAPSIS:

THINNING:NIM 2

START:IEE 95-341/17:45:47.879 -02:38:54

BODY PLOT TIME:TARGET-TIME D= 9774

OBSERVATION:JAINHRSPEC01

DESCRIP:J0 Io Global Mosaic

HIGH SPATIAL & SPECTRAL OBS. OF IO ACTIVITY ID: JAINHRSPEC01-
START TIME: IEE-CDS 00000159:11:0

Activity ID Orbit JA Target I Inst N OAPEL HRSPEC SeqNo 01 Multi -
Title HIGH SPATIAL & SPECTRAL OBS. OF IO
Requestor R. LOPES-GAUTIER/E.B Working Group SWG
Bottom Label Plot Key NIMS Science Team NIMS

Time System EPOCH Load ID Calendar Date 12/07/95 Week 49

Start	IEE-CDS 00000159:11:0	95-341/15:04:57	IEE-000/02:40:51
End	IEE-CDS 00000104:36:0	95-341/16:00:16	IEE-000/01:45:32
Duration	00000054:66:0	000/00:55:19	000/00:55:19

Inertial Yes SP Y Earth Ref N Spin Stat D Coop Imag N DSP .F. RSTrack

RECORD: Format MPW Record Duration 51 :40:0 Tic Duration
Multiple Records 2 Acq Start/Stop Cycles 0 Start Tics 0 Track

Instrument Compression:

DDS 0	SSI 0	PWS 0	EUV 0	EPD 0	NIM% 100.	UVS 0
MAG 0	AACS 0	PWSW 0	HIC 0	PPR 0	NIMS 2.0	PLS 0

REALTIME: RTS FORMAT RTS Rate Playback DIS Duration

DDS	EUV	PLS	EPD	NIMS
MAG	HIC	PWS	UVS	OPNAV

Tracks 0.3931 Bits-to-Ground 16650000 Playback S/S Cycles 0

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. This is the highest spatial and spectral global observation of IO in the mission. The high spectral resolution obtained by this observation will be used to refine wavelength choices for subsequent observations in the tour.

Design Detail

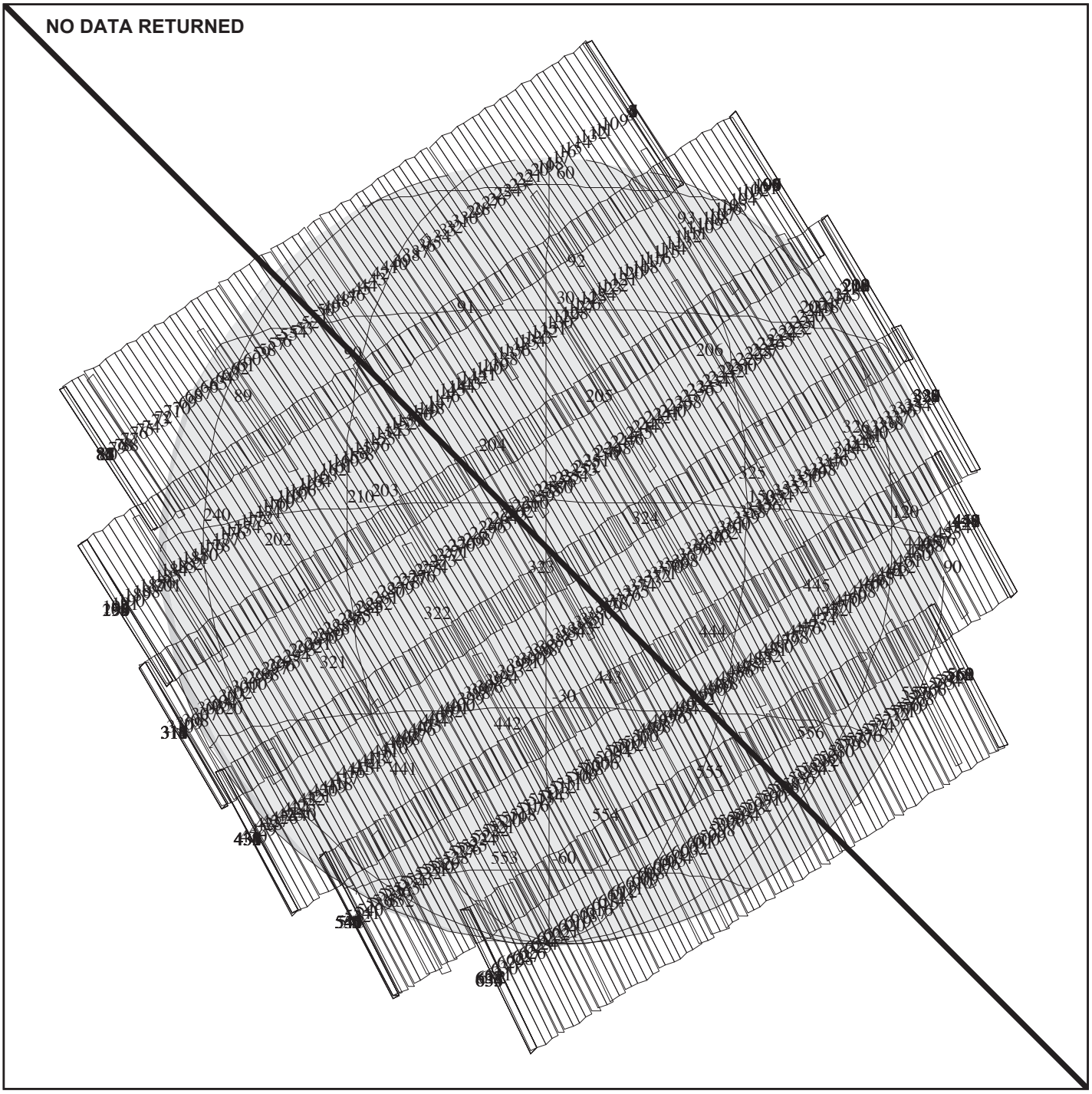
CDS 311 POINTER Design Y Frames 0 Exc Alias

TARGET 144 CSMOS 37 CSMOS 50 INITRS 47 SCIREC 18
SCITLM 15

Global mosaic, half in Long Map (408 wavelegths) and half in
Full Map (204 wavelengths).
Spatial resolution: approximately 50 to 60 Km/NIMS pixel
Phase angle: approximately 14 degrees
Cone angle: approximately 166 degrees
Grating Start Position = 0 & 1
Tracks: 0.4401 PPR will ride along.
No Data Returned
Long Map (LM), Gain 2, Grating Start 0, MPW, ILM408

Created on 12/01/93 Version 1 10/24/94
Last Changed / / Changed By 10:39:45

Galileo Activity Plan Form rev 6/93



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117JJ:#SB= 6 OR= 0.750 RR=12.000 BM=F RC= 1 BS= 5/2579
1:#s= 1 Cs= 37.00 XCs= 0.00 Cr= -42.00 XCr= -8.00 sD= 160 rD= 48
2:#s= 1 Cs= 46.50 XCs= 0.00 Cr= -42.00 XCr= -8.00 sD= 200 rD= 26
3:#s= 1 Cs= 49.50 XCs= 0.00 Cr= -48.00 XCr= -8.00 sD= 212 rD= 26
4:#s= 1 Cs= 50.00 XCs= 0.00 Cr= -49.80 XCr= -8.00 sD= 214 rD= 26
5:#s= 1 Cs= 46.20 XCs= 0.00 Cr= -48.20 XCr= -8.00 sD= 198 rD= 26
6:#s= 1 Cs= 35.60 XCs= 0.00 Cr= -40.80 XCr= -8.00 sD= 154 rD= 22

JAINGLOBAL01

POINTER E2.0 lisac: 6/18/1994 21:46:30

FILE:P.JAINGLOBAL01

CENTRAL BODY: IO

MINI:m.JAINGLOBAL01

S/C EPH:/DATA/NAVIO/IOaimpt.sc

PERIAPSIS:

START:IEE 95-341/17:45:47.879 -CDS 86:00:0

OBSERVATION:JAINGLOBAL01

THINNING:NIM 2

BODY PLOT TIME:END-TIME D= 1264

DESCRIP:J0 Io Global Mosaic

HIGH SPAT. LOW SPECTRAL OBS. OF IO ACTIVITY ID: JAINGLOBAL01-
START TIME: IEE-CDS 00000087:03:0

Activity ID Orbit JA Target I Inst N OAPEL GLOBAL SeqNo 01 Multi -
Title HIGH SPAT. LOW SPECTRAL OBS. OF IO
Requestor R. LOPES-GAUTIER/E.B Working Group SWG
Bottom Label Plot Key NIMS Science Team NIMS

Time System CDS Load ID Calendar Date 12/07/95 Week 49

Start	IEE-CDS 00000087:03:0	95-341/16:17:48	IEE-000/01:28:00
End	IEE-CDS 00000079:05:0	95-341/16:25:52	IEE-000/01:19:56
Duration	00000007:89:0	000/00:08:04	000/00:08:04

Inertial Yes SP Y Earth Ref N Spin Stat D Coop Imag N DSP .F. RSTrack

RECORD: Format MPW Record Duration 6 :86:0 Tic Duration
Multiple Records Acq Start/Stop Cycles 0 Start Tics 0 Track

Instrument Compression:

DDS 0	SSI 0	PWS 0	EUV 0	EPD 0	NIM% 100.	UVS 0
MAG 0	AACS 0	PWSW 0	HIC 0	PPR 0	NIMS 2.0	PLS 0

REALTIME: RTS FORMAT RTS Rate Playback Duration

DDS	EUV	PLS	EPD	NIMS
MAG	HIC	PWS	UVS	OPNAV

Tracks 0.0531 Bits-to-Ground 2153029 Playback S/S Cycles 0

Observation Objective

Highest spatial resolution global mosaic of Io in the mission. Objective is to map the spatial distribution of known spectral features.

Design Detail

CDS 313 POINTER Design Y Frames 0 Exc Alias

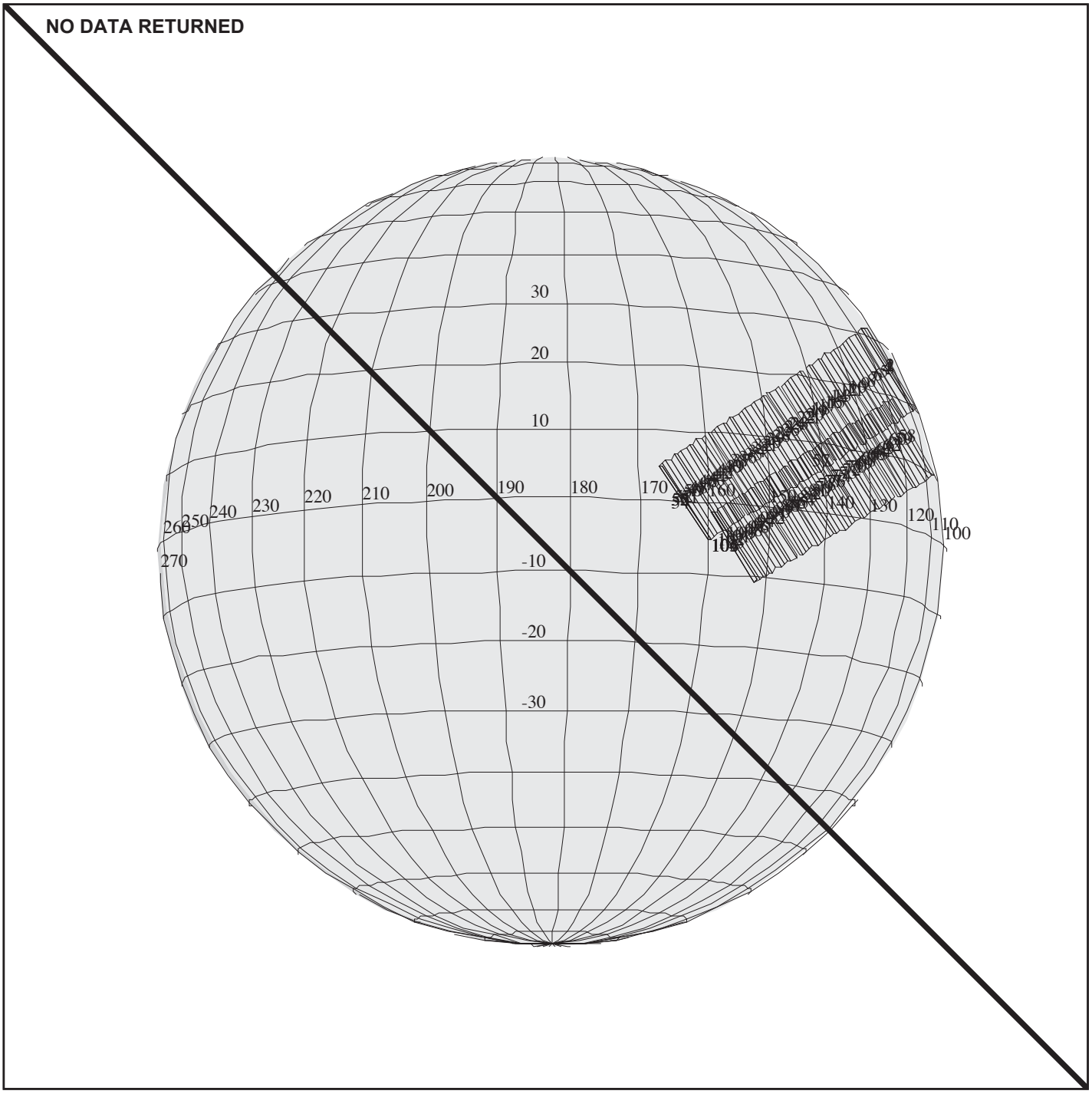
TARGET 144 CSMOS 89 INITRS 47 SCIREC 18 SCITLM 15

