NIMS GUIDE TO THE E17 ORBIT

Original: September 1998

Revised: May 2000

E17 Encounter starts 09/25/98, **E17 Playback starts 09/28/98**

VERSION DATE: 000501

Foreword to the Revised Edition

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

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

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

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

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

Acknowledgements

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

Foreword

This document serves as a guide to the E17 Orbit for the NIMS Team. The aim of this guide is to provide detailed information on the various NIMS E17 observations and calibrations. Also included in this document is background information on the E17 orbit. This guide was produced before the start of the E17 orbit. After analysis of the NIMS E17 data is complete, it will be revised and corrected. A brief overview of the guide is given below. Please refer to the beginning of each chapter for a detailed list of contents.

Chapter 1 gives a brief introduction to the E17 orbit. Chapter 2 gives an overview of the E17 orbit and summarizes the NIMS science objectives for the E17 orbit using tables, spreadsheets and timelines. Chapter 3 contains diagrams of various aspects of spacecraft geometry for the E17 orbit. Chapter 4 summarizes the NIMS E17 observations in terms of a comprehensive sequence summary and a NIMS Observation Table (Obstab). Chapter 5 is a collection of the Detailed Observation Designs made up of OAPEL forms and POINTER plots. Chapter 6 contains plots of the NIMS wavelength edit tables used during the E17 orbit.

For more information on the E17 orbit, please refer to the Galileo Orbit Planning guide and the Galileo Orbit Activity Plan for the E17 Orbit. Both of these documents are produced by the Galileo Project.

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

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Chapter 1 - Introduction

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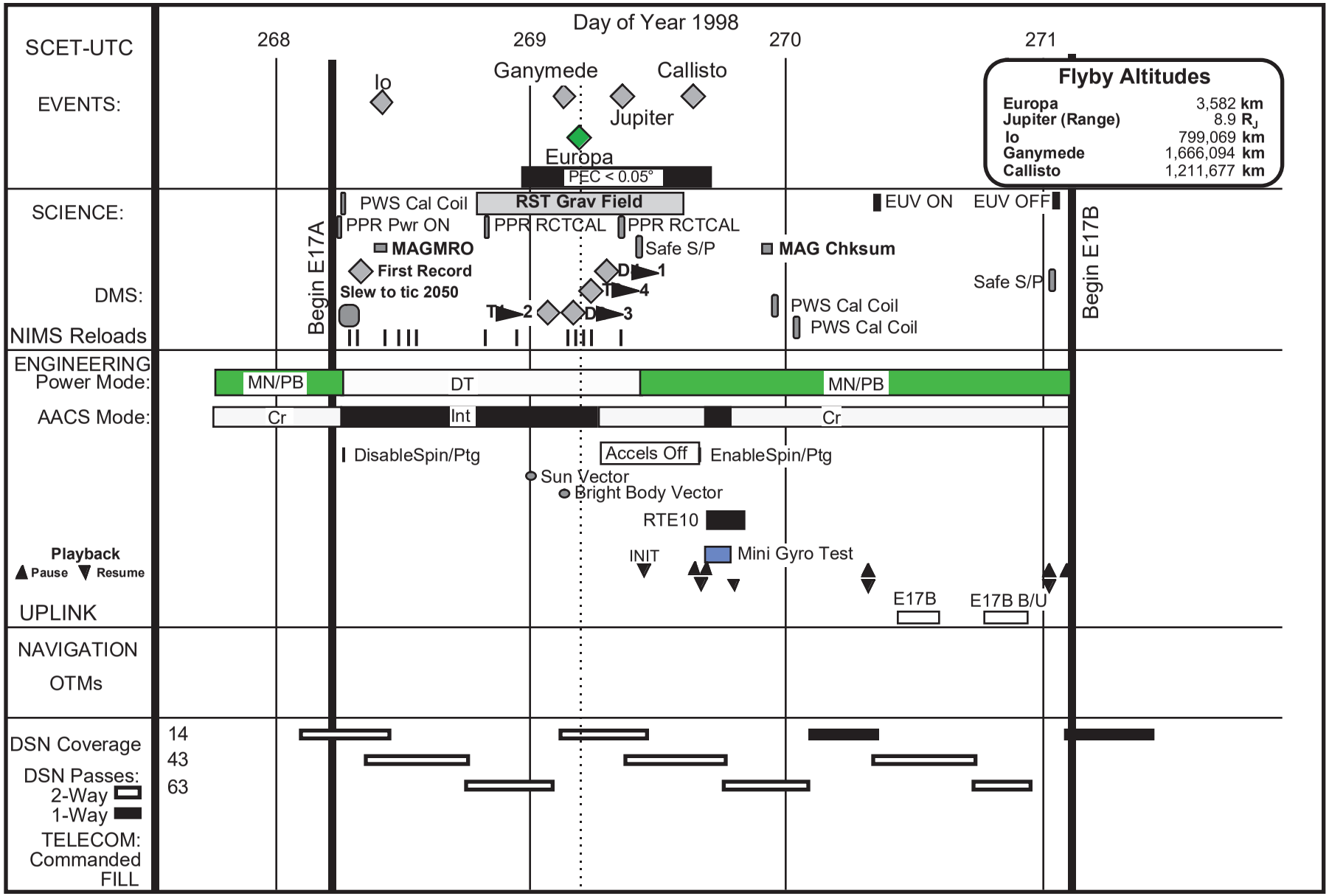
Introduction

This E17 orbit is the seventeenth of twenty-five orbits in Galileo's Tour of the Jovian system and the sixth orbit in the Galileo Europa Mission (GEM). This orbit has a targetted satellite flyby of Europa. NIMS will make observations of Jupiter in this orbit.

There are 13 autonomous reloads of the NIMS RAM code from CDS planned during the E17A encounter period, one just before each science observation. These reloads are in response to the on-going flight-anomalies where the NIMS RAM code takes some bit hits and halts the instrument during when the spacecraft is close to Jupiter. NIMS personnel will monitior the NIMS engineering telemetry data on a regular schedule to track the instrument's status.

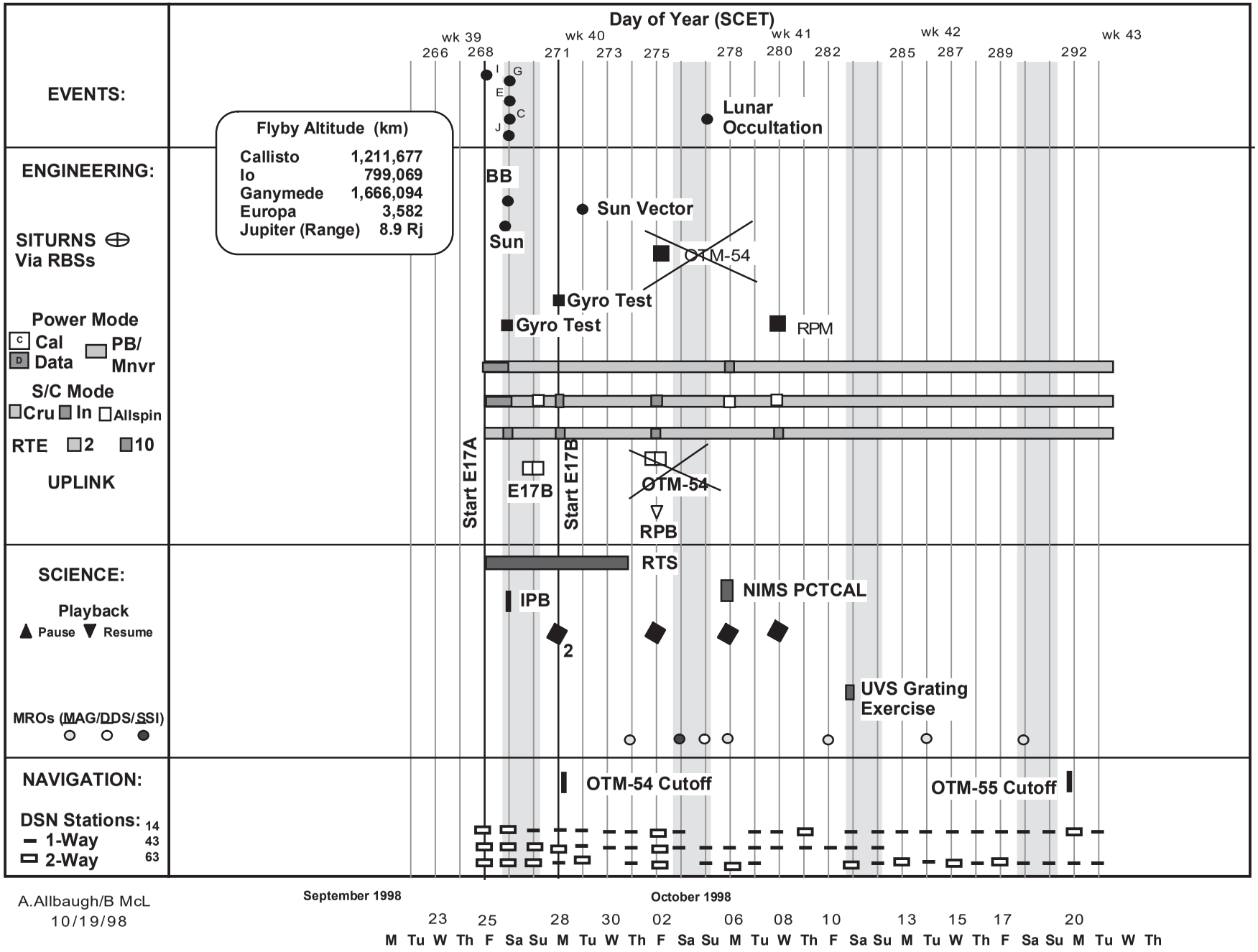
The E17 orbit is divided into 2 sequence loads: one Encounter Load (E17A) and one Orbital Cruise Load (E17B). The E17A load begins on D268 (09/25/98) and ends on D271 (09/28/98). This load contains the flybys of Jupiter and Europa. The Cruise Load E17B runs from D271 to D325. Playback of the recorded data takes place during the Cruise phase, E17B. A high-level overview timeline of the E17 orbit can be found on the following three pages.

E17A Sequence Overview



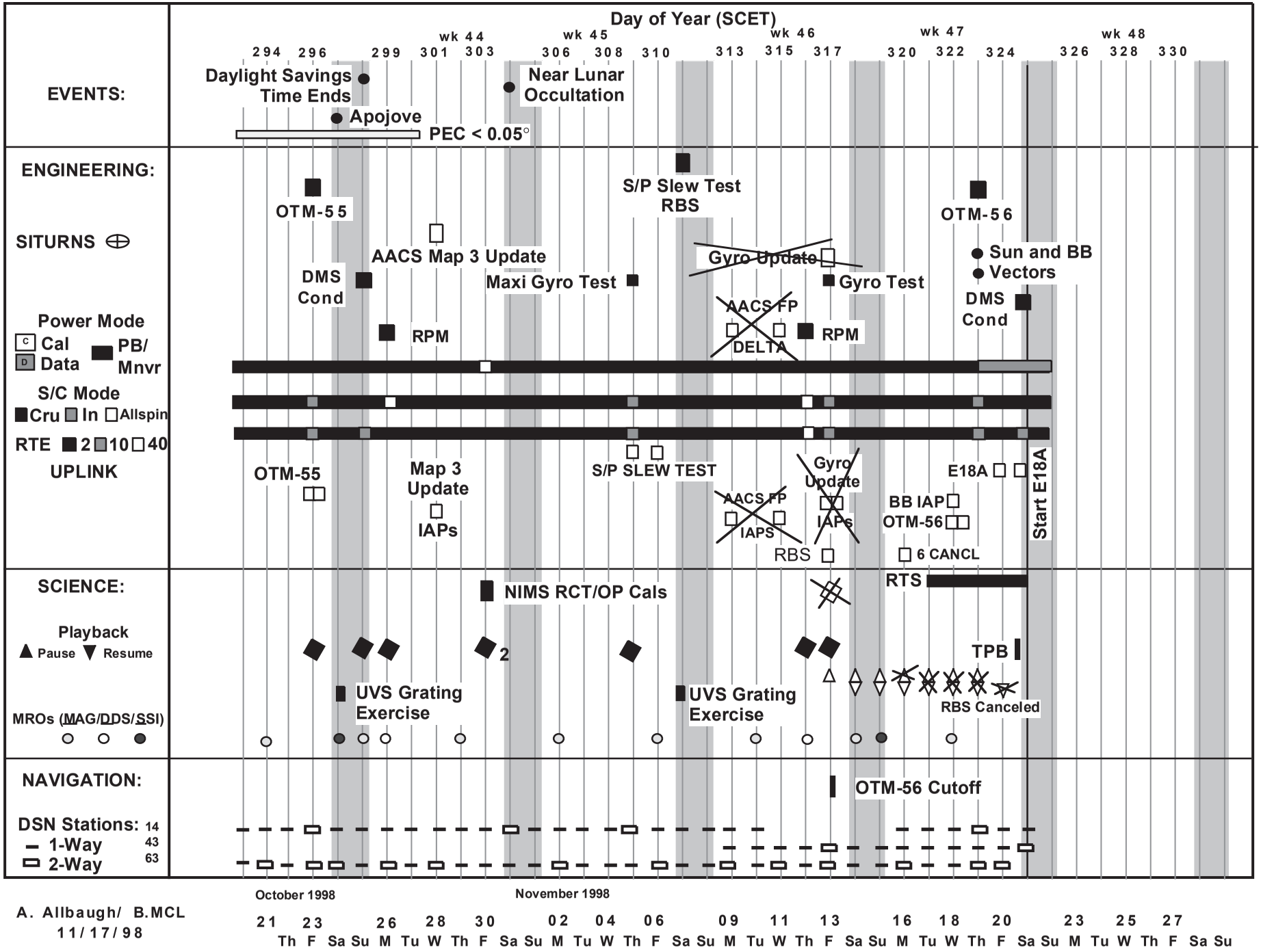
BMcL/SST
9/11/98

E17 Overview (Part 1)



A.Allbaugh/B McL
10/19/98

E17 Overview (Part 2)



A. Allbaugh/ B.MCL
11/17/98

Introduction

The following table lists the major events during E17, including NIMS Real Time observations, in UTC.

09/25/98	98-268/04:00:00	E17 Encounter Start
09/25/98	98-268/06:26:00	NIMS RAM Reload 01
09/25/98	98-268/06:32:00	NIMS R/T Jupiter 01
09/25/98	98-268/06:48:00	NIMS RAM Reload 02
09/25/98	98-268/10:32:00	NIMS RAM Reload 03
09/25/98	98-268/11:50:00	NIMS RAM Reload 04
09/25/98	98-268/12:10:00	NIMS RAM Reload 05
09/25/98	98-268/12:16:00	NIMS R/T Jupiter 02
09/25/98	98-268/12:27:00	NIMS RAM Reload 06
09/25/98	98-268/14:18:00	NIMS RAM Reload 07
09/25/98	98-268/14:24:00	NIMS R/T Jupiter 03
09/25/98	98-268/22:49:00	NIMS RAM Reload 08
09/26/98	98-269/03:04:00	NIMS RAM Reload 09
09/26/98	98-269/03:51:10	E17 - Europa Closest Approach
09/26/98	98-269/03:52:00	NIMS RAM Reload 10
09/26/98	98-269/04:17:00	NIMS RAM Reload 11
09/26/98	98-269/04:42:00	NIMS RAM Reload 12
09/26/98	98-269/08:26:11	PJ-17 - Jupiter Closest Approach
09/26/98	98-269/09:07:00	NIMS RAM Reload 13
09/28/98	98-271/02:00:00	Start E17 Playback
10/05/98	98-278/21:28:00	NIMS R/T PCT CAL
10/30/98	98-303/18:34:00	NIMS R/T RCT CAL
11/20/98	98-324/23:15:00	End E16 Playback

Chapter 2 - Orbit Overview

Contents

Introduction to Chapter 2

This chapter gives an overview of the NIMS observations in the E17 Orbit.

The text on page 3 summarizes the NIMS science objectives for E17. The NIMS calibrations are discussed on page 3. Early data return and E17 playback are also discussed on page 3.

The table on page 4 is a time-ordered listing of the NIMS Oapels for E17.

The plot on page 5 shows the geometry of the NIMS E17 observations using a north trajectory pole view projection. The plot on page 6 shows the NIMS Europa regional observations along the trajectory of the E17 Europa flyby. The plot on page 7 shows the geometry of the NIMS E17 calibrations.

The table on page 8 lists various NIMS E17 observing parameters: target latitude/longitude, range, cone angle, incidence angle (light), emission angle (view) and phase angle.

The spreadsheet on page 9 summarizes the various inputs for the NIMS E17 Observations. The spreadsheet on pages 10 and 11 summarizes the resource usage for the NIMS E17 observations.

The timeline on page 12 shows the placement of the E17 observations for all intruments during the E17 Encounter Period.

The tapemap on page 13 shows the placement of the E17 observations on the spacecraft's tape recorder.

The timeline on pages 14 through 22 shows the preliminary E17 playback schedule.

The NIMS E17 mosaic designs are summarized on page 23 and 24 in time-order.

NIMS E17 SCIENCE OVERVIEW

Jupiter Science

There are six Jupiter observations in E17. Three are realtime and three are recorded. One of the realtime observations looks along the equator and the other two look at the daylit middle north latitude region. The three recorded observations look at the white oval region in the southern hemisphere near -30 latitude to investigate the newly created merged white ovals.

Io Science

Io was not observed in E17.

Europa Science

There are seven Europa observations planned for E17: Four regional observations, two half-disk global observation and one distant global observation. ENSUCOMP01 looks at 7N 225W, a region with strong non-ice material spectral features. ENSUCOMP02 is a long spectrometer mode observation that looks for non-water-ice material near -63S 120W. ENSUCOMP03 is a single swath in the leading-side southern hemisphere south of -60 latitude. ENSUCOMP04 looks for diffuse dark matierial near -30S 90W. ENGLOBAL01 covers pole to pole 120 to 220 degrees West longitude. ENGLOBAL02 covers pole to pole 70 to 160 degrees West longitude. ENEUR20H01 is a distant observation of Europa with two identical LPU scans across the half-lit disk. The first scan in gain state 4 with emphasis on longer wavelenghts. The second scan in gain state 3 with emphasis on shorter wavelenghts.

Ganymede Science

Ganymede was not observed in E17.

Callisto Science

Callisto was not observed in E17.

Calibration

There are three NIMS calibration observations planned for E17: one RCT cal, one PCT cal and one OPCAL.

Early Data Return

There are six realtime observations in E17: Three 408 wavelength Jupiter observations (JUPRTS), one RCT calibration, one PCT calibration and one OPCAL.

E17 Playback

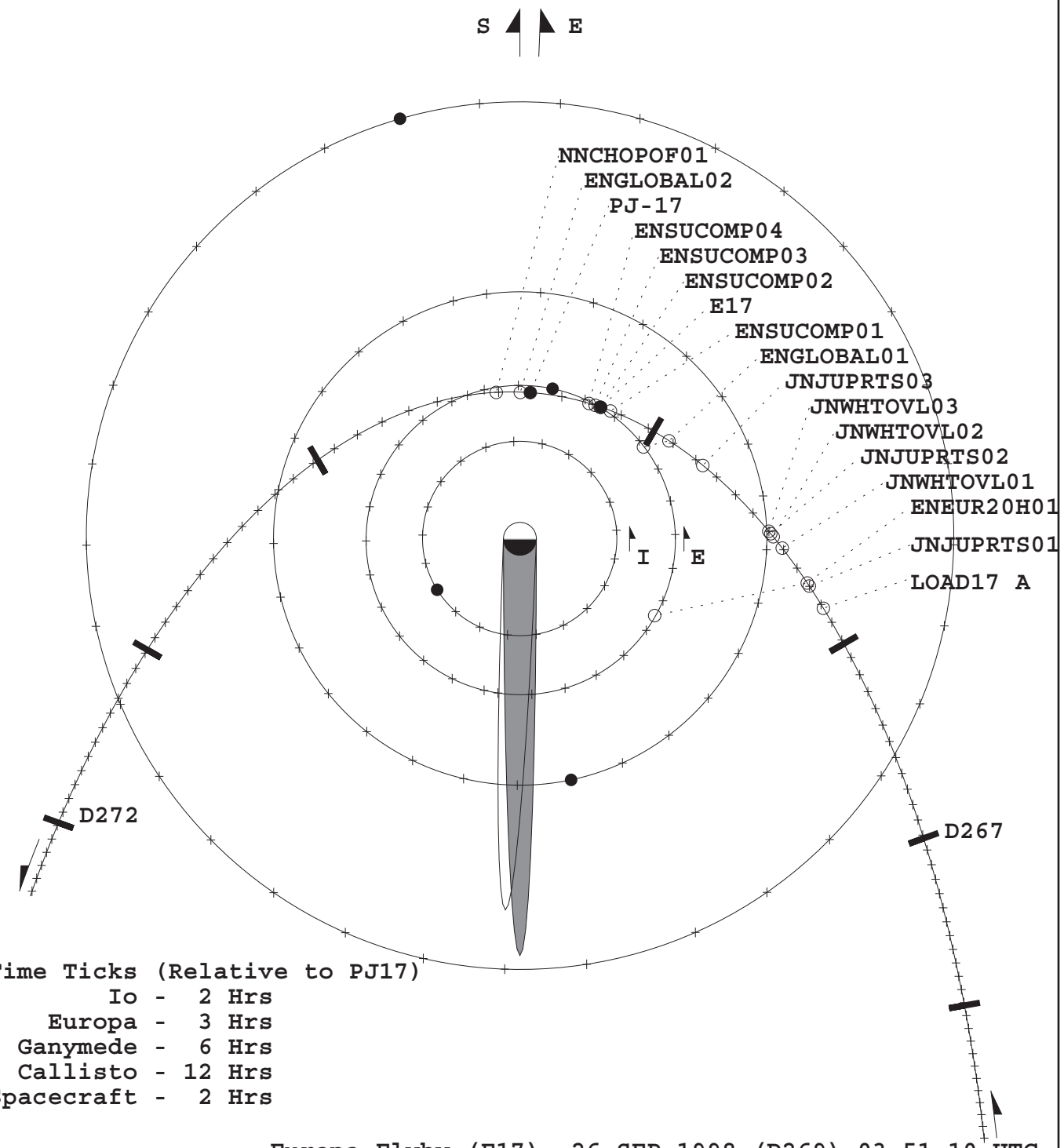
E17 playback is split into two passes through the tape.

E17 Time-Ordered Listing

OAPEL	Start (UTC)	End (UTC)	Duration
17NNJUPRTS01-	98-268/06:17:55	98-268/06:28:02	000/00:10:06
17JNJUPRTS01*	98-268/06:28:02	98-268/06:42:11	000/00:14:09
17NNEUR20H01-	98-268/06:44:12	98-268/06:48:15	000/00:04:02
17ENEUR20H01-	98-268/06:48:15	98-268/07:02:24	000/00:14:09
17NNWHTOVL01-	98-268/10:27:40	98-268/10:37:46	000/00:10:06
17JNWHTOVL01-	98-268/10:37:46	98-268/10:50:55	000/00:13:08
17NNWHTOVL02-	98-268/11:41:28	98-268/11:51:35	000/00:10:06
17JNWHTOVL02-	98-268/11:51:35	98-268/12:05:44	000/00:14:09
17NNJUPRTS02-	98-268/12:01:42	98-268/12:11:48	000/00:10:06
17JNJUPRTS02*	98-268/12:11:48	98-268/12:25:58	000/00:14:09
17NNWHTOVL03-	98-268/12:25:58	98-268/12:27:59	000/00:02:01
17JNWHTOVL03-	98-268/12:27:59	98-268/12:42:08	000/00:14:09
17NNJUPRTS03-	98-268/14:10:06	98-268/14:20:13	000/00:10:06
17JNJUPRTS03*	98-268/14:20:13	98-268/14:35:23	000/00:15:10
17NNGLOBAL01-	98-268/22:36:40	98-268/22:46:47	000/00:10:06
17ENGLOBAL01-	98-268/22:46:47	98-268/23:37:20	000/00:50:33
17NNSUCOMP01-	98-269/03:01:35	98-269/03:11:42	000/00:10:06
17ENSUCOMP01-	98-269/03:11:42	98-269/03:35:58	000/00:24:16
17NNSUCOMP02-	98-269/03:44:03	98-269/03:54:10	000/00:10:06
17ENSUCOMP02-	98-269/03:54:10	98-269/04:11:21	000/00:17:11
17NNSUCOMP03-	98-269/04:04:16	98-269/04:14:23	000/00:10:06
17ENSUCOMP03-	98-269/04:14:23	98-269/04:37:38	000/00:23:15
17NNSUCOMP04-	98-269/04:37:38	98-269/04:39:40	000/00:02:01
17ENSUCOMP04-	98-269/04:39:40	98-269/04:50:47	000/00:11:07
17NNGLOBAL02-	98-269/08:54:28	98-269/09:04:34	000/00:10:06
17ENGLOBAL02-	98-269/09:04:34	98-269/09:34:54	000/00:30:20
17NNCHOPOF01-	98-269/10:35:34	98-269/10:45:41	000/00:10:06
17NNPCTRLT01-	98-278/15:00:24	98-278/22:50:34	000/07:50:10
17NNRCTRLT01-	98-303/06:00:03	98-303/19:15:47	000/13:15:44

NIMS E17 OBSERVATIONS

Bold - Returned
Gray - Not Returned



Time Ticks (Relative to PJ17)

Io	2 Hrs
Europa	3 Hrs
Ganymede	6 Hrs
Callisto	12 Hrs
Spacecraft	2 Hrs

Europa Flyby (E17): 26-SEP-1998 (D269) 03:51:10 UTC
Perijove (PJ17): 26-SEP-1998 (D269) 08:26:11 UTC

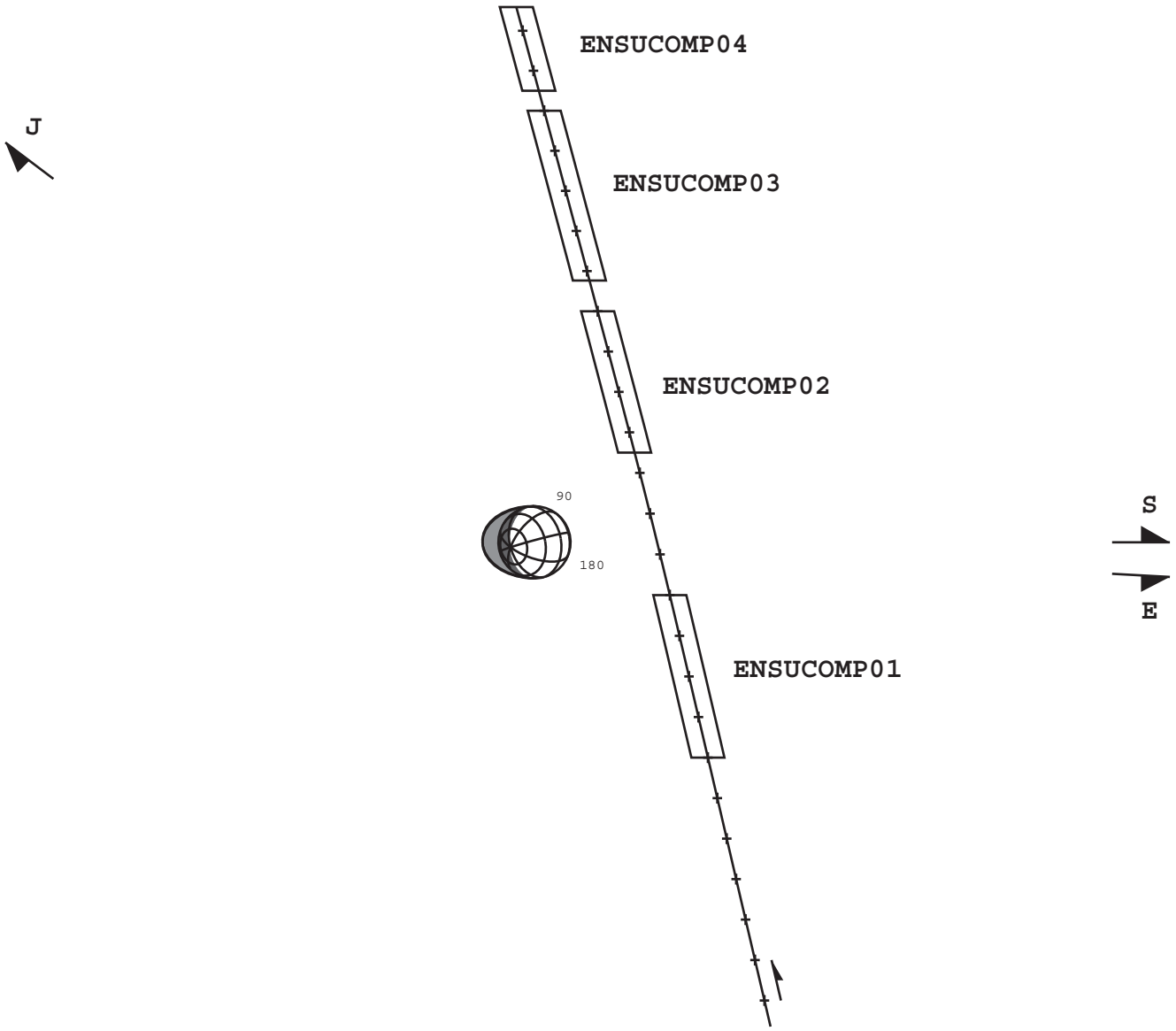
E17 North Trajectory Pole View

NIMS - FEL - 12/06/99

NIMS E17 EUROPA FLYBY OBSERVATIONS

Europa Flyby (E17): 26-SEP-1998 (D269) 03:51:10 UTC

Time Ticks (Relative to E17)
Spacecraft - 5 Minutes

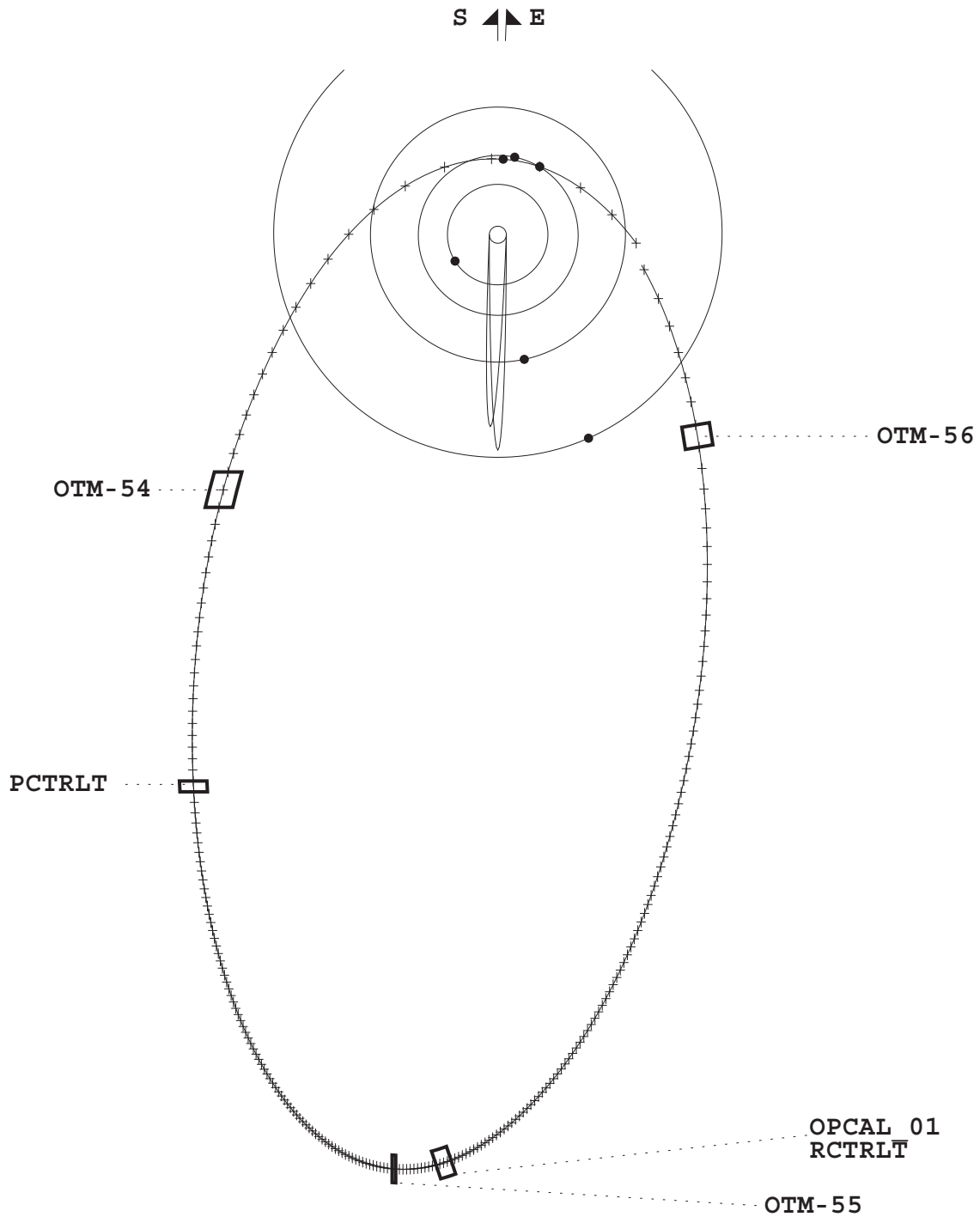


E17 North Trajectory Pole View, +/- 1 Hour

NIMS E17 CRUISE CALIBRATIONS

Europa Flyby (E17): 26-SEP-1998 (D269) 03:51:10 UTC
Perijove (PJ17): 26-SEP-1998 (D269) 08:26:11 UTC
Apojove (AJ17): 24-OCT-1998 (D297) 16:00:00 UTC

Time Ticks (Relative to E17)
Spacecraft - 6 Hours



E17 North Trajectory Pole View, Perijove to Perijove

NIMS E17 OBSERVING GEOMETRY

OAPEL	Latitude (deg)	Longitude (deg)	Range (km)	Cone (deg)	Light (deg)	View (deg)	Phase (deg)
17JNJUPRTS01	+10 to +40	107 to 131	1220K	84	57 to 73	32 to 61	100
17ENEUR20H01	-90 to +90	60 to 230	666K	107	6 to 167	0 to 90	77
17JNWHTOVL01	-35 to -25	334 to 23	1106K	95	119 to 152	44 to 90	89
17JNWHTOVL02	-35 to -25	344 to 08	1030K	96	89 to 115	31 to 43	89
17JNJUPRTS02	-05 to +05	313 to 348	1020K	95	51 to 80	9 to 40	90
17JNWHTOVL03	-35 to -25	343 to 06	1015K	96	70 to 95	31 to 38	88
17JNJUPRTS03	+25 to +45	38 to 55	962K	100	66 to 74	32 to 54	85
17ENGLOBAL01	-90 to +90	120 to 230	100K	107	11 to 97	10 to 90	77
17ENSUCOMP01	+06 to +15	226 to 233	6.3 to 11.6K	122 to 132	76 to 84	37 to 65	50 to 62
17ENSUCOMP02	+63	113 to 128	4.2 to 8.6K	97 to 126	67 to 72	35 to 58	50 to 79
17ENSUCOMP03	-70 to -60	69 to 151	10 to 17K	87 to 92	62 to 90	61 to 76	83 to 88
17ENSUCOMP04	-40 to -30	73 to 91	17 to 21K	83 to 86	70 to 83	30 to 39	89 to 92
17ENGLOBAL02	-90 to +90	74 to 164	116K	75	18 to 97	15 to 90	101