Global mosaic in fixed map, 17 wavelengths.
Resolution: approximately 25 km/NIMS pixel
Phase angle: approximately 13 degrees
Cone angle: approximately 168 degrees
Grating Start Position = 21
Tracks: 0.0548, PPR will ride along.

No Data Returned
Fixed Map (XM), Gain 2, Grating Start 21, MPW, IXM17

Created on 12/01/93 Version 1 10/24/94
Last Changed / / Changed By 10:39:51

Galileo Activity Plan Form rev 6/93



165JK:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS=17/9313 TC= 1(25 114)
A= 100 pD= 1458 SR=17.000 RA50=250.68 DEC50=-15.84 cone=160.33 clock=118.30
117JK:#SB= 2 OR= 0.110 RR= 6.500 BM=F RC= 1 BS=17/9313
1:#s= 1 Cs= 28.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 740 rD= 2
2:#s= 1 Cs= 26.00 XCs= 0.00 Cr= -26.00 XCr= -8.00 sD= 692 rD= 26

JAINHRCHEM01

POINTER E2.0 lisac: 6/18/1994 21:47:29

FILE:P.JAINHRCHEM01

CENTRAL BODY: IO

MINI:m.JAINHRCHEM01

S/C EPH:/DATA/NAVIO/IOaimpt.sc

PERIAPSIS:

THINNING:NIM 2

START:IEE 95-341/17:45:47.879 -CDS 49:00:0

BODY PLOT TIME:END-TIME D= 1458

OBSERVATION:JAINHRCHEM01

DESCRIP:Prometheus/Maui_Region

HIGH SPAT. OBS. OF PROMETHEUS/MAUI REG. ACTIVITY ID: JAINHRCHEM01-
START TIME: IEE-CDS 00000049:41:0

Activity ID Orbit JA Target I Inst N OAPEL HRCHEM SeqNo 01 Multi -
Title HIGH SPAT. OBS. OF PROMETHEUS/MAUI REG.
Requestor R. LOPES-GAUTIER/E.B Working Group SWG
Bottom Label Plot Key NIMS Science Team NIMS

Time System EPOCH Load ID Calendar Date 12/07/95 Week 49

Start	IEE-CDS 00000049:41:0	95-341/16:55:48	IEE-000/00:50:00
End	IEE-CDS 00000040:80:0	95-341/17:04:28	IEE-000/00:41:20
Duration	00000008:52:0	000/00:08:40	000/00:08:40

Inertial Yes SP Y Earth Ref N Spin Stat D Coop Imag N DSP .F. RSTrack

RECORD: Format MPW Record Duration 7 :90:0 Tic Duration
Multiple Records Acq Start/Stop Cycles 0 Start Tics 0 Track

Instrument Compression:

DDS 0	SSI 0	PWS 0	EUV 0	EPD 0	NIM% 100.	UVS 0
MAG 0	AACS 0	PWSW 0	HIC 0	PPR 0	NIMS 2.0	PLS 0

REALTIME: RTS FORMAT RTS Rate Playback Duration

DDS	EUV	PLS	EPD	NIMS
MAG	HIC	PWS	UVS	OPNAV

Tracks 0.0611 Bits-to-Ground 2451415 Playback S/S Cycles 0

Observation Objective

Very high spatial, medium spectral resolution observation of Prometheus-Maui region to investigate local mineralogy and distribution of SO2.

Design Detail

CDS 261 POINTER Design Y Frames 0 Exc Alias

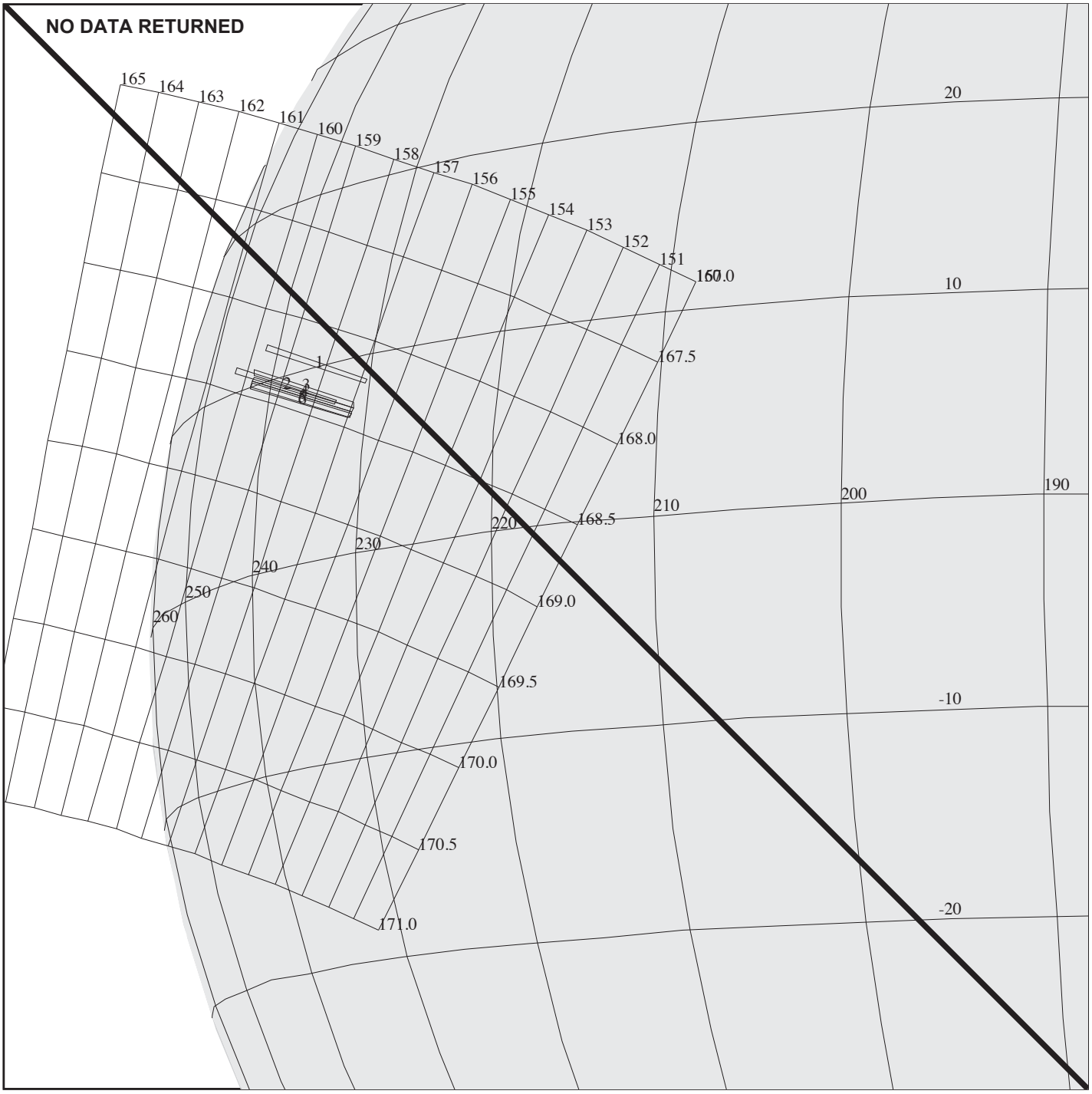
TARGET 144 CSMOS 37 INITRS 47 SCIREC 18 SCITLM 15

Mosaic of Prometheus/Maui region in short map, 102 wavelengths.
Resolution: approximately 15 km/NIMS pixel
Phase angle: approximately 13 degrees
Cone angle: approximately 167 degrees
Grating Start Position = 1
Tracks: 0.0466, PPR will ride along.

No Data Returned
Short Map (SM), Gain 2, Grating Start 1, MPW, ISM102

Created on 12/01/93 Version 1 10/24/94
Last Changed / / Changed By 10:39:57

Galileo Activity Plan Form rev 6/93



165JL:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS=28/4773 TC= 1(9 236)
A= 62 pD= 90 SR= 5.600 RA50=264.24 DEC50=-16.42 cone=168.37 clock=158.38
117JL:#SB= 1 OR= 0.060 RR=12.000 BM=F RC= 1 BS=28/4773
1:#s= 1 Cs= 1.25 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 90 rD= 6

JAINMTMESA01

POINTER E2.0 lisac: 6/18/1994 21:48:36

FILE:P.JAINMTMESA01

CENTRAL BODY: IO

MINI:m.JAINMTMESA01

S/C EPH:/DATA/NAVIO/IOaimpt.sc

PERIAPSIS: **THINNING:NIM 2**

START:IEE 95-341/17:45:47.879 -CDS 19:00:0 **BODY PLOT TIME:TARGET-TIME D= 90**

OBSERVATION:JAINMTMESA01 **DESCRIP:high_spat.res._of_Mt_Mesa**

HIGH SPAT. RES. OF MOUNTAIN/MESA REGION ACTIVITY ID: JAINMTMESA01-
START TIME: IEE-CDS 00000019:14:0

Activity ID Orbit JA Target I Inst N OAPEL MTMESA SeqNo 01 Multi -
Title HIGH SPAT. RES. OF MOUNTAIN/MESA REGION
Requestor R. LOPES-GAUTIER/E.B Working Group SWG
Bottom Label Plot Key NIMS Science Team NIMS

Time System CDS Load ID Calendar Date 12/07/95 Week 49

Start	IEE-CDS 00000019:14:0	95-341/17:26:26	IEE-000/00:19:22
End	IEE-CDS 00000018:22:0	95-341/17:27:22	IEE-000/00:18:26
Duration	00000000:83:0	000/00:00:56	000/00:00:56

Inertial Yes SP Y Earth Ref N Spin Stat D Coop Imag N DSP .F. RSTrack

RECORD: Format MPW Record Duration 0 :45:0 Tic Duration
Multiple Records Acq Start/Stop Cycles 0 Start Tics 0 Track

Instrument Compression:

DDS 0	SSI 0	PWS 0	EUV 0	EPD 0	NIM% 100.	UVS 0
MAG 0	AACS 0	PWSW 0	HIC 0	PPR 0	NIMS 2.0	PLS 0

REALTIME: RTS FORMAT RTS Rate Playback Duration

DDS	EUV	PLS	EPD	NIMS
MAG	HIC	PWS	UVS	OPNAV

Tracks 0.0038 Bits-to-Ground 214620 Playback S/S Cycles 0

Observation Objective

Very high spatial resolution observation of a mountain/mesa region located at approximately 8 degrees latitude and 235 degrees longitude. Objective is to investigate local mineralogy, locate possible silicate materials and determine local distribution of SO2.

Design Detail

CDS 248 POINTER Design Y Frames 0 Exc Alias

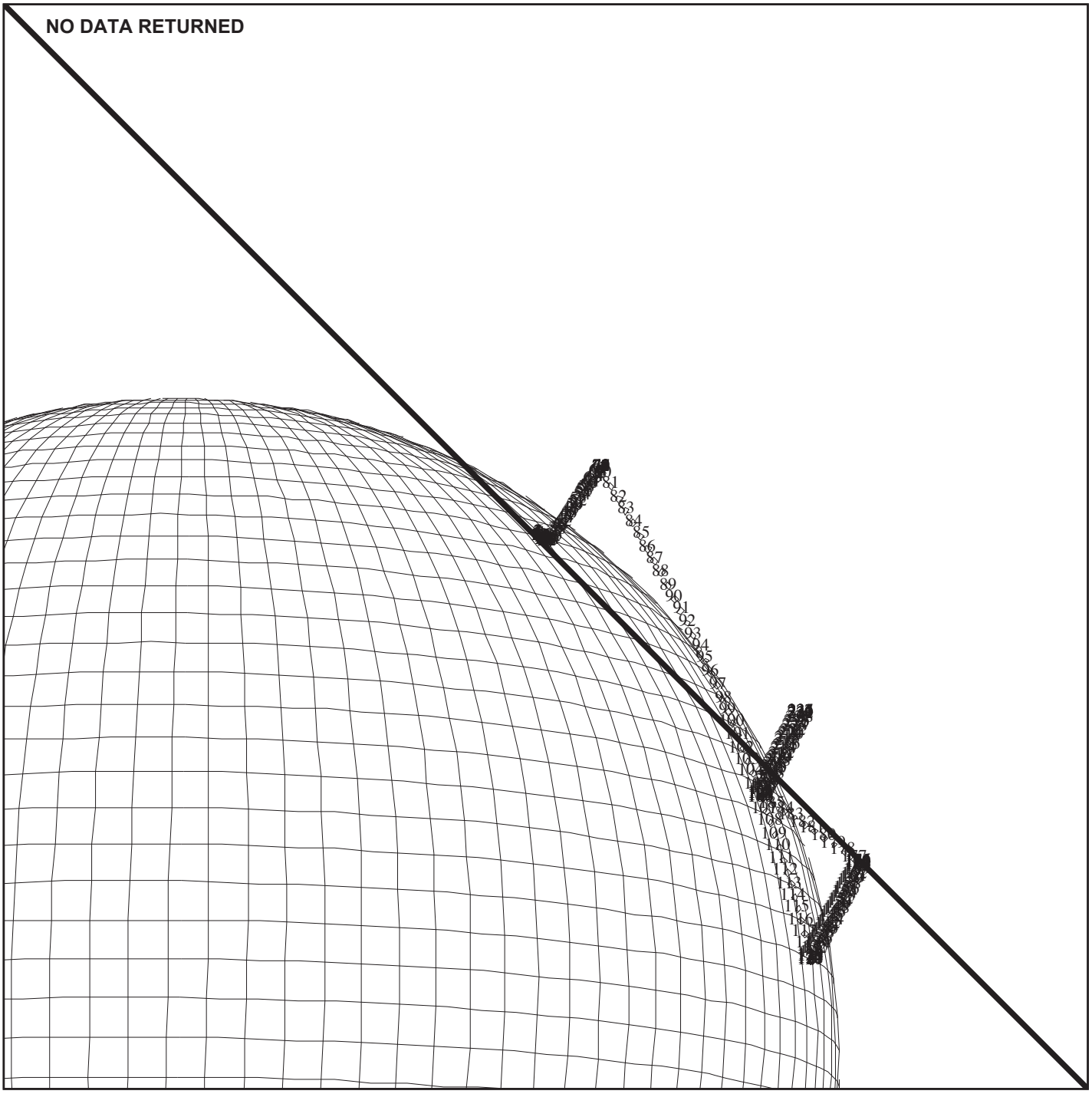
TARGET 144 CSMOS 24 INITRS 47 SCIREC 18 SCITLM 15

Mosaic of small area (centered at approx. 8 degrees lat., 236 degrees long.) in full map, 204 wavelngths.
Phase angle: 8 degrees
Cone angle: 169 degrees
Grating Start Position: 1
Resolution: 8 km/NIMS pixel
Tracks: 0.0038, PPR will ride along.

No Data Returned
Full Map (FM), Gain 2, Grating Start 1, MPW, IFM204

Created on 12/01/93 Version 1 10/24/94
Last Changed / / Changed By 10:40:03

Galileo Activity Plan Form rev 6/93



165JM:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS=30/5319 TC= 1(44 132)
A= 84 pD= 412 SR=17.450 RA50=256.88 DEC50=-11.77 cone=161.20 clock=140.30
117JM:#SB= 3 OR= 0.750 RR=12.000 BM=F RC= 1 BS=30/5319
1:#s= 1 Cs= -18.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 90 rD= 2
2:#s= 1 Cs= -19.00 XCs= 0.00 Cr= 58.00 XCr= -90.00 sD= 90 rD= 104
3:#s= 1 Cs= -18.00 XCs= 0.00 Cr= 0.00 XCr= 24.00 sD= 88 rD= 40

JAINLBSCAN01

POINTER E2.0 lisac: 6/18/1994 21:49:28

FILE:P.JAINLBSCAN01

CENTRAL BODY: IO

MINI:m.JAINLBSCAN01

S/C EPH:/DATA/NAVIO/IOaimpt.sc

PERIAPSIS: **THINNING:NIM 2**

START:IEE 95-341/17:45:47.879 -CDS 16:00:0 **BODY PLOT TIME:TARGET-TIME D= 412**

OBSERVATION:JAINLBSCAN01 **DESCRIP:J0_IO_limb_Scan**

LIMB SCAN TO DETECT SO2 ACTIVITY ID: JAINLBSCAN01-
START TIME: IEE-CDS 00000016:24:0

Activity ID Orbit JA Target I Inst N OAPEL LBSCAN SeqNo 01 Multi -
Title LIMB SCAN TO DETECT SO2
Requestor R. LOPES-GAUTIER/E.B Working Group SWG
Bottom Label Plot Key NIMS Science Team NIMS

Time System CDS Load ID Calendar Date 12/07/95 Week 49

Start	IEE-CDS 00000016:24:0	95-341/17:29:22	IEE-000/00:16:26
End	IEE-CDS 00000013:41:0	95-341/17:32:12	IEE-000/00:13:36
Duration	00000002:74:0	000/00:02:50	000/00:02:50

Inertial Yes SP Y Earth Ref N Spin Stat D Coop Imag N DSP .F. RSTrack

RECORD: Format MPW Record Duration 1 :46:0 Tic Duration
Multiple Records 3 Acq Start/Stop Cycles 0 Start Tics 0 Track

Instrument Compression:

DDS	0	SSI	0	PWS	0	EUV	0	EPD	0	NIM%	11.8 UVS 0
MAG	0	AACS	0	PWSW	0	HIC	0	PPR	0	NIMS	2.0 PLS 0

REALTIME: RTS FORMAT RTS Rate Playback Duration

DDS	EUV	PLS	EPD	NIMS
MAG	HIC	PWS	UVS	OPNAV

Tracks 0.0115 Bits-to-Ground 55071 Playback S/S Cycles 0

Observation Objective

Limb scans to detect SO2 in Io's atmosphere. High spatial resolution required. Objective is to determine if atmospheric SO2 is due to volcanic plumes or to sublimation. One scan will be done near the sub-solar point, one over an active region (Amarani Maui) and one in between.

Design Detail

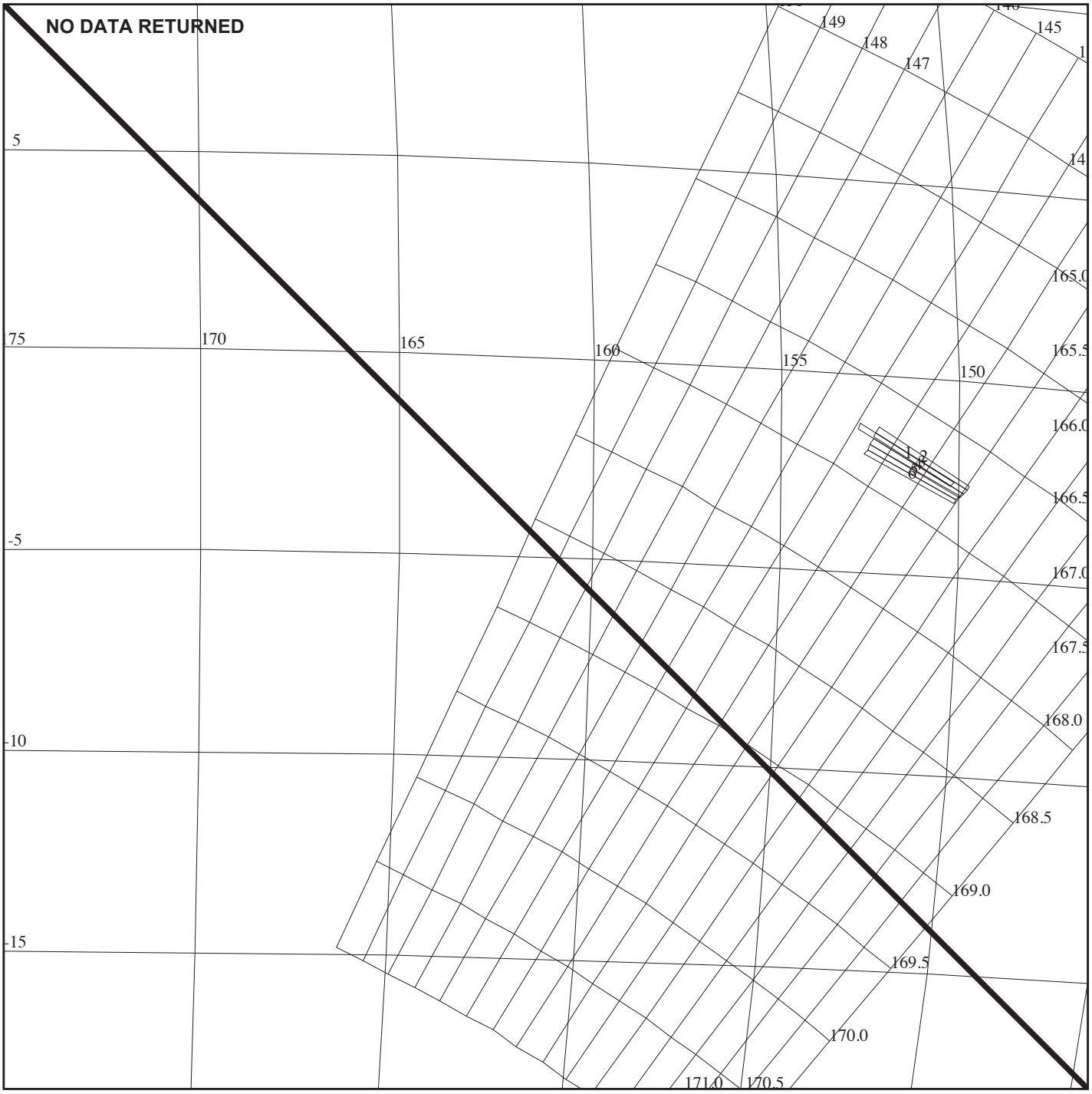
CDS	274	POINTER Design Y		Frames	0	Exc		Alias	
TARGET	144	CSMOS	50	INITRS	47	SCIREC	18	SCITLM	15

Three scans in fixed spectrometer mode, 2 wavelengths (SO2 plus another), spatial resolution is approx. 6 km/NIMS pixel, phase angle is approx. 6 degrees, cone angle is approx. 162 degrees, tracks = 0.0113, PPR will ride along.
Grating Start Position: 15