E17 NIMS INPUTS

Activity ID	Observation Title	NIMS Edit Table	NIMS PB Table	Mode	Gain	Grating Start	Grating Offset	Record Format	PSID
17NNJUPRTS01-	NIMS Software Reload								
17JNJUPRTS01*	Jupiter Realtime Observation	E17JLM408/MB	R/T	LM	2	0	4	R/T	DA
17NNEUR20H01-	NIMS Software Reload								
17ENEUR20H01	Europa 20 Hour Map	E17B_ELM240T	E17B_ELM240T	LM	4	0	4	LPU	EA
17ENEUR20H01	Europa 20 Hour Map	E17B_ELM240V	E17B_ELM168V	LM	3	0	4	LPU	EA
17NNWHTOVL01-	NIMS Software Reload								
17JNWHTOVL01-	Jupiter White Oval	E17JSB253B	E17JSB253B	LM	4	0	4	LPU	EB
17NNWHTOVL02-	NIMS Software Reload								
17JNWHTOVL02-	Jupiter White Oval	E17JSB253B	E17JSB253B	LM	4	0	4	LPU	EC
17NNJUPRTS02-	NIMS Software Reload								
17JNJUPRTS02*	Jupiter Realtime Observation	E17JLM408/MB	R/T	LM	2	0	4	R/T	DB
17NNWHTOVL03-	NIMS Software Reload								
17JNWHTOVL03-	Jupiter White Oval	E17JSB253B	E17JSB253B	LM	2	0	4	LPU	ED
17NNJUPRTS03-	NIMS Software Reload								
17JNJUPRTS03*	Jupiter Realtime Observation	E17JLM408/MB	R/T	LM	2	0	4	R/T	DC
17NNGLOBAL01-	NIMS Software Reload								
17ENGLOBAL01-	Europa Global Observation	E17ELM442	E17B_ELM228C_1	LM	3	0	4	MPW	DD
17NNSUCOMP01-	NIMS Software Reload								
17ENSUCOMP01-	Europa Surface Composition	E17ELM442	E17ELM360	LM	4	0	4	MPW	DE
17NNSUCOMP02-	NIMS Software Reload								
17ENSUCOMP02-	Europa Surface Composition	E17ELM442	E17ELM360	LS	4	0	4	MPW	DF
17NNSUCOMP03-	NIMS Software Reload								
17ENSUCOMP03-	Europa Surface Composition	E17ELM442	E17ELM360	LM	4	0	4	MPW	DG
17NNSUCOMP04-	NIMS Software Reload								
17ENSUCOMP04-	Europa Surface Composition	E17ELM442	E17ELM360	LM	4	0	4	MPW	DH
17NNGLOBAL02-	NIMS Software Reload								
17ENGLOBAL02-	Europa Global Observation	E17ELM442	E17B_ELM228C_1	LM	4,3,4	0	4	MPW	DI
17NNCHOPOF01-	NIMS Chopper off								DN
17NNPCTRLT01-	NIMS Real-Time PCT Claibration	E17PCT252	R/T	LM	4	0	4	R/T	FB
17NNRCTRLT01-	NIMS RCT Real-Time Calibration	E17RCT252	R/T	LM	1	0	4	R/T	XE
17NNOPCAL 01-	NIMS OPCAL	E17OPCAL48	R/T	LM	4	0	4	R/T	DC

E17 RESOURCES

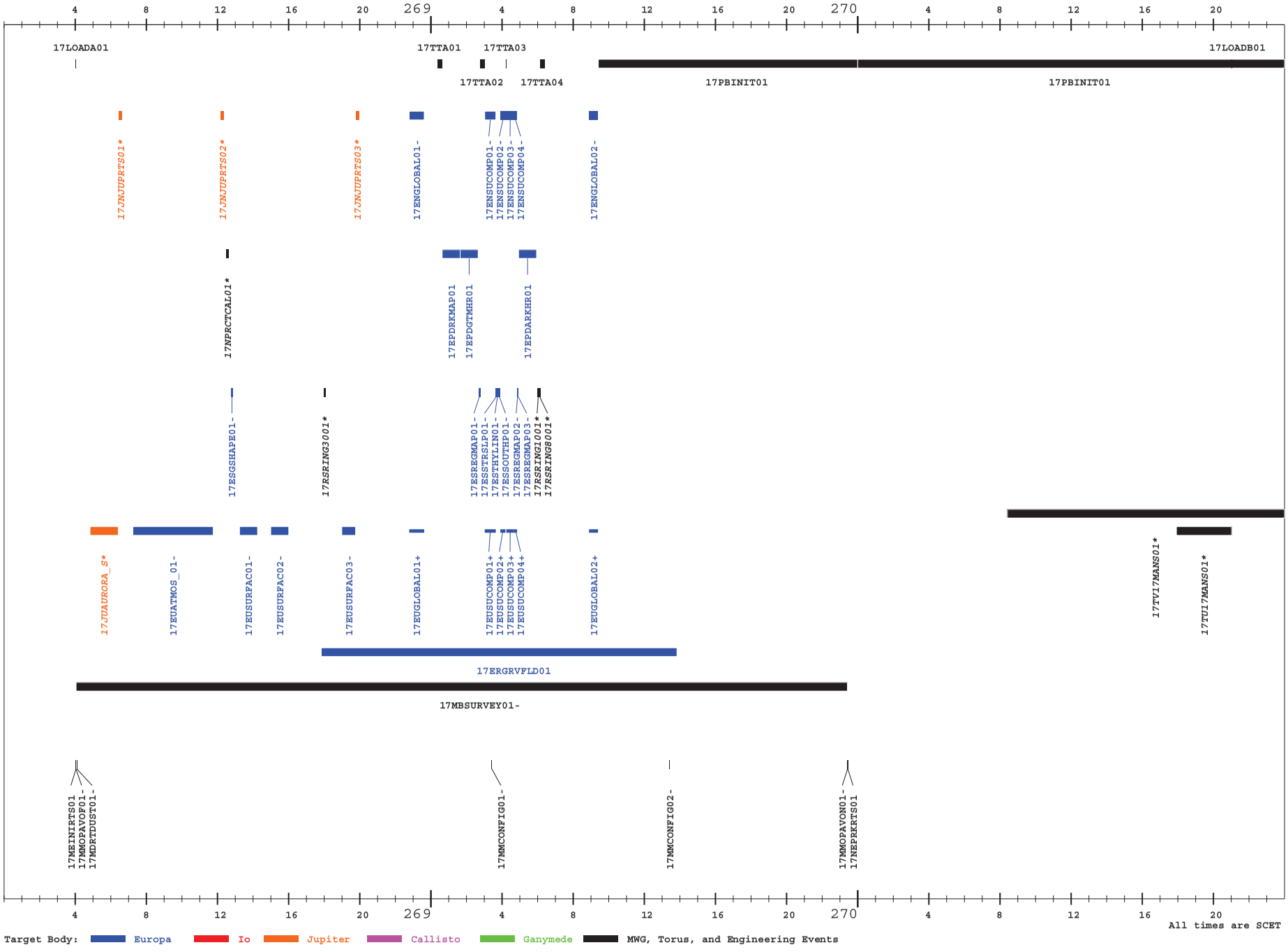
Activity ID	Mode	Record Mode	Obs. Cost (tracks)	Obs. Cost (ticks)	Number Wavelengths Returned	Obs Record (sec.)	Obs PB (sec.)	Selected Bits to Tape sBOT (MBITS)	Bits to Tape MBOT (Mbit)	Mode Cycle time (sec)
17JNJUPRTS01	LM	R/T			360					
17ENEUR20H01	LM	LPU	0.0092	53	240					
17ENEUR20H01	LM	LPU	0.0092	53	168					
17JNWHTOVL01	LM	LPU			253					
17JNWHTOVL02	LM	LPU	0.0246	143	253					
17JNJUPRTS02	LM	R/T			360					
17JNWHTOVL03	LM	LPU	0.0246	143	253					
17JNJUPRTS03	LM	R/T			360					
17ENGLOBAL01	LM	MPW	0.4077	2376	228	2700	2700	31.10	31.10	8.667
17ENSUCOMP01	LM	MPW	0.1814	1057	360	1200	1200	13.82	13.82	8.667
17ENSUCOMP02	LM	MPW	0.1543	899	360	1020	1020	11.75	11.75	8.667
17ENSUCOMP03	LM	MPW	0.1995	1163	360	1320	1320	15.21	15.21	8.667
17ENSUCOMP04	LM	MPW	0.0909	530	360	600	600	6.91	6.91	8.667
17ENGLOBAL02	LM	MPW	0.2719	1585	228	1800	1800	20.74	20.74	8.667
17NNRCTRLT01	LM	R/T								
17NNPCTRLT01	LM	R/T								
Total Resources			**1.3058**	**7609**						

E17 RESOURCES

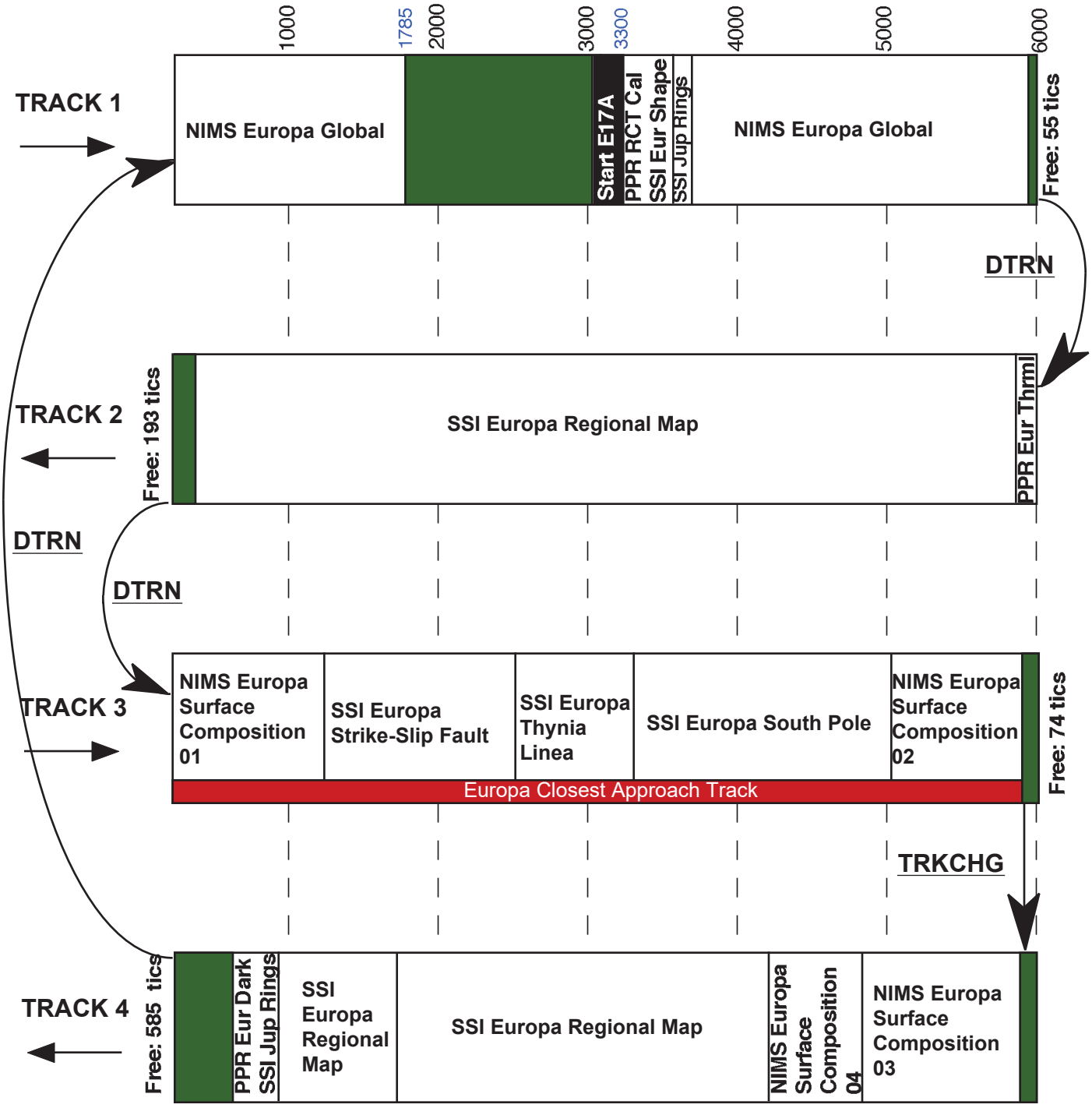
Activity ID	AACS Mbits c 2.5	Comp	Thold	RT BTG Mbits	Total BTG Mbits (w/4% overhead)	Data Reduction Factor (sBOT/BTG)	Pass
17JNJUPRTS01				0.16			
17ENEUR20H01							
17ENEUR20H01							
17JNWHTOVL01							
17JNWHTOVL02							
17JNJUPRTS02				0.16			
17JNWHTOVL03							
17JNJUPRTS03				0.16			
17ENGLOBAL01	0.16	1.5			9.8492	3.2	
17ENSUCOMP01	0.07	1.3			7.9751	1.7	
17ENSUCOMP02	0.06	1.3			6.7788	1.7	
17ENSUCOMP03	0.08	1.3			8.7726	1.7	
17ENSUCOMP04	0.03	1.3			3.9875	1.7	
17ENGLOBAL02	0.10	1.5			6.5661	3.2	
17NNRCTRLT01					0.1400		
17NNPCTRLT01					0.2000		
Total Resources					**44.2694**		
Allocation							
Over/Under							

E17 ENCOUNTER
Plot Time: 98-268/00:00:00.000 to 98-271/00:00:00.000
Date of Plot: 17-Sep-97 8:27:38

GEM OPG: E17

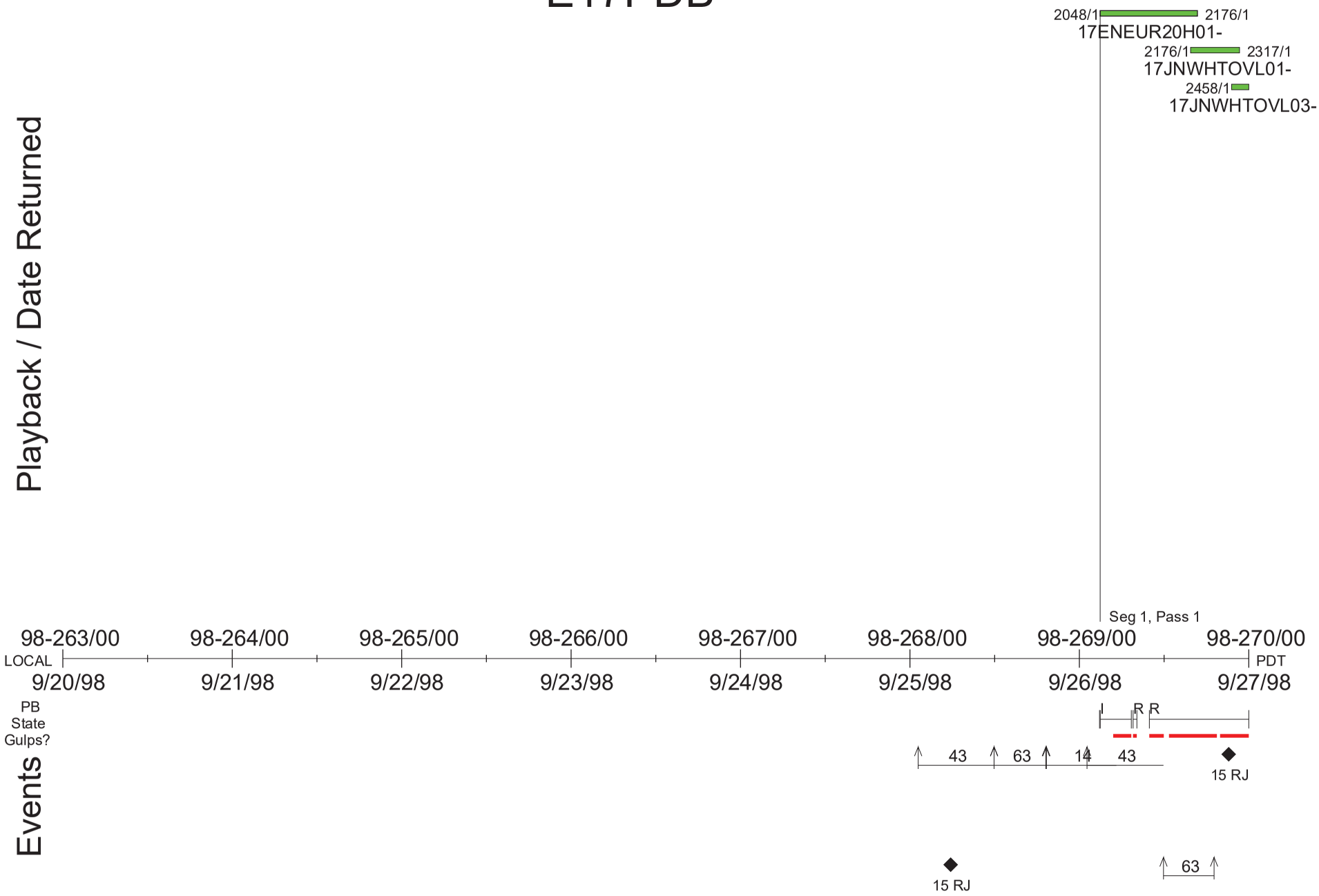


E17 HIGH-LEVEL TAPEMAP

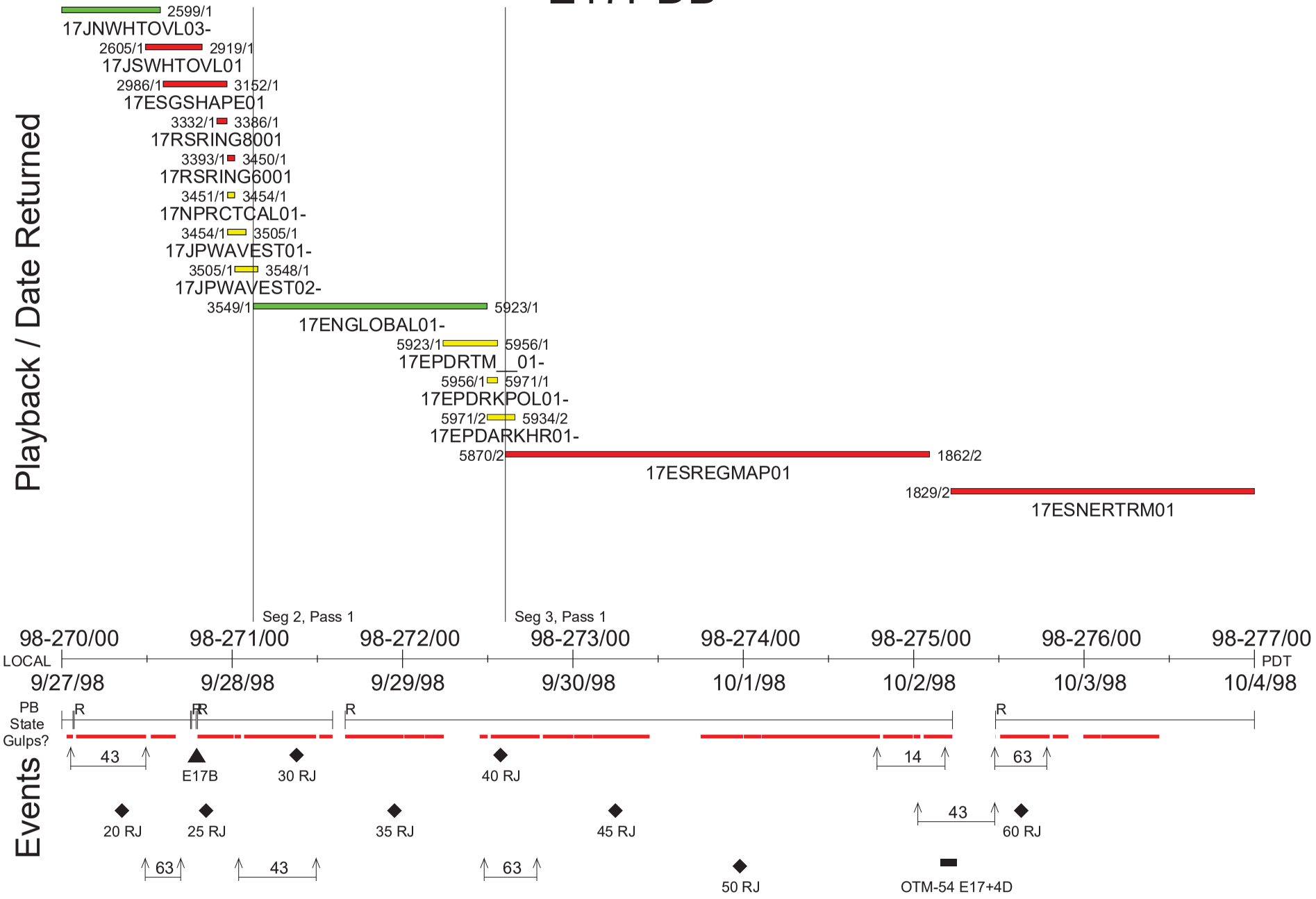


J. Gross, 8/13/97

E17PDB


2048/1
2176/1
17ENEUR20H01-
2176/1
2317/1
17JNWHTOVL01-
2458/1
17JNWHTOVL03-
Playback / Date Returned
Seg 1, Pass 1
98-263/00
98-264/00
98-265/00
98-266/00
98-267/00
98-268/00
98-269/00
98-270/00
LOCAL
PDT
9/20/98
9/21/98
9/22/98
9/23/98
9/24/98
9/25/98
9/26/98
9/27/98
PB
State
Gulps?
R R
43
63
14
43
15 RJ
Events
15 RJ
63

E17PDB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2986/1
3152/1
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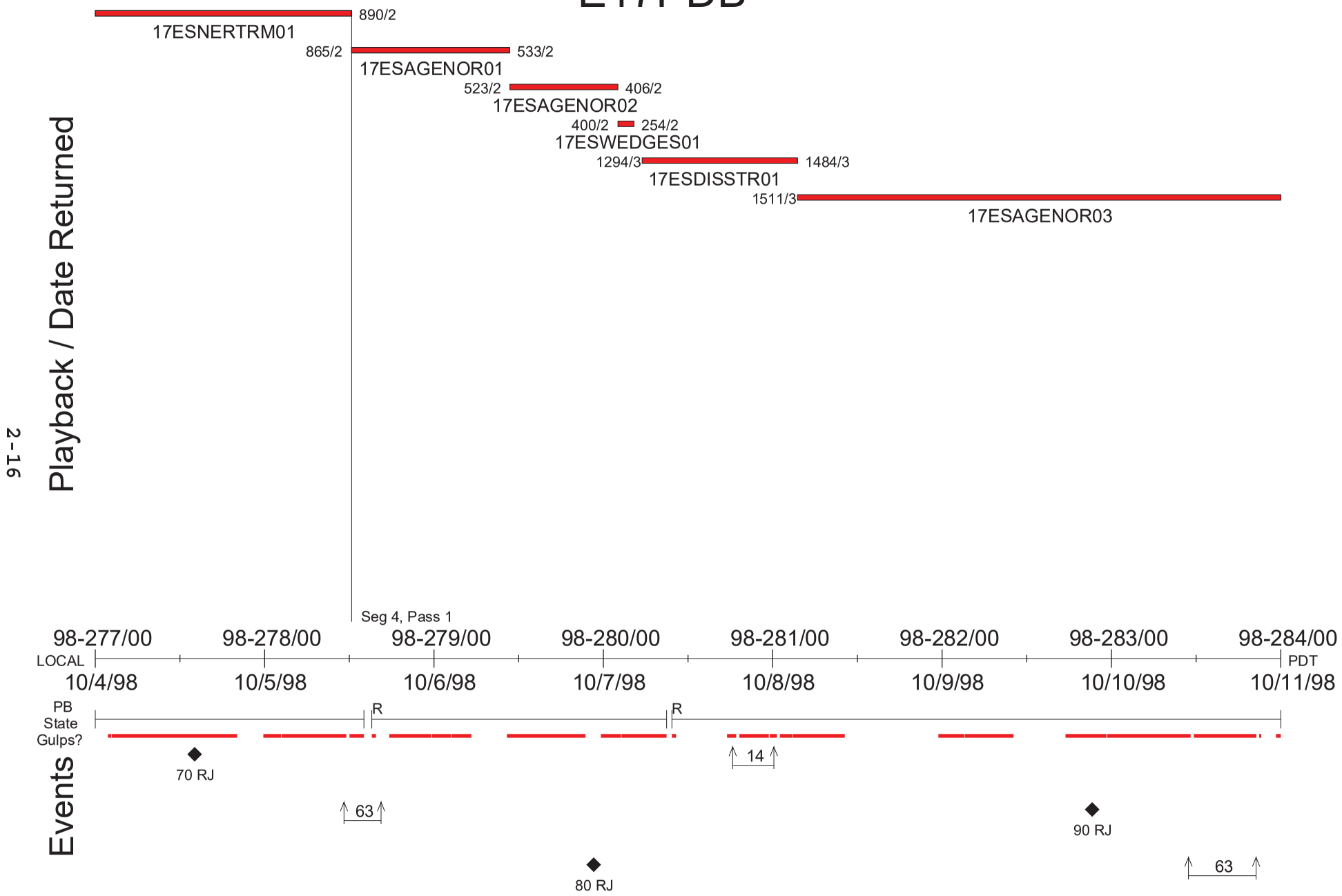
3332/1
3386/1
17RSRING8001
3393/1
3450/1
17RSRING6001
3451/1
3454/1
17NPRCTCAL01-
3454/1
3505/1
17JPWAVEST01-
3505/1
3548/1
17JPWAVEST02-
3549/1
5923/1
17ENGLOBAL01-
5923/1
5956/1
17EPDRTM__01-
5956/1
5971/1
17EPDRKPOL01-
5971/2
5934/2
17EPDARKHR01-
5870/2
1862/2
17ESREGMAP01
1829/2
17ESNERTRM01
Seg 2, Pass 1
Seg 3, Pass 1
98-270/00
98-271/00
98-272/00
98-273/00
98-274/00
98-275/00
98-276/00
98-277/00
LOCAL
PDT
9/27/98
9/28/98
9/29/98
9/30/98
10/1/98
10/2/98
10/3/98
10/4/98
PB State Gulps?
R
Events
43
E17B
30 RJ
40 RJ
14
63
20 RJ
25 RJ
35 RJ
45 RJ
43
60 RJ
63
43
63
50 RJ
OTM-54 E17+4D

E17PDB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523/2
406/2
17ESAGENOR02
400/2
254/2
17ESWEDGES01
1294/3
1484/3
17ESDISSTR01
1511/3
17ESAGENOR03
Seg 4, Pass 1
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98-278/00
98-279/00
98-280/00
98-281/00
98-282/00
98-283/00
98-284/00
LOCAL
PDT
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10/5/98
10/6/98
10/7/98
10/8/98
10/9/98
10/10/98
10/11/98
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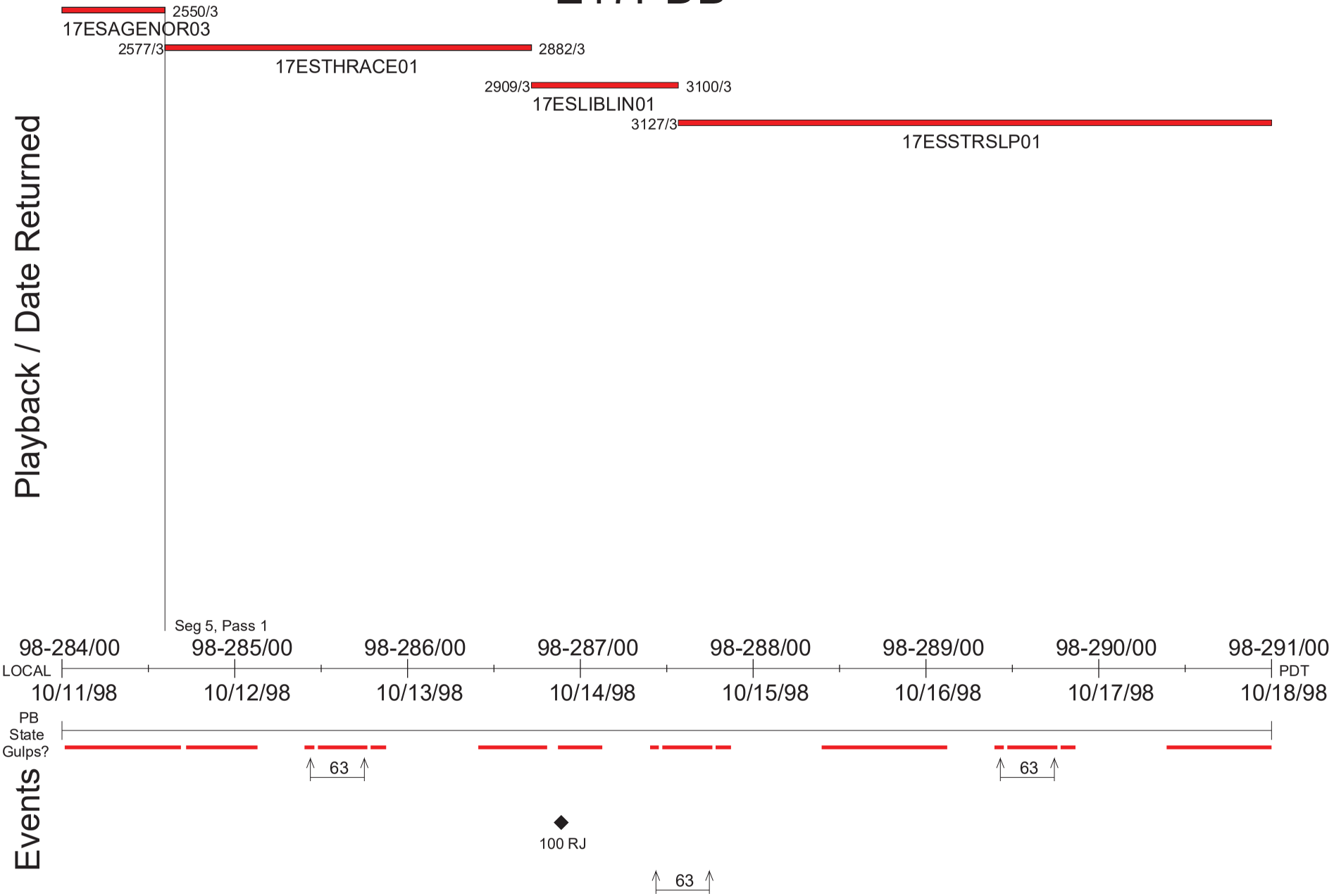
R
R
Events
70 RJ
63
14
80 RJ
90 RJ
63

E17PDB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2577/3
2882/3
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2909/3
3100/3
17ESLIBLIN01
3127/3
17ESSTRSLP01
Playback / Date Returned
Seg 5, Pass 1
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98-285/00
98-286/00
98-287/00
98-288/00
98-289/00
98-290/00
98-291/00
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PDT
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10/12/98
10/13/98
10/14/98
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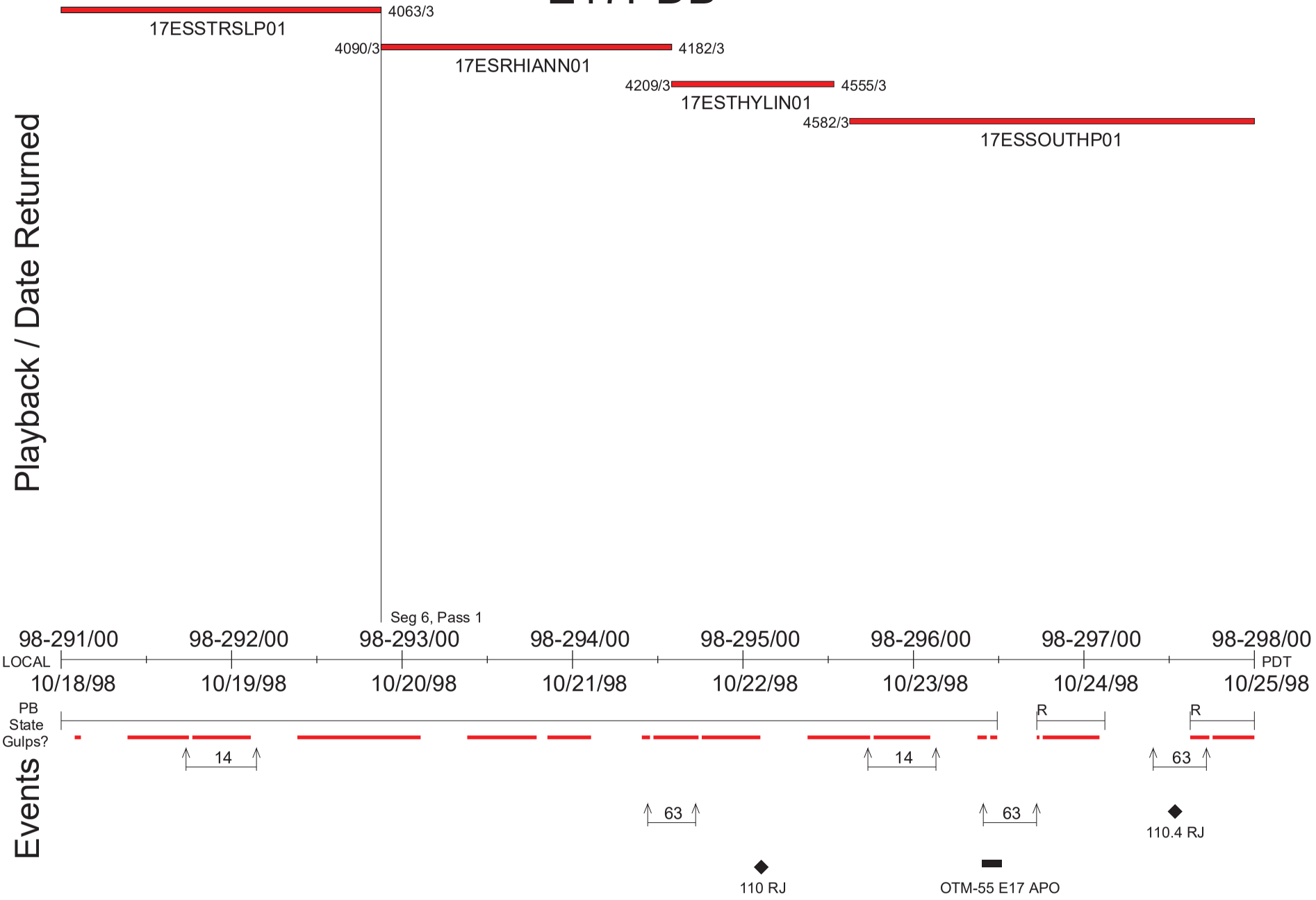
10/16/98
10/17/98
10/18/98
PB State Gulps?
63
63
Events
100 RJ
63

E17PDB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4209/3
4555/3
17ESTHYLIN01
4582/3
17ESSOUTHP01
Seg 6, Pass 1
98-291/00
98-292/00
98-293/00
98-294/00
98-295/00
98-296/00
98-297/00
98-298/00
LOCAL
PDT
10/18/98
10/19/98
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10/21/98
10/22/98
10/23/98
10/24/98
10/25/98
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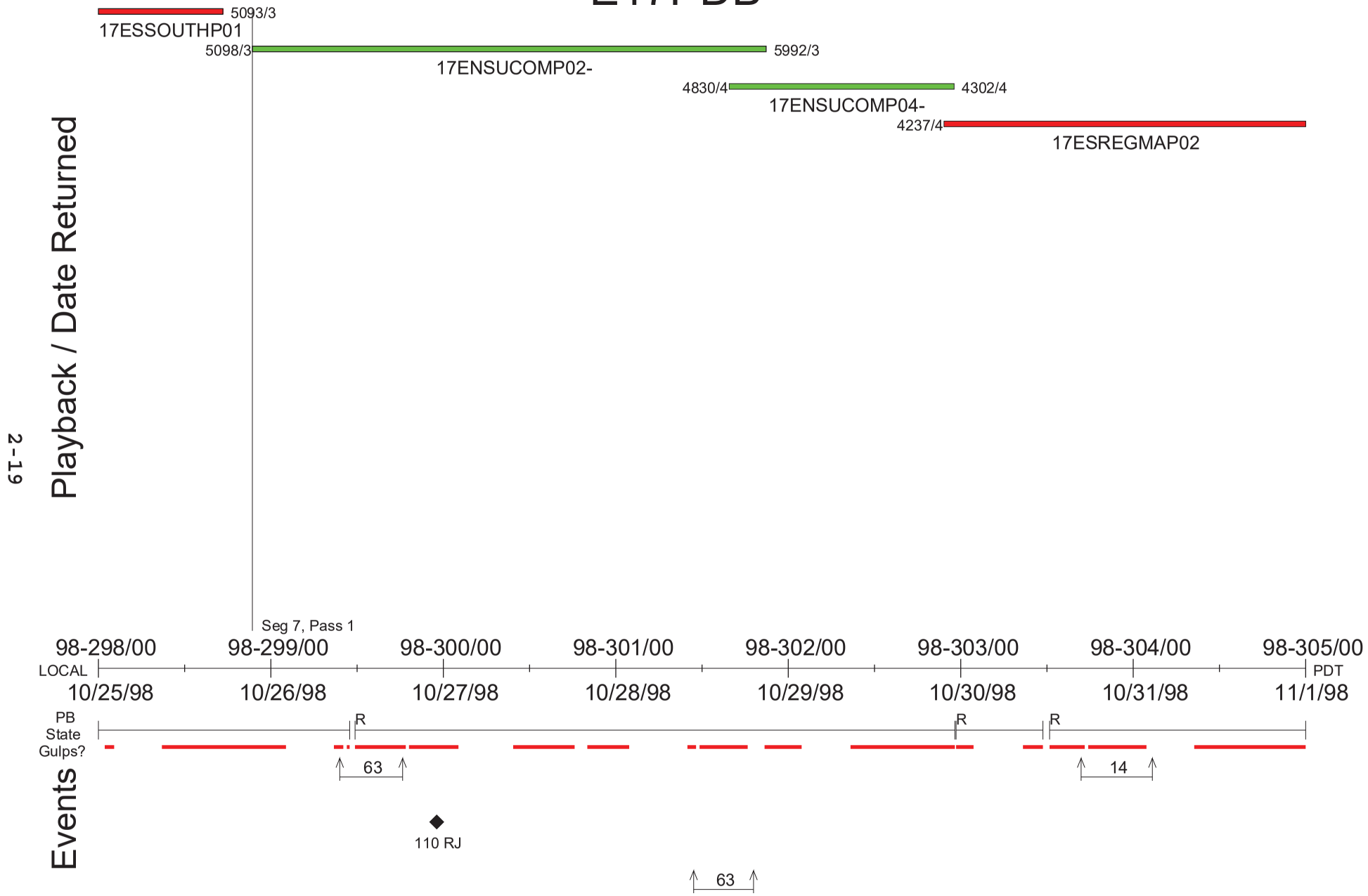
R
Events
14
14
63
63
63
110.4 RJ
110 RJ
OTM-55 E17 APO

E17PDB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5098/3
5992/3
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4830/4
4302/4
17ENSUCOMP04-
4237/4
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Playback / Date Returned
Seg 7, Pass 1
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98-300/00
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98-302/00
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98-304/00
98-305/00
LOCAL
PDT
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10/26/98
10/27/98
10/28/98
10/29/98
10/30/98
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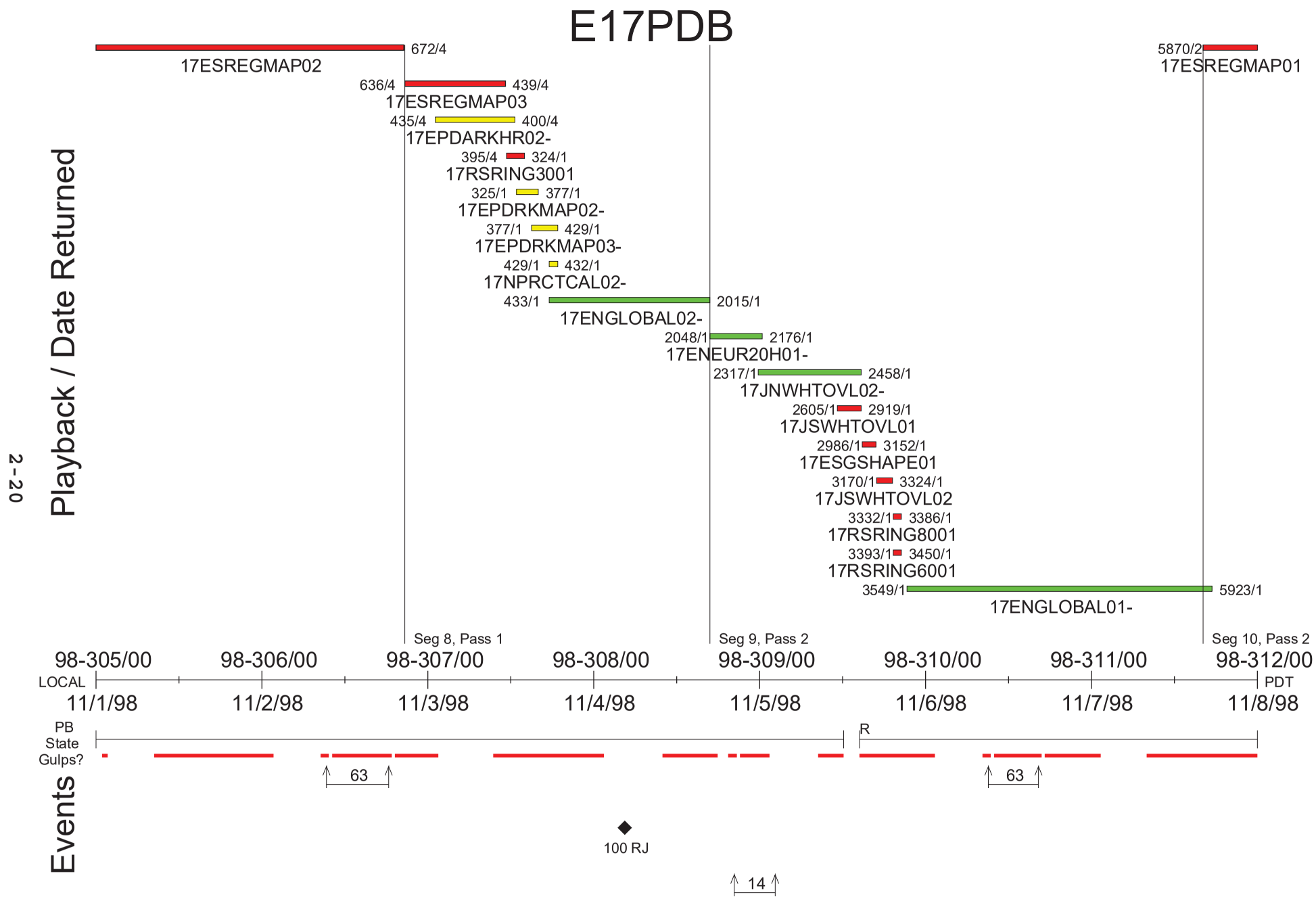
11/1/98
PB State Gulps?
R
R
R
63
14
Events
110 RJ
63

2-19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636/4
439/4
17ESREGMAP03
435/4
400/4
17EPDARKHR02-
395/4
324/1
17RSRING3001
325/1
377/1
17EPDRKMAP02-
377/1
429/1
17EPDRKMAP03-
429/1
432/1
17NPRCTCAL02-
433/1
2015/1
17ENGLOBAL02-
2048/1
2176/1
17ENEUR20H01-
2317/1
2458/1
17JNWHTOVL02-
2605/1
2919/1
17JSWHTOVL01
2986/1
3152/1
17ESGSHAPE01
3170/1
3324/1
17JSWHTOVL02
3332/1
3386/1
17RSRING8001
3393/1
3450/1
17RSRING6001
3549/1
5923/1
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5870/2
17ESREGMAP01
Seg 8, Pass 1
Seg 9, Pass 2
Seg 10, Pass 2
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98-306/00
98-307/00
98-308/00
98-309/00
98-310/00
98-311/00
98-312/00
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PDT
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11/2/98
11/3/98
11/4/98
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PB State Gulps?
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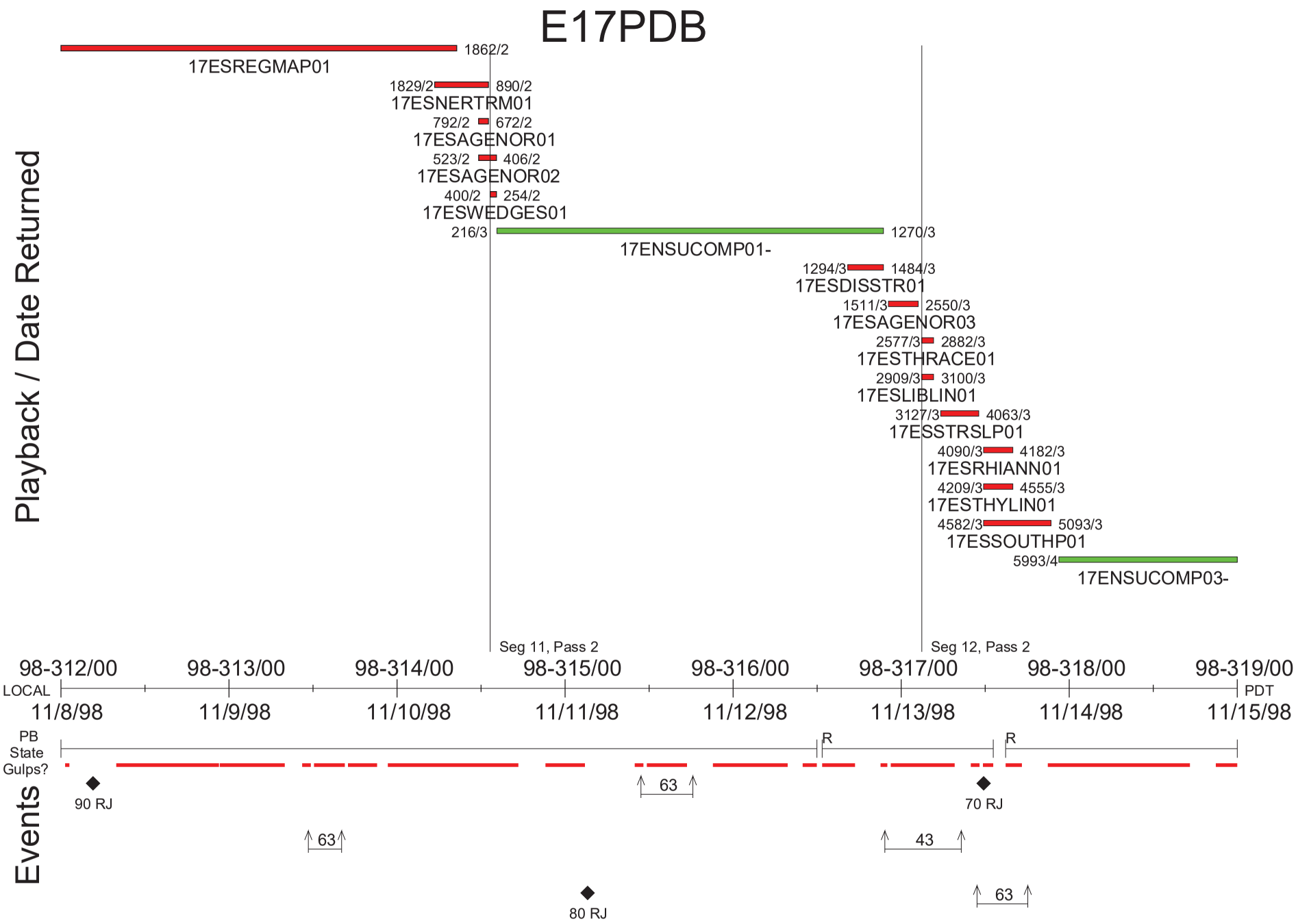
63
63
Events
100 RJ
14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1829/2
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792/2
672/2
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523/2
406/2
17ESAGENOR02
400/2
254/2
17ESWEDGES01
216/3
1270/3
17ENSUCOMP01-
1294/3
1484/3
17ESDISSTR01
1511/3
2550/3
17ESAGENOR03
2577/3
2882/3
17ESTHRACE01
2909/3
3100/3
17ESLIBLIN01
3127/3
4063/3
17ESSTRSLP01
4090/3
4182/3
17ESRHIANN01
4209/3
4555/3
17ESTHYLIN01
4582/3
5093/3
17ESSOUTHP01
5993/4
17ENSUCOMP03-
Seg 11, Pass 2
Seg 12, Pass 2
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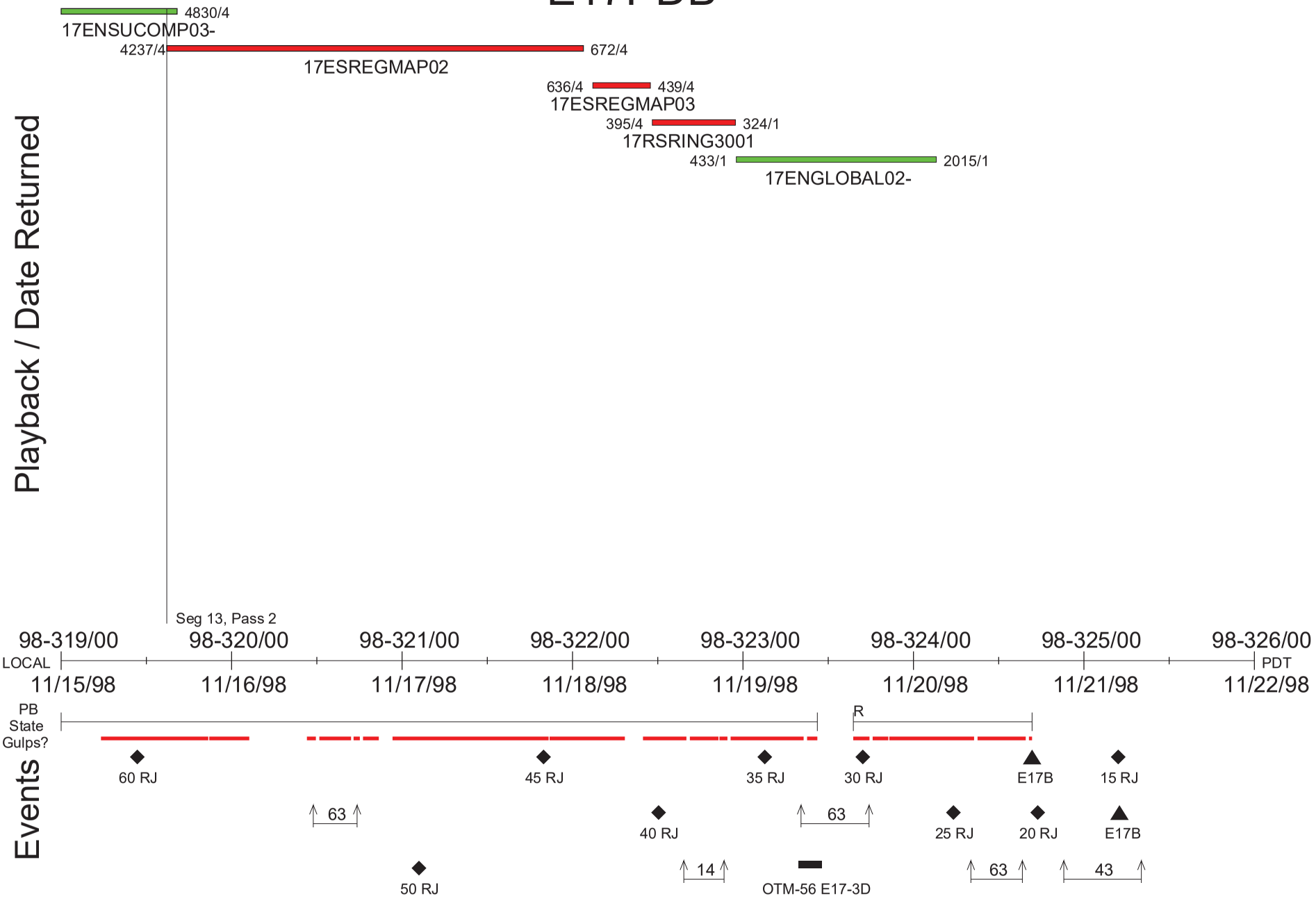
98-313/00
98-314/00
98-315/00
98-316/00
98-317/00
98-318/00
98-319/00
LOCAL
PDT
11/8/98
11/9/98
11/10/98
11/11/98
11/12/98
11/13/98
11/14/98
11/15/98
PB State Gulps?
R
R
Events
90 RJ
63
70 RJ
63
43
80 RJ
63

E17PDB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4237/4
672/4
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636/4
439/4
17ESREGMAP03
395/4
324/1
17RSRING3001
433/1
2015/1
17ENGLOBAL02-
Playback / Date Returned
Seg 13, Pass 2
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98-320/00
98-321/00
98-322/00
98-323/00
98-324/00
98-325/00
98-326/00
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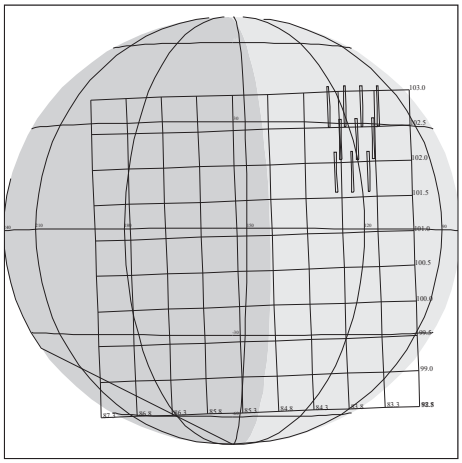
PDT
11/15/98
11/16/98
11/17/98
11/18/98
11/19/98
11/20/98
11/21/98
11/22/98
PB
State
Gulps?
R
Events
60 RJ
45 RJ
35 RJ
30 RJ
E17B
15 RJ
63
40 RJ
63
25 RJ
20 RJ
E17B
50 RJ
14
OTM-56 E17-3D
63
43

E17 NIMS A



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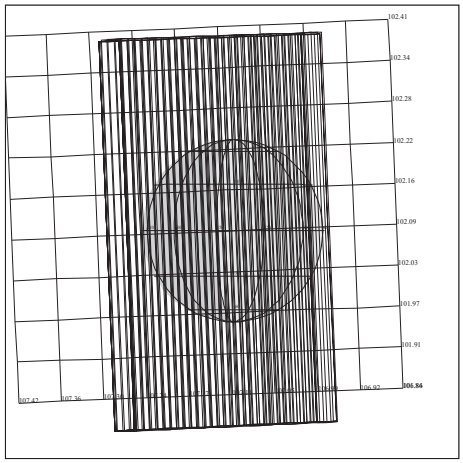
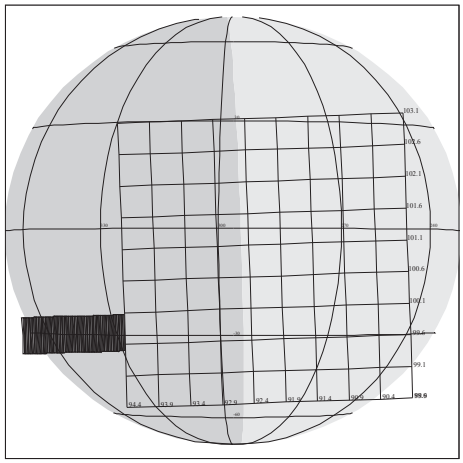


17ENEUR20H01
98-268/06:48:15



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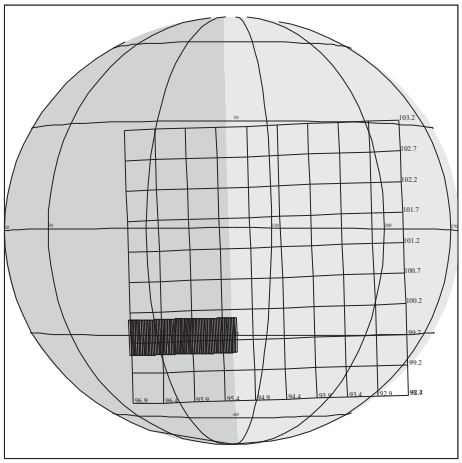
98-268/10:37:46



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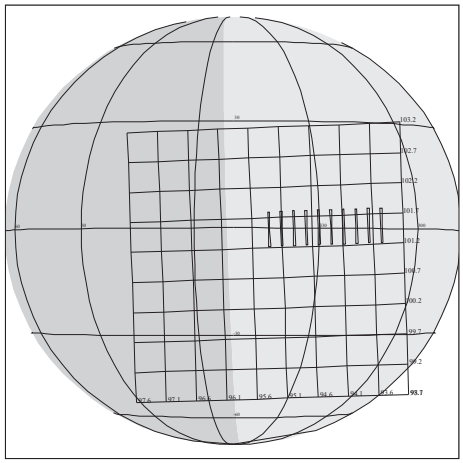
98-268/11:51:35



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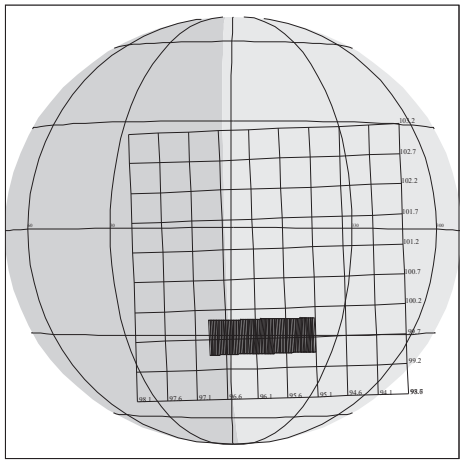

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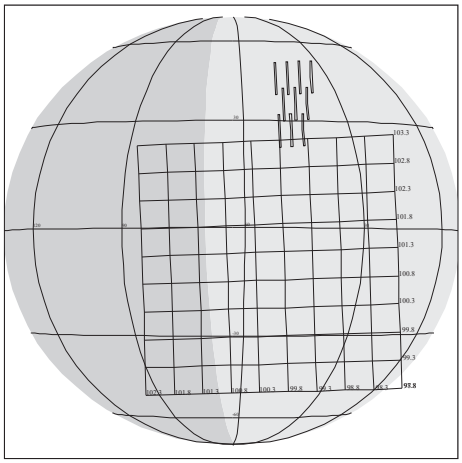
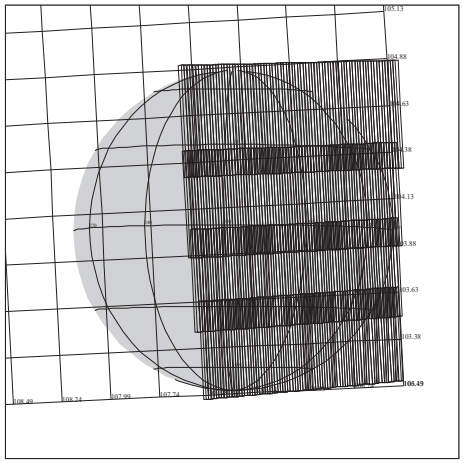


17JNJUPRTS03
98-268/14:20:13



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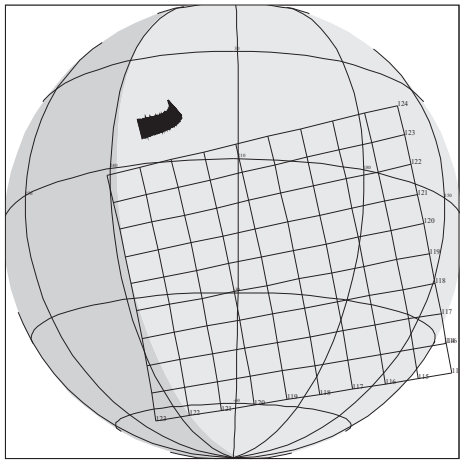
98-268/22:46:47



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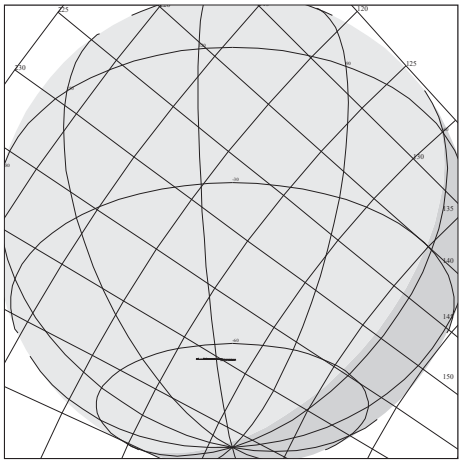
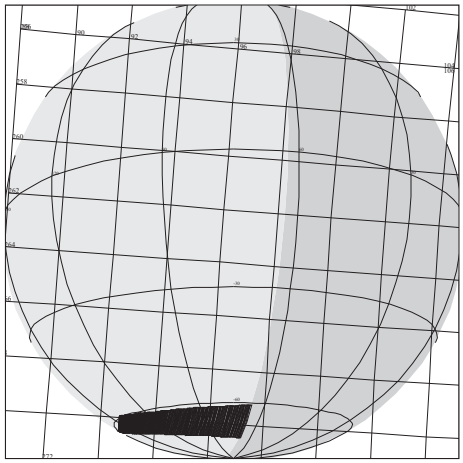
98-269/03:11:42

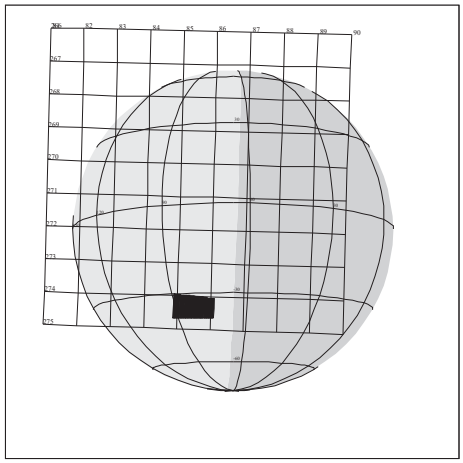
E17 NIMS B



17ENSUCOMP02
98-269/03:54:10



17ENSUCOMP03
98-269/04:14:23



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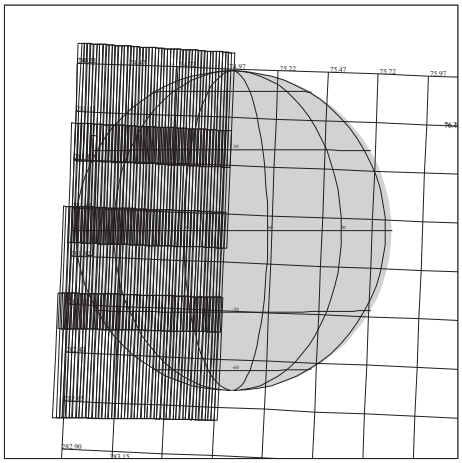


17ENGLOBAL02
98-269/09:04:34

Chapter 3 - Orbit Geometries

Contents

Introduction to Chapter 3

This chapter contains diagrams of various aspects of geometry for the E17 Orbit.

The figure on page 3 is a North Trajectory Pole View of the E17 Orbit from apoapsis to apoapsis.

The figure on page 4 is a North Trajectory Pole View of the E17 Orbit from +/- 5 days of Europa closest approach.

The figure on page 5 is a North Trajectory Pole View of the E17 Orbit from +/- 2 days of Europa closest approach.

The figure on page 6 is a North Trajectory Pole View of the E17 Orbit from +/- 1 day of Europa closest approach.

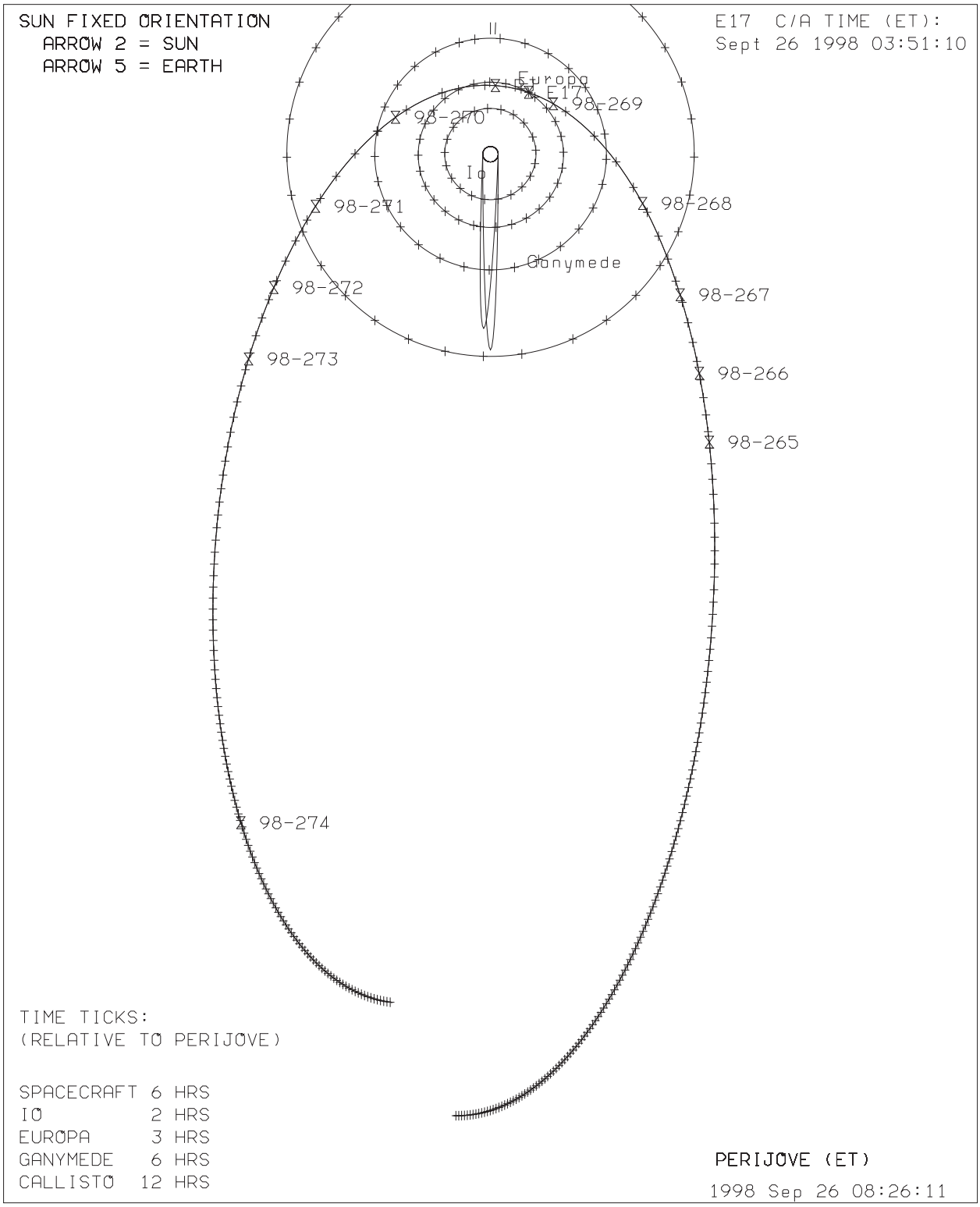
The figure on page 7 is a North Trajectory Pole View of the E17 Orbit from +/- 6 hours of Europa closest approach.

The figure on page 8 is a North Trajectory Pole View of the E17 Orbit from +/- 1 hour of Europa closest approach.

The figure on page 9 shows the spacecraft’s groundtrack on Europa at Europa closest approach.

The figure on page 10 shows the spacecraft’s groundtrack on Jupiter at Jupiter closest approach.