No Data Returned
Fixed Spectrometer (XS), Gain 2, Grating Start 15, MPW, IXS17

Created on 12/01/93 Version 1 10/24/94
Last Changed / / Changed By 10:40:09

Galileo Activity Plan Form rev 6/93



165JN:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS=11/6229 TC= 1(-2 151)
A= 74 pD= 134 SR= 7.200 RA50=260.50 DEC50=-16.68 cone=167.21 clock=142.22
117JN:#SB= 1 OR= 0.060 RR=12.000 BM=F RC= 1 BS=11/6229
1:#s= 1 Cs= 2.20 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 134 rD= 6

JAINPROMVT01

POINTER E2.0 lisac: 6/18/1994 21:51:10

FILE:P.JAINPROMVT01

CENTRAL BODY: IO

MINI:m.JAINPROMVT01

S/C EPH:/DATA/NAVIO/IOaimpt.sc

PERIAPSIS: **THINNING:NIM 2**

START:IEE 95-341/17:45:47.879 -CDS 11:00:0 **BODY PLOT TIME:TARGET-TIME D= 134**

OBSERVATION:JAINPROMVT01 **DESCRIP:high_spat.res._of_Prometheus**

HIGH SPAT. RES. OBS. OF PROMETHEUS VENT ACTIVITY ID: JAINPROMVT01-
START TIME: IEE-CDS 00000012:14:0

Activity ID Orbit JA Target I Inst N OAPEL PROMVT SeqNo 01 Multi -
Title HIGH SPAT. RES. OBS. OF PROMETHEUS VENT
Requestor R. LOPES-GAUTIER/E.B Working Group SWG
Bottom Label Plot Key NIMS Science Team NIMS

Time System CDS Load ID Calendar Date 12/07/95 Week 49

Start	IEE-CDS	00000012:14:0	95-341/17:33:31	IEE-000/00:12:17
End	IEE-CDS	00000010:20:0	95-341/17:35:28	IEE-000/00:10:20
Duration		00000001:85:0	000/00:01:57	000/00:01:57

Inertial Yes SP Y Earth Ref N Spin Stat D Coop Imag N DSP .F. RSTrack

RECORD: Format MPW Record Duration 0 :70:0 Tic Duration
Multiple Records Acq Start/Stop Cycles 0 Start Tics 0 Track

Instrument Compression:

DDS	0	SSI	0	PWS	0	EUV	0	EPD	0	NIM%	100. UVS 0
MAG	0	AACS	0	PWSW	0	HIC	0	PPR	0	NIMS	2.0 PLS 0

REALTIME: RTS FORMAT RTS Rate Playback Duration

DDS	EUV	PLS	EPD	NIMS
MAG	HIC	PWS	UVS	OPNAV

Tracks 0.0059 Bits-to-Ground 224851 Playback S/S Cycles 0

Observation Objective

Very high spatial resolution observation of Prometheus vent. Objective is to investigate local mineralogy and locate possible silicate materials in vent area and determine local distribution of SO2. Prometheus is a persistent - type plume.

Design Detail

CDS 248 POINTER Design Y Frames 0 Exc Alias

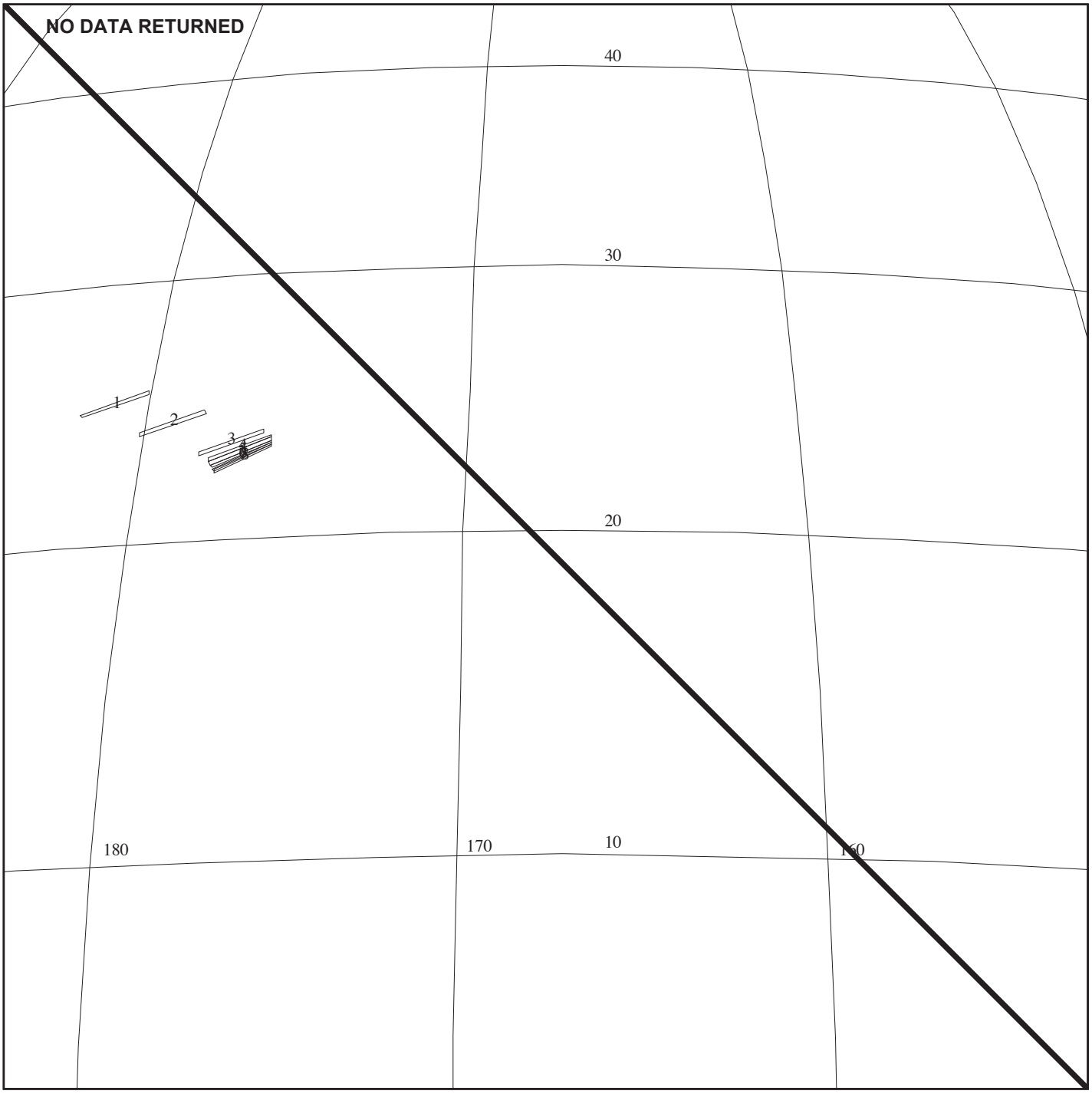
TARGET 144 CSMOS 24 INITRS 47 SCIREC 18 SCITLM 15

Mosaic of small area (centered at approx. -2 degrees latitude, 151 degrees longitude) in full map, 204 wavelengths.
Resolution: 5 km/NIMS pixel
Phase angle: 6 degrees, cone angle: 167 degrees,
Grating Start Position = 1
tracks = 0.0059,
PPR will ride along.

No Data Returned
Full Map (FM), Gain 2, Grating Start 1, MPW, IFM204

Created on 12/02/93 Version 1 10/24/94
Last Changed / / Changed By 10:40:15

Galileo Activity Plan Form rev 6/93



165JO:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS=31/6775 TC= 1(23.3 177)
A= 78 pD= 134 SR=11.900 RA50=273.98 DEC50= -9.02 cone=160.50 clock=193.97
117JO:#SB= 1 OR= 0.060 RR= 0.060 BM=F RC= 1 BS=31/6775
1:#s= 1 Cs= 2.30 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 134 rD= 2

JAINVOLUND01

POINTER E2.0 lisac: 6/18/1994 21:51:49

FILE:P.JAINVOLUND01

CENTRAL BODY: IO

MINI:m.JAINVOLUND01

S/C EPH:/DATA/NAVIO/IOaimpt.sc

PERIAPSIS:

THINNING:NIM 2

START:IEE 95-341/17:45:47.879 -:07:24

BODY PLOT TIME:END-TIME D= 134

OBSERVATION:JAINVOLUND01

DESCRIP:NIMS

HIGH SPATIAL RES. OBS. OF VOLUND VENT ACTIVITY ID: JAINVOLUND01-
START TIME: IEE-CDS 00000008:22:0

Activity ID Orbit JA Target I Inst N OAPEL VOLUND SeqNo 01 Multi -
Title HIGH SPATIAL RES. OBS. OF VOLUND VENT
Requestor R. LOPES-GAUTIER/E.B Working Group SWG
Bottom Label Plot Key NIMS Science Team NIMS

Time System CDS Load ID Calendar Date 12/07/95 Week 49

Start	IEE-CDS 00000008:22:0	95-341/17:37:28	IEE-000/00:08:20
End	IEE-CDS 00000006:90:0	95-341/17:38:44	IEE-000/00:07:04
Duration	00000001:23:0	000/00:01:16	000/00:01:16

Inertial Yes SP Y Earth Ref N Spin Stat D Coop Imag N DSP .F. RSTrack

RECORD: Format MPW Record Duration 0 :66:0 Tic Duration
Multiple Records Acq Start/Stop Cycles 0 Start Tics 0 Track

Instrument Compression:

DDS	0	SSI	0	PWS	0	EUV 0	EPD 0	NIM% 100.	UVS 0
MAG	0	AACS	0	PWSW	0	HIC 0	PPR 0	NIMS 2.0	PLS 0

REALTIME: RTS FORMAT RTS Rate Playback DIS Duration

DDS	EUV	PLS	EPD	NIMS
MAG	HIC	PWS	UVS	OPNAV

Tracks 0.0055 Bits-to-Ground 204410 Playback S/S Cycles 0

Observation Objective

Very high spatial resolution observation of VOLUND vent. Objective is to investigate local mineralogy, locate possible silicate materials and determine local distribution of SO2.

Design Detail

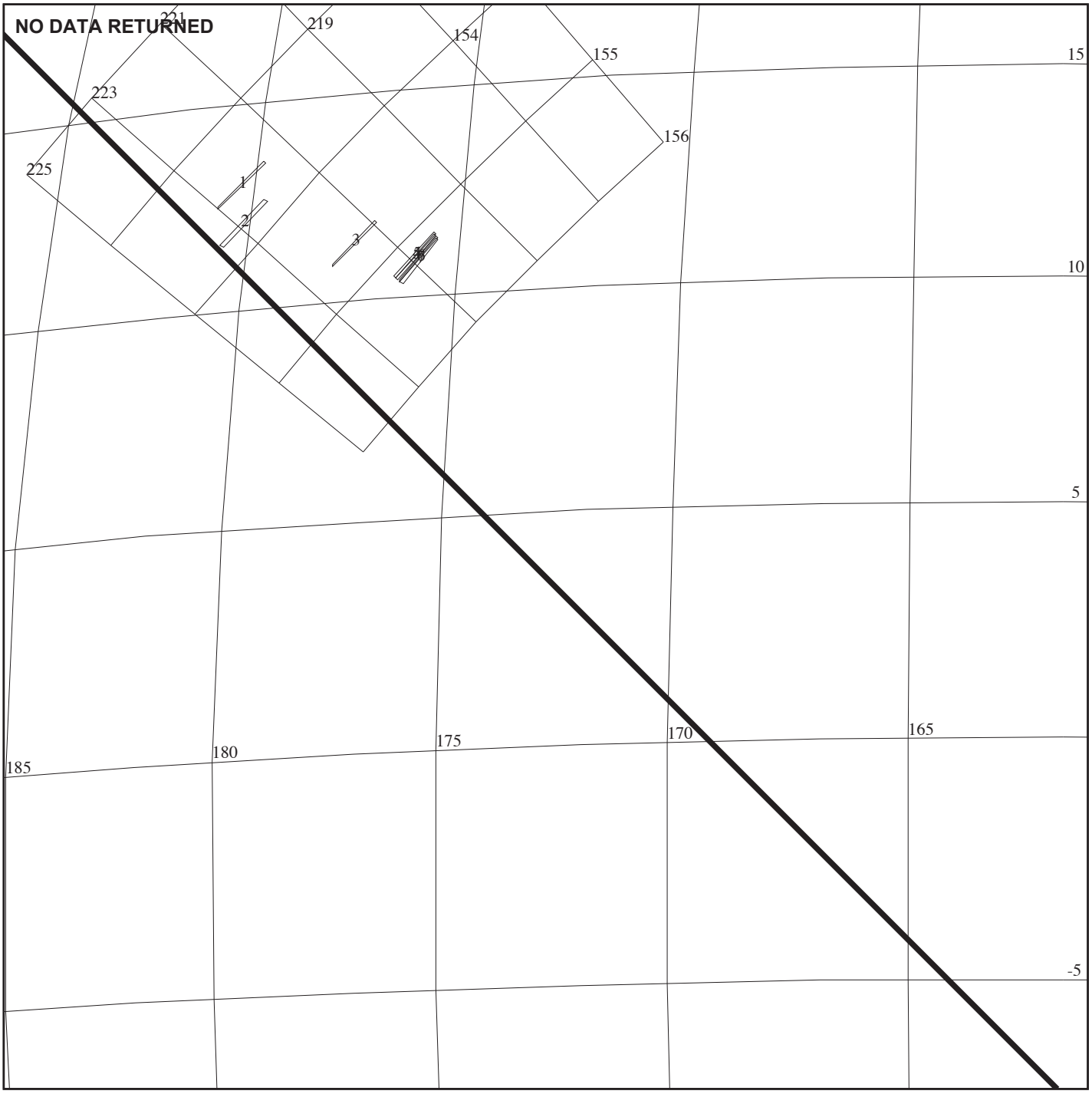
CDS	248	POINTER Design Y		Frames	0	Exc		Alias	
TARGET	144	CSMOS	24	INITRS	47	SCIREC	18	SCITLM	15