JUPITER 17: N. TRAJ. ♋ POLE VIEW (APO TO APO)



GEM-970401

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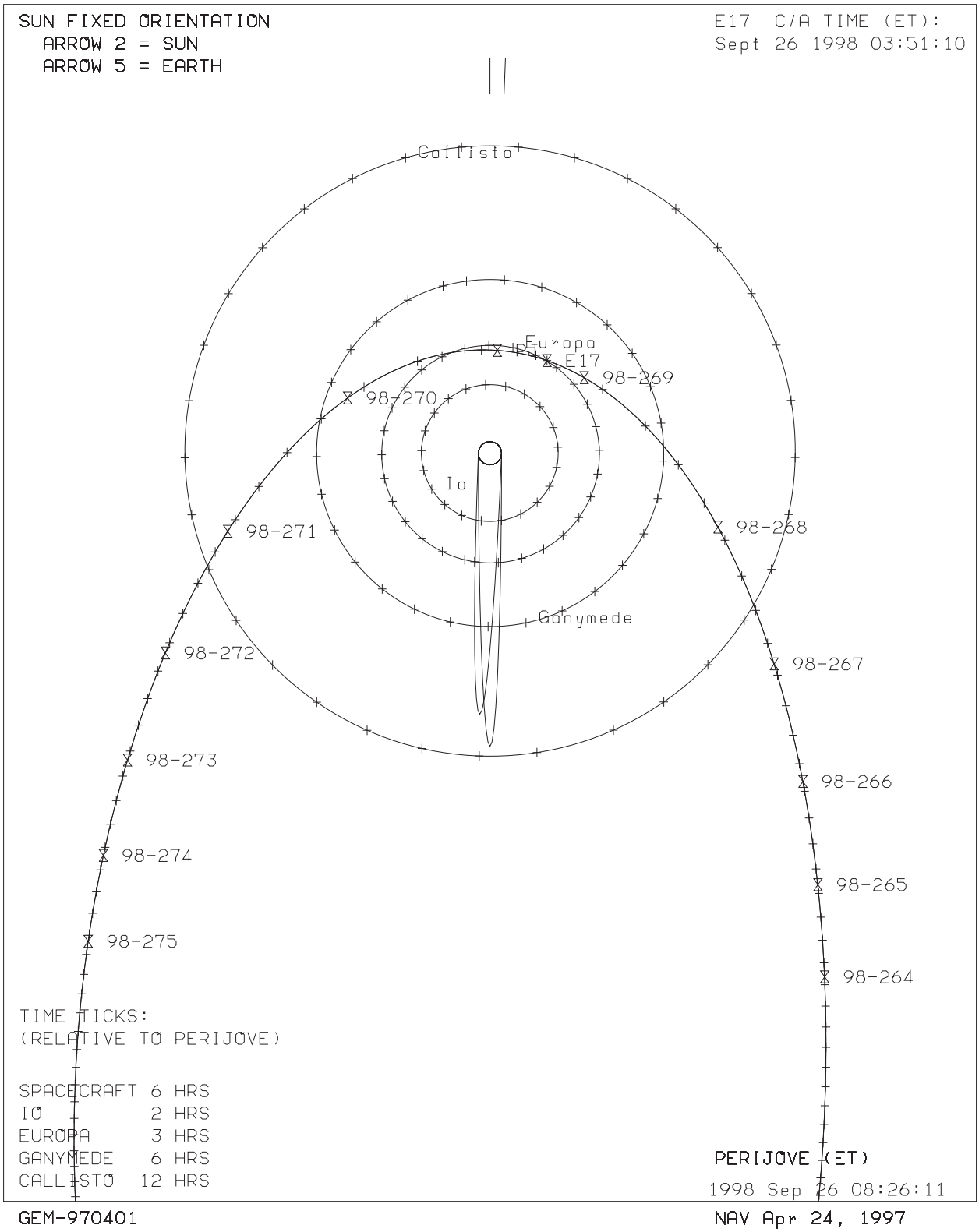
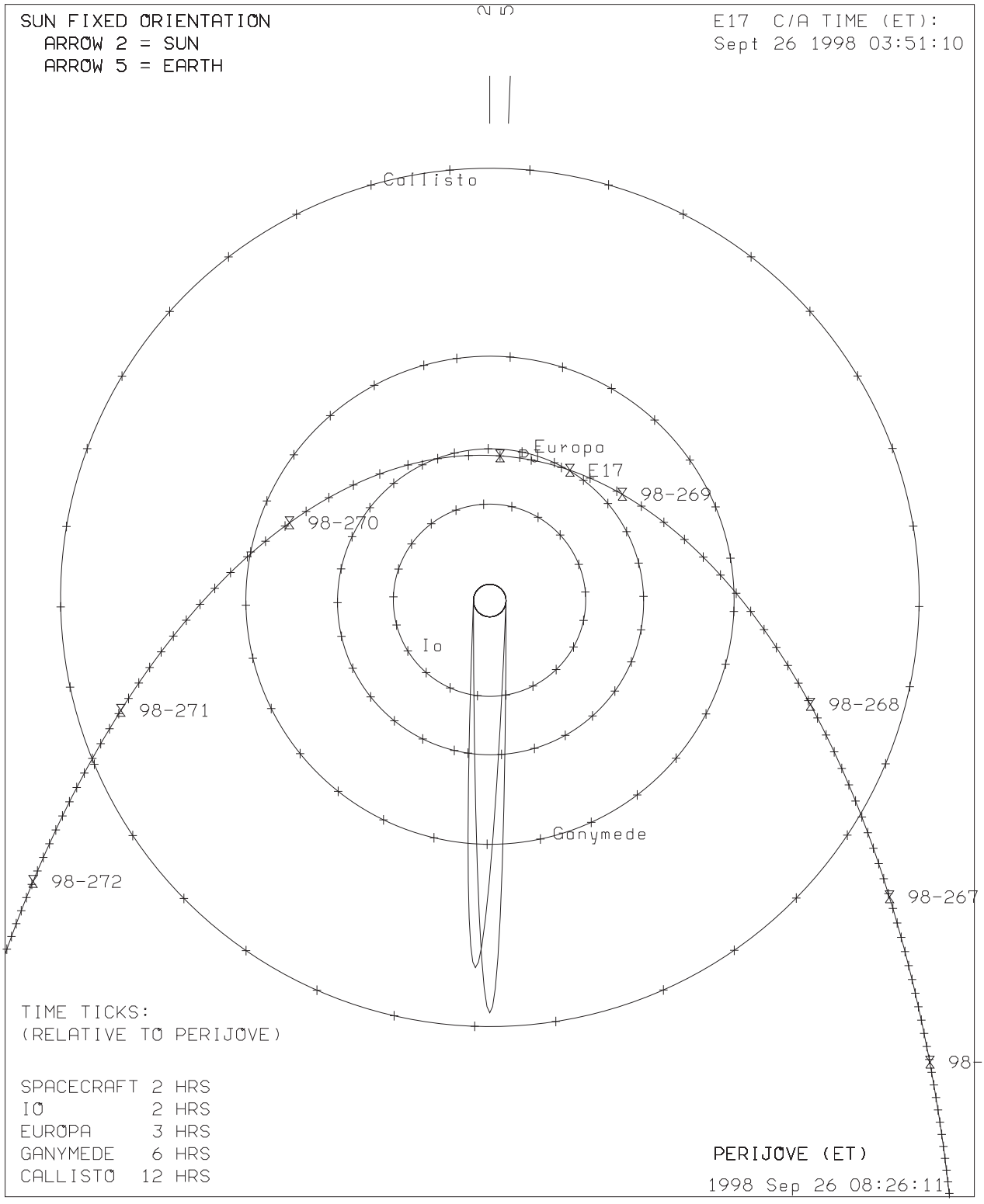
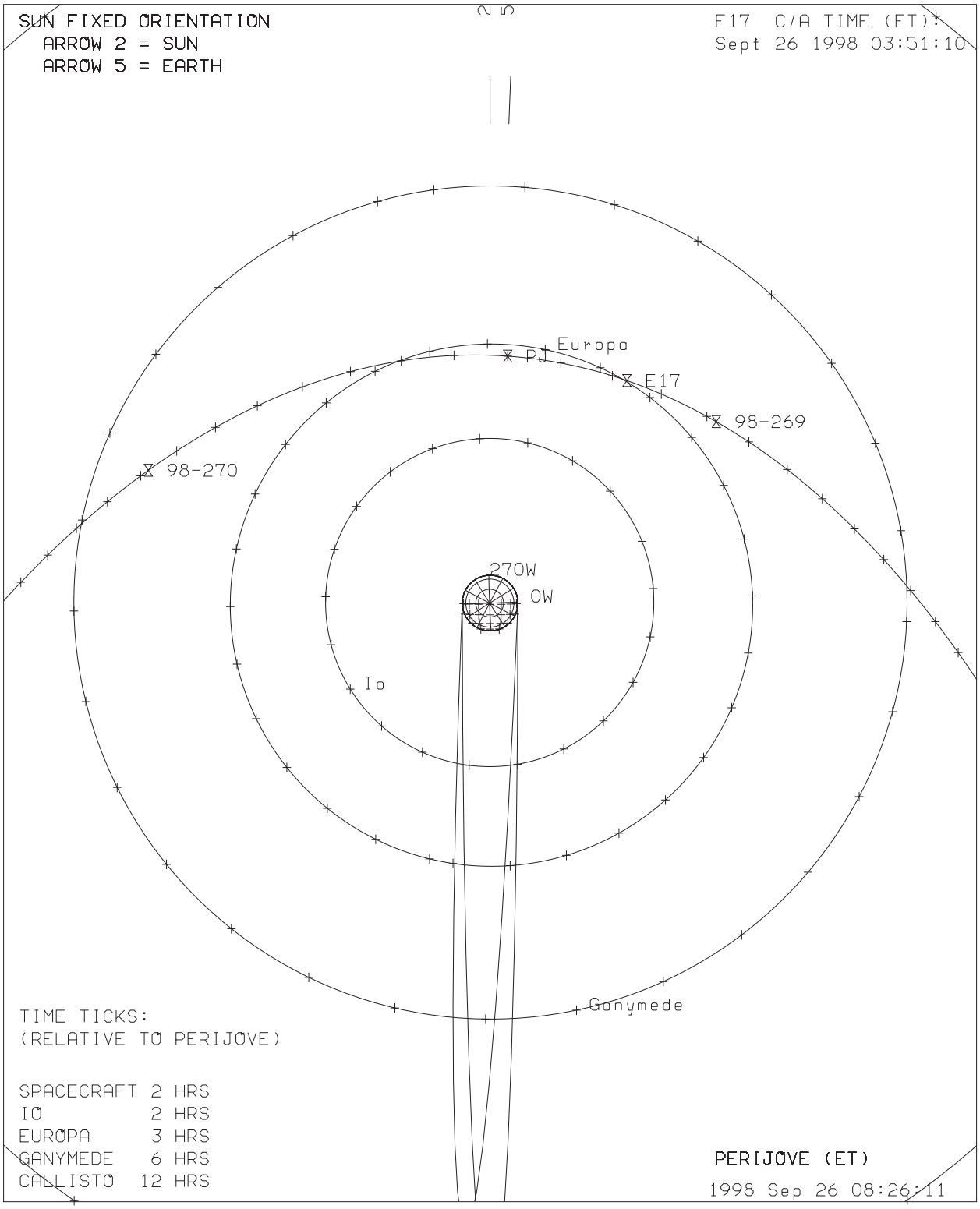
JUPITER 17: N. TRAJ. POLE VIEW (+/- 5 DAYS)



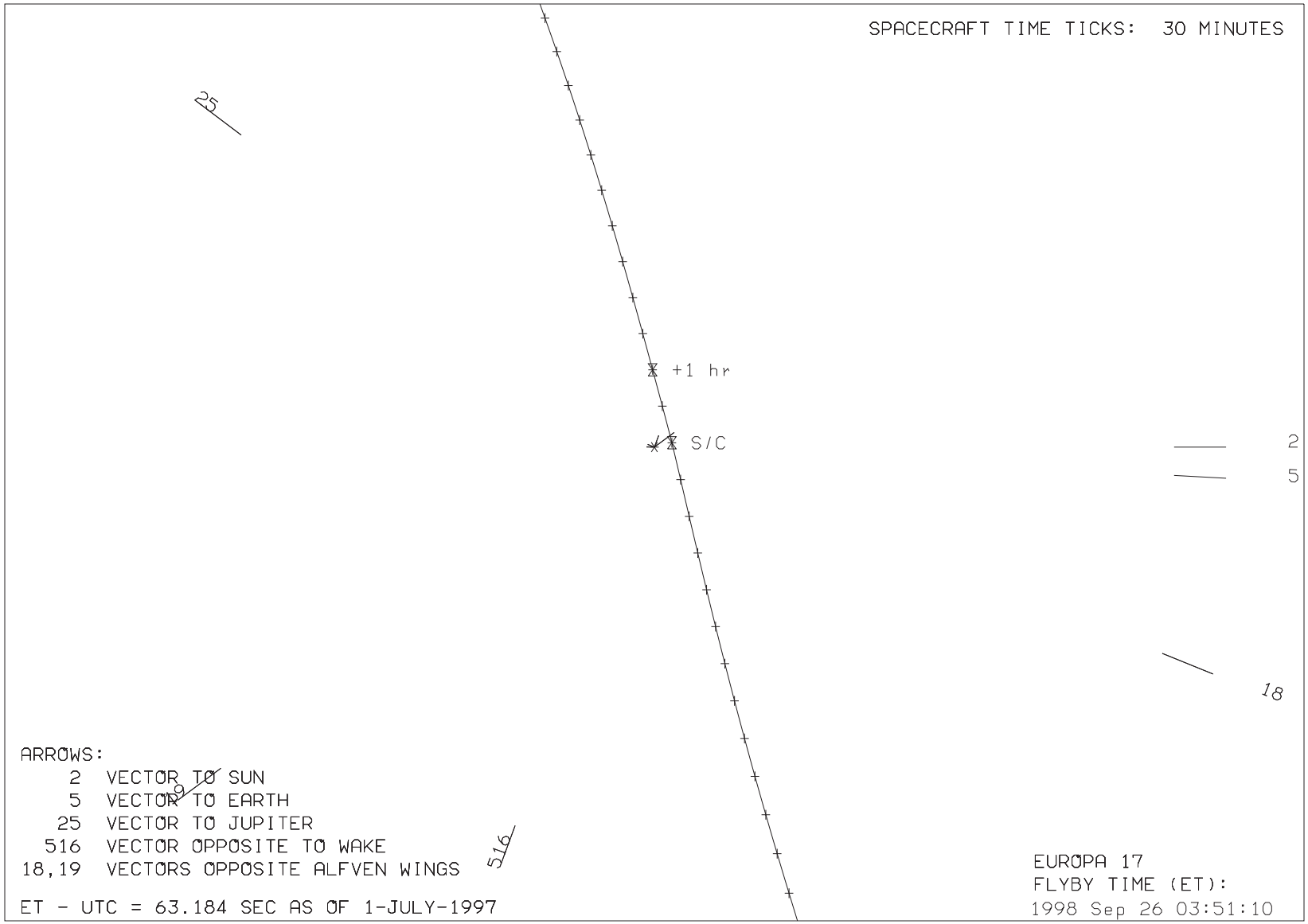
JUPITER 17: N. TRAJ. POLE VIEW (+/- 2 DAYS)



JUPITER 17: N. TRAJ. POLE VIEW (+/- 1 DAY)

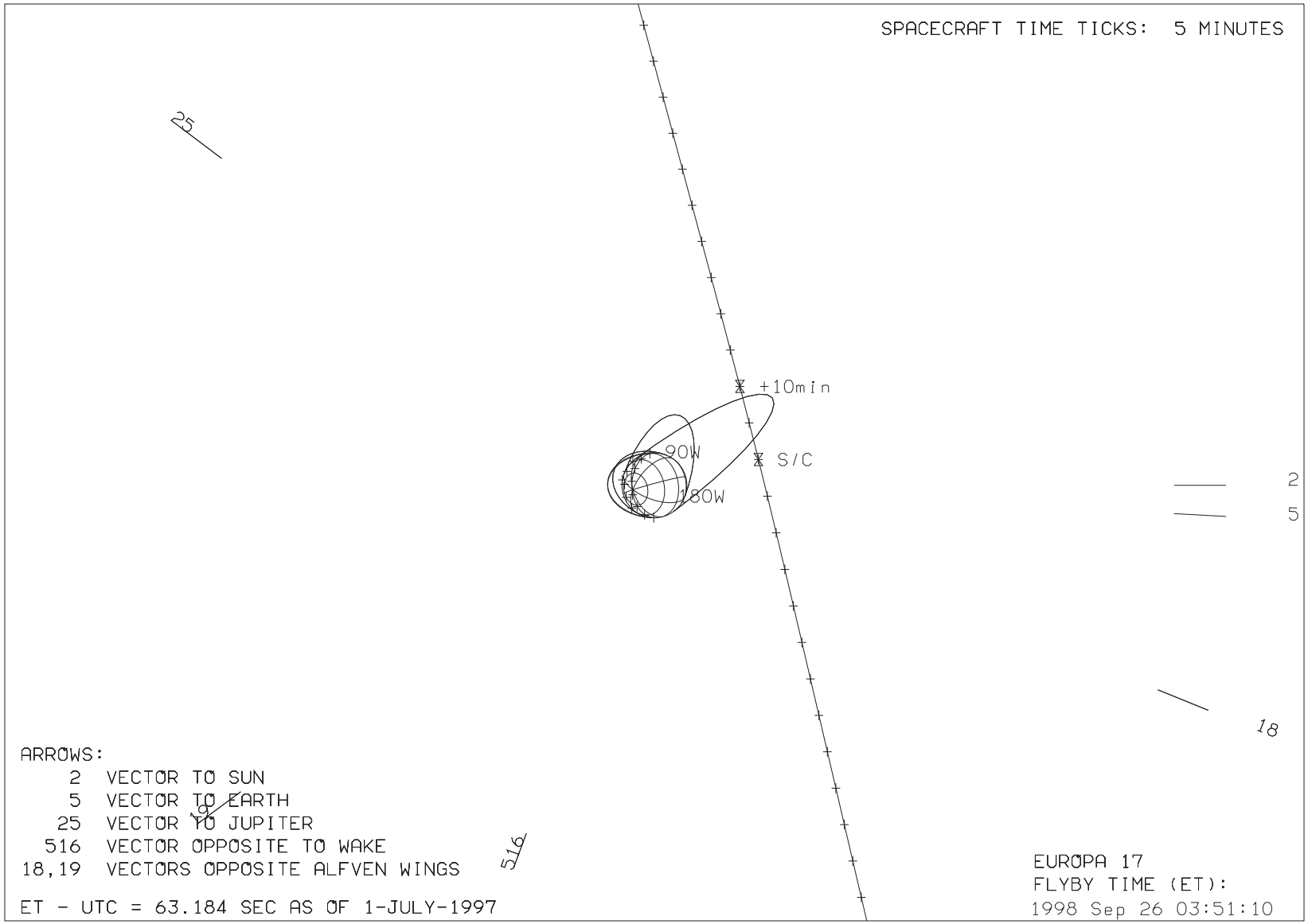


EUROPA 17: N. TRAJ POLE VIEW (+/- 6 HRS)



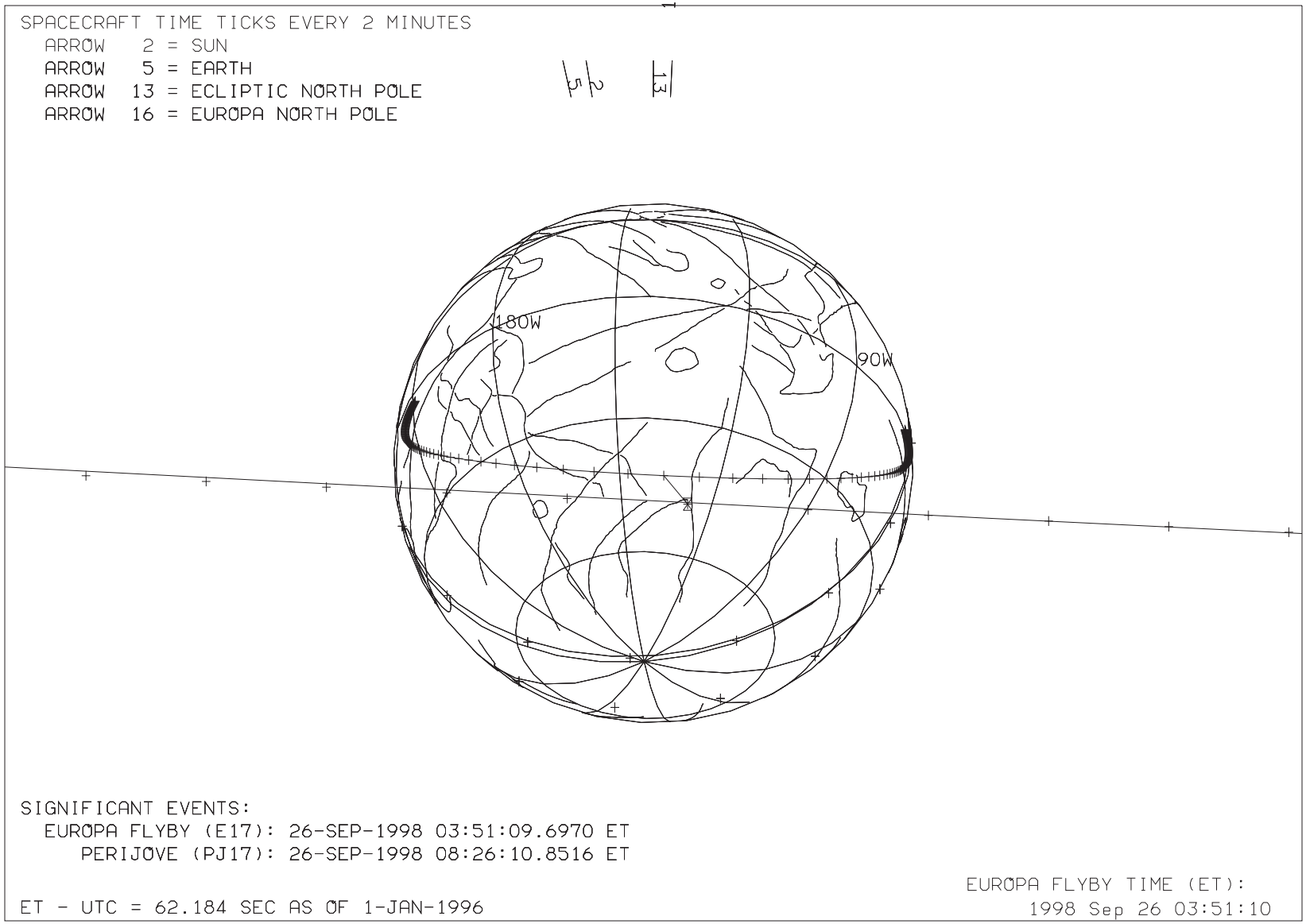
NAV 4/30/97

EUROPA 17: N. TRAJ POLE VIEW (+/- 1 HR)



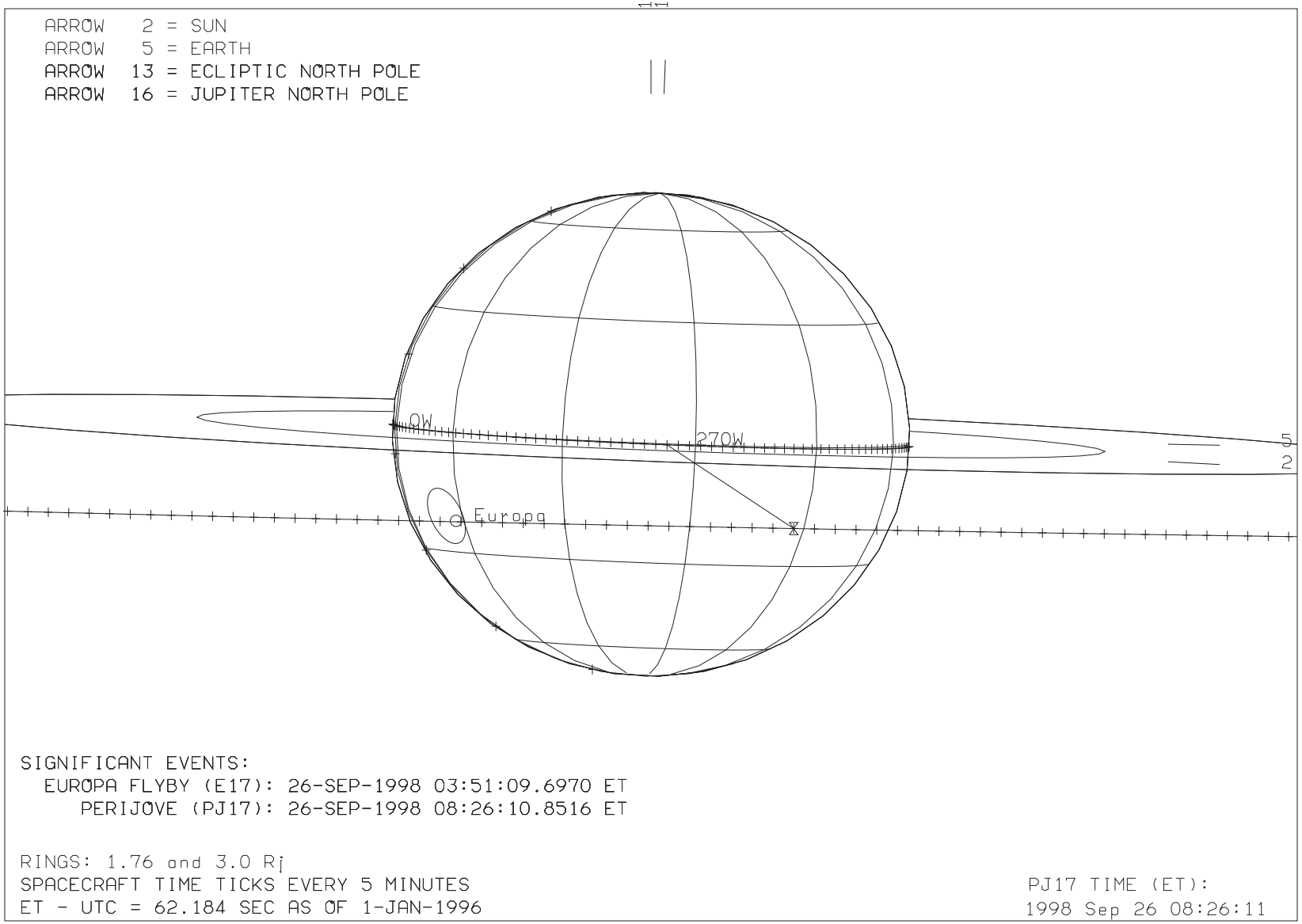
NAV 4/30/97

EUROPA 17: GROUNDTRACK AT CLOSEST APPROACH



NAV Apr 6, 1997

JUPITER 17: GROUNDTRACK AT CLOSEST APPROACH



SIGNIFICANT EVENTS:
EUROPA FLYBY (E17): 26-SEP-1998 03:51:09.6970 ET
PERIJOVE (PJ17): 26-SEP-1998 08:26:10.8516 ET

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

PJ17 TIME (ET):
1998 Sep 26 08:26:11

NAV Apr 6, 1997

Chapter 4 - NIMS Observation Summaries

Contents

Introduction to Chapter 4

This chapter summarizes the NIMS E17 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 E17 Sequence. The information in this summary is derived from the E17 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 E17 data. It is also derived from the E17 SEFs and PBTs. Each Obstab entry is 512 bytes long but is presented here as 4 lines of 128 characters per entry.

			Sequence:	E17A-AR		Created: 10/26/98		Begin: 98-268/04:00:00 Finish: 98-271/02:00:00				
Line	YR	DOY	SCET - GMT	PSID	Command	Parameters		Description	GCM	GO	GS	RIM MF I
1	98	268	04:00:00.000	20A3EW	37A	Initial Condition		NIMS Power ON	4O0	4	0	4,665,287:13:9
2	98	268	04:00:00.000	20A3FA	37F1PR	Initial Condition		Radiator Flash Heater OFF (primary relay)	4O0	4	0	4,665,287:13:9
3	98	268	04:00:00.000	20A3FD	40HRPR	Initial Condition		RCT Heater OFF (primary relay)	4O0	4	0	4,665,287:13:9
4	98	268	04:00:00.000	20A3FE	40T1P	Initial Condition		PCT Heater 1 ON (primary relay)	4O0	4	0	4,665,287:13:9
5	98	268	04:00:00.000	20A3FF	40T2	Initial Condition		PCT Heater 2 ON	4O0	4	0	4,665,287:13:9
6	98	268	04:00:00.000	20A3EX	37HR	Initial Condition		Replacement Heaters OFF	4O0	4	0	4,665,287:13:9
7	98	268	04:00:00.000	20A3EY	37C1PR	Initial Condition		Optics Heater 1 OFF (primary relay)	4O0	4	0	4,665,287:13:9
8	98	268	04:00:00.000	20A3FB	37F2PR	Initial Condition		Shield Flash Heater OFF (primary relay)	4O0	4	0	4,665,287:13:9
9	98	268	04:00:00.000	20A3EZ	37C2PR	Initial Condition		Optics Heater 2 OFF (primary relay)	4O0	4	0	4,665,287:13:9
10	98	268	04:00:00.066		DMS:	: READY		RDY, TRACK 1, FWD, TIC 202.12 +/-	4O0	4	0	4,665,287:14:0
11	98	268	04:00:15.400	488AA6A	6TMSED	NORM,GL6		Sci, Eng, and D/L Chan	4O0	4	0	4,665,287:37:0
12	98	268	04:01:00.066	20OA6A	6HICON				4O0	4	0	4,665,288:13:0
13	98	268	04:01:00.733	41AA99A	POWER	PWR MODE change		Change to Data Taking Mode	4O0	4	0	4,665,288:14:0
14	98	268	04:01:04.733	41AA3A	40T1PR		1	PCT Heater 1 OFF (primary relay)	4O0	4	0	4,665,288:20:0
15	98	268	04:01:14.733	41AA3B	40T1PR		2	PCT Heater 1 OFF (primary relay)	4O0	4	0	4,665,288:35:0
16	98	268	04:01:24.733	41AA3C	40T2R		1	PCT Heater 2 OFF	4O0	4	0	4,665,288:50:0
17	98	268	04:01:34.733	41AA3D	40T2R		2	PCT Heater 2 OFF	4O0	4	0	4,665,288:65:0
18	98	268	04:01:50.733	432JA6B	6RTDS2	NIMDSL,AACNCG,RT		NIMS R/T DESELECT	4O0	4	0	4,665,288:89:0
19	98	268	04:01:51.400	432JA431A6A	6RCDSL	DDSNCG,PLSDSL,EP		Record Deselect (DDS o	4O0	4	0	4,665,288:90:0
20	98	268	04:01:52.066	432JA6C	6RTSL1			R/T Select of DDS and	4O0	4	0	4,665,289:00:0
21	98	268	04:01:52.066	432JA6D	6RTSL2	NIMNCG,AACSEL,RT		AACS SELECT	4O0	4	0	4,665,289:00:0
22	98	268	04:15:00.733	282NC432A431A6A	6RCDSL	DDSNCG,PLSDSL,EP		Record Deselect (DDS o	4O0	4	0	4,665,302:00:0
23	98	268	04:15:01.400	282NC432A6A	6RTSL1			R/T Select of DDS and	4O0	4	0	4,665,302:01:0
24	98	268	04:27:18.066	444UA443A4B	7MODE	INT		AACS INERTIAL MODE	4O0	4	0	4,665,314:14:0
25	98	268	04:29:10.066	465KA6A	6DMST		2050	DMS Slew to TIC	4O0	4	0	4,665,316:00:0
26	98	268	04:29:10.066		DMS:	: *E4-DELAY		RDY, TRACK 1, FWD, TIC 202.12 +/-	4O0	4	0	4,665,316:00:0
27	98	268	04:29:10.066		DMS:	: *SLEW-TIC		P7, TRACK 1, FWD, TIC 202.12 +/-	4O0	4	0	4,665,316:00:0
28	98	268	04:29:10.066		DMS:	: *TURNARND		P7, TRACK 1, FWD, TIC 202.12 +/-	4O0	4	0	4,665,316:00:0
29	98	268	04:29:16.733		DMS:	: *RUNUP		P7, TRACK 1, FWD, TIC 202.12 +/-	4O0	4	0	4,665,316:10:0
30	98	268	04:29:18.133		DMS:	: *AT_SPD		P7, TRACK 1, FWD, TIC * 202.24 +/-	4O0	4	0	4,665,316:12:1
31	98	268	04:45:20.066	165AA4A	7SCAN	NORM,248.952999,		Check S/P Position	4O0	4	0	4,665,331:90:0
32	98	268	04:55:26.066	165AA4B	7VECT			Inert vect update UTC	4O0	4	0	4,665,341:89:0
33	98	268	06:13:16.066	176DA6A	6TMREC	NRC		NO RECORD Record Mode Change	4O0	4	0	4,665,418:87:0
34	98	268	06:17:55.335	17NNJUPRTS01-		-----START------			260	4	0	: :
35	98	268	06:26:45.400	20DA5A	37PL			Program Load (halts microprocessor & unwri	260	4	0	4,665,432:27:0
36	98	268	06:26:46.733	20DA5B	37MRL			Memory Realocate (software operates from R	260	4	0	4,665,432:29:0
37	98	268	06:26:48.066	20DA6A	6MCOPY	NIMS		NIMS,1000,LLM1A,7300,77F7	260	4	0	4,665,432:31:0
38	98	268	06:26:58.066	20DA6B	6MCOPY	NIMS		NIMS,1598,LLM1A,77F8,781D	260	4	0	4,665,432:46:0
39	98	268	06:27:08.066	20DA5C	37IRT			Instrument Reset (goes into POR state)	260	4	0	4,665,432:61:0
40	98	268	06:27:28.066	20DA5D	37MN			Memory Normal (software operates from ROM)	260	4	0	4,665,433:00:0
41	98	268	06:27:43.400	20DA4A	37IST	1,2,0,OFF,0,0,0		Chopper ON, Sync, Chopper (Ref)	2R0	4	0	4,665,433:23:0
42	98	268	06:28:02.002	17NNJUPRTS01-		-----STOP-------			2R0	4	0	: :
43	98	268	06:28:02.002	17JNJUPRTS01*		-----START------			2R0	4	0	: :
44	98	268	06:29:24.733	125DA4A	37IST	0,2,0,OFF,0,1,0		Gain State 2	2R0	4	0	4,665,434:84:0
45	98	268	06:29:24.733	125DA	NIMSINIT	GS		##### GROUP START INIT	2R0	4	0	4,665,434:84:0
46	98	268	06:29:28.733	165DA4A	7SCAN	NORM,251.320999,		Check S/P Position	2R0	4	0	4,665,434:90:0
47	98	268	06:30:25.400	125DA4B	37MB	1B,1B,0,0,0,0		Selects mirror (spatial) edit table	2R0	4	0	4,665,435:84:0
48	98	268	06:30:25.400	125DA11A	NIMSINIT	GE		##### GROUP END INIT	2R0	4	0	4,665,435:84:0
49	98	268	06:32:26.733	127DA	NIMSTAB	GS		%%%%% GROUP START TAB	2R0	4	0	4,665,437:84:0
50	98	268	06:32:26.733	127DA4A	37IOP	3,0		Long Map, Grating Start Position =00	2R3	4	0	4,665,437:84:0
51	98	268	06:32:27.400	127DA4B	37ETB	04,C4,35,FF,FF		Loads wavelength edit table	2R3	4	0	4,665,437:85:0
52	98	268	06:32:35.400	432DA6A	6RTSL2	NIMSEL,AACNCG,RT		NIMS R/T SELECT	2R3	4	0	4,665,438:06:0
53	98	268	06:32:35.400	127DA11A	NIMSTAB	GE		%%%%% GROUP END TAB	2R3	4	0	4,665,438:06:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
54	98	268	06:33:22.733	117DA	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	4,665,438	77:0
55	98	268	06:33:30.733	165DA4B	7VECT		Inert vect update UTC	2R3	4	0	4,665,438	89:0
56	98	268	06:33:32.066	117DA105A106A4A	**7STRP**	**-0.011501,0.0,0,**	**Slew =,0.06**	2R3	4	0	4,665,439	00:0
57	98	268	06:36:46.066	117DA105A106A4B	**7STRP**	**0.013001,-0.008,**	**Slew =12.01**	2R3	4	0	4,665,442	18:0
58	98	268	06:36:54.066	117DA105A106A4C	**7STRP**	**-0.011501,0.0,0,**	**Slew =,0.06**	2R3	4	0	4,665,442	30:0
59	98	268	06:40:08.066	117DA105A106A4D	**7STRP**	**0.013001,-0.008,**	**Slew =12.01**	2R3	4	0	4,665,445	48:0
60	98	268	06:40:16.066	117DA105A106A4E	**7STRP**	**-0.011501,0.0,0,**	**Slew =,0.06**	2R3	4	0	4,665,445	60:0
61	98	268	06:40:32.200		DMS:	**: *RUNDOWN**	P7, TRACK 1, FWD, TIC *2047.94 +/-	2R3	4	0	4,665,445	84:2
62	98	268	06:40:33.400		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *2048.00 +/-	2R3	4	0	4,665,445	86:0
63	**98**	**268**	**06:42:11.335**	**17JNJUPRTS01***		**-----STOP-------**		**2R3**	**4**	**0**	**: :**	
64	**98**	**268**	**06:42:40.733**	**432DZ6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**2R3**	**4**	**0**	**4,665,448**	**04:0**
65	98	268	06:43:30.066	117DA11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	4,665,448	78:0
66	**98**	**268**	**06:44:12.847**	**17NNEUR20H01-**		**-----START------**		**2R3**	**4**	**0**	**: :**	
67	**98**	**268**	**06:48:15.513**	**17ENEUR20H01-**		**-----START------**		**2R3**	**4**	**0**	**: :**	
68	**98**	**268**	**06:48:15.513**	**17NNEUR20H01-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**	
69	**98**	**268**	**06:48:56.733**	**20EA5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**2R3**	**4**	**0**	**4,665,454**	**22:0**
70	**98**	**268**	**06:48:58.066**	**20EA5B**	**37MRL**		**Memory Realocate (software operates from R**	**2R3**	**4**	**0**	**4,665,454**	**24:0**
71	**98**	**268**	**06:49:00.066**	**20EA6A**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**2R3**	**4**	**0**	**4,665,454**	**27:0**
72	**98**	**268**	**06:49:10.066**	**20EA6B**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**2R3**	**4**	**0**	**4,665,454**	**42:0**
73	**98**	**268**	**06:49:23.400**	**20EA5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**4,665,454**	**62:0**
74	**98**	**268**	**06:49:26.733**	**20EA5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**4,665,454**	**67:0**
75	**98**	**268**	**06:49:36.733**	**20EA4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**4,665,454**	**82:0**
76	98	268	06:51:39.400	125EA	NIMSINIT	GS	##### GROUP START INIT	2R0	4	0	4,665,456	84:0
77	**98**	**268**	**06:51:39.400**	**125EA4A**	**37IST**	**0,2,0,OFF,0,1,1**	**Gain State 4**	**4R0**	**4**	**0**	**4,665,456**	**84:0**
78	**98**	**268**	**06:52:40.066**	**125EA4B**	**37MB**	**0,0,0,0,0,0**	**Selects mirror (spatial) edit table**	**4R0**	**4**	**0**	**4,665,457**	**84:0**
79	98	268	06:52:40.066	125EA11A	NIMSINIT	GE	##### GROUP END INIT	4R0	4	0	4,665,457	84:0
80	98	268	06:52:44.066	165EA4A	7SCAN	NORM,276.66,-24.	Check S/P Position	4R0	4	0	4,665,457	90:0
81	**98**	**268**	**06:54:41.400**	**127EA4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**4R3**	**4**	**0**	**4,665,459**	**84:0**
82	98	268	06:54:41.400	127EA	NIMSTAB	GS	%%%%% GROUP START TAB	4R3	4	0	4,665,459	84:0
83	**98**	**268**	**06:54:42.066**	**127EA4B**	**37ETB**	**07,C7,30,05,FF,0**	**Loads wavelength edit table**	**4R3**	**4**	**0**	**4,665,459**	**85:0**
84	98	268	06:54:50.066	127EA11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	4,665,460	06:0
85	98	268	06:56:38.066	117EA	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	4,665,461	77:0
86	98	268	06:56:46.066	165EA4B	7VECT		Inert vect update UTC	4R3	4	0	4,665,461	89:0
87	98	268	06:56:47.400	117EA105A106A4A	**7STRP**	**-0.0052,0.0,0,0,**	**Slew =,0.02**	4R3	4	0	4,665,462	00:0
88	98	268	06:57:36.733	175EA422A6A	6DMSC	R7,1	DMS Control Tape runup 7.68kbp	4R3	4	0	4,665,462	74:0
89	98	268	06:57:36.733		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 2048.00 +/-	4R3	4	0	4,665,462	74:0
90	98	268	06:57:43.400		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 2048.00 +/-	4R3	4	0	4,665,462	84:0
91	98	268	06:57:44.733	175EA176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	4R3	4	0	4,665,462	86:0
92	98	268	06:57:44.800		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 2048.12 +/-	4R3	4	0	4,665,462	86:1
93	98	268	06:57:44.800		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *2048.12 +/-	4R3	4	0	4,665,462	86:1
94	**98**	**268**	**06:57:45.400**	**17ENEUR20H01-**	**NIMPBK**	**301EA**	**EUROPA DISTANT MAPPING**	**4R3**	**4**	**0**	**: :**	
95	**98**	**268**	**07:00:45.400**	**125FA4A**	**37IST**	**0,2,0,OFF,0,1,2**	**Gain State 3**	**3R3**	**4**	**0**	**4,665,465**	**84:0**
96	98	268	07:00:45.400	125FA	NIMSINIT	GS	##### GROUP START INIT	3R3	4	0	4,665,465	84:0
97	98	268	07:00:45.400	125FA11A	NIMSINIT	GE	##### GROUP END INIT	3R3	4	0	4,665,465	84:0
98	**98**	**268**	**07:01:18.733**	**17ENEUR20H01-**	**DESELC**	**300EA**	**EUROPA DISTANT MAPPING**	**3R3**	**4**	**0**	**: :**	
99	98	268	07:01:18.733	117EA105A106A4B	**7STRP**	**0.0052,0.0,0,0,0**	**Slew =12.01**	3R3	4	0	4,665,466	43:0
100	98	268	07:01:46.066	127FA	NIMSTAB	GS	%%%%% GROUP START TAB	3R3	4	0	4,665,466	84:0
101	**98**	**268**	**07:01:46.733**	**127FA4A**	**37ETB**	**07,C7,31,BD,C8,0**	**Loads wavelength edit table**	**3R3**	**4**	**0**	**4,665,466**	**85:0**
102	98	268	07:01:54.733	127FA11A	NIMSTAB	GE	%%%%% GROUP END TAB	3R3	4	0	4,665,467	06:0
103	**98**	**268**	**07:02:14.066**	**17ENEUR20H01-**	**NIMPBK**	**301EZ**	**EUROPA DISTANT MAPPING**	**3R3**	**4**	**0**	**: :**	
104	98	268	07:02:19.400	117EA105A106A4C	**7STRP**	**-0.0052,0.0,0,0,**	**Slew =,0.02**	3R3	4	0	4,665,467	43:0
105	**98**	**268**	**07:02:24.847**	**17ENEUR20H01-**		**-----STOP-------**		**3R3**	**4**	**0**	**: :**	
106	**98**	**268**	**07:06:49.400**	**17ENEUR20H01-**	**DESELC**	**300EZ**	**EUROPA DISTANT MAPPING**	**3R3**	**4**	**0**	**: :**	
107	98	268	07:06:50.733	117EA11A	**CSMOS**	GE	***** GROUP END CSMOS	3R3	4	0	4,665,471	86:0
108	98	268	07:06:51.400	175EA6A	6TMREC	**NRC**	NO RECORD Record Mode Change	3R3	4	0	4,665,471	87:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
109	98	268	07:06:51.400	175EA422A6B	6DMSC	RDY,0	DMS Control Tape stop	3R3	4	0	4,665,471:87:0
110	98	268	07:06:51.400		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *2176.23 +/-	3R3	4	0	4,665,471:87:0
111	98	268	07:06:52.600		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *2176.29 +/-	3R3	4	0	4,665,471:88:8
112	98	268	07:06:53.400	165CA4A	7SCAN	NORM,276.586998,	Check S/P Position	3R3	4	0	4,665,471:90:0
113	98	268	07:10:55.400	165CA4B	7VECT		Inert vect update UTC	3R3	4	0	4,665,475:89:0
114	98	268	07:33:35.400	488AA6B	6TMSED	NORM,GL7	Sci, Eng, and D/L Chan	3R3	4	0	4,665,498:36:0
115	98	268	07:55:22.733	165CA4C	7VECT		Inert vect update UTC	3R3	4	0	4,665,519:86:0
116	98	268	08:15:57.400	488AA6C	6TMSED	FILL,GL7	Sci, Eng, and D/L Chan	3R3	4	0	4,665,540:27:0
117	98	268	08:18:23.400	488AA6D	6TMSED	FILL,GL8	Sci, Eng, and D/L Chan	3R3	4	0	4,665,542:64:0
118	98	268	08:20:03.400	488AA6E	6TMSED	NORM,GL8	Sci, Eng, and D/L Chan	3R3	4	0	4,665,544:32:0
119	98	268	08:25:59.400	488AB6A	6TMSED	FILL,GL8	Sci, Eng, and D/L Chan	3R3	4	0	4,665,550:20:0
120	98	268	08:39:54.733	165CH4A	7SCAN	NORM,277.734997,	Check S/P Position	3R3	4	0	4,665,563:90:0
121	98	268	08:40:54.733	165CH4B	7VECT		Inert vect update UTC	3R3	4	0	4,665,564:89:0
122	98	268	08:54:24.066	488AB6B	6TMSED	NORM,GL8	Sci, Eng, and D/L Chan	3R3	4	0	4,665,578:29:0
123	98	268	09:25:22.066	165CH4C	7VECT		Inert vect update UTC	3R3	4	0	4,665,608:86:0
124	98	268	10:00:00.066	488AB6C	6TMSED	NORM,EL8	Sci, Eng, and D/L Chan	3R3	4	0	4,665,643:18:0
125	98	268	10:00:00.733	282ND432A431A6A	6RCDSL	DDSNCG,PLSDSL,EP	Record Deselect (DDS o	3R3	4	0	4,665,643:19:0
126	98	268	10:00:01.400	282ND432A6A	6RTSL1		R/T Select of DDS and	3R3	4	0	4,665,643:20:0
127	98	268	10:09:54.066	165CB4A	7SCAN	NORM,278.774998,	Check S/P Position	3R3	4	0	4,665,652:90:0
128	98	268	10:10:54.066	165CB4B	7VECT		Inert vect update UTC	3R3	4	0	4,665,653:89:0
129	**98**	**268**	**10:27:40.002**	**17NNWHTOVL01-**		**-----START------**		**3R3**	**4**	**0**	**: :**
130	**98**	**268**	**10:32:27.400**	**20EB5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**3R3**	**4**	**0**	**4,665,675:27:0**
131	**98**	**268**	**10:32:28.733**	**20EB5B**	**37MRL**		**Memory Realocate (software operates from R**	**3R3**	**4**	**0**	**4,665,675:29:0**
132	**98**	**268**	**10:32:30.066**	**20EB6A**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**3R3**	**4**	**0**	**4,665,675:31:0**
133	**98**	**268**	**10:32:40.066**	**20EB6B**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**3R3**	**4**	**0**	**4,665,675:46:0**
134	**98**	**268**	**10:32:50.066**	**20EB5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**4,665,675:61:0**
135	**98**	**268**	**10:33:10.066**	**20EB5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**4,665,676:00:0**
136	**98**	**268**	**10:33:25.400**	**20EB4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**4,665,676:23:0**
137	**98**	**268**	**10:35:06.733**	**125EB4A**	**37IST**	**0,2,0,OFF,0,1,1**	**Gain State 4**	**4R0**	**4**	**0**	**4,665,677:84:0**
138	98	268	10:35:06.733	125EB	NIMSINIT	GS	##### GROUP START INIT	4R0	4	0	4,665,677:84:0
139	**98**	**268**	**10:36:07.400**	**125EB4B**	**37MB**	**0,0,0,0,0,0**	**Selects mirror (spatial) edit table**	**4R0**	**4**	**0**	**4,665,678:84:0**
140	98	268	10:36:07.400	125EB11A	NIMSINIT	GE	##### GROUP END INIT	4R0	4	0	4,665,678:84:0
141	**98**	**268**	**10:37:46.668**	**17JNWHTOVL01-**		**-----START------**		**4R0**	**4**	**0**	**: :**
142	**98**	**268**	**10:37:46.668**	**17NNWHTOVL01-**		**-----STOP-------**		**4R0**	**4**	**0**	**: :**
143	**98**	**268**	**10:38:08.733**	**127EB4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**4R3**	**4**	**0**	**4,665,680:84:0**
144	98	268	10:38:08.733	127EB	NIMSTAB	GS	%%%%% GROUP START TAB	4R3	4	0	4,665,680:84:0
145	**98**	**268**	**10:38:09.400**	**127EB4B**	**37ETB**		**Loads wavelength edit table**	**4R3**	**4**	**0**	**4,665,680:85:0**
146	98	268	10:38:17.400	127EB11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	4,665,681:06:0
147	98	268	10:39:11.400	488AB6D	6TMSED	NORM,EL7	Sci, Eng, and D/L Chan	4R3	4	0	4,665,681:87:0
148	98	268	10:39:13.400	165EB4A	7SCAN	NORM,264.114998,	Check S/P Position	4R3	4	0	4,665,681:90:0
149	98	268	10:42:04.733		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 2176.29 +/-	4R3	4	0	4,665,684:74:0
150	98	268	10:42:04.733	175EB422A6A	6DMSC	R7,1	DMS Control Tape runup 7.68kbp	4R3	4	0	4,665,684:74:0
151	98	268	10:42:06.733	117EB	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	4,665,684:77:0
152	98	268	10:42:11.400		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 2176.29 +/-	4R3	4	0	4,665,684:84:0
153	98	268	10:42:12.733	175EB176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	4R3	4	0	4,665,684:86:0
154	98	268	10:42:12.800		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *2176.41 +/-	4R3	4	0	4,665,684:86:1
155	98	268	10:42:12.800		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 2176.41 +/-	4R3	4	0	4,665,684:86:1
156	98	268	10:42:14.733	165EB4B	7VECT		Inert vect update UTC	4R3	4	0	4,665,684:89:0
157	98	268	10:42:16.066	117EB105A106A4A	**7STRP**	**-0.024005,0.0,0,**	**Slew =,0.04**	4R3	4	0	4,665,685:00:0
158	**98**	**268**	**10:42:16.066**	**17JNWHTOVL01-**	**NIMPBK**	**301EB**	**JUPITER WHITE OVAL OBS**	**4R3**	**4**	**0**	**: :**
159	**98**	**268**	**10:50:55.335**	**17JNWHTOVL01-**		**-----STOP-------**		**4R3**	**4**	**0**	**: :**
160	**98**	**268**	**10:52:11.400**	**17JNWHTOVL01-**	**DESELC**	**300EB**	**JUPITER WHITE OVAL OBS**	**4R3**	**4**	**0**	**: :**
161	98	268	10:52:13.400		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *2317.17 +/-	4R3	4	0	4,665,694:77:0
162	98	268	10:52:13.400	175EB6A	6TMREC	**NRC**	NO RECORD Record Mode Change	4R3	4	0	4,665,694:77:0
163	98	268	10:52:13.400	175EB422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,665,694:77:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
164	98	268	10:52:14.600		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *2317.23 +/-	4R3	4	0	4,665,694:78:8
165	98	268	10:52:19.400	117EB11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	4,665,694:86:0
166	98	268	10:52:22.066	165CC4A	7SCAN	NORM,278.321999,	Check S/P Position	4R3	4	0	4,665,694:90:0
167	98	268	10:55:23.400	165CC4B	7VECT		Inert vect update UTC	4R3	4	0	4,665,697:89:0
168	98	268	11:23:42.733	165CD4A	7SCAN	NORM,278.237,-24	Check S/P Position	4R3	4	0	4,665,725:90:0
169	98	268	11:24:42.733	165CD4B	7VECT		Inert vect update UTC	4R3	4	0	4,665,726:89:0
170	98	268	11:34:39.400	488AB6E	6TMSED	NORM,EL6	Sci, Eng, and D/L Chan	4R3	4	0	4,665,736:74:0
171	**98**	**268**	**11:41:28.668**	**17NNWHTOVL02-**		**-----START------**		**4R3**	**4**	**0**	**: :**
172	**98**	**268**	**11:50:18.733**	**20EC5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**4R3**	**4**	**0**	**4,665,752:27:0**
173	**98**	**268**	**11:50:20.066**	**20EC5B**	**37MRL**		**Memory Realocate (software operates from R**	**4R3**	**4**	**0**	**4,665,752:29:0**
174	**98**	**268**	**11:50:21.400**	**20EC6A**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**4R3**	**4**	**0**	**4,665,752:31:0**
175	**98**	**268**	**11:50:31.400**	**20EC6B**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**4R3**	**4**	**0**	**4,665,752:46:0**
176	**98**	**268**	**11:50:41.400**	**20EC5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**4,665,752:61:0**
177	**98**	**268**	**11:51:01.400**	**20EC5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**4,665,753:00:0**
178	**98**	**268**	**11:51:16.733**	**20EC4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**4,665,753:23:0**
179	**98**	**268**	**11:51:35.335**	**17NNWHTOVL02-**		**-----STOP-------**		**2R0**	**4**	**0**	**: :**
180	**98**	**268**	**11:51:35.335**	**17JNWHTOVL02-**		**-----START------**		**2R0**	**4**	**0**	**: :**
181	98	268	11:53:02.066	165EC4A	7SCAN	NORM,265.114998,	Check S/P Position	2R0	4	0	4,665,754:90:0
182	98	268	11:53:58.733	125EC	NIMSINIT	GS	##### GROUP START INIT	2R0	4	0	4,665,755:84:0
183	**98**	**268**	**11:53:58.733**	**125EC4A**	**37IST**	**0,2,0,OFF,0,1,1**	**Gain State 4**	**4R0**	**4**	**0**	**4,665,755:84:0**
184	**98**	**268**	**11:54:59.400**	**125EC4B**	**37MB**	**0,0,0,0,0,0**	**Selects mirror (spatial) edit table**	**4R0**	**4**	**0**	**4,665,756:84:0**
185	98	268	11:54:59.400	125EC11A	NIMSINIT	GE	##### GROUP END INIT	4R0	4	0	4,665,756:84:0
186	98	268	11:56:00.066	127EC	NIMSTAB	GS	%%%%% GROUP START TAB	4R0	4	0	4,665,757:84:0
187	**98**	**268**	**11:56:00.066**	**127EC4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**4R3**	**4**	**0**	**4,665,757:84:0**
188	**98**	**268**	**11:56:00.733**	**127EC4B**	**37ETB**		**Loads wavelength edit table**	**4R3**	**4**	**0**	**4,665,757:85:0**
189	98	268	11:56:08.733	127EC11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	4,665,758:06:0
190	98	268	11:56:54.066	175EC422A6A	6DMSC	R7,1	DMS Control Tape runup 7.68kbp	4R3	4	0	4,665,758:74:0
191	98	268	11:56:54.066		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 2317.23 +/-	4R3	4	0	4,665,758:74:0
192	98	268	11:56:56.066	117EC	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	4,665,758:77:0
193	98	268	11:57:00.733		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 2317.23 +/-	4R3	4	0	4,665,758:84:0
194	98	268	11:57:02.066	175EC176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	4R3	4	0	4,665,758:86:0
195	98	268	11:57:02.133		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 2317.35 +/-	4R3	4	0	4,665,758:86:1
196	98	268	11:57:02.133		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *2317.35 +/-	4R3	4	0	4,665,758:86:1
197	98	268	11:57:04.066	165EC4B	7VECT		Inert vect update UTC	4R3	4	0	4,665,758:89:0
198	**98**	**268**	**11:57:05.400**	**17JNWHTOVL02-**	**NIMPBK**	**301EC**	**JUPITER WHITE OVAL OBS**	**4R3**	**4**	**0**	**: :**
199	98	268	11:57:05.400	117EC105A106A4A	**7STRP**	**-0.024005,0.0,0,**	**Slew =,0.04**	4R3	4	0	4,665,759:00:0
200	**98**	**268**	**12:01:42.002**	**17NNJUPRTS02-**		**-----START------**		**4R3**	**4**	**0**	**: :**
201	**98**	**268**	**12:05:44.668**	**17JNWHTOVL02-**		**-----STOP-------**		**4R3**	**4**	**0**	**: :**
202	**98**	**268**	**12:07:00.733**	**17JNWHTOVL02-**	**DESELC**	**300EC**	**JUPITER WHITE OVAL OBS**	**4R3**	**4**	**0**	**: :**
203	98	268	12:07:02.733	175EC6A	6TMREC	**NRC**	NO RECORD Record Mode Change	4R3	4	0	4,665,768:77:0
204	98	268	12:07:02.733	175EC422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,665,768:77:0
205	98	268	12:07:02.733		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *2458.12 +/-	4R3	4	0	4,665,768:77:0
206	98	268	12:07:03.933		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *2458.18 +/-	4R3	4	0	4,665,768:78:8
207	98	268	12:07:08.733	117EC11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	4,665,768:86:0
208	**98**	**268**	**12:10:32.066**	**20DB5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**4R3**	**4**	**0**	**4,665,772:27:0**
209	**98**	**268**	**12:10:33.400**	**20DB5B**	**37MRL**		**Memory Realocate (software operates from R**	**4R3**	**4**	**0**	**4,665,772:29:0**
210	**98**	**268**	**12:10:34.733**	**20DB6A**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**4R3**	**4**	**0**	**4,665,772:31:0**
211	**98**	**268**	**12:10:44.733**	**20DB6B**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**4R3**	**4**	**0**	**4,665,772:46:0**
212	**98**	**268**	**12:10:54.733**	**20DB5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**4,665,772:61:0**
213	**98**	**268**	**12:11:14.733**	**20DB5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**4,665,773:00:0**
214	**98**	**268**	**12:11:30.066**	**20DB4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**4,665,773:23:0**
215	**98**	**268**	**12:11:48.668**	**17NNJUPRTS02-**		**-----STOP-------**		**2R0**	**4**	**0**	**: :**
216	**98**	**268**	**12:11:48.668**	**17JNJUPRTS02***		**-----START------**		**2R0**	**4**	**0**	**: :**
217	98	268	12:13:11.400	125DB	NIMSINIT	GS	##### GROUP START INIT	2R0	4	0	4,665,774:84:0
218	**98**	**268**	**12:13:11.400**	**125DB4A**	**37IST**	**0,2,0,OFF,0,1,0**	**Gain State 2**	**2R0**	**4**	**0**	**4,665,774:84:0**

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
219	98	268	12:13:15.400	165DB4A	7SCAN	NORM,261.393997,	Check S/P Position	2R0	4	0	4,665,774	90:0
220	**98**	**268**	**12:14:12.066**	**125DB4B**	**37MB**	**1B,1B,0,0,0,0**	**Selects mirror (spatial) edit table**	**2R0**	**4**	**0**	**4,665,775**	**84:0**
221	98	268	12:14:12.066	125DB11A	NIMSINIT	GE	##### GROUP END INIT	2R0	4	0	4,665,775	84:0
222	**98**	**268**	**12:16:13.400**	**127DB4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**4,665,777**	**84:0**
223	98	268	12:16:13.400	127DB	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	4,665,777	84:0
224	**98**	**268**	**12:16:14.066**	**127DB4B**	**37ETB**	**04,C4,35,FF,FF**	**Loads wavelength edit table**	**2R3**	**4**	**0**	**4,665,777**	**85:0**
225	98	268	12:16:22.066	127DB11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	4,665,778	06:0
226	**98**	**268**	**12:16:22.066**	**432DB6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**	**NIMS R/T SELECT**	**2R3**	**4**	**0**	**4,665,778**	**06:0**
227	98	268	12:17:09.400	117DB	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	4,665,778	77:0
228	98	268	12:17:17.400	165DB4B	7VECT		Inert vect update UTC	2R3	4	0	4,665,778	89:0
229	98	268	12:17:18.733	117DB105A106A4A	**7STRP**	**0.036016,0.0,0,0**	**Slew =,0.06**	2R3	4	0	4,665,779	00:0
230	**98**	**268**	**12:25:58.002**	**17JNJUPRTS02***		**-----STOP-------**		**2R3**	**4**	**0**	**:**	**:**
231	**98**	**268**	**12:25:58.002**	**17NNWHTOVL03-**		**-----START------**		**2R3**	**4**	**0**	**:**	**:**
232	**98**	**268**	**12:26:27.400**	**432DY6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**2R3**	**4**	**0**	**4,665,788**	**04:0**
233	98	268	12:27:22.066	117DB11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	4,665,788	86:0
234	**98**	**268**	**12:27:43.400**	**20ED5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**2R3**	**4**	**0**	**4,665,789**	**27:0**
235	**98**	**268**	**12:27:44.733**	**20ED5B**	**37MRL**		**Memory Realocate (software operates from R**	**2R3**	**4**	**0**	**4,665,789**	**29:0**
236	**98**	**268**	**12:27:46.066**	**20ED6A**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**2R3**	**4**	**0**	**4,665,789**	**31:0**
237	**98**	**268**	**12:27:56.066**	**20ED6B**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**2R3**	**4**	**0**	**4,665,789**	**46:0**
238	**98**	**268**	**12:27:59.335**	**17JNWHTOVL03-**		**-----START------**		**2R3**	**4**	**0**	**:**	**:**
239	**98**	**268**	**12:27:59.335**	**17NNWHTOVL03-**		**-----STOP-------**		**2R3**	**4**	**0**	**:**	**:**
240	**98**	**268**	**12:28:06.066**	**20ED5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**4,665,789**	**61:0**
241	98	268	12:28:25.400	165ED4A	7SCAN	NORM,265.092999,	Check S/P Position	260	4	0	4,665,789	90:0
242	**98**	**268**	**12:28:26.066**	**20ED5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**4,665,790**	**00:0**
243	**98**	**268**	**12:28:41.400**	**20ED4A**	**37IST**	**1,2,0,OFF,0,1,0**	**Chopper ON, Sync, Chopper (Ref)Gain State**	**2R0**	**4**	**0**	**4,665,790**	**23:0**
244	**98**	**268**	**12:31:23.400**	**127ED4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**4,665,792**	**84:0**
245	98	268	12:31:23.400	127ED	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	4,665,792	84:0
246	**98**	**268**	**12:31:24.066**	**127ED4B**	**37ETB**		**Loads wavelength edit table**	**2R3**	**4**	**0**	**4,665,792**	**85:0**
247	98	268	12:31:32.066	127ED11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	4,665,793	06:0
248	98	268	12:32:17.400	175ED422A6A	6DMSC	R7,1	DMS Control Tape runup 7.68kbp	2R3	4	0	4,665,793	74:0
249	98	268	12:32:17.400		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 2458.18 +/-	2R3	4	0	4,665,793	74:0
250	98	268	12:32:19.400	117ED	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	4,665,793	77:0
251	98	268	12:32:24.066		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 2458.18 +/-	2R3	4	0	4,665,793	84:0
252	98	268	12:32:25.400	175ED176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R3	4	0	4,665,793	86:0
253	98	268	12:32:25.466		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 2458.30 +/-	2R3	4	0	4,665,793	86:1
254	98	268	12:32:25.466		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *2458.30 +/-	2R3	4	0	4,665,793	86:1
255	98	268	12:32:27.400	165ED4B	7VECT		Inert vect update UTC	2R3	4	0	4,665,793	89:0
256	98	268	12:32:28.733	117ED105A106A4A	**7STRP**	**-0.024005,0.0,0,**	**Slew =,0.04**	2R3	4	0	4,665,794	00:0
257	**98**	**268**	**12:32:28.733**	**17JNWHTOVL03-**	**NIMPBK**	**301ED**	**JUPITER WHITE OVAL OBS**	**2R3**	**4**	**0**	**:**	**:**
258	**98**	**268**	**12:42:08.668**	**17JNWHTOVL03-**		**-----STOP-------**		**2R3**	**4**	**0**	**:**	**:**
259	**98**	**268**	**12:42:24.066**	**17JNWHTOVL03-**	**DESELC**	**300ED**	**JUPITER WHITE OVAL OBS**	**2R3**	**4**	**0**	**:**	**:**
260	98	268	12:42:26.066	175ED422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,665,803	77:0
261	98	268	12:42:26.066		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *2599.07 +/-	2R3	4	0	4,665,803	77:0
262	98	268	12:42:26.066	175ED6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	4,665,803	77:0
263	98	268	12:42:27.266		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *2599.13 +/-	2R3	4	0	4,665,803	78:8
264	98	268	12:42:32.066	117ED11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	4,665,803	86:0
265	98	268	12:43:04.733	165IA4A	7SCAN	NORM,263.926998,	Check S/P Position	2R3	4	0	4,665,804	44:0
266	98	268	12:46:42.066	118IA	**SMOS**	GS		2R3	4	0	4,665,808	06:0
267	98	268	12:46:59.400		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 2599.13 +/-	2R3	4	0	4,665,808	32:0
268	98	268	12:46:59.400	175IA422A6A	6DMSC	R115,1	DMS Control	2R3	4	0	4,665,808	32:0
269	98	268	12:47:06.066		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 2599.13 +/-	2R3	4	0	4,665,808	42:0
270	98	268	12:47:06.733	165IA4B	7VECT		Inert vect update UTC	2R3	4	0	4,665,808	43:0
271	98	268	12:47:09.400	175IA176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,665,808	47:0
272	98	268	12:47:10.066		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *2605.43 +/-	2R3	4	0	4,665,808	48:0
273	98	268	12:47:10.066		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 2605.43 +/-	2R3	4	0	4,665,808	48:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
274	98	268	12:47:10.733	118IA110A111A4A	7STRP	0.00731,0.0,46,0	Slew =,3.71	2R3	4	0	4,665,808	49:0
275	98	268	12:47:41.400	118IA110A111A4B	7STRP	-0.014621,0.0,0,	Slew =,7.31	2R3	4	0	4,665,809	04:0
276	98	268	12:47:56.733	118IA110A111A4C	7STRP	0.00731,0.0,46,0	Slew =,3.71	2R3	4	0	4,665,809	27:0
277	98	268	12:48:27.400	118IA11A	**SMOS**	GE		2R3	4	0	4,665,809	73:0
278	98	268	12:48:38.733	165AB4A	7SCAN	NORM,263.939999,	Check S/P Position	2R3	4	0	4,665,809	90:0
279	98	268	12:48:39.400		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *2919.49 +/-	2R3	4	0	4,665,810	00:0
280	98	268	12:48:39.400	175IA422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,665,810	00:0
281	98	268	12:48:40.600		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *2920.49 +/-	2R3	4	0	4,665,810	01:8
282	98	268	12:49:30.733	117AB	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	4,665,810	77:0
283	98	268	12:49:38.733	165AB4B	7VECT		Inert vect update UTC	2R3	4	0	4,665,810	89:0
284	98	268	12:49:40.066	117AB105A106A4A	7STRP	0.0,0.0,0,0,0,0,	Slew =,0.08	2R3	4	0	4,665,811	00:0
285	98	268	12:51:36.733	117AB105A106A4B	7STRP	0.008,0.0,0,0,0,	Slew =12.01	2R3	4	0	4,665,812	84:0
286	98	268	12:51:42.066	117AB105A106A4C	7STRP	0.0,0.0,0,0,0,0,	Slew =,0.08	2R3	4	0	4,665,813	01:0
287	98	268	12:53:38.733	117AB105A106A4D	7STRP	0.008,0.0,0,0,0,	Slew =12.01	2R3	4	0	4,665,814	85:0
288	98	268	12:53:44.066	117AB105A106A4E	7STRP	0.0,0.0,0,0,0,0,	Slew =,0.08	2R3	4	0	4,665,815	02:0
289	98	268	12:55:40.733	117AB11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	4,665,816	86:0
290	98	268	12:55:43.400	165IB4A	7SCAN	NORM,279.125999,	Check S/P Position	2R3	4	0	4,665,816	90:0
291	98	268	12:57:18.066	175IB422A6A	6DMSC	R806,1	DMS Control	2R3	4	0	4,665,818	50:0
292	98	268	12:57:18.066		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 2920.49 +/-	2R3	4	0	4,665,818	50:0
293	98	268	12:57:24.733		DMS:	: *RUNUP	R806, TRACK 1, FWD, TIC 2920.49 +/-	2R3	4	0	4,665,818	60:0
294	98	268	12:57:26.733	165IB4B	7VECT		Inert vect update UTC	2R3	4	0	4,665,818	63:0
295	98	268	12:57:29.400	175IB176A6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	2R3	4	0	4,665,818	67:0
296	98	268	12:57:30.000		DMS:	: *AT_SPD	R806, TRACK 1, FWD, TIC 2986.49 +/-	2R3	4	0	4,665,818	67:9
297	98	268	12:57:30.000		DMS:	**: *RECORD**	R806, TRACK 1, FWD, TIC *2986.49 +/-	2R3	4	0	4,665,818	67:9
298	98	268	12:57:36.733	175IB422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,665,818	78:0
299	98	268	12:57:36.733		DMS:	**: *RUNDOWN**	R806, TRACK 1, FWD, TIC *3152.19 +/-	2R3	4	0	4,665,818	78:0
300	98	268	12:57:39.466		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *3163.69 +/-	2R3	4	0	4,665,818	82:1
301	98	268	12:57:44.733	165CE4A	7SCAN	NORM,279.175999,	Check S/P Position	2R3	4	0	4,665,818	90:0
302	98	268	13:00:46.066	165CE4B	7VECT		Inert vect update UTC	2R3	4	0	4,665,821	89:0
303	98	268	13:57:38.733	165IC4A	7SCAN	NORM,264.692997,	Check S/P Position	2R3	4	0	4,665,878	21:0
304	98	268	13:58:29.400	118IC	**SMOS**	GS		2R3	4	0	4,665,879	06:0
305	98	268	13:58:31.400	175IC422A6A	6DMSC	R115,1	DMS Control	2R3	4	0	4,665,879	09:0
306	98	268	13:58:31.400		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 3163.69 +/-	2R3	4	0	4,665,879	09:0
307	98	268	13:58:38.066		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 3163.69 +/-	2R3	4	0	4,665,879	19:0
308	98	268	13:58:38.733	165IC4B	7VECT		Inert vect update UTC	2R3	4	0	4,665,879	20:0
309	98	268	13:58:41.400	175IC176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,665,879	24:0
310	98	268	13:58:42.066		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 3169.99 +/-	2R3	4	0	4,665,879	25:0
311	98	268	13:58:42.066		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *3169.99 +/-	2R3	4	0	4,665,879	25:0
312	98	268	13:58:42.733	118IC110A111A4A	7STRP	0.00731,0.0,46,0	Slew =,3.71	2R3	4	0	4,665,879	26:0
313	98	268	13:59:13.400	118IC11A	**SMOS**	GE		2R3	4	0	4,665,879	72:0
314	98	268	13:59:26.066		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *3324.68 +/-	2R3	4	0	4,665,880	00:0
315	98	268	13:59:26.066	175IC422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,665,880	00:0
316	98	268	13:59:27.266		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *3325.68 +/-	2R3	4	0	4,665,880	01:8
317	98	268	14:02:27.400	165AC4A	7SCAN	NORM,264.845997,	Check S/P Position	2R3	4	0	4,665,882	90:0
318	98	268	14:03:19.400	117AC	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	4,665,883	77:0
319	98	268	14:03:27.400	165AC4B	7VECT		Inert vect update UTC	2R3	4	0	4,665,883	89:0
320	98	268	14:03:28.733	117AC105A106A4A	7STRP	0.0,0.0,0,0,0,0,	Slew =,0.08	2R3	4	0	4,665,884	00:0
321	98	268	14:05:25.400	117AC105A106A4B	7STRP	0.006,0.0,0,0,0,	Slew =12.01	2R3	4	0	4,665,885	84:0
322	98	268	14:05:30.733	117AC105A106A4C	7STRP	0.0,0.0,0,0,0,0,	Slew =,0.08	2R3	4	0	4,665,886	01:0
323	98	268	14:07:27.400	117AC105A106A4D	7STRP	0.006,0.0,0,0,0,	Slew =12.01	2R3	4	0	4,665,887	85:0
324	98	268	14:07:32.733	117AC105A106A4E	7STRP	0.0,0.0,0,0,0,0,	Slew =,0.08	2R3	4	0	4,665,888	02:0
325	98	268	14:09:29.400	117AC11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	4,665,889	86:0
326	**98**	**268**	**14:10:06.668**	**17NNJUPRTS03-**		**-----START------**		**2R3**	**4**	**0**	: :	
327	**98**	**268**	**14:18:56.733**	**20DC5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**2R3**	**4**	**0**	**4,665,899**	**27:0**
328	**98**	**268**	**14:18:58.066**	**20DC5B**	**37MRL**		**Memory Realocate (software operates from R**	**2R3**	**4**	**0**	**4,665,899**	**29:0**