Mosaic of small area (centered at approx. 23 degrees latitude, 177 degrees longitude) in full map, 204 wavelengths. Resolution is 3 km/NIMS pixel, phase angle is 8 degrees, cone angle is 161 degrees, tracks = 0.0057, PPR will ride along.
Grating Start Position = 1

No Data Returned
Full Map (FM), Gain 2, Grating Start 1, MPW, IFM204

Created on	12/03/93	Version 1	10/24/94
Last Changed	/ /	Changed By	10:40:21

Galileo Activity Plan Form rev 6/93



165JP:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS=49/7139 TC= 1(11 176)
A= 78 pD= 98 SR=14.460 RA50=285.47 DEC50= -9.23 cone=155.14 clock=220.85
117JP:#SB= 1 OR= 0.060 RR=12.000 BM=F RC= 1 BS=49/7139
1:#s= 1 Cs= 1.75 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 98 rD= 6

JAINCOLCHS01

POINTER E2.0 lisac: 6/18/1994 21:52:31

FILE:P.JAINCOLCHS01

CENTRAL BODY: IO

MINI:m.JAINCOLCHS01

S/C EPH:/DATA/NAVIO/IOaimpt.sc

PERIAPSIS: **THINNING:NIM 2**

START:IEE 95-341/17:45:47.879 -CDS 06:00:0 **BODY PLOT TIME:TARGET-TIME D= 98**

OBSERVATION:JAINCOLCHS01 **DESCRIP:high_spat.res._of_Colchis**

HIGH SPAT. RES. OBS. OF COLCHIS REGIO RG ACTIVITY ID: JAINCOLCHS01-
START TIME: IEE-CDS 00000006:14:0

Activity ID Orbit JA Target I Inst N OAPEL COLCHS SeqNo 01 Multi -
Title HIGH SPAT. RES. OBS. OF COLCHIS REGIO RG
Requestor R. LOPES-GAUTIER/E.B Working Group SWG
Bottom Label Plot Key NIMS Science Team NIMS

Time System CDS Load ID Calendar Date 12/07/95 Week 49

Start	IEE-CDS 00000006:14:0	95-341/17:39:35	IEE-000/00:06:13
End	IEE-CDS 00000004:86:0	95-341/17:40:48	IEE-000/00:05:00
Duration	00000001:19:0	000/00:01:13	000/00:01:13

Inertial Yes SP Y Earth Ref N Spin Stat D Coop Imag N DSP .F. RSTrack

RECORD: Format MPW Record Duration 0 :50:0 Tic Duration
Multiple Records Acq Start/Stop Cycles 0 Start Tics 0 Track

Instrument Compression:

DDS	0	SSI	0	PWS	0	EUV	0	EPD	0	NIM%	100. UVS 0
MAG	0	AACS	0	PWSW	0	HIC	0	PPR	0	NIMS	2.0 PLS 0

REALTIME: RTS FORMAT RTS Rate Playback Duration

DDS	EUV	PLS	EPD	NIMS
MAG	HIC	PWS	UVS	OPNAV

Tracks 0.0041 Bits-to-Ground 143087 Playback S/S Cycles 0

Observation Objective

Very high spatial resolution observation of Colchis Regio region. Objective is to investigate local mineralogy, locate possible silicate materials and determine local SO2 distribution.

Design Detail

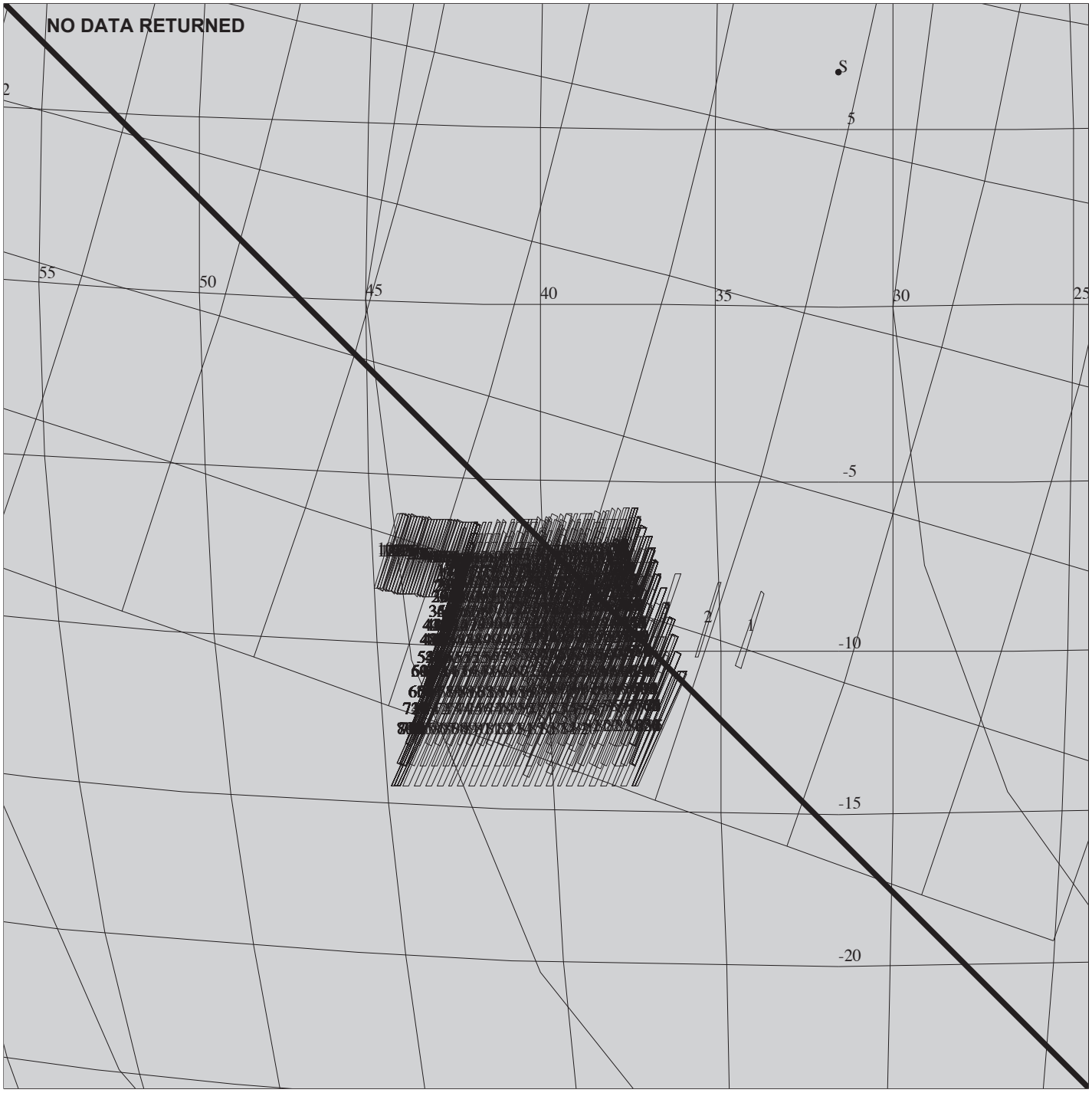
CDS	248	POINTER Design Y		Frames	0	Exc		Alias	
TARGET	144	CSMOS	24	INITRS	47	SCIREC	18	SCITLM	15

Mosaic of small area (centered at 11 degrees latitude, 176 degrees longitude) in full map, 204 wavelengths. Resolution is 2 km/NIMS pixel, phase angle is 13 degrees, cone angle is 155 degrees, tracks = 0.0040.
PPR will ride along.
Grating Start Position = 1

No Data Returned
Full Map (FM), Gain 2, Grating Start 1, MPW, IFM204

Created on 12/03/93 Version 1 10/24/94
Last Changed / / Changed By 10:40:28

Galileo Activity Plan Form rev 6/93



165LN:TT= 0 TMC= 1 C= -13.00 XC= -7.00 BS=37/9869 TC= 1(-10 40)
A= 60 pD= 774 SR=17.450 RA50= 54.42 DEC50= 11.31 cone= 35.18 clock=286.04
117LN:#SB= 2 OR= 3.000 RR=12.000 BM=F RC= 1 BS=37/9869
1:#s= 8 Cs= 18.00 XCs= -6.50 Cr= -17.50 XCr= 8.00 sD= 34 rD= 26
2:#s= 5 Cs= 18.00 XCs= -6.50 Cr= -17.50 XCr= 8.00 sD= 34 rD= 30

JAINHOTSPT01

POINTER E2.0 lisac: 6/18/1994 21:26:33

FILE:P.JAIPKANEHE01

CENTRAL BODY: IO

MINI:m.target

S/C EPH:/DATA/NAVIO/IOaimpt.sc

PERIAPSIS:

THINNING:NIM 1:PPR 1

START:IEE 95-341/17:45:47.879 +00:10:00

BODY PLOT TIME:TARGET-TIME D= 774

OBSERVATION:JAIPKANEHE01

DESCRIP:Kanehekili mosaic

NIGHTSIDE OBSERVATION OF KANEHEKILI ACTIVITY ID: JAINHOTSPT01*
START TIME: IEE+CDS 00000008:77:0

Activity ID Orbit JA Target I Inst N OAPEL HOTSPT SeqNo 01 Multi *
Title NIGHTSIDE OBSERVATION OF KANEHEKILI
Requestor R. LOPES-GAUTIER/E.B Working Group SWG
Bottom Label Plot Key NIMS Science Team NIMS

Time System CDS Load ID Calendar Date 12/07/95 Week 49

Start	IEE+CDS 00000008:77:0	95-341/17:54:44	IEE+000/00:08:56
End	IEE+CDS 00000013:77:0	95-341/17:59:48	IEE+000/00:14:00
Duration	00000005:00:0	000/00:05:04	000/00:05:04

Inertial Yes SP Y Earth Ref N Spin Stat D Coop Imag N DSP .F. RSTrack

RECORD: Format MPW Record Duration 0 :00:0 Tic Duration
Multiple Records Acq Start/Stop Cycles 0 Start Tics 0 Track

Instrument Compression:

DDS 0	SSI 0	PWS 0	EUV 0	EPD 0	NIM% 0	UVS 0
MAG 0	AACS 0	PWSW 0	HIC 0	PPR 0	NIMS 0	PLS 0

REALTIME: RTS FORMAT RTS Rate Playback Duration

DDS	EUV	PLS	EPD	NIMS
MAG	HIC	PWS	UVS	OPNAV

Tracks 0.0038 Bits-to-Ground 1550000 Playback S/S Cycles 0

Observation Objective

High spatial resolution mosaic of part of Io's nightside to determine heat flow from surface, monitor hot spot Kanehekili, and search for new hot spots.