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
329	**98**	**268**	**14:18:59.400**	**20DC6A**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**2R3**	**4**	**0**	**4,665,899:31:0**	
330	**98**	**268**	**14:19:09.400**	**20DC6B**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**2R3**	**4**	**0**	**4,665,899:46:0**	
331	**98**	**268**	**14:19:19.400**	**20DC5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**4,665,899:61:0**	
332	**98**	**268**	**14:19:39.400**	**20DC5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**4,665,900:00:0**	
333	**98**	**268**	**14:19:54.733**	**20DC4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**4,665,900:23:0**	
334	**98**	**268**	**14:20:13.335**	**17NNJUPRTS03-**		**-----STOP-------**		**2R0**	**4**	**0**	**: :**	
335	**98**	**268**	**14:20:13.335**	**17JNJUPRTS03***		**-----START------**		**2R0**	**4**	**0**	**: :**	
336	98	268	14:20:39.400	165DC4A	7SCAN	NORM,268.619999,	Check S/P Position	2R0	4	0	4,665,900:90:0	
337	98	268	14:21:36.066	125DC	NIMSINIT	GS	##### GROUP START INIT	2R0	4	0	4,665,901:84:0	
338	**98**	**268**	**14:21:36.066**	**125DC4A**	**37IST**	**0,2,0,OFF,0,1,0**	**Gain State 2**	**2R0**	**4**	**0**	**4,665,901:84:0**	
339	98	268	14:22:36.733	125DC11A	NIMSINIT	GE	##### GROUP END INIT	2R0	4	0	4,665,902:84:0	
340	**98**	**268**	**14:22:36.733**	**125DC4B**	**37MB**	**1B,1B,0,0,0,0**	**Selects mirror (spatial) edit table**	**2R0**	**4**	**0**	**4,665,902:84:0**	
341	98	268	14:24:33.400	117DC	**CSMOS**	GS	***** GROUP START CSMOS	2R0	4	0	4,665,904:77:0	
342	98	268	14:24:38.066	127DC	NIMSTAB	GS	%%%%% GROUP START TAB	2R0	4	0	4,665,904:84:0	
343	**98**	**268**	**14:24:38.066**	**127DC4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**4,665,904:84:0**	
344	**98**	**268**	**14:24:38.733**	**127DC4B**	**37ETB**	**04,C4,35,FF,FF**	**Loads wavelength edit table**	**2R3**	**4**	**0**	**4,665,904:85:0**	
345	98	268	14:24:41.400	165DC4B	7VECT		Inert vect update UTC	2R3	4	0	4,665,904:89:0	
346	98	268	14:24:42.733	117DC105A106A4A	**7STRP**	**-0.011501,0.0,0,**	**Slew =,0.06**	2R3	4	0	4,665,905:00:0	
347	**98**	**268**	**14:24:46.733**	**432DC6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**	**NIMS R/T SELECT**	**2R3**	**4**	**0**	**4,665,905:06:0**	
348	98	268	14:24:46.733	127DC11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	4,665,905:06:0	
349	98	268	14:27:56.733	117DC105A106A4B	**7STRP**	**0.012001,-0.008,**	**Slew =12.01**	2R3	4	0	4,665,908:18:0	
350	98	268	14:28:05.400	117DC105A106A4C	**7STRP**	**-0.011501,0.0,0,**	**Slew =,0.06**	2R3	4	0	4,665,908:31:0	
351	98	268	14:31:19.400	117DC105A106A4D	**7STRP**	**0.012001,-0.008,**	**Slew =12.01**	2R3	4	0	4,665,911:49:0	
352	98	268	14:31:28.066	117DC105A106A4E	**7STRP**	**-0.011501,0.0,0,**	**Slew =,0.06**	2R3	4	0	4,665,911:62:0	
353	98	268	14:34:42.066	117DC11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	4,665,914:80:0	
354	**98**	**268**	**14:34:52.066**	**432DX6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**2R3**	**4**	**0**	**4,665,915:04:0**	
355	**98**	**268**	**14:35:23.335**	**17JNJUPRTS03***		**-----STOP-------**		**2R3**	**4**	**0**	**: :**	
356	98	268	15:01:06.066	165CF4A	7SCAN	NORM,279.169998,	Check S/P Position	2R3	4	0	4,665,940:90:0	
357	98	268	15:05:08.066	165CF4B	7VECT		Inert vect update UTC	2R3	4	0	4,665,944:89:0	
358	98	268	16:16:15.400	488AC6A	6TMSED	NORM,EL5	Sci, Eng, and D/L Chan	2R3	4	0	4,666,015:29:0	
359	98	268	17:50:07.400	488AC6B	6TMSED	NORM,EL4	Sci, Eng, and D/L Chan	2R3	4	0	4,666,108:14:0	
360	98	268	18:04:16.733	165ID4A	7SCAN	NORM,271.887997,	Check S/P Position	2R3	4	0	4,666,122:14:0	
361	98	268	18:07:13.400	118ID	**SMOS**	GS		2R3	4	0	4,666,125:06:0	
362	98	268	18:07:38.066	165ID4B	7VECT		Inert vect update UTC	2R3	4	0	4,666,125:43:0	
363	98	268	18:07:46.066		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 3325.68 +/-	2R3	4	0	4,666,125:55:0	
364	98	268	18:07:46.066	175ID422A6A	6DMSC	R115,1	DMS Control	2R3	4	0	4,666,125:55:0	
365	98	268	18:07:52.733		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 3325.68 +/-	2R3	4	0	4,666,125:65:0	
366	98	268	18:07:56.066	175ID176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,666,125:70:0	
367	98	268	18:07:56.733	118ID110A111A4A	7STRP	0.00772,0.0,182,	Slew =,3.51	2R3	4	0	4,666,125:71:0	
368	98	268	18:07:56.733		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *3331.98 +/-	2R3	4	0	4,666,125:71:0	
369	98	268	18:07:56.733		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 3331.98 +/-	2R3	4	0	4,666,125:71:0	
370	98	268	18:08:03.400	175ID422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,666,125:81:0	
371	98	268	18:08:03.400		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *3355.42 +/-	2R3	4	0	4,666,125:81:0	
372	98	268	18:08:04.600		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *3356.42 +/-	2R3	4	0	4,666,125:82:8	
373	98	268	18:08:46.733	175JD422A6A	6DMSC	R115,1	DMS Control	2R3	4	0	4,666,126:55:0	
374	98	268	18:08:46.733		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 3356.42 +/-	2R3	4	0	4,666,126:55:0	
375	98	268	18:08:53.400		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 3356.42 +/-	2R3	4	0	4,666,126:65:0	
376	98	268	18:08:56.733	175JD176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,666,126:70:0	
377	98	268	18:08:57.400		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 3362.72 +/-	2R3	4	0	4,666,126:71:0	
378	98	268	18:08:57.400		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *3362.72 +/-	2R3	4	0	4,666,126:71:0	
379	98	268	18:08:57.400	118ID11A	**SMOS**	GE		2R3	4	0	4,666,126:71:0	
380	98	268	18:09:04.066	175JD422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,666,126:81:0	
381	98	268	18:09:04.066		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *3386.15 +/-	2R3	4	0	4,666,126:81:0	
382	98	268	18:09:05.266		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *3387.15 +/-	2R3	4	0	4,666,126:82:8	
383	98	268	18:09:06.733	165IE4A	7SCAN	NORM,289.198997,	Check S/P Position	2R3	4	0	4,666,126:85:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
384	98	268	18:11:16.066	118IE	**SMOS**	GS		2R3	4	0	4,666,129:06:0	
385	98	268	18:11:40.733	165IE4B	7VECT		Inert vect update UTC	2R3	4	0	4,666,129:43:0	
386	98	268	18:11:48.733		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 3387.15 +/-	2R3	4	0	4,666,129:55:0	
387	98	268	18:11:48.733	175IE422A6A	6DMSC	R115,1	DMS Control	2R3	4	0	4,666,129:55:0	
388	98	268	18:11:55.400		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 3387.15 +/-	2R3	4	0	4,666,129:65:0	
389	98	268	18:11:58.733	175IE176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,666,129:70:0	
390	98	268	18:11:59.400		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 3393.45 +/-	2R3	4	0	4,666,129:71:0	
391	98	268	18:11:59.400		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *3393.45 +/-	2R3	4	0	4,666,129:71:0	
392	98	268	18:11:59.400	118IE110A111A4A	7STRP	0.00731,0.0005,1	Slew =,3.51	2R3	4	0	4,666,129:71:0	
393	98	268	18:12:06.066	175IE422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,666,129:81:0	
394	98	268	18:12:06.066		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *3416.89 +/-	2R3	4	0	4,666,129:81:0	
395	98	268	18:12:07.266		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *3417.89 +/-	2R3	4	0	4,666,129:82:8	
396	98	268	18:12:49.400	175JE422A6A	6DMSC	R115,1	DMS Control	2R3	4	0	4,666,130:55:0	
397	98	268	18:12:49.400		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 3417.89 +/-	2R3	4	0	4,666,130:55:0	
398	98	268	18:12:56.066		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 3417.89 +/-	2R3	4	0	4,666,130:65:0	
399	98	268	18:12:59.400	175JE176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,666,130:70:0	
400	98	268	18:13:00.066	118IE11A	**SMOS**	GE		2R3	4	0	4,666,130:71:0	
401	98	268	18:13:00.066		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 3424.19 +/-	2R3	4	0	4,666,130:71:0	
402	98	268	18:13:00.066		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *3424.19 +/-	2R3	4	0	4,666,130:71:0	
403	98	268	18:13:06.733		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *3447.63 +/-	2R3	4	0	4,666,130:81:0	
404	98	268	18:13:06.733	175JE422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,666,130:81:0	
405	98	268	18:13:07.933		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *3448.63 +/-	2R3	4	0	4,666,130:82:8	
406	98	268	18:13:12.733	165CG4A	7SCAN	NORM,251.196999,	Check S/P Position	2R3	4	0	4,666,130:90:0	
407	98	268	18:16:14.066	165CG4B	7VECT		Inert vect update UTC	2R3	4	0	4,666,133:89:0	
408	98	268	18:37:03.400	488AC6C	6TMSED	NORM,EL5	Sci, Eng, and D/L Chan	2R3	4	0	4,666,154:52:0	
409	98	268	18:38:58.066	165CG4C	7VECT		Inert vect update UTC	2R3	4	0	4,666,156:42:0	
410	98	268	19:01:42.066	165CG4D	7VECT		Inert vect update UTC	2R3	4	0	4,666,178:86:0	
411	98	268	19:02:31.400	488AC6D	6TMSED	FILL,EL5	Sci, Eng, and D/L Chan	2R3	4	0	4,666,179:69:0	
412	98	268	19:24:26.066	165CG4E	7VECT		Inert vect update UTC	2R3	4	0	4,666,201:39:0	
413	98	268	19:41:37.400	488AC6E	6TMSED	NORM,EL5	Sci, Eng, and D/L Chan	2R3	4	0	4,666,218:39:0	
414	98	268	20:16:34.733	192GB4A	**7CONE**	**17.4,0.0**	Check S/P Position	2R3	4	0	4,666,253:00:0	
415	98	268	20:19:36.733	176GB6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R3	4	0	4,666,256:00:0	
416	98	268	20:21:51.400	176GB6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	4,666,258:20:0	
417	98	268	20:21:53.400	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	4,666,258:23:0	
418	98	268	20:21:53.400		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 3448.63 +/-	2R3	4	0	4,666,258:23:0	
419	98	268	20:22:00.066		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 3448.63 +/-	2R3	4	0	4,666,258:33:0	
420	98	268	20:22:01.466		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC *3448.75 +/-	2R3	4	0	4,666,258:35:1	
421	98	268	20:22:03.400		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *3449.20 +/-	2R3	4	0	4,666,258:38:0	
422	98	268	20:22:14.733		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *3451.86 +/-	2R3	4	0	4,666,258:55:0	
423	98	268	20:22:14.733	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,666,258:55:0	
424	98	268	20:22:15.933		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *3451.92 +/-	2R3	4	0	4,666,258:56:8	
425	98	268	20:24:39.400	165GB4A	7SCAN	NORM,287.995998,	Check S/P Position	2R3	4	0	4,666,260:90:0	
426	98	268	20:27:42.066	176GC6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R3	4	0	4,666,264:00:0	
427	98	268	20:28:33.400	117GB	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	4,666,264:77:0	
428	98	268	20:28:42.733	117GB105A106A4A	7STRP	0.004,-0.050053,	Slew =0,0.7	2R3	4	0	4,666,265:00:0	
429	98	268	20:30:10.066	117GB105A106A4B	7STRP	-0.0023,0.050133	Slew =12.01	2R3	4	0	4,666,266:40:0	
430	98	268	20:30:21.400	117GB105A106A4C	7STRP	0.004,-0.050053,	Slew =0,0.7	2R3	4	0	4,666,266:57:0	
431	98	268	20:31:48.733	117GB105A106A4D	7STRP	-0.0023,0.050133	Slew =12.01	2R3	4	0	4,666,268:06:0	
432	98	268	20:32:00.066	117GB105A106A4E	7STRP	0.004,-0.050053,	Slew =0,0.7	2R3	4	0	4,666,268:23:0	
433	98	268	20:33:27.400	117GB105A106A4F	7STRP	-0.0023,0.050133	Slew =12.01	2R3	4	0	4,666,269:63:0	
434	98	268	20:33:38.733	117GB105A106A4G	7STRP	0.004,-0.050053,	Slew =0,0.7	2R3	4	0	4,666,269:80:0	
435	98	268	20:35:06.066	117GB105A106A4H	7STRP	-0.0023,0.050133	Slew =12.01	2R3	4	0	4,666,271:29:0	
436	98	268	20:35:17.400	117GB105A106A4I	7STRP	0.004,-0.050053,	Slew =0,0.7	2R3	4	0	4,666,271:46:0	
437	98	268	20:36:44.733	117GB105A106A4J	7STRP	-0.0023,0.050133	Slew =12.01	2R3	4	0	4,666,272:86:0	
438	98	268	20:36:56.066	117GB105A106A4K	7STRP	0.004,-0.050053,	Slew =0,0.7	2R3	4	0	4,666,273:12:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
439	98	268	20:38:23.400	117GB105A106A4L	7STRP	-0.0023,0.050133	Slew =12.01	2R3	4	0	4,666,274	52:0
440	98	268	20:38:34.733	117GB105A106A4M	7STRP	0.004,-0.050053,	Slew =0,0.7	2R3	4	0	4,666,274	69:0
441	98	268	20:40:02.066	117GB105A106A4N	7STRP	-0.0023,0.050133	Slew =12.01	2R3	4	0	4,666,276	18:0
442	98	268	20:40:13.400	117GB105A106A4O	7STRP	0.004,-0.050053,	Slew =0,0.7	2R3	4	0	4,666,276	35:0
443	98	268	20:40:16.733	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	4,666,276	40:0
444	98	268	20:40:16.733		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 3451.92 +/-	2R3	4	0	4,666,276	40:0
445	98	268	20:40:23.400		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 3451.92 +/-	2R3	4	0	4,666,276	50:0
446	98	268	20:40:24.800		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC *3452.04 +/-	2R3	4	0	4,666,276	52:1
447	98	268	20:40:42.066		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *3456.09 +/-	2R3	4	0	4,666,276	78:0
448	98	268	20:41:04.733		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *3461.40 +/-	2R3	4	0	4,666,277	21:0
449	98	268	20:41:04.733	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,666,277	21:0
450	98	268	20:41:05.933		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *3461.46 +/-	2R3	4	0	4,666,277	22:8
451	98	268	20:41:40.733	117GB105A106A4P	7STRP	-0.0023,0.050133	Slew =12.01	2R3	4	0	4,666,277	75:0
452	98	268	20:41:52.066	117GB105A106A4Q	7STRP	0.004,-0.050053,	Slew =0,0.7	2R3	4	0	4,666,278	01:0
453	98	268	20:43:19.400	117GB105A106A4R	7STRP	-0.0023,0.050133	Slew =12.01	2R3	4	0	4,666,279	41:0
454	98	268	20:43:30.733	117GB105A106A4S	7STRP	0.004,-0.050053,	Slew =0,0.7	2R3	4	0	4,666,279	58:0
455	98	268	20:44:58.066	117GB105A106A4T	7STRP	-0.0023,0.050133	Slew =12.01	2R3	4	0	4,666,281	07:0
456	98	268	20:45:09.400	117GB105A106A4U	7STRP	0.004,-0.050053,	Slew =0,0.7	2R3	4	0	4,666,281	24:0
457	98	268	20:46:36.733	117GB105A106A4V	7STRP	-0.0023,0.050133	Slew =12.01	2R3	4	0	4,666,282	64:0
458	98	268	20:46:48.066	117GB105A106A4W	7STRP	0.004,-0.050053,	Slew =0,0.7	2R3	4	0	4,666,282	81:0
459	98	268	20:48:15.400	117GB105A106A4X	7STRP	-0.0023,0.050133	Slew =12.01	2R3	4	0	4,666,284	30:0
460	98	268	20:48:26.733	117GB105A106A4Y	7STRP	0.004,-0.050053,	Slew =0,0.7	2R3	4	0	4,666,284	47:0
461	98	268	20:49:54.066	117GB105A106A4Z	7STRP	-0.0023,0.050133	Slew =12.01	2R3	4	0	4,666,285	87:0
462	98	268	20:50:05.400	117GB105A106A4AA	7STRP	0.004,-0.050053,	Slew =0,0.7	2R3	4	0	4,666,286	13:0
463	98	268	20:51:32.733	117GB105A106A4AB	7STRP	-0.0023,0.050133	Slew =12.01	2R3	4	0	4,666,287	53:0
464	98	268	20:51:44.066	117GB105A106A4AC	7STRP	0.004,-0.050053,	Slew =0,0.7	2R3	4	0	4,666,287	70:0
465	98	268	20:53:11.400	117GB105A106A4AD	7STRP	-0.0023,0.050133	Slew =12.01	2R3	4	0	4,666,289	19:0
466	98	268	20:53:18.733	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	4,666,289	30:0
467	98	268	20:53:18.733		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 3461.46 +/-	2R3	4	0	4,666,289	30:0
468	98	268	20:53:22.733	117GB105A106A4AE	7STRP	0.004,-0.050053,	Slew =0,0.7	2R3	4	0	4,666,289	36:0
469	98	268	20:53:25.400		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 3461.46 +/-	2R3	4	0	4,666,289	40:0
470	98	268	20:53:26.800		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC *3461.58 +/-	2R3	4	0	4,666,289	42:1
471	98	268	20:53:44.066		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *3465.62 +/-	2R3	4	0	4,666,289	68:0
472	98	268	20:54:06.733		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *3470.94 +/-	2R3	4	0	4,666,290	11:0
473	98	268	20:54:06.733	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,666,290	11:0
474	98	268	20:54:07.933		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *3471.00 +/-	2R3	4	0	4,666,290	12:8
475	98	268	20:54:50.066	117GB105A106A4AF	7STRP	-0.0023,0.050133	Slew =12.01	2R3	4	0	4,666,290	76:0
476	98	268	20:55:01.400	117GB105A106A4AG	7STRP	0.004,-0.050053,	Slew =0,0.7	2R3	4	0	4,666,291	02:0
477	98	268	20:56:28.733	117GB105A106A4AH	7STRP	-0.0023,0.050133	Slew =12.01	2R3	4	0	4,666,292	42:0
478	98	268	20:56:40.066	117GB105A106A4AI	7STRP	0.004,-0.050053,	Slew =0,0.7	2R3	4	0	4,666,292	59:0
479	98	268	20:58:07.400	117GB105A106A4AJ	7STRP	-0.0023,0.050133	Slew =12.01	2R3	4	0	4,666,294	08:0
480	98	268	20:58:18.733	117GB105A106A4AK	7STRP	0.004,-0.050053,	Slew =0,0.7	2R3	4	0	4,666,294	25:0
481	98	268	20:59:46.066	117GB105A106A4AL	7STRP	-0.0023,0.050133	Slew =12.01	2R3	4	0	4,666,295	65:0
482	98	268	20:59:57.400	117GB105A106A4AM	7STRP	0.004,-0.050053,	Slew =0,0.7	2R3	4	0	4,666,295	82:0
483	98	268	21:01:24.733	117GB105A106A4AN	7STRP	-0.0023,0.050133	Slew =12.01	2R3	4	0	4,666,297	31:0
484	98	268	21:01:36.066	117GB105A106A4AO	7STRP	0.004,-0.050053,	Slew =0,0.7	2R3	4	0	4,666,297	48:0
485	98	268	21:03:03.400	117GB105A106A4AP	7STRP	-0.0023,0.050133	Slew =12.01	2R3	4	0	4,666,298	88:0
486	98	268	21:03:14.733	117GB105A106A4AQ	7STRP	0.004,-0.050053,	Slew =0,0.7	2R3	4	0	4,666,299	14:0
487	98	268	21:04:42.066	117GB105A106A4AR	7STRP	-0.0023,0.050133	Slew =12.01	2R3	4	0	4,666,300	54:0
488	98	268	21:04:53.400	117GB105A106A4AS	7STRP	0.004,-0.050053,	Slew =0,0.7	2R3	4	0	4,666,300	71:0
489	98	268	21:06:20.733		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 3471.00 +/-	2R3	4	0	4,666,302	20:0
490	98	268	21:06:20.733	117GB105A106A4AT	7STRP	-0.0023,0.050133	Slew =12.01	2R3	4	0	4,666,302	20:0
491	98	268	21:06:20.733	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	4,666,302	20:0
492	98	268	21:06:27.400		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 3471.00 +/-	2R3	4	0	4,666,302	30:0
493	98	268	21:06:28.800		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC *3471.12 +/-	2R3	4	0	4,666,302	32:1

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
494	98	268	21:06:32.066	117GB105A106A4AU	7STRP	0.004,-0.050053,	Slew =0,0.7	2R3	4	0	4,666,302:37:0	
495	98	268	21:06:46.066		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *3475.16 +/-	2R3	4	0	4,666,302:58:0	
496	98	268	21:07:08.733		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *3480.48 +/-	2R3	4	0	4,666,303:01:0	
497	98	268	21:07:08.733	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,666,303:01:0	
498	98	268	21:07:09.933		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *3480.54 +/-	2R3	4	0	4,666,303:02:8	
499	98	268	21:07:59.400	117GB105A106A4AV	7STRP	-0.0023,0.050133	Slew =12.01	2R3	4	0	4,666,303:77:0	
500	98	268	21:08:10.733	117GB105A106A4AW	7STRP	0.004,-0.050053,	Slew =0,0.7	2R3	4	0	4,666,304:03:0	
501	98	268	21:09:38.066	117GB105A106A4AX	7STRP	-0.0023,0.050133	Slew =12.01	2R3	4	0	4,666,305:43:0	
502	98	268	21:09:49.400	117GB105A106A4AY	7STRP	0.004,-0.050053,	Slew =0,0.7	2R3	4	0	4,666,305:60:0	
503	98	268	21:11:16.733	117GB105A106A4AZ	7STRP	-0.0023,0.050133	Slew =12.01	2R3	4	0	4,666,307:09:0	
504	98	268	21:11:28.066	117GB105A106A4BA	7STRP	0.004,-0.050053,	Slew =0,0.7	2R3	4	0	4,666,307:26:0	
505	98	268	21:12:55.400	117GB105A106A4BB	7STRP	-0.0023,0.050133	Slew =12.01	2R3	4	0	4,666,308:66:0	
506	98	268	21:13:06.733	117GB105A106A4BC	7STRP	0.004,-0.050053,	Slew =0,0.7	2R3	4	0	4,666,308:83:0	
507	98	268	21:14:34.066	117GB105A106A4BD	7STRP	-0.0023,0.050133	Slew =12.01	2R3	4	0	4,666,310:32:0	
508	98	268	21:14:45.400	117GB105A106A4BE	7STRP	0.004,-0.050053,	Slew =0,0.7	2R3	4	0	4,666,310:49:0	
509	98	268	21:16:12.733	117GB105A106A4BF	7STRP	-0.0023,0.050133	Slew =12.01	2R3	4	0	4,666,311:89:0	
510	98	268	21:16:24.066	117GB105A106A4BG	7STRP	0.004,-0.050053,	Slew =0,0.7	2R3	4	0	4,666,312:15:0	
511	98	268	21:17:51.400	117GB105A106A4BH	7STRP	-0.0023,0.050133	Slew =12.01	2R3	4	0	4,666,313:55:0	
512	98	268	21:18:02.733	117GB105A106A4BI	7STRP	0.004,-0.050053,	Slew =0,0.7	2R3	4	0	4,666,313:72:0	
513	98	268	21:19:23.400	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	4,666,315:11:0	
514	98	268	21:19:23.400		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 3480.54 +/-	2R3	4	0	4,666,315:11:0	
515	98	268	21:19:30.066	117GB105A106A4BJ	7STRP	-0.0023,0.050133	Slew =12.01	2R3	4	0	4,666,315:21:0	
516	98	268	21:19:30.066		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 3480.54 +/-	2R3	4	0	4,666,315:21:0	
517	98	268	21:19:31.466		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC *3480.66 +/-	2R3	4	0	4,666,315:23:1	
518	98	268	21:19:41.400	117GB105A106A4BK	7STRP	0.004,-0.050053,	Slew =0,0.7	2R3	4	0	4,666,315:38:0	
519	98	268	21:19:48.066		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *3484.55 +/-	2R3	4	0	4,666,315:48:0	
520	98	268	21:20:10.733		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *3489.86 +/-	2R3	4	0	4,666,315:82:0	
521	98	268	21:20:10.733	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,666,315:82:0	
522	98	268	21:20:11.933		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *3489.92 +/-	2R3	4	0	4,666,315:83:8	
523	98	268	21:21:08.733	117GB105A106A4BL	7STRP	-0.0023,0.050133	Slew =12.01	2R3	4	0	4,666,316:78:0	
524	98	268	21:21:20.066	117GB105A106A4BM	7STRP	0.004,-0.050053,	Slew =0,0.7	2R3	4	0	4,666,317:04:0	
525	98	268	21:22:47.400	117GB105A106A4BN	7STRP	-0.0023,0.050133	Slew =12.01	2R3	4	0	4,666,318:44:0	
526	98	268	21:22:58.733	117GB105A106A4BO	7STRP	0.004,-0.050053,	Slew =0,0.7	2R3	4	0	4,666,318:61:0	
527	98	268	21:24:26.066	117GB105A106A4BP	7STRP	-0.0023,0.050133	Slew =12.01	2R3	4	0	4,666,320:10:0	
528	98	268	21:24:37.400	117GB105A106A4BQ	7STRP	0.004,-0.050053,	Slew =0,0.7	2R3	4	0	4,666,320:27:0	
529	98	268	21:26:04.733	117GB105A106A4BR	7STRP	-0.0023,0.050133	Slew =12.01	2R3	4	0	4,666,321:67:0	
530	98	268	21:26:16.066	117GB105A106A4BS	7STRP	0.004,-0.050053,	Slew =0,0.7	2R3	4	0	4,666,321:84:0	
531	98	268	21:27:43.400	117GB105A106A4BT	7STRP	-0.0023,0.050133	Slew =12.01	2R3	4	0	4,666,323:33:0	
532	98	268	21:27:54.733	117GB105A106A4BU	7STRP	0.004,-0.050053,	Slew =0,0.7	2R3	4	0	4,666,323:50:0	
533	98	268	21:29:22.066	117GB105A106A4BV	7STRP	-0.0023,0.050133	Slew =12.01	2R3	4	0	4,666,324:90:0	
534	98	268	21:29:33.400	117GB105A106A4BW	7STRP	0.004,-0.050053,	Slew =0,0.7	2R3	4	0	4,666,325:16:0	
535	98	268	21:31:00.733	117GB105A106A4BX	7STRP	-0.0023,0.050133	Slew =12.01	2R3	4	0	4,666,326:56:0	
536	98	268	21:31:12.066	117GB105A106A4BY	7STRP	0.004,-0.050053,	Slew =0,0.7	2R3	4	0	4,666,326:73:0	
537	98	268	21:32:25.400	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	4,666,328:01:0	
538	98	268	21:32:25.400		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 3489.92 +/-	2R3	4	0	4,666,328:01:0	
539	98	268	21:32:32.066		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 3489.92 +/-	2R3	4	0	4,666,328:11:0	
540	98	268	21:32:33.466		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC *3490.04 +/-	2R3	4	0	4,666,328:13:1	
541	98	268	21:32:39.400	117GB11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	4,666,328:22:0	
542	98	268	21:32:50.733		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *3494.09 +/-	2R3	4	0	4,666,328:39:0	
543	98	268	21:33:13.400		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *3499.40 +/-	2R3	4	0	4,666,328:73:0	
544	98	268	21:33:13.400	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,666,328:73:0	
545	98	268	21:33:14.600		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *3499.46 +/-	2R3	4	0	4,666,328:74:8	
546	98	268	21:39:25.400	176GC6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	4,666,334:85:0	
547	98	268	21:39:27.400	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	4,666,334:88:0	
548	98	268	21:39:27.400		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 3499.46 +/-	2R3	4	0	4,666,334:88:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
549	98	268	21:39:34.066		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 3499.46 +/-	2R3	4	0	4,666,335	07:0
550	98	268	21:39:35.466		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC *3499.58 +/-	2R3	4	0	4,666,335	09:1
551	98	268	21:39:37.400		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *3500.03 +/-	2R3	4	0	4,666,335	12:0
552	98	268	21:39:53.400	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,666,335	36:0
553	98	268	21:39:53.400		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *3503.78 +/-	2R3	4	0	4,666,335	36:0
554	98	268	21:39:54.600		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *3503.84 +/-	2R3	4	0	4,666,335	37:8
555	98	268	21:40:29.400	165GC4A	7SCAN	NORM,291.280998,	Check S/P Position	2R3	4	0	4,666,335	90:0
556	98	268	21:43:32.066	176GD6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R3	4	0	4,666,339	00:0
557	98	268	21:44:23.400	117GC	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	4,666,339	77:0
558	98	268	21:44:32.733	117GC105A106A4A	7STRP	0.009,-0.050056,	Slew =0,0.7	2R3	4	0	4,666,340	00:0
559	98	268	21:46:03.400	117GC105A106A4B	7STRP	-0.0072,0.050137	Slew =12.01	2R3	4	0	4,666,341	45:0
560	98	268	21:46:14.733	117GC105A106A4C	7STRP	0.009,-0.050056,	Slew =0,0.7	2R3	4	0	4,666,341	62:0
561	98	268	21:47:45.400	117GC105A106A4D	7STRP	-0.0072,0.050137	Slew =12.01	2R3	4	0	4,666,343	16:0
562	98	268	21:47:56.733	117GC105A106A4E	7STRP	0.009,-0.050056,	Slew =0,0.7	2R3	4	0	4,666,343	33:0
563	98	268	21:49:27.400	117GC105A106A4F	7STRP	-0.0072,0.050137	Slew =12.01	2R3	4	0	4,666,344	78:0
564	98	268	21:49:38.733	117GC105A106A4G	7STRP	0.009,-0.050056,	Slew =0,0.7	2R3	4	0	4,666,345	04:0
565	98	268	21:51:09.400	117GC105A106A4H	7STRP	-0.0072,0.050137	Slew =12.01	2R3	4	0	4,666,346	49:0
566	98	268	21:51:20.733	117GC105A106A4I	7STRP	0.009,-0.050056,	Slew =0,0.7	2R3	4	0	4,666,346	66:0
567	98	268	21:52:51.400	117GC105A106A4J	7STRP	-0.0072,0.050137	Slew =12.01	2R3	4	0	4,666,348	20:0
568	98	268	21:53:02.733	117GC105A106A4K	7STRP	0.009,-0.050056,	Slew =0,0.7	2R3	4	0	4,666,348	37:0
569	98	268	21:54:33.400	117GC105A106A4L	7STRP	-0.0072,0.050137	Slew =12.01	2R3	4	0	4,666,349	82:0
570	98	268	21:54:44.733	117GC105A106A4M	7STRP	0.009,-0.050056,	Slew =0,0.7	2R3	4	0	4,666,350	08:0
571	98	268	21:56:06.733		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 3503.84 +/-	2R3	4	0	4,666,351	40:0
572	98	268	21:56:06.733	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	4,666,351	40:0
573	98	268	21:56:13.400		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 3503.84 +/-	2R3	4	0	4,666,351	50:0
574	98	268	21:56:14.800		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC *3503.96 +/-	2R3	4	0	4,666,351	52:1
575	98	268	21:56:15.400	117GC105A106A4N	7STRP	-0.0072,0.050137	Slew =12.01	2R3	4	0	4,666,351	53:0
576	98	268	21:56:26.733	117GC105A106A4O	7STRP	0.009,-0.050056,	Slew =0,0.7	2R3	4	0	4,666,351	70:0
577	98	268	21:56:32.066		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *3508.01 +/-	2R3	4	0	4,666,351	78:0
578	98	268	21:56:54.733		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *3513.32 +/-	2R3	4	0	4,666,352	21:0
579	98	268	21:56:54.733	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,666,352	21:0
580	98	268	21:56:55.933		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *3513.38 +/-	2R3	4	0	4,666,352	22:8
581	98	268	21:57:57.400	117GC105A106A4P	7STRP	-0.0072,0.050137	Slew =12.01	2R3	4	0	4,666,353	24:0
582	98	268	21:58:08.733	117GC105A106A4Q	7STRP	0.009,-0.050056,	Slew =0,0.7	2R3	4	0	4,666,353	41:0
583	98	268	21:59:39.400	117GC105A106A4R	7STRP	-0.0072,0.050137	Slew =12.01	2R3	4	0	4,666,354	86:0
584	98	268	21:59:50.733	117GC105A106A4S	7STRP	0.009,-0.050056,	Slew =0,0.7	2R3	4	0	4,666,355	12:0
585	98	268	22:01:21.400	117GC105A106A4T	7STRP	-0.0072,0.050137	Slew =12.01	2R3	4	0	4,666,356	57:0
586	98	268	22:01:32.733	117GC105A106A4U	7STRP	0.009,-0.050056,	Slew =0,0.7	2R3	4	0	4,666,356	74:0
587	98	268	22:03:03.400	117GC105A106A4V	7STRP	-0.0072,0.050137	Slew =12.01	2R3	4	0	4,666,358	28:0
588	98	268	22:03:14.733	117GC105A106A4W	7STRP	0.009,-0.050056,	Slew =0,0.7	2R3	4	0	4,666,358	45:0
589	98	268	22:04:45.400	117GC105A106A4X	7STRP	-0.0072,0.050137	Slew =12.01	2R3	4	0	4,666,359	90:0
590	98	268	22:04:56.733	117GC105A106A4Y	7STRP	0.009,-0.050056,	Slew =0,0.7	2R3	4	0	4,666,360	16:0
591	98	268	22:06:27.400	117GC105A106A4Z	7STRP	-0.0072,0.050137	Slew =12.01	2R3	4	0	4,666,361	61:0
592	98	268	22:06:38.733	117GC105A106A4AA	7STRP	0.009,-0.050056,	Slew =0,0.7	2R3	4	0	4,666,361	78:0
593	98	268	22:08:09.400	117GC105A106A4AB	7STRP	-0.0072,0.050137	Slew =12.01	2R3	4	0	4,666,363	32:0
594	98	268	22:08:20.733	117GC105A106A4AC	7STRP	0.009,-0.050056,	Slew =0,0.7	2R3	4	0	4,666,363	49:0
595	98	268	22:09:08.733		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 3513.38 +/-	2R3	4	0	4,666,364	30:0
596	98	268	22:09:08.733	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	4,666,364	30:0
597	98	268	22:09:15.400		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 3513.38 +/-	2R3	4	0	4,666,364	40:0
598	98	268	22:09:16.800		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC *3513.50 +/-	2R3	4	0	4,666,364	42:1
599	98	268	22:09:34.066		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *3517.55 +/-	2R3	4	0	4,666,364	68:0
600	98	268	22:09:51.400	117GC105A106A4AD	7STRP	-0.0072,0.050137	Slew =12.01	2R3	4	0	4,666,365	03:0
601	98	268	22:09:56.733		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *3522.86 +/-	2R3	4	0	4,666,365	11:0
602	98	268	22:09:56.733	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,666,365	11:0
603	98	268	22:09:57.933		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *3522.92 +/-	2R3	4	0	4,666,365	12:8

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
604	98	268	22:10:02.733	117GC105A106A4AE	7STRP	0.009,-0.050056,	Slew =0,0.7	2R3	4	0	4,666,365:20:0	
605	98	268	22:11:33.400	117GC105A106A4AF	7STRP	-0.0072,0.050137	Slew =12.01	2R3	4	0	4,666,366:65:0	
606	98	268	22:11:44.733	117GC105A106A4AG	7STRP	0.009,-0.050056,	Slew =0,0.7	2R3	4	0	4,666,366:82:0	
607	98	268	22:13:15.400	117GC105A106A4AH	7STRP	-0.0072,0.050137	Slew =12.01	2R3	4	0	4,666,368:36:0	
608	98	268	22:13:26.733	117GC105A106A4AI	7STRP	0.009,-0.050056,	Slew =0,0.7	2R3	4	0	4,666,368:53:0	
609	98	268	22:14:57.400	117GC105A106A4AJ	7STRP	-0.0072,0.050137	Slew =12.01	2R3	4	0	4,666,370:07:0	
610	98	268	22:15:08.733	117GC105A106A4AK	7STRP	0.009,-0.050056,	Slew =0,0.7	2R3	4	0	4,666,370:24:0	
611	98	268	22:16:39.400	117GC105A106A4AL	7STRP	-0.0072,0.050137	Slew =12.01	2R3	4	0	4,666,371:69:0	
612	98	268	22:16:50.733	117GC105A106A4AM	7STRP	0.009,-0.050056,	Slew =0,0.7	2R3	4	0	4,666,371:86:0	
613	98	268	22:18:21.400	117GC105A106A4AN	7STRP	-0.0072,0.050137	Slew =12.01	2R3	4	0	4,666,373:40:0	
614	98	268	22:18:32.733	117GC105A106A4AO	7STRP	0.009,-0.050056,	Slew =0,0.7	2R3	4	0	4,666,373:57:0	
615	98	268	22:20:03.400	117GC105A106A4AP	7STRP	-0.0072,0.050137	Slew =12.01	2R3	4	0	4,666,375:11:0	
616	98	268	22:20:14.733	117GC105A106A4AQ	7STRP	0.009,-0.050056,	Slew =0,0.7	2R3	4	0	4,666,375:28:0	
617	98	268	22:21:45.400	117GC105A106A4AR	7STRP	-0.0072,0.050137	Slew =12.01	2R3	4	0	4,666,376:73:0	
618	98	268	22:21:56.733	117GC105A106A4AS	7STRP	0.009,-0.050056,	Slew =0,0.7	2R3	4	0	4,666,376:90:0	
619	98	268	22:22:10.733	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	4,666,377:20:0	
620	98	268	22:22:10.733		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 3522.92 +/-	2R3	4	0	4,666,377:20:0	
621	98	268	22:22:17.400		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 3522.92 +/-	2R3	4	0	4,666,377:30:0	
622	98	268	22:22:18.800		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC *3523.04 +/-	2R3	4	0	4,666,377:32:1	
623	98	268	22:22:36.066		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *3527.09 +/-	2R3	4	0	4,666,377:58:0	
624	98	268	22:22:58.733	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,666,378:01:0	
625	98	268	22:22:58.733		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *3532.40 +/-	2R3	4	0	4,666,378:01:0	
626	98	268	22:22:59.933		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *3532.46 +/-	2R3	4	0	4,666,378:02:8	
627	98	268	22:23:27.400	117GC105A106A4AT	7STRP	-0.0072,0.050137	Slew =12.01	2R3	4	0	4,666,378:44:0	
628	98	268	22:23:38.733	117GC105A106A4AU	7STRP	0.009,-0.050056,	Slew =0,0.7	2R3	4	0	4,666,378:61:0	
629	98	268	22:25:09.400	117GC105A106A4AV	7STRP	-0.0072,0.050137	Slew =12.01	2R3	4	0	4,666,380:15:0	
630	98	268	22:25:20.733	117GC105A106A4AW	7STRP	0.009,-0.050056,	Slew =0,0.7	2R3	4	0	4,666,380:32:0	
631	98	268	22:26:51.400	117GC105A106A4AX	7STRP	-0.0072,0.050137	Slew =12.01	2R3	4	0	4,666,381:77:0	
632	98	268	22:27:02.733	117GC105A106A4AY	7STRP	0.009,-0.050056,	Slew =0,0.7	2R3	4	0	4,666,382:03:0	
633	98	268	22:28:33.400	117GC105A106A4AZ	7STRP	-0.0072,0.050137	Slew =12.01	2R3	4	0	4,666,383:48:0	
634	98	268	22:28:44.733	117GC105A106A4BA	7STRP	0.009,-0.050056,	Slew =0,0.7	2R3	4	0	4,666,383:65:0	
635	98	268	22:30:15.400	117GC105A106A4BB	7STRP	-0.0072,0.050137	Slew =12.01	2R3	4	0	4,666,385:19:0	
636	98	268	22:30:26.733	117GC105A106A4BC	7STRP	0.009,-0.050056,	Slew =0,0.7	2R3	4	0	4,666,385:36:0	
637	98	268	22:31:57.400	117GC105A106A4BD	7STRP	-0.0072,0.050137	Slew =12.01	2R3	4	0	4,666,386:81:0	
638	98	268	22:32:08.733	117GC105A106A4BE	7STRP	0.009,-0.050056,	Slew =0,0.7	2R3	4	0	4,666,387:07:0	
639	98	268	22:33:39.400	117GC105A106A4BF	7STRP	-0.0072,0.050137	Slew =12.01	2R3	4	0	4,666,388:52:0	
640	98	268	22:33:50.733	117GC105A106A4BG	7STRP	0.009,-0.050056,	Slew =0,0.7	2R3	4	0	4,666,388:69:0	
641	98	268	22:35:13.400		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 3532.46 +/-	2R3	4	0	4,666,390:11:0	
642	98	268	22:35:13.400	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	4,666,390:11:0	
643	98	268	22:35:20.066		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 3532.46 +/-	2R3	4	0	4,666,390:21:0	
644	98	268	22:35:21.400	117GC105A106A4BH	7STRP	-0.0072,0.050137	Slew =12.01	2R3	4	0	4,666,390:23:0	
645	98	268	22:35:21.466		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC *3532.58 +/-	2R3	4	0	4,666,390:23:1	
646	98	268	22:35:32.733	117GC105A106A4BI	7STRP	0.009,-0.050056,	Slew =0,0.7	2R3	4	0	4,666,390:40:0	
647	98	268	22:35:38.066		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *3536.47 +/-	2R3	4	0	4,666,390:48:0	
648	98	268	22:36:00.733	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,666,390:82:0	
649	98	268	22:36:00.733		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *3541.78 +/-	2R3	4	0	4,666,390:82:0	
650	98	268	22:36:01.933		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *3541.84 +/-	2R3	4	0	4,666,390:83:8	
651	**98**	**268**	**22:36:40.847**	**17NNGLOBAL01-**		**-----START------**		**2R3**	**4**	**0**	**: :**	
652	98	268	22:37:03.400	117GC105A106A4BJ	7STRP	-0.0072,0.050137	Slew =12.01	2R3	4	0	4,666,391:85:0	
653	98	268	22:37:14.733	117GC105A106A4BK	7STRP	0.009,-0.050056,	Slew =0,0.7	2R3	4	0	4,666,392:11:0	
654	98	268	22:38:45.400	117GC105A106A4BL	7STRP	-0.0072,0.050137	Slew =12.01	2R3	4	0	4,666,393:56:0	
655	98	268	22:38:56.733	117GC105A106A4BM	7STRP	0.009,-0.050056,	Slew =0,0.7	2R3	4	0	4,666,393:73:0	
656	98	268	22:40:27.400	117GC105A106A4BN	7STRP	-0.0072,0.050137	Slew =12.01	2R3	4	0	4,666,395:27:0	
657	98	268	22:40:38.733	117GC105A106A4BO	7STRP	0.009,-0.050056,	Slew =0,0.7	2R3	4	0	4,666,395:44:0	
658	98	268	22:42:09.400	117GC105A106A4BP	7STRP	-0.0072,0.050137	Slew =12.01	2R3	4	0	4,666,396:89:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
659	98	268	22:42:20.733	117GC105A106A4BQ	7STRP	0.009,-0.050056,	Slew =0,0.7	2R3	4	0	4,666,397:15:0	
660	98	268	22:43:51.400	117GC105A106A4BR	7STRP	-0.0072,0.050137	Slew =12.01	2R3	4	0	4,666,398:60:0	
661	98	268	22:44:02.733	117GC105A106A4BS	7STRP	0.009,-0.050056,	Slew =0,0.7	2R3	4	0	4,666,398:77:0	
662	98	268	22:45:33.400	117GC11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	4,666,400:31:0	
663	**98**	**268**	**22:46:47.513**	**17ENGLOBAL01-**		**-----START------**		**2R3**	**4**	**0**	**: :**	
664	**98**	**268**	**22:46:47.513**	**17NNGLOBAL01-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**	
665	98	268	22:47:14.066	176GD6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	4,666,402:00:0	
666	98	268	22:47:16.066	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	4,666,402:03:0	
667	98	268	22:47:16.066		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 3541.84 +/-	2R3	4	0	4,666,402:03:0	
668	98	268	22:47:22.733		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 3541.84 +/-	2R3	4	0	4,666,402:13:0	
669	98	268	22:47:24.133		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC *3541.96 +/-	2R3	4	0	4,666,402:15:1	
670	98	268	22:47:26.066		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *3542.42 +/-	2R3	4	0	4,666,402:18:0	
671	98	268	22:47:46.733		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *3547.26 +/-	2R3	4	0	4,666,402:49:0	
672	98	268	22:47:46.733	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,666,402:49:0	
673	98	268	22:47:47.933		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *3547.32 +/-	2R3	4	0	4,666,402:50:8	
674	**98**	**268**	**22:49:30.066**	**20DD5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**2R3**	**4**	**0**	**4,666,404:22:0**	
675	**98**	**268**	**22:49:31.400**	**20DD5B**	**37MRL**		**Memory Realocate (software operates from R**	**2R3**	**4**	**0**	**4,666,404:24:0**	
676	**98**	**268**	**22:49:33.400**	**20DD6A**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**2R3**	**4**	**0**	**4,666,404:27:0**	
677	**98**	**268**	**22:49:43.400**	**20DD6B**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**2R3**	**4**	**0**	**4,666,404:42:0**	
678	**98**	**268**	**22:49:56.733**	**20DD5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**4,666,404:62:0**	
679	**98**	**268**	**22:50:00.066**	**20DD5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**4,666,404:67:0**	
680	**98**	**268**	**22:50:10.066**	**20DD4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**4,666,404:82:0**	
681	98	268	22:51:16.066	165DD4A	7SCAN	NORM,276.917999,	Check S/P Position	2R0	4	0	4,666,405:90:0	
682	**98**	**268**	**22:52:12.733**	**125DD4A**	**37IST**	**0,2,0,OFF,0,1,2**	**Gain State 3**	**3R0**	**4**	**0**	**4,666,406:84:0**	
683	98	268	22:52:12.733	125DD	NIMSINIT	GS	##### GROUP START INIT	3R0	4	0	4,666,406:84:0	
684	**98**	**268**	**22:53:13.400**	**125DD4B**	**37MB**	**0,0,0,0,0,0**	**Selects mirror (spatial) edit table**	**3R0**	**4**	**0**	**4,666,407:84:0**	
685	98	268	22:53:13.400	125DD11A	NIMSINIT	GE	##### GROUP END INIT	3R0	4	0	4,666,407:84:0	
686	98	268	22:55:06.066	175DD422A6A	6DMSC	R28,1	DMS Control	3R0	4	0	4,666,409:71:0	
687	98	268	22:55:06.066		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 3547.32 +/-	3R0	4	0	4,666,409:71:0	
688	98	268	22:55:10.066	117DD	**CSMOS**	GS	***** GROUP START CSMOS	3R0	4	0	4,666,409:77:0	
689	98	268	22:55:12.733		DMS:	: *RUNUP	R28, TRACK 1, FWD, TIC 3547.32 +/-	3R0	4	0	4,666,409:81:0	
690	**98**	**268**	**22:55:14.733**	**127DD4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**3R3**	**4**	**0**	**4,666,409:84:0**	
691	98	268	22:55:14.733	127DD	NIMSTAB	GS	%%%%% GROUP START TAB	3R3	4	0	4,666,409:84:0	
692	**98**	**268**	**22:55:15.400**	**127DD4B**	**37ETB**	**04,C4,35,FF,FF**	**Loads wavelength edit table**	**3R3**	**4**	**0**	**4,666,409:85:0**	
693	98	268	22:55:16.066	175DD176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	3R3	4	0	4,666,409:86:0	
694	98	268	22:55:16.733		DMS:	**: *RECORD**	R28, TRACK 1, FWD, TIC *3548.82 +/-	3R3	4	0	4,666,409:87:0	
695	98	268	22:55:16.733		DMS:	: *AT_SPD	R28, TRACK 1, FWD, TIC 3548.82 +/-	3R3	4	0	4,666,409:87:0	
696	98	268	22:55:18.066	165DD4B	7VECT		Inert vect update UTC	3R3	4	0	4,666,409:89:0	
697	**98**	**268**	**22:55:19.400**	**17ENGLOBAL01-**	**NIMPBK**	**301DD**	**EUROPA GLOBAL MAPPING**	**3R3**	**4**	**0**	**: :**	
698	98	268	22:55:19.400	117DD105A106A4A	**7STRP**	**-0.020203,0.0,0,**	**Slew =,0.03**	3R3	4	0	4,666,410:00:0	
699	98	268	22:55:23.400	127DD11A	NIMSTAB	GE	%%%%% GROUP END TAB	3R3	4	0	4,666,410:06:0	
700	**98**	**268**	**23:06:36.066**	**17ENGLOBAL01-**	**DESELC**	**300DD**	**EUROPA GLOBAL MAPPING**	**3R3**	**4**	**0**	**: :**	
701	98	268	23:06:36.066	117DD105A106A4B	**7STRP**	**0.020003,-0.0073**	**Slew =12.01**	3R3	4	0	4,666,421:14:0	
702	**98**	**268**	**23:06:42.733**	**17ENGLOBAL01-**	**NIMPBK**	**301DP**	**EUROPA GLOBAL MAPPING**	**3R3**	**4**	**0**	**: :**	
703	98	268	23:06:42.733	117DD105A106A4C	**7STRP**	**-0.020203,0.0,0,**	**Slew =,0.03**	3R3	4	0	4,666,421:24:0	
704	**98**	**268**	**23:14:12.666**	**17ENGLOBAL01-**	**NIMPBK**	**301DA**	**EUROPA GLOBAL MAPPING**	**3R3**	**4**	**0**	**: :**	
705	**98**	**268**	**23:14:42.000**	**17ENGLOBAL01-**	**DESELC**	**300DA**	**EUROPA GLOBAL MAPPING**	**3R3**	**4**	**0**	**: :**	
706	**98**	**268**	**23:16:31.333**	**17ENGLOBAL01-**	**NIMPBK**	**301DB**	**EUROPA GLOBAL MAPPING**	**3R3**	**4**	**0**	**: :**	
707	**98**	**268**	**23:16:38.000**	**17ENGLOBAL01-**	**DESELC**	**300DB**	**EUROPA GLOBAL MAPPING**	**3R3**	**4**	**0**	**: :**	
708	98	268	23:17:59.400	117DD105A106A4D	**7STRP**	**0.020003,-0.0073**	**Slew =12.01**	3R3	4	0	4,666,432:38:0	
709	98	268	23:18:06.066	117DD105A106A4E	**7STRP**	**-0.020203,0.0,0,**	**Slew =,0.03**	3R3	4	0	4,666,432:48:0	
710	**98**	**268**	**23:22:00.666**	**17ENGLOBAL01-**	**NIMPBK**	**301DC**	**EUROPA GLOBAL MAPPING**	**3R3**	**4**	**0**	**: :**	
711	**98**	**268**	**23:23:10.000**	**17ENGLOBAL01-**	**DESELC**	**300DC**	**EUROPA GLOBAL MAPPING**	**3R3**	**4**	**0**	**: :**	
712	**98**	**268**	**23:23:36.000**	**17ENGLOBAL01-**	**NIMPBK**	**301DR**	**EUROPA GLOBAL MAPPING**	**3R3**	**4**	**0**	**: :**	
713	**98**	**268**	**23:23:51.000**	**17ENGLOBAL01-**	**DESELC**	**300DR**	**EUROPA GLOBAL MAPPING**	**3R3**	**4**	**0**	**: :**	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
714	**98**	**268**	**23:29:22.733**	**17ENGLOBAL01-**	**DESELC**	**300DP**	**EUROPA GLOBAL MAPPING**	**3R3**	**4**	**0**	**: :**	
715	98	268	23:29:22.733	117DD105A106A4F	**7STRP**	**0.020003,-0.0073**	**Slew =12.01**	3R3	4	0	4,666,443:62:0	
716	98	268	23:29:29.400	117DD105A106A4G	**7STRP**	**-0.020203,0.0,0,**	**Slew =,0.03**	3R3	4	0	4,666,443:72:0	
717	**98**	**268**	**23:29:29.400**	**17ENGLOBAL01-**	**NIMPBK**	**301DQ**	**EUROPA GLOBAL MAPPING**	**3R3**	**4**	**0**	**: :**	
718	**98**	**268**	**23:37:20.847**	**17ENGLOBAL01-**		**-----STOP-------**		**3R3**	**4**	**0**	**: :**	
719	**98**	**268**	**23:40:14.733**	**17ENGLOBAL01-**	**DESELC**	**300DQ**	**EUROPA GLOBAL MAPPING**	**3R3**	**4**	**0**	**: :**	
720	98	268	23:40:16.733	175DD422A6B	6DMSC	RDY,0	DMS Control Tape stop	3R3	4	0	4,666,454:42:0	
721	98	268	23:40:16.733		DMS:	**: *RUNDOWN**	R28, TRACK 1, FWD, TIC *5921.87 +/-	3R3	4	0	4,666,454:42:0	
722	98	268	23:40:17.933		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *5922.17 +/-	3R3	4	0	4,666,454:43:8	
723	98	268	23:40:46.066	117DD11A	**CSMOS**	GE	***** GROUP END CSMOS	3R3	4	0	4,666,454:86:0	
724	98	269	00:00:00.066	481UA4A	7VECT		Inert vect update UTC	3R3	4	0	4,666,473:88:0	
725	98	269	00:25:18.066	165GD4A	7SCAN	NORM,277.085999,	Check S/P Position	3R3	4	0	4,666,498:90:0	
726	98	269	00:25:18.733	176GE6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	3R3	4	0	4,666,499:00:0	
727	98	269	00:26:10.066	117GD	**CSMOS**	GS	***** GROUP START CSMOS	3R3	4	0	4,666,499:77:0	
728	98	269	00:26:19.400	117GD105A106A4A	7STRP	-0.03101,0.0,0,0	Slew =,0.37	3R3	4	0	4,666,500:00:0	
729	98	269	00:27:47.400	117GD105A106A4B	7STRP	0.00027,-0.00054	Slew =12.01	3R3	4	0	4,666,501:41:0	
730	98	269	00:27:58.066	117GD105A106A4C	7STRP	-0.03101,0.0,0,0	Slew =,0.37	3R3	4	0	4,666,501:57:0	
731	98	269	00:29:26.066	117GD105A106A4D	7STRP	0.00027,-0.00054	Slew =12.01	3R3	4	0	4,666,503:07:0	
732	98	269	00:29:36.733	117GD105A106A4E	7STRP	-0.03101,0.0,0,0	Slew =,0.37	3R3	4	0	4,666,503:23:0	
733	98	269	00:31:04.733	117GD105A106A4F	7STRP	0.00027,-0.00054	Slew =12.01	3R3	4	0	4,666,504:64:0	
734	98	269	00:31:15.400	117GD105A106A4G	7STRP	-0.03101,0.0,0,0	Slew =,0.37	3R3	4	0	4,666,504:80:0	
735	98	269	00:32:43.400	117GD105A106A4H	7STRP	0.00027,-0.00054	Slew =12.01	3R3	4	0	4,666,506:30:0	
736	98	269	00:32:54.066	117GD105A106A4I	7STRP	-0.03101,0.0,0,0	Slew =,0.37	3R3	4	0	4,666,506:46:0	
737	98	269	00:34:22.066	117GD105A106A4J	7STRP	0.00027,-0.00054	Slew =12.01	3R3	4	0	4,666,507:87:0	
738	98	269	00:34:32.733	117GD105A106A4K	7STRP	-0.03101,0.0,0,0	Slew =,0.37	3R3	4	0	4,666,508:12:0	
739	98	269	00:36:00.733	117GD105A106A4L	7STRP	0.00027,-0.00054	Slew =12.01	3R3	4	0	4,666,509:53:0	
740	98	269	00:36:11.400	117GD105A106A4M	7STRP	-0.03101,0.0,0,0	Slew =,0.37	3R3	4	0	4,666,509:69:0	
741	98	269	00:37:39.400	117GD105A106A4N	7STRP	0.00027,-0.00054	Slew =12.01	3R3	4	0	4,666,511:19:0	
742	98	269	00:37:50.066	117GD105A106A4O	7STRP	-0.03101,0.0,0,0	Slew =,0.37	3R3	4	0	4,666,511:35:0	
743	98	269	00:37:53.400		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 5922.17 +/-	3R3	4	0	4,666,511:40:0	
744	98	269	00:37:53.400	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	3R3	4	0	4,666,511:40:0	
745	98	269	00:38:00.066		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 5922.17 +/-	3R3	4	0	4,666,511:50:0	
746	98	269	00:38:01.466		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC *5922.29 +/-	3R3	4	0	4,666,511:52:1	
747	98	269	00:38:18.733		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *5926.33 +/-	3R3	4	0	4,666,511:78:0	
748	98	269	00:38:41.400		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *5931.65 +/-	3R3	4	0	4,666,512:21:0	
749	98	269	00:38:41.400	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	3R3	4	0	4,666,512:21:0	
750	98	269	00:38:42.600		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *5931.71 +/-	3R3	4	0	4,666,512:22:8	
751	98	269	00:39:18.066	117GD105A106A4P	7STRP	0.00027,-0.00054	Slew =12.01	3R3	4	0	4,666,512:76:0	
752	98	269	00:39:28.733	117GD105A106A4Q	7STRP	-0.03101,0.0,0,0	Slew =,0.37	3R3	4	0	4,666,513:01:0	
753	98	269	00:40:56.733	117GD105A106A4R	7STRP	0.00027,-0.00054	Slew =12.01	3R3	4	0	4,666,514:42:0	
754	98	269	00:41:07.400	117GD105A106A4S	7STRP	-0.03101,0.0,0,0	Slew =,0.37	3R3	4	0	4,666,514:58:0	
755	98	269	00:42:35.400	117GD105A106A4T	7STRP	0.00027,-0.00054	Slew =12.01	3R3	4	0	4,666,516:08:0	
756	98	269	00:42:46.066	117GD105A106A4U	7STRP	-0.03101,0.0,0,0	Slew =,0.37	3R3	4	0	4,666,516:24:0	
757	98	269	00:44:14.066	117GD105A106A4V	7STRP	0.00027,-0.00054	Slew =12.01	3R3	4	0	4,666,517:65:0	
758	98	269	00:44:24.733	117GD105A106A4W	7STRP	-0.03101,0.0,0,0	Slew =,0.37	3R3	4	0	4,666,517:81:0	
759	98	269	00:45:52.733	117GD105A106A4X	7STRP	0.00027,-0.00054	Slew =12.01	3R3	4	0	4,666,519:31:0	
760	98	269	00:46:03.400	117GD105A106A4Y	7STRP	-0.03101,0.0,0,0	Slew =,0.37	3R3	4	0	4,666,519:47:0	
761	98	269	00:47:31.400	117GD105A106A4Z	7STRP	0.00027,-0.00054	Slew =12.01	3R3	4	0	4,666,520:88:0	
762	98	269	00:47:42.066	117GD105A106A4AA	7STRP	-0.03101,0.0,0,0	Slew =,0.37	3R3	4	0	4,666,521:13:0	
763	98	269	00:49:10.066	117GD105A106A4AB	7STRP	0.00027,-0.00054	Slew =12.01	3R3	4	0	4,666,522:54:0	
764	98	269	00:49:20.733	117GD105A106A4AC	7STRP	-0.03101,0.0,0,0	Slew =,0.37	3R3	4	0	4,666,522:70:0	
765	98	269	00:50:48.733	117GD105A106A4AD	7STRP	0.00027,-0.00054	Slew =12.01	3R3	4	0	4,666,524:20:0	
766	98	269	00:50:55.400	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	3R3	4	0	4,666,524:30:0	
767	98	269	00:50:55.400		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 5931.71 +/-	3R3	4	0	4,666,524:30:0	
768	98	269	00:50:59.400	117GD105A106A4AE	7STRP	-0.03101,0.0,0,0	Slew =,0.37	3R3	4	0	4,666,524:36:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
769	98	269	00:51:02.066		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 5931.71 +/-	3R3	4	0	4,666,524	40:0
770	98	269	00:51:03.466		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC *5931.83 +/-	3R3	4	0	4,666,524	42:1
771	98	269	00:51:20.733		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *5935.87 +/-	3R3	4	0	4,666,524	68:0
772	98	269	00:51:43.400	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	3R3	4	0	4,666,525	11:0
773	98	269	00:51:43.400		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *5941.19 +/-	3R3	4	0	4,666,525	11:0
774	98	269	00:51:44.600		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *5941.25 +/- 1	3R3	4	0	4,666,525	12:8
775	98	269	00:52:27.400	117GD105A106A4AF	7STRP	0.00027,-0.00054	Slew =12.01	3R3	4	0	4,666,525	77:0
776	98	269	00:52:38.066	117GD105A106A4AG	7STRP	-0.03101,0.0,0,0	Slew =,0.37	3R3	4	0	4,666,526	02:0
777	98	269	00:54:06.066	117GD105A106A4AH	7STRP	0.00027,-0.00054	Slew =12.01	3R3	4	0	4,666,527	43:0
778	98	269	00:54:16.733	117GD105A106A4AI	7STRP	-0.03101,0.0,0,0	Slew =,0.37	3R3	4	0	4,666,527	59:0
779	98	269	00:55:44.733	117GD105A106A4AJ	7STRP	0.00027,-0.00054	Slew =12.01	3R3	4	0	4,666,529	09:0
780	98	269	00:55:55.400	117GD105A106A4AK	7STRP	-0.03101,0.0,0,0	Slew =,0.37	3R3	4	0	4,666,529	25:0
781	98	269	00:57:23.400	117GD105A106A4AL	7STRP	0.00027,-0.00054	Slew =12.01	3R3	4	0	4,666,530	66:0
782	98	269	00:57:34.066	117GD105A106A4AM	7STRP	-0.03101,0.0,0,0	Slew =,0.37	3R3	4	0	4,666,530	82:0
783	98	269	00:59:02.066	117GD105A106A4AN	7STRP	0.00027,-0.00054	Slew =12.01	3R3	4	0	4,666,532	32:0
784	98	269	00:59:12.733	117GD105A106A4AO	7STRP	-0.03101,0.0,0,0	Slew =,0.37	3R3	4	0	4,666,532	48:0
785	98	269	01:00:40.733	117GD105A106A4AP	7STRP	0.00027,-0.00054	Slew =12.01	3R3	4	0	4,666,533	89:0
786	98	269	01:00:51.400	117GD105A106A4AQ	7STRP	-0.03101,0.0,0,0	Slew =,0.37	3R3	4	0	4,666,534	14:0
787	98	269	01:02:19.400	117GD105A106A4AR	7STRP	0.00027,-0.00054	Slew =12.01	3R3	4	0	4,666,535	55:0
788	98	269	01:02:30.066	117GD105A106A4AS	7STRP	-0.03101,0.0,0,0	Slew =,0.37	3R3	4	0	4,666,535	71:0
789	98	269	01:03:57.400		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 5941.25 +/- 1	3R3	4	0	4,666,537	20:0
790	98	269	01:03:57.400	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	3R3	4	0	4,666,537	20:0
791	98	269	01:03:58.066	117GD105A106A4AT	7STRP	0.00027,-0.00054	Slew =12.01	3R3	4	0	4,666,537	21:0
792	98	269	01:04:04.066		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 5941.25 +/- 1	3R3	4	0	4,666,537	30:0
793	98	269	01:04:05.466		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC *5941.37 +/- 1	3R3	4	0	4,666,537	32:1
794	98	269	01:04:08.733	117GD105A106A4AU	7STRP	-0.03101,0.0,0,0	Slew =,0.37	3R3	4	0	4,666,537	37:0
795	98	269	01:04:22.733		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *5945.41 +/- 1	3R3	4	0	4,666,537	58:0
796	98	269	01:04:45.400	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	3R3	4	0	4,666,538	01:0
797	98	269	01:04:45.400		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *5950.72 +/- 1	3R3	4	0	4,666,538	01:0
798	98	269	01:04:46.600		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *5950.78 +/- 1	3R3	4	0	4,666,538	02:8
799	98	269	01:05:36.733	117GD105A106A4AV	7STRP	0.00027,-0.00054	Slew =12.01	3R3	4	0	4,666,538	78:0
800	98	269	01:05:47.400	117GD105A106A4AW	7STRP	-0.03101,0.0,0,0	Slew =,0.37	3R3	4	0	4,666,539	03:0
801	98	269	01:07:15.400	117GD105A106A4AX	7STRP	0.00027,-0.00054	Slew =12.01	3R3	4	0	4,666,540	44:0
802	98	269	01:07:26.066	117GD105A106A4AY	7STRP	-0.03101,0.0,0,0	Slew =,0.37	3R3	4	0	4,666,540	60:0
803	98	269	01:08:54.066	117GD105A106A4AZ	7STRP	0.00027,-0.00054	Slew =12.01	3R3	4	0	4,666,542	10:0
804	98	269	01:09:04.733	117GD105A106A4BA	7STRP	-0.03101,0.0,0,0	Slew =,0.37	3R3	4	0	4,666,542	26:0
805	98	269	01:10:32.733	117GD105A106A4BB	7STRP	0.00027,-0.00054	Slew =12.01	3R3	4	0	4,666,543	67:0
806	98	269	01:10:43.400	117GD105A106A4BC	7STRP	-0.03101,0.0,0,0	Slew =,0.37	3R3	4	0	4,666,543	83:0
807	98	269	01:12:11.400	117GD105A106A4BD	7STRP	0.00027,-0.00054	Slew =12.01	3R3	4	0	4,666,545	33:0
808	98	269	01:12:22.066	117GD105A106A4BE	7STRP	-0.03101,0.0,0,0	Slew =,0.37	3R3	4	0	4,666,545	49:0
809	98	269	01:13:50.066	117GD11A	**CSMOS**	GE	***** GROUP END CSMOS	3R3	4	0	4,666,546	90:0
810	98	269	01:14:51.400	176GE6B	6TMREC	**NRC**	NO RECORD Record Mode Change	3R3	4	0	4,666,548	00:0
811	98	269	01:14:53.400		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 5950.78 +/- 1	3R3	4	0	4,666,548	03:0
812	98	269	01:14:53.400	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	3R3	4	0	4,666,548	03:0
813	98	269	01:15:00.066		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 5950.78 +/- 1	3R3	4	0	4,666,548	13:0
814	98	269	01:15:01.466		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC *5950.90 +/- 1	3R3	4	0	4,666,548	15:1
815	98	269	01:15:03.400		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *5951.36 +/- 1	3R3	4	0	4,666,548	18:0
816	98	269	01:15:22.733		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *5955.89 +/- 1	3R3	4	0	4,666,548	47:0
817	98	269	01:15:22.733	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	3R3	4	0	4,666,548	47:0
818	98	269	01:15:23.933		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *5955.95 +/- 1	3R3	4	0	4,666,548	48:8
819	98	269	01:15:51.400	165GI4A	7SCAN	NORM,277.314999,	Check S/P Position	3R3	4	0	4,666,548	90:0
820	98	269	01:15:52.066	176GM6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	3R3	4	0	4,666,549	00:0
821	98	269	01:16:43.400	117GI	**CSMOS**	GS	***** GROUP START CSMOS	3R3	4	0	4,666,549	77:0
822	98	269	01:16:52.733	117GI105A106A4A	7STRP	0.024005,0.0,0,0	Slew =,0.61	3R3	4	0	4,666,550	00:0
823	98	269	01:17:36.066	117GI105A106A4B	7STRP	0.0004,-0.0006,0	Slew =12.01	3R3	4	0	4,666,550	65:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