Design Detail

CDS 0 POINTER Design Y Frames 0 Exc Alias: JAIPKANEHE01

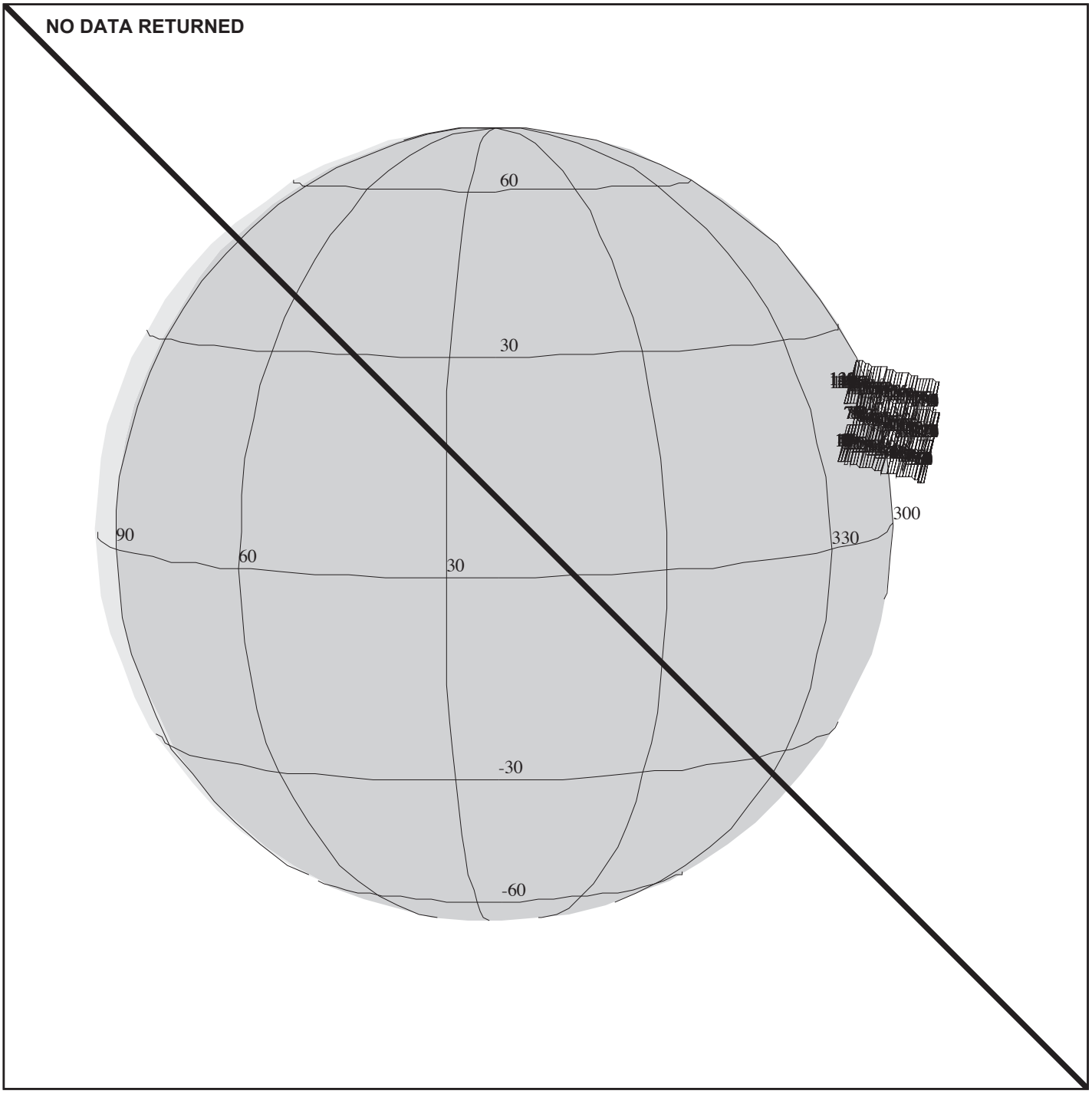
TARGET	144	CSMOS	24	INITRS	47	SCIREC	18	SCITLM	15

Mosaic of part of Io's nightside including the hot spot Kanehekili (approx. -10 degrees latitude, 40 degrees longitude). Joint observation with PPR (PPR will design observation) NIMS in fixed map mode, 17 wavelengths. Resolution approx. 4 km/NIMS pixel, phase angle is approx. 148 degrees, tracks = 0.038.
Grating Start Position = 21

No Data Returned
Fixed Map (XM), Gain 2, Grating Start 21, MPW, IXM17

Created on 12/03/93 Version 1 10/24/94
Last Changed / / Changed By 10:40:34

Galileo Activity Plan Form rev 6/93



165JQ:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS=28/1871 TC= 1(14.13 321)
A= 26 pD= 348 SR= 4.650 RA50= 55.44 DEC50= 15.70 cone= 32.13 clock=280.05
117JQ:#SB= 3 OR= 0.750 RR= 6.000 BM=F RC= 1 BS=28/1871
1:#s= 1 Cs= 19.00 XCs= 0.00 Cr= 11.00 XCr= -7.00 sD= 100 rD= 20
2:#s= 1 Cs= 19.00 XCs= 0.00 Cr= -19.00 XCr= -7.00 sD= 100 rD= 22
3:#s= 1 Cs= 20.00 XCs= 0.00 Cr= -22.00 XCr= -7.00 sD= 100 rD= 26

JAINLOKIPL01

POINTER E2.0 Iisac: 6/18/1994 21:53: 7

FILE:P.JAINLOKIPL01

CENTRAL BODY: IO

MINI:m.JAINLOKIPL01

S/C EPH:/DATA/NAVIO/IOaimpt.sc

PERIAPSIS: **THINNING:NIM 2**

START:IEE 95-341/17:45:47.879 +CDS 20:00:0 **BODY PLOT TIME:CENTER-TIME D= 348**

OBSERVATION:JAINLOKIPL01 **DESCRIP:J0 Io Limb Scan**

LOKI PLUME OBSERVATION

ACTIVITY ID: JAINLOKIPL01*
START TIME: IEE+CDS 00000019:71:0

Activity ID Orbit JA Target I Inst N OAPEL LOKIPL SeqNo 01 Multi *
Title LOKI PLUME OBSERVATION
Requestor R. LOPES-GAUTIER/E.B Working Group SWG
Bottom Label Plot Key NIMS Science Team NIMS

Time System CDS Load ID Calendar Date 12/07/95 Week 49

Start	IEE+CDS 00000019:71:0	95-341/18:05:48	IEE+000/00:20:00
End	IEE+CDS 00000022:16:0	95-341/18:08:13	IEE+000/00:22:25
Duration	00000002:36:0	000/00:02:25	000/00:02:25

Inertial Yes SP Y Earth Ref N Spin Stat D Coop Imag N DSP .F. RSTrack

RECORD: Format MPW Record Duration 1 :85:0 Tic Duration 0
Multiple Records Acq Start/Stop Cycles 0 Start Tics 0 Track

Instrument Compression:

DDS	0	SSI	0	PWS	0	EUV	0	EPD	0	NIM%	100. UVS 0
MAG	0	AACS	0	PWSW	0	HIC	0	PPR	1	NIMS	2.0 PLS 0

REALTIME: RTS FORMAT RTS Rate Playback Duration

DDS	EUV	PLS	EPD	NIMS
MAG	HIC	PWS	UVS	OPNAV

Tracks 0.0148 Bits-to-Ground 600000 Playback S/S Cycles 0

Observation Objective

Limb scan from surface to top of plume. Objectives are (i) to detect SO2 absorption in part of plume which is seen in forward scattering and (ii) measure temperature in dark part of plume surface.

Design Detail

CDS	274	POINTER Design Y		Frames	0	Exc		Alias	
TARGET	144	CSMOS	50	INITRS	47	SCIREC	18	SCITLM	15

Limb scan from surface to top of plume in fixed map, 17 wavelengths.
Resolution is approx. 8 km/NIMS pixel, phase angle is approx. 156 degrees,
Grating Start Position = 21, tracks = 0.0146.
This is a joint observation with PPR.

No Data Returned
Fixed Map (XM), Gain 2, Grating Start 21, MPW, IXM17

Created on 12/03/93 Version 1 10/24/94
Last Changed / / Changed By 10:40:41

Galileo Activity Plan Form rev 6/93

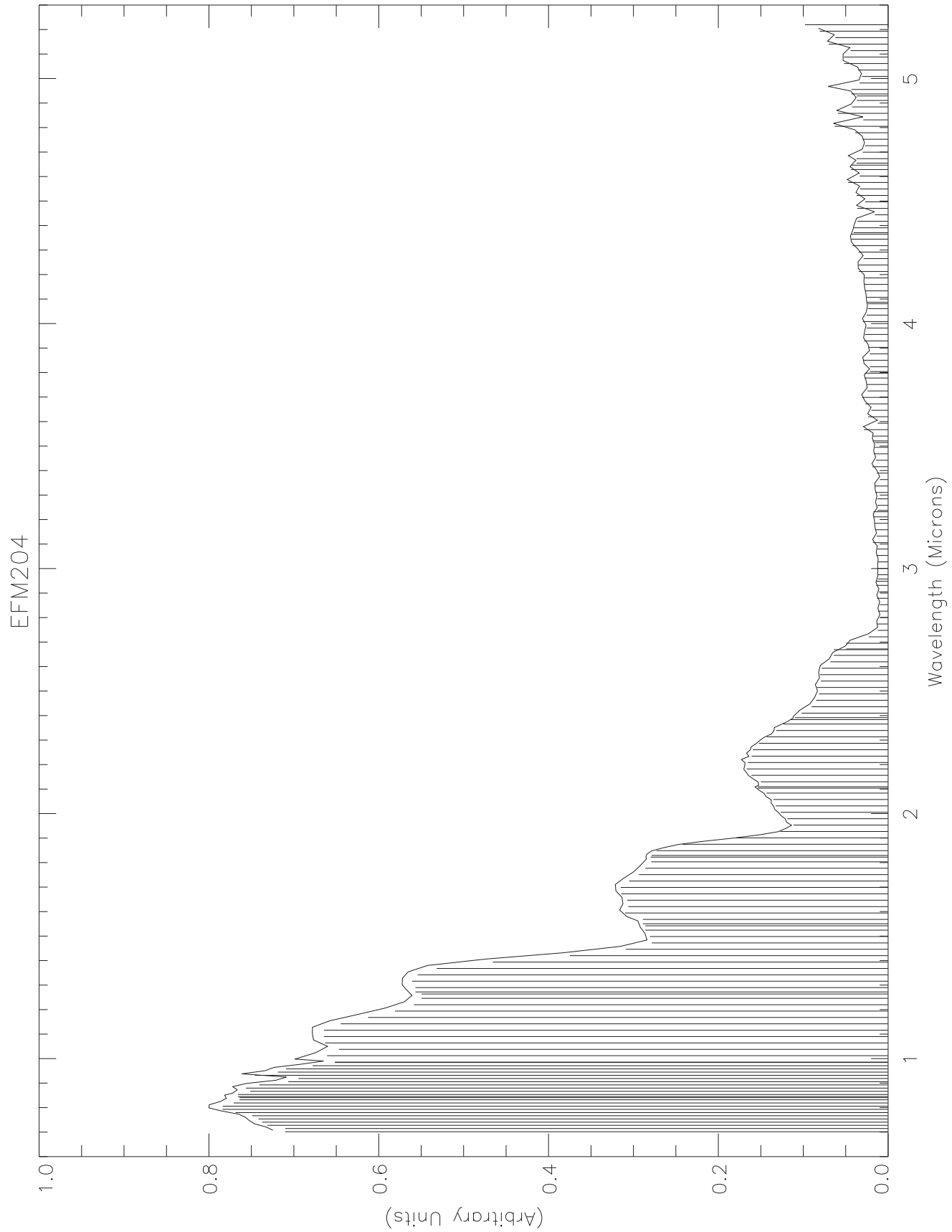
Chapter 6 - Edit Tables

Contents

Introduction to Chapter 6

NIMS Edit Table Plots

This chapter contains plots of the NIMS Edit Tables used in J0. 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.


EFM204
(Arbitrary Units)
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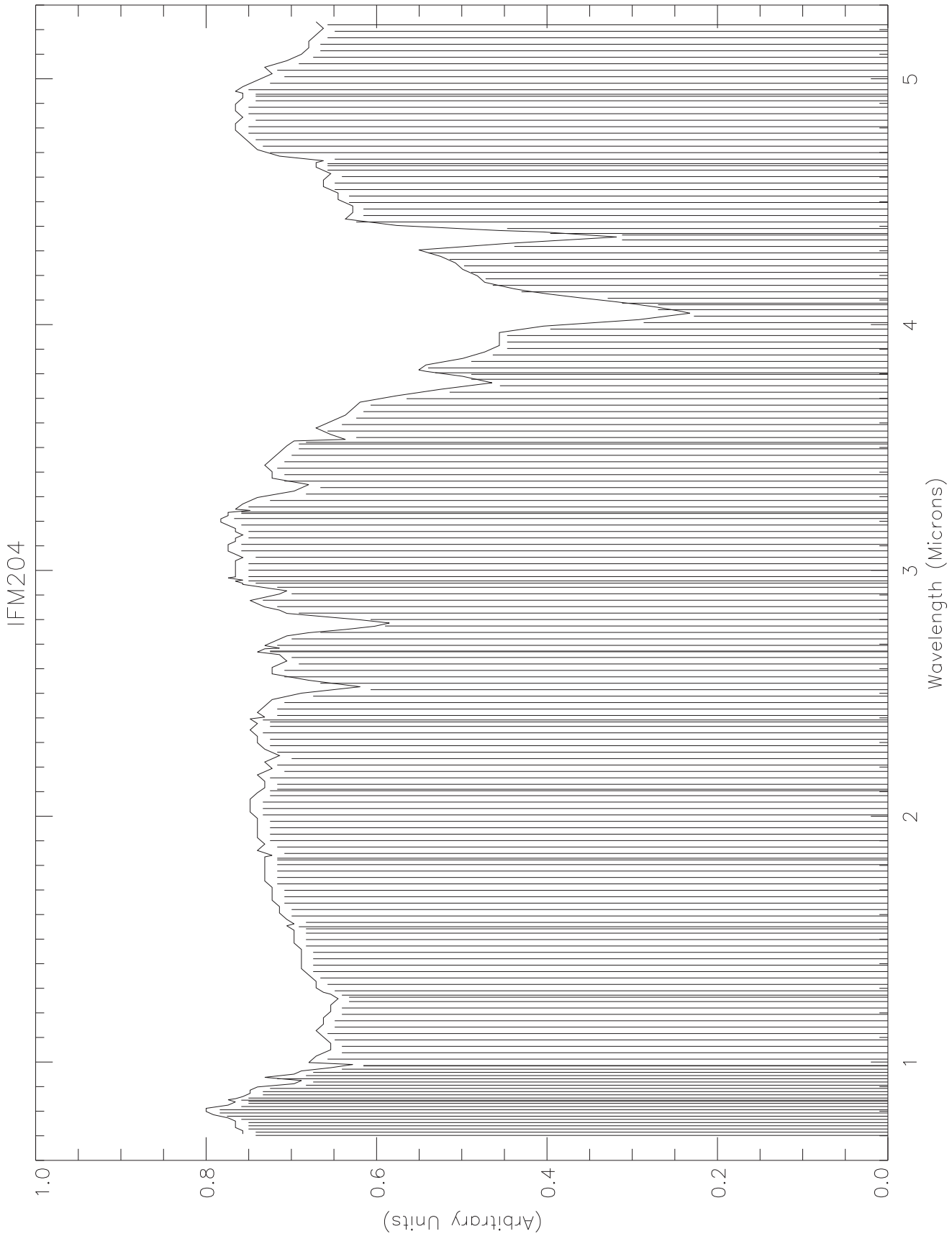
0.6
0.4
0.2
0.0
1
2
3
4
5
Wavelength (Microns)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0.6
0.4
0.2
0.0
(Arbitrary Units)
1
2
3
4
5
Wavelength (Microns)


ILM408
(Arbitrary Units)
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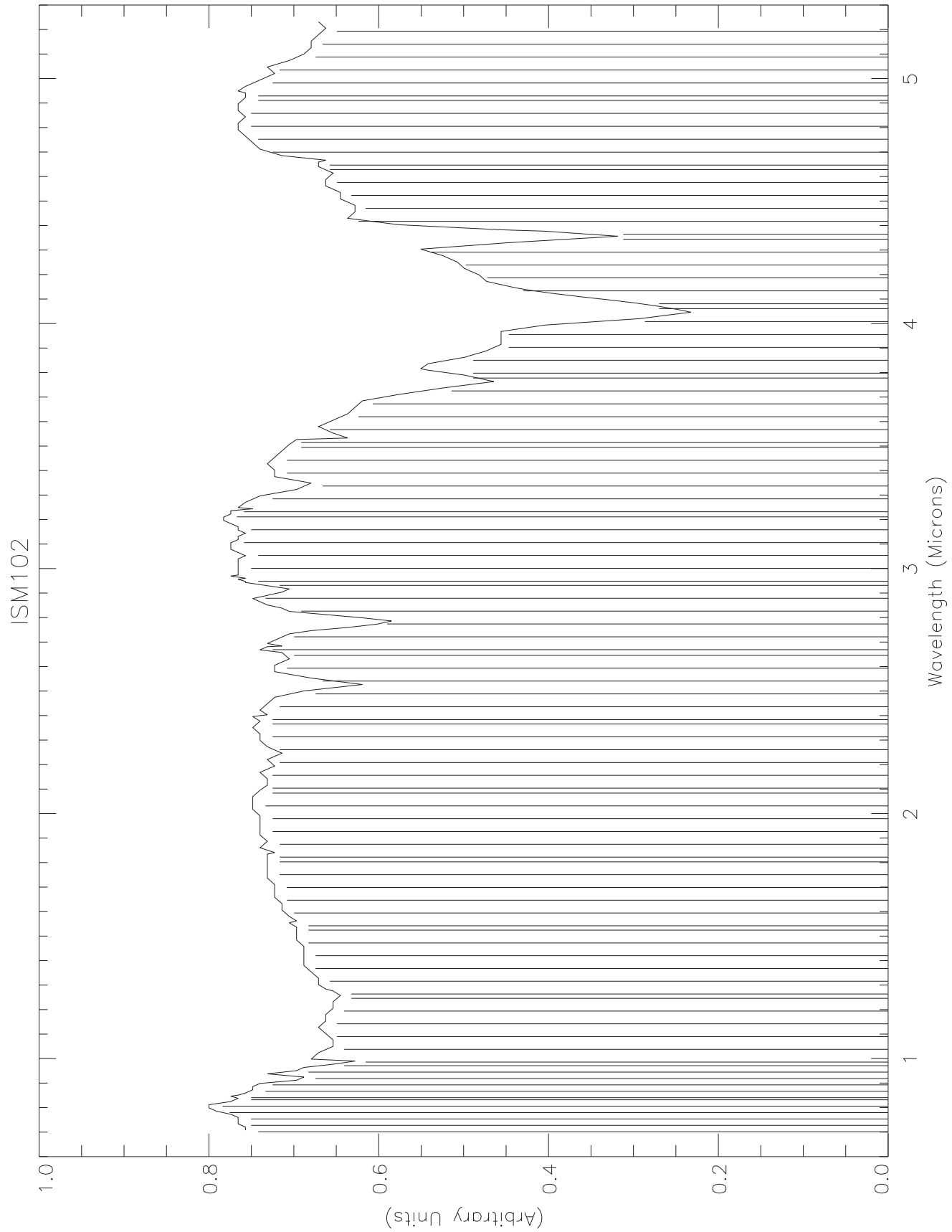
0.4
0.2
0.0
1
2
3
4
5
Wavelength (Microns)


ISM102
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0.4
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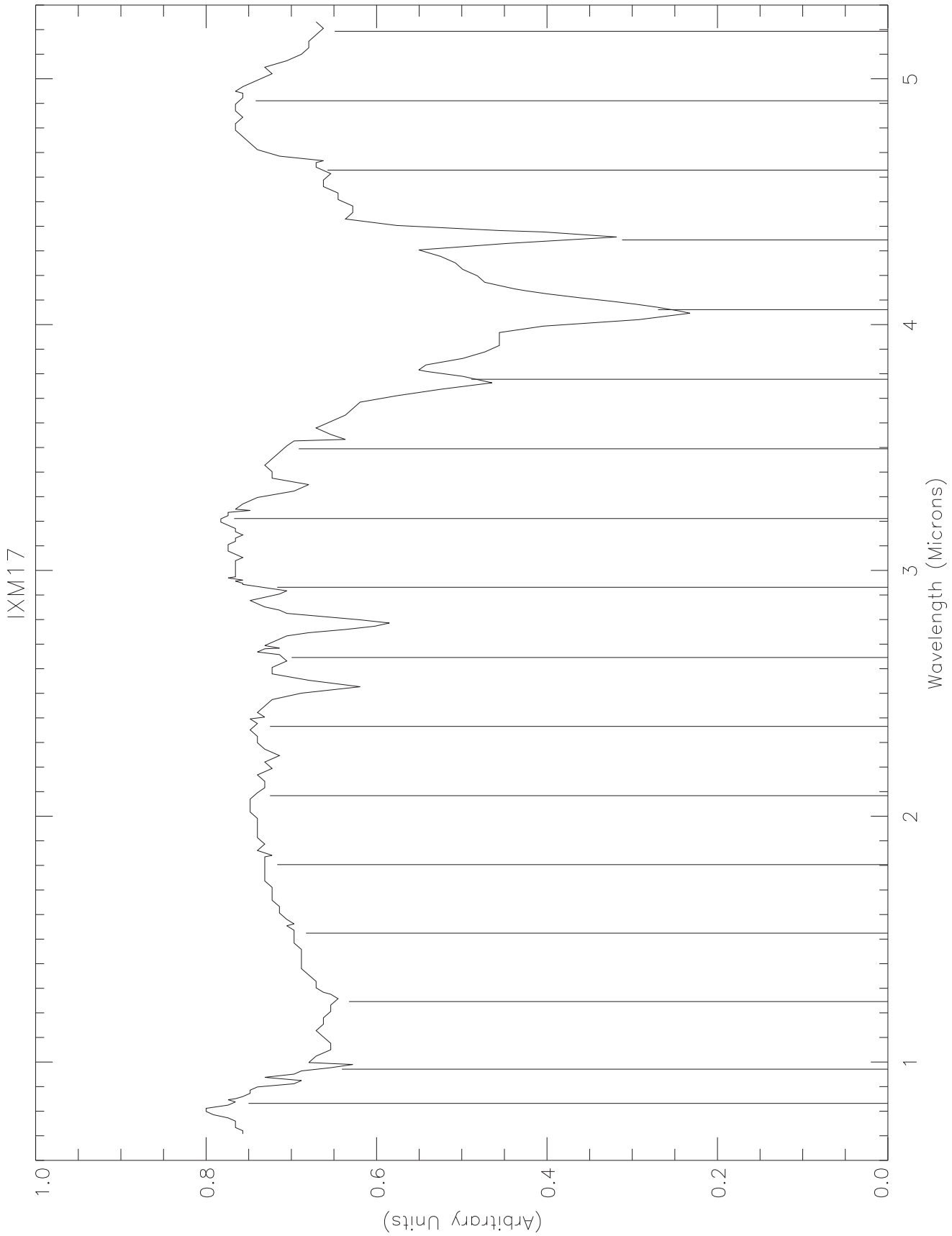
1
2
3
4
5
Wavelength (Microns)


IXM17
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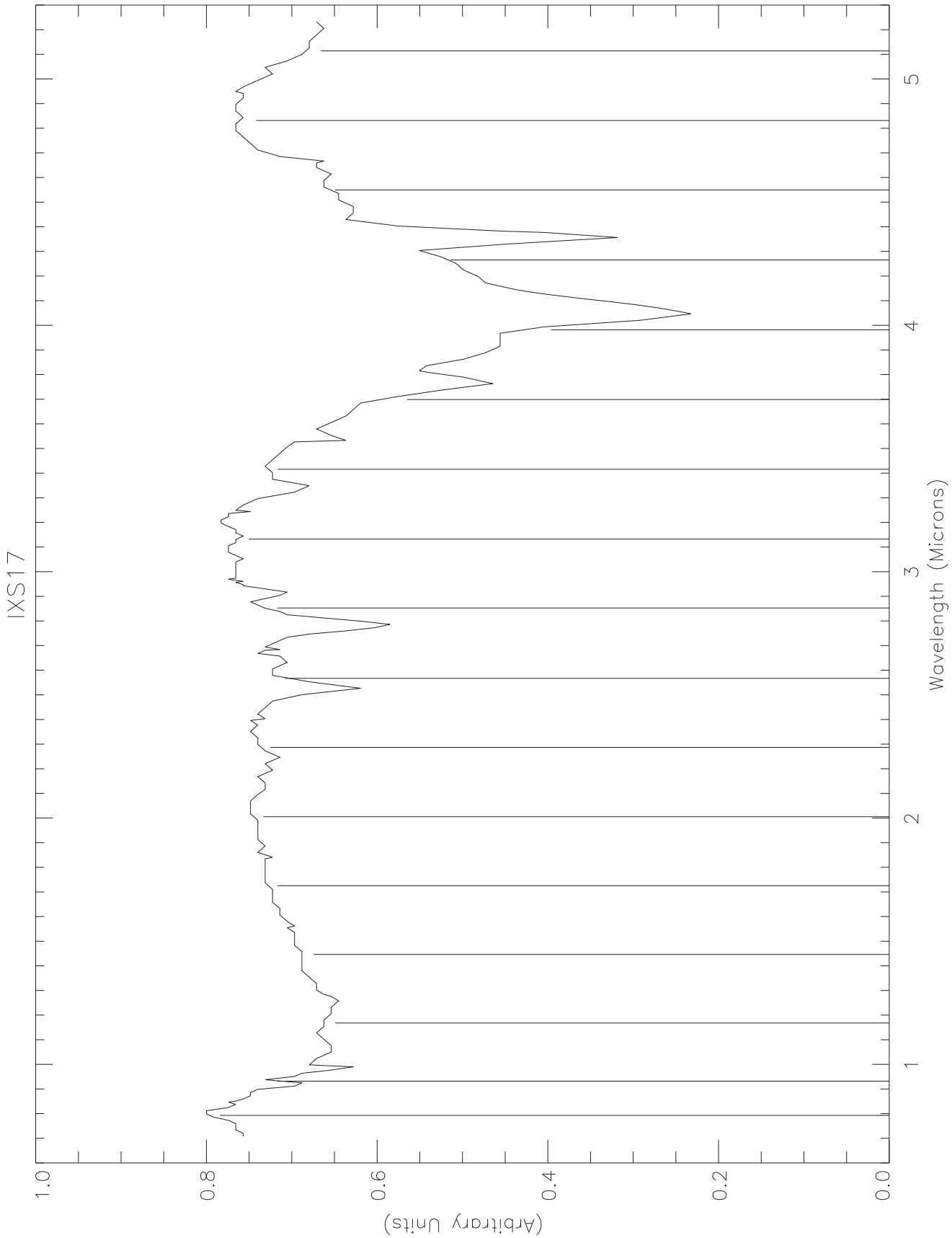
0.4
0.2
0.0
1
2
3
4
5
Wavelength (Microns)


IXS17
(Arbitrary Units)
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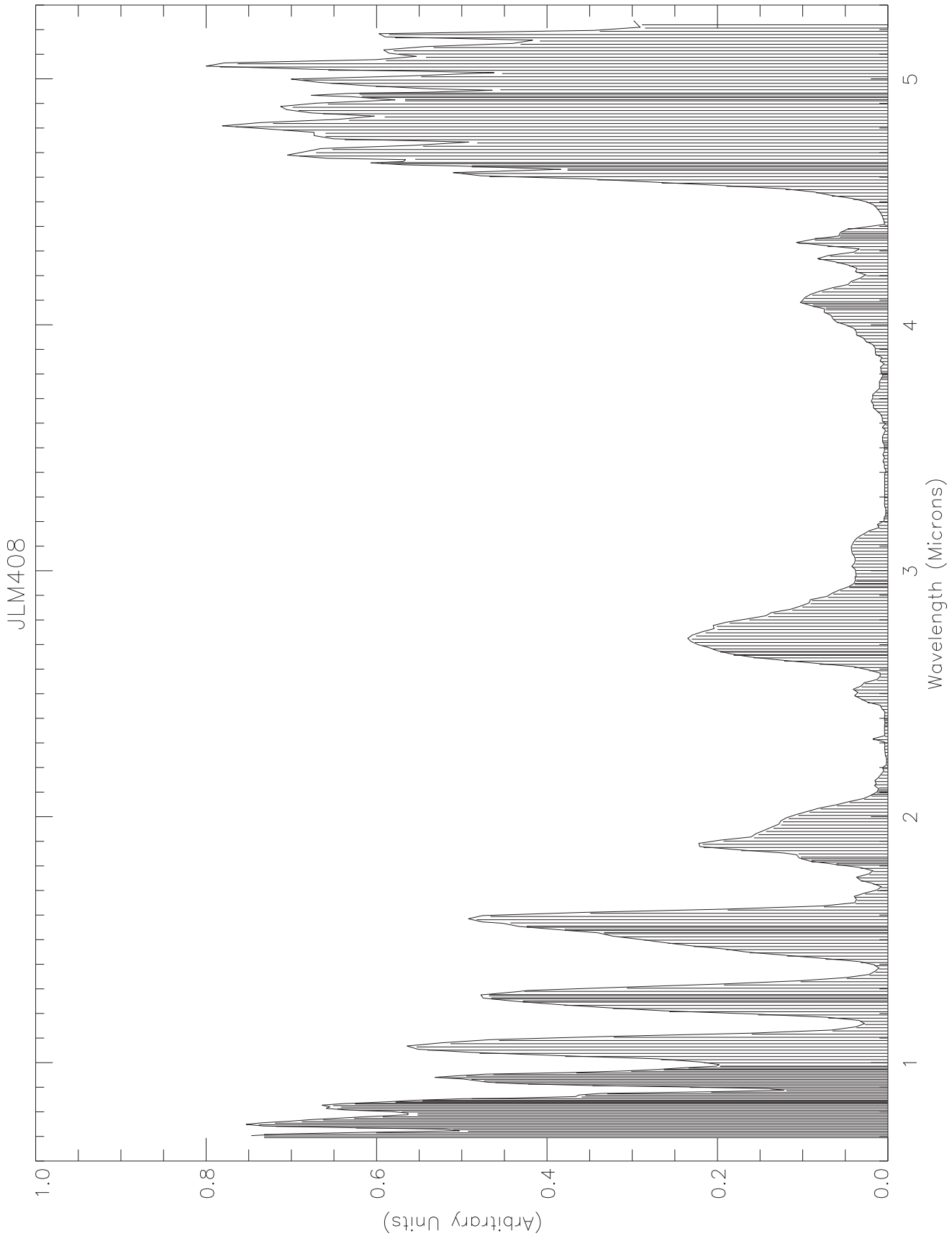
0.4
0.2
0.0
1
2
3
4
5
Wavelength (Microns)


JLM408
(Arbitrary Units)
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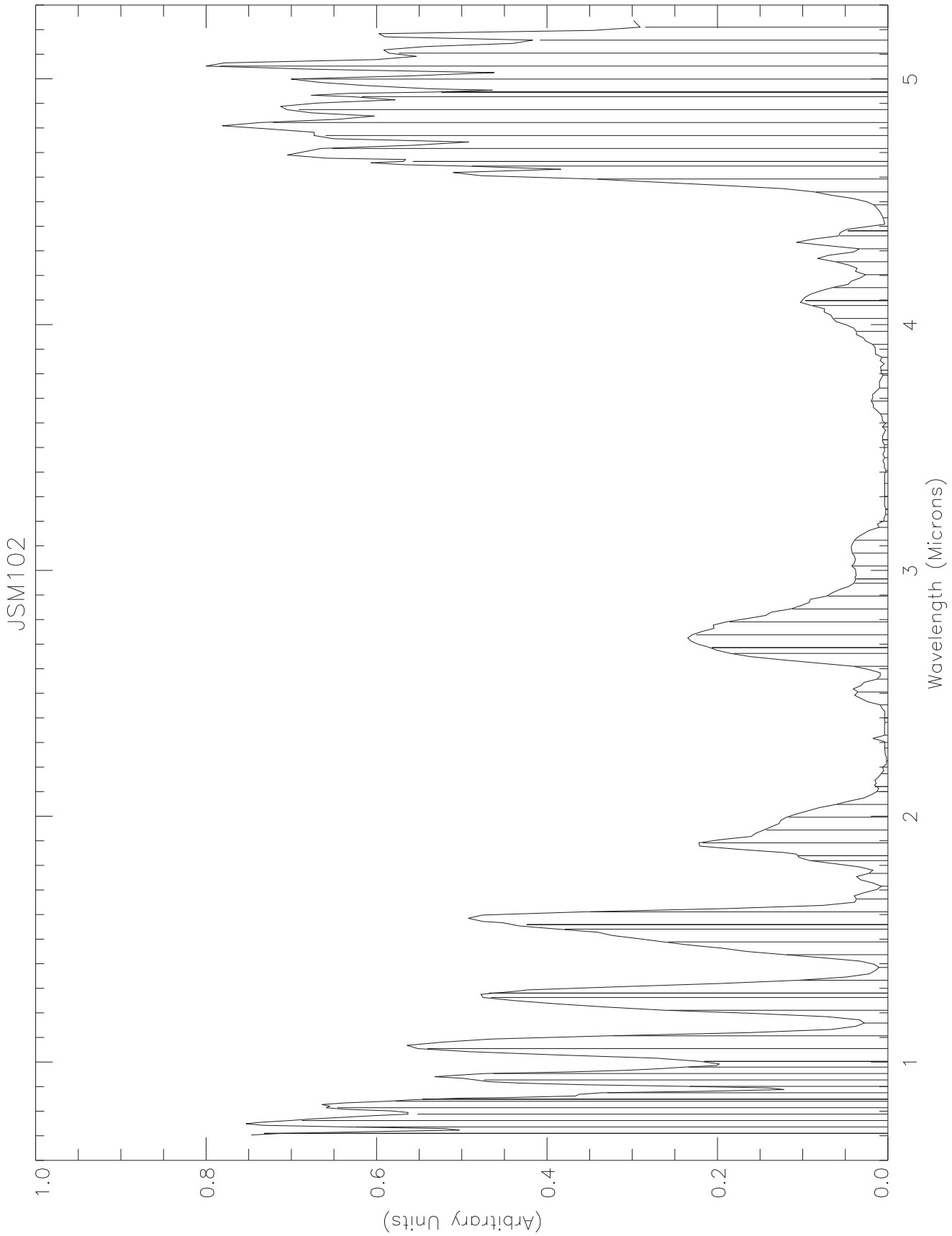
0.2
0.4
0.6
0.8
1.0
1
2
3
4
5
Wavelength (Microns)


JSM102
(Arbitrary Units)
1.0
0.8
0.6
0.4
0.2
0.0
1
2
3
4
5
Wavelength (Microns)

Chapter 7 - Data Return

Contents

Introduction to Chapter 7

This chapter is a report on the NIMS data return for the J0 orbit. Due to problems with the spacecraft tape recorder, all remote sensing observations were removed from the J0 sequence. No NIMS data were returned for J0.