824	98	269	01:17:46.066	117GI105A106A4C	7STRP	0.024005,0.0,0,0	Slew =,0.61	3R3	4	0	4,666,550	80:0
825	98	269	01:18:29.400	117GI105A106A4D	7STRP	0.0004,-0.0006,0	Slew =12.01	3R3	4	0	4,666,551	54:0
826	98	269	01:18:39.400	117GI105A106A4E	7STRP	0.024005,0.0,0,0	Slew =,0.61	3R3	4	0	4,666,551	69:0
827	98	269	01:19:22.733	117GI105A106A4F	7STRP	0.0004,-0.0006,0	Slew =12.01	3R3	4	0	4,666,552	43:0
828	98	269	01:19:32.733	117GI105A106A4G	7STRP	0.024005,0.0,0,0	Slew =,0.61	3R3	4	0	4,666,552	58:0
829	98	269	01:20:16.066	117GI105A106A4H	7STRP	0.0004,-0.0006,0	Slew =12.01	3R3	4	0	4,666,553	32:0
830	98	269	01:20:26.066	117GI105A106A4I	7STRP	0.024005,0.0,0,0	Slew =,0.61	3R3	4	0	4,666,553	47:0
831	98	269	01:21:09.400	117GI105A106A4J	7STRP	0.0004,-0.0006,0	Slew =12.01	3R3	4	0	4,666,554	21:0
832	98	269	01:21:19.400	117GI105A106A4K	7STRP	0.024005,0.0,0,0	Slew =,0.61	3R3	4	0	4,666,554	36:0
833	98	269	01:22:02.733	117GI105A106A4L	7STRP	0.0004,-0.0006,0	Slew =12.01	3R3	4	0	4,666,555	10:0
834	98	269	01:22:12.733	117GI105A106A4M	7STRP	0.024005,0.0,0,0	Slew =,0.61	3R3	4	0	4,666,555	25:0
835	98	269	01:22:56.066	117GI105A106B4A	7STRP	0.0035,-0.039022	Slew =12.01	3R3	4	0	4,666,555	90:0
836	98	269	01:23:09.400	117GI105A106B4B	7STRP	0.023004,0.0,0,0	Slew =,0.61	3R3	4	0	4,666,556	19:0
837	98	269	01:23:50.733	117GI105A106C4A	7STRP	0.0001,-0.0005,0	Slew =12.01	3R3	4	0	4,666,556	81:0
838	98	269	01:24:01.400	117GI105A106C4B	7STRP	0.023004,0.0,0,0	Slew =,0.61	3R3	4	0	4,666,557	06:0
839	98	269	01:24:42.733	117GI105A106C4C	7STRP	0.0001,-0.0005,0	Slew =12.01	3R3	4	0	4,666,557	68:0
840	98	269	01:24:53.400	117GI105A106C4D	7STRP	0.023004,0.0,0,0	Slew =,0.61	3R3	4	0	4,666,557	84:0
841	98	269	01:25:34.733	117GI105A106C4E	7STRP	0.0001,-0.0005,0	Slew =12.01	3R3	4	0	4,666,558	55:0
842	98	269	01:25:45.400	117GI105A106C4F	7STRP	0.023004,0.0,0,0	Slew =,0.61	3R3	4	0	4,666,558	71:0
843	98	269	01:26:26.733	117GI105A106C4G	7STRP	0.0001,-0.0005,0	Slew =12.01	3R3	4	0	4,666,559	42:0
844	98	269	01:26:37.400	117GI105A106C4H	7STRP	0.023004,0.0,0,0	Slew =,0.61	3R3	4	0	4,666,559	58:0
845	98	269	01:27:18.733	117GI105A106C4I	7STRP	0.0001,-0.0005,0	Slew =12.01	3R3	4	0	4,666,560	29:0
846	98	269	01:27:29.400	117GI105A106C4J	7STRP	0.023004,0.0,0,0	Slew =,0.61	3R3	4	0	4,666,560	45:0
847	98	269	01:28:10.733	117GI105A106C4K	7STRP	0.0001,-0.0005,0	Slew =12.01	3R3	4	0	4,666,561	16:0
848	98	269	01:28:21.400	117GI105A106C4L	7STRP	0.023004,0.0,0,0	Slew =,0.61	3R3	4	0	4,666,561	32:0
849	98	269	01:28:26.733		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 5955.95 +/- 1	3R3	4	0	4,666,561	40:0
850	98	269	01:28:26.733	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	3R3	4	0	4,666,561	40:0
851	98	269	01:28:33.400		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 5955.95 +/- 1	3R3	4	0	4,666,561	50:0
852	98	269	01:28:34.800		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC *5956.07 +/- 1	3R3	4	0	4,666,561	52:1
853	98	269	01:28:52.066		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *5960.12 +/- 1	3R3	4	0	4,666,561	78:0
854	98	269	01:29:02.733	117GI105A106C4M	7STRP	0.0001,-0.0005,0	Slew =12.01	3R3	4	0	4,666,562	03:0
855	98	269	01:29:13.400	117GI105A106C4N	7STRP	0.023004,0.0,0,0	Slew =,0.61	3R3	4	0	4,666,562	19:0
856	98	269	01:29:14.733		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *5965.43 +/- 1	3R3	4	0	4,666,562	21:0
857	98	269	01:29:14.733	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	3R3	4	0	4,666,562	21:0
858	98	269	01:29:15.933		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *5965.49 +/- 1	3R3	4	0	4,666,562	22:8
859	98	269	01:29:54.733	117GI105A106C4O	7STRP	0.0001,-0.0005,0	Slew =12.01	3R3	4	0	4,666,562	81:0
860	98	269	01:30:05.400	117GI105A106C4P	7STRP	0.023004,0.0,0,0	Slew =,0.61	3R3	4	0	4,666,563	06:0
861	98	269	01:30:46.733	117GI105A106C4Q	7STRP	0.0001,-0.0005,0	Slew =12.01	3R3	4	0	4,666,563	68:0
862	98	269	01:30:57.400	117GI105A106C4R	7STRP	0.023004,0.0,0,0	Slew =,0.61	3R3	4	0	4,666,563	84:0
863	98	269	01:31:38.733	117GI105A106C4S	7STRP	0.0001,-0.0005,0	Slew =12.01	3R3	4	0	4,666,564	55:0
864	98	269	01:31:49.400	117GI105A106C4T	7STRP	0.023004,0.0,0,0	Slew =,0.61	3R3	4	0	4,666,564	71:0
865	98	269	01:32:30.733	117GI105A106C4U	7STRP	0.0001,-0.0005,0	Slew =12.01	3R3	4	0	4,666,565	42:0
866	98	269	01:32:41.400	117GI105A106C4V	7STRP	0.023004,0.0,0,0	Slew =,0.61	3R3	4	0	4,666,565	58:0
867	98	269	01:33:22.733	117GI105A106C4W	7STRP	0.0001,-0.0005,0	Slew =12.01	3R3	4	0	4,666,566	29:0
868	98	269	01:33:33.400	117GI105A106C4X	7STRP	0.023004,0.0,0,0	Slew =,0.61	3R3	4	0	4,666,566	45:0
869	98	269	01:34:14.733	117GI105A106C4Y	7STRP	0.0001,-0.0005,0	Slew =12.01	3R3	4	0	4,666,567	16:0
870	98	269	01:34:25.400	117GI105A106C4Z	7STRP	0.023004,0.0,0,0	Slew =,0.61	3R3	4	0	4,666,567	32:0
871	98	269	01:35:06.733	117GI105A106C4AA	7STRP	0.0001,-0.0005,0	Slew =12.01	3R3	4	0	4,666,568	03:0
872	98	269	01:35:17.400	117GI105A106C4AB	7STRP	0.023004,0.0,0,0	Slew =,0.61	3R3	4	0	4,666,568	19:0
873	98	269	01:35:58.733	117GI105A106C4AC	7STRP	0.0001,-0.0005,0	Slew =12.01	3R3	4	0	4,666,568	81:0
874	98	269	01:36:09.400	117GI105A106C4AD	7STRP	0.023004,0.0,0,0	Slew =,0.61	3R3	4	0	4,666,569	06:0
875	98	269	01:36:50.733	117GI105A106C4AE	7STRP	0.0001,-0.0005,0	Slew =12.01	3R3	4	0	4,666,569	68:0
876	98	269	01:37:01.400	117GI105A106C4AF	7STRP	0.023004,0.0,0,0	Slew =,0.61	3R3	4	0	4,666,569	84:0
877	98	269	01:37:19.400	488AD6A	6TMSED	NORM,EL4	Sci, Eng, and D/L Chan	3R3	4	0	4,666,570	20:0
878	98	269	01:37:42.733	117GI11A	**CSMOS**	GE	***** GROUP END CSMOS	3R3	4	0	4,666,570	55:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
879	98	269	01:39:07.400	176GM6B	6TMREC	**NRC**	NO RECORD Record Mode Change	3R3	4	0	4,666,572	00:0
880	98	269	01:39:09.400		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 5965.49 +/- 1	3R3	4	0	4,666,572	03:0
881	98	269	01:39:09.400	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	3R3	4	0	4,666,572	03:0
882	98	269	01:39:16.066		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 5965.49 +/- 1	3R3	4	0	4,666,572	13:0
883	98	269	01:39:17.466		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC *5965.61 +/- 1	3R3	4	0	4,666,572	15:1
884	98	269	01:39:19.400		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *5966.06 +/- 1	3R3	4	0	4,666,572	18:0
885	98	269	01:39:38.733		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *5970.59 +/- 1	3R3	4	0	4,666,572	47:0
886	98	269	01:39:38.733	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	3R3	4	0	4,666,572	47:0
887	98	269	01:39:39.933		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *5970.65 +/- 1	3R3	4	0	4,666,572	48:8
888	98	269	01:40:08.066	465KB6A	6DMSC	RDY,2	DMS Control Tape stop	3R3	4	0	4,666,573	00:0
889	98	269	01:40:08.066		DMS:	: READY	RDY, TRACK *2, *REV, TIC 5970.65 +/- 1	3R3	4	0	4,666,573	00:0
890	98	269	01:42:08.733	165GE4A	7SCAN	NORM,278.23,-18.	Check S/P Position	3R3	4	0	4,666,574	90:0
891	98	269	01:42:09.400	176GF6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	3R3	4	0	4,666,575	00:0
892	98	269	01:43:00.733	117GE	**CSMOS**	GS	***** GROUP START CSMOS	3R3	4	0	4,666,575	77:0
893	98	269	01:43:08.733	165GE4B	7VECT		Inert vect update UTC	3R3	4	0	4,666,575	89:0
894	98	269	01:43:10.066	117GE105A106A4A	7STRP	0.026006,0.0,0,0	Slew =,0.61	3R3	4	0	4,666,576	00:0
895	98	269	01:43:56.066	117GE105A106A4B	7STRP	0.00025,-0.0009,	Slew =12.01	3R3	4	0	4,666,576	69:0
896	98	269	01:44:05.400	117GE105A106A4C	7STRP	0.026006,0.0,0,0	Slew =,0.61	3R3	4	0	4,666,576	83:0
897	98	269	01:44:51.400	117GE105A106A4D	7STRP	0.00025,-0.0009,	Slew =12.01	3R3	4	0	4,666,577	61:0
898	98	269	01:45:00.733	117GE105A106A4E	7STRP	0.026006,0.0,0,0	Slew =,0.61	3R3	4	0	4,666,577	75:0
899	98	269	01:45:46.733	117GE105A106A4F	7STRP	0.00025,-0.0009,	Slew =12.01	3R3	4	0	4,666,578	53:0
900	98	269	01:45:56.066	117GE105A106A4G	7STRP	0.026006,0.0,0,0	Slew =,0.61	3R3	4	0	4,666,578	67:0
901	98	269	01:46:42.066	117GE105A106A4H	7STRP	0.00025,-0.0009,	Slew =12.01	3R3	4	0	4,666,579	45:0
902	98	269	01:46:51.400	117GE105A106A4I	7STRP	0.026006,0.0,0,0	Slew =,0.61	3R3	4	0	4,666,579	59:0
903	98	269	01:47:37.400	117GE105A106A4J	7STRP	0.00025,-0.0009,	Slew =12.01	3R3	4	0	4,666,580	37:0
904	98	269	01:47:46.733	117GE105A106A4K	7STRP	0.026006,0.0,0,0	Slew =,0.61	3R3	4	0	4,666,580	51:0
905	98	269	01:48:32.733	117GE105A106A4L	7STRP	0.00025,-0.0009,	Slew =12.01	3R3	4	0	4,666,581	29:0
906	98	269	01:48:42.066	117GE105A106A4M	7STRP	0.026006,0.0,0,0	Slew =,0.61	3R3	4	0	4,666,581	43:0
907	98	269	01:49:28.066	117GE105A106A4N	7STRP	0.00025,-0.0009,	Slew =12.01	3R3	4	0	4,666,582	21:0
908	98	269	01:49:37.400	117GE105A106A4O	7STRP	0.026006,0.0,0,0	Slew =,0.61	3R3	4	0	4,666,582	35:0
909	98	269	01:50:23.400	117GE105A106A4P	7STRP	0.00025,-0.0009,	Slew =12.01	3R3	4	0	4,666,583	13:0
910	98	269	01:50:32.733	117GE105A106A4Q	7STRP	0.026006,0.0,0,0	Slew =,0.61	3R3	4	0	4,666,583	27:0
911	98	269	01:51:18.733	117GE105A106A4R	7STRP	0.00025,-0.0009,	Slew =12.01	3R3	4	0	4,666,584	05:0
912	98	269	01:51:28.066	117GE105A106A4S	7STRP	0.026006,0.0,0,0	Slew =,0.61	3R3	4	0	4,666,584	19:0
913	98	269	01:52:14.066	117GE105A106A4T	7STRP	0.00025,-0.0009,	Slew =12.01	3R3	4	0	4,666,584	88:0
914	98	269	01:52:15.400	488AD6B	6TMSED	NORM,EL5	Sci, Eng, and D/L Chan	3R3	4	0	4,666,584	90:0
915	98	269	01:52:23.400	117GE105A106A4U	7STRP	0.026006,0.0,0,0	Slew =,0.61	3R3	4	0	4,666,585	11:0
916	98	269	01:53:09.400	117GE105A106A4V	7STRP	0.00025,-0.0009,	Slew =12.01	3R3	4	0	4,666,585	80:0
917	98	269	01:53:18.733	117GE105A106A4W	7STRP	0.026006,0.0,0,0	Slew =,0.61	3R3	4	0	4,666,586	03:0
918	98	269	01:53:20.733	488AD6C	6TMSED	NORM,GL5	Sci, Eng, and D/L Chan	3R3	4	0	4,666,586	06:0
919	98	269	01:53:21.400	282NE432A431A6A	6RCDSL	DDSNCG,PLSDSL,EP	Record Deselect (DDS o	3R3	4	0	4,666,586	07:0
920	98	269	01:53:22.066	282NE432A6A	6RTSL1		R/T Select of DDS and	3R3	4	0	4,666,586	08:0
921	98	269	01:54:04.733	117GE105A106A4X	7STRP	0.00025,-0.0009,	Slew =12.01	3R3	4	0	4,666,586	72:0
922	98	269	01:54:14.066	117GE105A106A4Y	7STRP	0.026006,0.0,0,0	Slew =,0.61	3R3	4	0	4,666,586	86:0
923	98	269	01:54:44.066		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 5970.65 +/- 1	3R3	4	0	4,666,587	40:0
924	98	269	01:54:44.066	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	3R3	4	0	4,666,587	40:0
925	98	269	01:54:45.466		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *5970.77 +/- 1	3R3	4	0	4,666,587	42:1
926	98	269	01:54:50.733		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *5972.01 +/- 1	3R3	4	0	4,666,587	50:0
927	98	269	01:54:51.933		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *5972.07 +/- 1	3R3	4	0	4,666,587	51:8
928	98	269	01:54:53.333		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *5971.95 +/- 1	3R3	4	0	4,666,587	53:9
929	98	269	01:55:00.066	117GE105A106A4Z	7STRP	0.00025,-0.0009,	Slew =12.01	3R3	4	0	4,666,587	64:0
930	98	269	01:55:09.400		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *5968.18 +/- 1	3R3	4	0	4,666,587	78:0
931	98	269	01:55:09.400	117GE105A106A4AA	7STRP	0.026006,0.0,0,0	Slew =,0.61	3R3	4	0	4,666,587	78:0
932	98	269	01:55:32.066		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *5962.87 +/- 1	3R3	4	0	4,666,588	21:0
933	98	269	01:55:32.066	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	3R3	4	0	4,666,588	21:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
934	98	269	01:55:33.266		DMS:	: *READY	RDY, TRACK 2, REV, TIC *5962.81 +/- 1	3R3	4	0	4,666,588	22:8
935	98	269	01:55:55.400	117GE105A106A4AB	7STRP	0.00025,-0.0009,	Slew =12.01	3R3	4	0	4,666,588	56:0
936	98	269	01:56:04.733	117GE105A106A4AC	7STRP	0.026006,0.0,0,0	Slew =,0.61	3R3	4	0	4,666,588	70:0
937	98	269	01:56:50.733	117GE105A106A4AD	7STRP	0.00025,-0.0009,	Slew =12.01	3R3	4	0	4,666,589	48:0
938	98	269	01:57:00.066	117GE105A106A4AE	7STRP	0.026006,0.0,0,0	Slew =,0.61	3R3	4	0	4,666,589	62:0
939	98	269	01:57:46.066	117GE105A106B4A	7STRP	0.0002,-0.0011,0	Slew =12.01	3R3	4	0	4,666,590	40:0
940	98	269	01:57:55.400	117GE105A106B4B	7STRP	0.033012,0.0,0,0	Slew =,0.61	3R3	4	0	4,666,590	54:0
941	98	269	01:58:53.400	117GE105A106B4C	7STRP	0.0002,-0.0011,0	Slew =12.01	3R3	4	0	4,666,591	50:0
942	98	269	01:59:02.733	117GE105A106B4D	7STRP	0.033012,0.0,0,0	Slew =,0.61	3R3	4	0	4,666,591	64:0
943	98	269	02:00:00.733	117GE105A106B4E	7STRP	0.0002,-0.0011,0	Slew =12.01	3R3	4	0	4,666,592	60:0
944	98	269	02:00:10.066	117GE105A106B4F	7STRP	0.033012,0.0,0,0	Slew =,0.61	3R3	4	0	4,666,592	74:0
945	98	269	02:01:08.066	117GE105A106B4G	7STRP	0.0002,-0.0011,0	Slew =12.01	3R3	4	0	4,666,593	70:0
946	98	269	02:01:17.400	117GE105A106B4H	7STRP	0.033012,0.0,0,0	Slew =,0.61	3R3	4	0	4,666,593	84:0
947	98	269	02:02:15.400	117GE105A106B4I	7STRP	0.0002,-0.0011,0	Slew =12.01	3R3	4	0	4,666,594	80:0
948	98	269	02:02:24.733	117GE105A106B4J	7STRP	0.033012,0.0,0,0	Slew =,0.61	3R3	4	0	4,666,595	03:0
949	98	269	02:03:22.733	117GE105A106B4K	7STRP	0.0002,-0.0011,0	Slew =12.01	3R3	4	0	4,666,595	90:0
950	98	269	02:03:32.066	117GE105A106B4L	7STRP	0.033012,0.0,0,0	Slew =,0.61	3R3	4	0	4,666,596	13:0
951	98	269	02:04:30.066	117GE105A106B4M	7STRP	0.0002,-0.0011,0	Slew =12.01	3R3	4	0	4,666,597	09:0
952	98	269	02:04:39.400	117GE105A106B4N	7STRP	0.033012,0.0,0,0	Slew =,0.61	3R3	4	0	4,666,597	23:0
953	98	269	02:05:37.400	117GE105A106B4O	7STRP	0.0002,-0.0011,0	Slew =12.01	3R3	4	0	4,666,598	19:0
954	98	269	02:05:46.733	117GE105A106B4P	7STRP	0.033012,0.0,0,0	Slew =,0.61	3R3	4	0	4,666,598	33:0
955	98	269	02:06:44.733	117GE105A106B4Q	7STRP	0.0002,-0.0011,0	Slew =12.01	3R3	4	0	4,666,599	29:0
956	98	269	02:06:54.066	117GE105A106B4R	7STRP	0.033012,0.0,0,0	Slew =,0.61	3R3	4	0	4,666,599	43:0
957	98	269	02:07:46.066		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 5962.81 +/- 1	3R3	4	0	4,666,600	30:0
958	98	269	02:07:46.066	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	3R3	4	0	4,666,600	30:0
959	98	269	02:07:47.466		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *5962.93 +/- 1	3R3	4	0	4,666,600	32:1
960	98	269	02:07:52.066	117GE105A106B4S	7STRP	0.0002,-0.0011,0	Slew =12.01	3R3	4	0	4,666,600	39:0
961	98	269	02:07:52.733		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *5964.16 +/- 1	3R3	4	0	4,666,600	40:0
962	98	269	02:07:53.933		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *5964.22 +/- 1	3R3	4	0	4,666,600	41:8
963	98	269	02:07:55.333		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *5964.10 +/- 1	3R3	4	0	4,666,600	43:9
964	98	269	02:08:01.400	117GE105A106B4T	7STRP	0.033012,0.0,0,0	Slew =,0.61	3R3	4	0	4,666,600	53:0
965	98	269	02:08:11.400		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *5960.34 +/- 1	3R3	4	0	4,666,600	68:0
966	98	269	02:08:34.066		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *5955.03 +/- 1	3R3	4	0	4,666,601	11:0
967	98	269	02:08:34.066	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	3R3	4	0	4,666,601	11:0
968	98	269	02:08:35.266		DMS:	: *READY	RDY, TRACK 2, REV, TIC *5954.97 +/- 1	3R3	4	0	4,666,601	12:8
969	98	269	02:08:59.400	117GE105A106B4U	7STRP	0.0002,-0.0011,0	Slew =12.01	3R3	4	0	4,666,601	49:0
970	98	269	02:09:08.733	117GE105A106B4V	7STRP	0.033012,0.0,0,0	Slew =,0.61	3R3	4	0	4,666,601	63:0
971	98	269	02:10:06.733	117GE105A106B4W	7STRP	0.0002,-0.0011,0	Slew =12.01	3R3	4	0	4,666,602	59:0
972	98	269	02:10:16.066	117GE105A106B4X	7STRP	0.033012,0.0,0,0	Slew =,0.61	3R3	4	0	4,666,602	73:0
973	98	269	02:11:14.066	117GE105A106B4Y	7STRP	0.0002,-0.0011,0	Slew =12.01	3R3	4	0	4,666,603	69:0
974	98	269	02:11:23.400	117GE105A106B4Z	7STRP	0.033012,0.0,0,0	Slew =,0.61	3R3	4	0	4,666,603	83:0
975	98	269	02:12:21.400	117GE105A106B4AA	7STRP	0.0002,-0.0011,0	Slew =12.01	3R3	4	0	4,666,604	79:0
976	98	269	02:12:30.733	117GE105A106B4AB	7STRP	0.033012,0.0,0,0	Slew =,0.61	3R3	4	0	4,666,605	02:0
977	98	269	02:13:28.733	117GE105A106B4AC	7STRP	0.0002,-0.0011,0	Slew =12.01	3R3	4	0	4,666,605	89:0
978	98	269	02:13:38.066	117GE105A106B4AD	7STRP	0.033012,0.0,0,0	Slew =,0.61	3R3	4	0	4,666,606	12:0
979	98	269	02:14:36.066	117GE105A106B4AE	7STRP	0.0002,-0.0011,0	Slew =12.01	3R3	4	0	4,666,607	08:0
980	98	269	02:14:45.400	117GE105A106B4AF	7STRP	0.033012,0.0,0,0	Slew =,0.61	3R3	4	0	4,666,607	22:0
981	98	269	02:15:43.400	117GE105A106B4AG	7STRP	0.0002,-0.0011,0	Slew =12.01	3R3	4	0	4,666,608	18:0
982	98	269	02:15:52.733	117GE105A106B4AH	7STRP	0.033012,0.0,0,0	Slew =,0.61	3R3	4	0	4,666,608	32:0
983	98	269	02:16:50.733	117GE105A106B4AI	7STRP	0.0002,-0.0011,0	Slew =12.01	3R3	4	0	4,666,609	28:0
984	98	269	02:17:00.066	117GE105A106B4AJ	7STRP	0.033012,0.0,0,0	Slew =,0.61	3R3	4	0	4,666,609	42:0
985	98	269	02:17:58.066	117GE105A106B4AK	7STRP	0.0002,-0.0011,0	Slew =12.01	3R3	4	0	4,666,610	38:0
986	98	269	02:18:07.400	117GE105A106B4AL	7STRP	0.033012,0.0,0,0	Slew =,0.61	3R3	4	0	4,666,610	52:0
987	98	269	02:19:05.400	117GE105A106B4AM	7STRP	0.0002,-0.0011,0	Slew =12.01	3R3	4	0	4,666,611	48:0
988	98	269	02:19:14.733	117GE105A106B4AN	7STRP	0.033012,0.0,0,0	Slew =,0.61	3R3	4	0	4,666,611	62:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
989	98	269	02:20:12.733	117GE105A106C4A	7STRP	0.0002,-0.0014,0	Slew =12.01	3R3	4	0	4,666,612	58:0
990	98	269	02:20:23.400	117GE105A106C4B	7STRP	0.036817,0.0,0,0	Slew =,0.61	3R3	4	0	4,666,612	74:0
991	98	269	02:20:48.066		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 5954.97 +/- 1	3R3	4	0	4,666,613	20:0
992	98	269	02:20:48.066	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	3R3	4	0	4,666,613	20:0
993	98	269	02:20:49.466		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *5955.09 +/- 1	3R3	4	0	4,666,613	22:1
994	98	269	02:20:54.733		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *5956.32 +/- 1	3R3	4	0	4,666,613	30:0
995	98	269	02:20:55.933		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *5956.38 +/- 1	3R3	4	0	4,666,613	31:8
996	98	269	02:20:57.333		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *5956.26 +/- 1	3R3	4	0	4,666,613	33:9
997	98	269	02:21:13.400		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *5952.49 +/- 1	3R3	4	0	4,666,613	58:0
998	98	269	02:21:28.066	117GE105A106C4C	7STRP	0.0002,-0.0014,0	Slew =12.01	3R3	4	0	4,666,613	80:0
999	98	269	02:21:36.066		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *5947.18 +/- 1	3R3	4	0	4,666,614	01:0
1000	98	269	02:21:36.066	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	3R3	4	0	4,666,614	01:0
1001	98	269	02:21:37.266		DMS:	: *READY	RDY, TRACK 2, REV, TIC *5947.12 +/- 1	3R3	4	0	4,666,614	02:8
1002	98	269	02:21:38.733	117GE105A106C4D	7STRP	0.036817,0.0,0,0	Slew =,0.61	3R3	4	0	4,666,614	05:0
1003	98	269	02:22:43.400	117GE105A106C4E	7STRP	0.0002,-0.0014,0	Slew =12.01	3R3	4	0	4,666,615	11:0
1004	98	269	02:22:54.066	117GE105A106C4F	7STRP	0.036817,0.0,0,0	Slew =,0.61	3R3	4	0	4,666,615	27:0
1005	98	269	02:23:58.733	117GE105A106C4G	7STRP	0.0002,-0.0014,0	Slew =12.01	3R3	4	0	4,666,616	33:0
1006	98	269	02:24:09.400	117GE105A106C4H	7STRP	0.036817,0.0,0,0	Slew =,0.61	3R3	4	0	4,666,616	49:0
1007	98	269	02:25:14.066	117GE105A106C4I	7STRP	0.0002,-0.0014,0	Slew =12.01	3R3	4	0	4,666,617	55:0
1008	98	269	02:25:24.733	117GE105A106C4J	7STRP	0.036817,0.0,0,0	Slew =,0.61	3R3	4	0	4,666,617	71:0
1009	98	269	02:26:29.400	117GE105A106C4K	7STRP	0.0002,-0.0014,0	Slew =12.01	3R3	4	0	4,666,618	77:0
1010	98	269	02:26:40.066	117GE105A106C4L	7STRP	0.036817,0.0,0,0	Slew =,0.61	3R3	4	0	4,666,619	02:0
1011	98	269	02:27:44.733	117GE105A106C4M	7STRP	0.0002,-0.0014,0	Slew =12.01	3R3	4	0	4,666,620	08:0
1012	98	269	02:27:55.400	117GE105A106C4N	7STRP	0.036817,0.0,0,0	Slew =,0.61	3R3	4	0	4,666,620	24:0
1013	98	269	02:29:00.066	117GE105A106C4O	7STRP	0.0002,-0.0014,0	Slew =12.01	3R3	4	0	4,666,621	30:0
1014	98	269	02:29:10.733	117GE105A106C4P	7STRP	0.036817,0.0,0,0	Slew =,0.61	3R3	4	0	4,666,621	46:0
1015	98	269	02:30:15.400	117GE105A106C4Q	7STRP	0.0002,-0.0014,0	Slew =12.01	3R3	4	0	4,666,622	52:0
1016	98	269	02:30:26.066	117GE105A106C4R	7STRP	0.036817,0.0,0,0	Slew =,0.61	3R3	4	0	4,666,622	68:0
1017	98	269	02:31:30.733	117GE105A106C4S	7STRP	0.0002,-0.0014,0	Slew =12.01	3R3	4	0	4,666,623	74:0
1018	98	269	02:31:41.400	117GE105A106C4T	7STRP	0.036817,0.0,0,0	Slew =,0.61	3R3	4	0	4,666,623	90:0
1019	98	269	02:32:30.733	488AD6D	6TMSED	FILL,GL5	Sci, Eng, and D/L Chan	3R3	4	0	4,666,624	73:0
1020	98	269	02:32:46.066	117GE105A106C4U	7STRP	0.0002,-0.0014,0	Slew =12.01	3R3	4	0	4,666,625	05:0
1021	98	269	02:32:56.733	117GE105A106C4V	7STRP	0.036817,0.0,0,0	Slew =,0.61	3R3	4	0	4,666,625	21:0
1022	98	269	02:33:50.733		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 5947.12 +/- 1	3R3	4	0	4,666,626	11:0
1023	98	269	02:33:50.733	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	3R3	4	0	4,666,626	11:0
1024	98	269	02:33:52.133		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *5947.24 +/- 1	3R3	4	0	4,666,626	13:1
1025	98	269	02:33:57.400		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *5948.48 +/- 1	3R3	4	0	4,666,626	21:0
1026	98	269	02:33:58.600		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *5948.54 +/- 1	3R3	4	0	4,666,626	22:8
1027	98	269	02:34:00.000		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *5948.42 +/- 1	3R3	4	0	4,666,626	24:9
1028	98	269	02:34:01.400	117GE105A106C4W	7STRP	0.0002,-0.0014,0	Slew =12.01	3R3	4	0	4,666,626	27:0
1029	98	269	02:34:12.066	117GE105A106C4X	7STRP	0.036817,0.0,0,0	Slew =,0.61	3R3	4	0	4,666,626	43:0
1030	98	269	02:34:15.400		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *5944.81 +/- 1	3R3	4	0	4,666,626	48:0
1031	98	269	02:34:38.066		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *5939.49 +/- 1	3R3	4	0	4,666,626	82:0
1032	98	269	02:34:38.066	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	3R3	4	0	4,666,626	82:0
1033	98	269	02:34:39.266		DMS:	: *READY	RDY, TRACK 2, REV, TIC *5939.43 +/- 1	3R3	4	0	4,666,626	83:8
1034	98	269	02:35:16.733	117GE105A106C4Y	7STRP	0.0002,-0.0014,0	Slew =12.01	3R3	4	0	4,666,627	49:0
1035	98	269	02:35:27.400	117GE105A106C4Z	7STRP	0.036817,0.0,0,0	Slew =,0.61	3R3	4	0	4,666,627	65:0
1036	98	269	02:36:32.066	117GE105A106C4AA	7STRP	0.0002,-0.0014,0	Slew =12.01	3R3	4	0	4,666,628	71:0
1037	98	269	02:36:42.733	117GE105A106C4AB	7STRP	0.036817,0.0,0,0	Slew =,0.61	3R3	4	0	4,666,628	87:0
1038	98	269	02:37:47.400	117GE105A106C4AC	7STRP	0.0002,-0.0014,0	Slew =12.01	3R3	4	0	4,666,630	02:0
1039	98	269	02:37:58.066	117GE105A106C4AD	7STRP	0.036817,0.0,0,0	Slew =,0.61	3R3	4	0	4,666,630	18:0
1040	98	269	02:39:02.733	117GE105A106C4AE	7STRP	0.0002,-0.0014,0	Slew =12.01	3R3	4	0	4,666,631	24:0
1041	98	269	02:39:13.400	117GE105A106C4AF	7STRP	0.036817,0.0,0,0	Slew =,0.61	3R3	4	0	4,666,631	40:0
1042	98	269	02:40:18.066	117GE105A106C4AG	7STRP	0.0002,-0.0014,0	Slew =12.01	3R3	4	0	4,666,632	46:0
1043	98	269	02:40:28.733	117GE105A106C4AH	7STRP	0.036817,0.0,0,0	Slew =,0.61	3R3	4	0	4,666,632	62:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1044	98	269	02:41:33.400	117GE105A106C4AI	7STRP	0.0002,-0.0014,0	Slew =12.01	3R3	4	0	4,666,633:68:0	
1045	98	269	02:41:44.066	117GE105A106C4AJ	7STRP	0.036817,0.0,0,0	Slew =,0.61	3R3	4	0	4,666,633:84:0	
1046	98	269	02:42:48.733	117GE105A106C4AK	7STRP	0.0002,-0.0014,0	Slew =12.01	3R3	4	0	4,666,634:90:0	
1047	98	269	02:42:59.400	117GE105A106C4AL	7STRP	0.036817,0.0,0,0	Slew =,0.61	3R3	4	0	4,666,635:15:0	
1048	98	269	02:44:04.066	117GE105A106C4AM	7STRP	0.0002,-0.0014,0	Slew =12.01	3R3	4	0	4,666,636:21:0	
1049	98	269	02:44:14.733	117GE105A106C4AN	7STRP	0.036817,0.0,0,0	Slew =,0.61	3R3	4	0	4,666,636:37:0	
1050	98	269	02:45:19.400	117GE105A106C4AO	7STRP	0.0002,-0.0014,0	Slew =12.01	3R3	4	0	4,666,637:43:0	
1051	98	269	02:45:30.066	117GE105A106C4AP	7STRP	0.036817,0.0,0,0	Slew =,0.61	3R3	4	0	4,666,637:59:0	
1052	98	269	02:46:34.733	117GE11A	**CSMOS**	GE	***** GROUP END CSMOS	3R3	4	0	4,666,638:65:0	
1053	98	269	02:46:35.400	176GF6B	6TMREC	**NRC**	NO RECORD Record Mode Change	3R3	4	0	4,666,638:66:0	
1054	98	269	02:46:37.400		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 5939.43 +/- 1	3R3	4	0	4,666,638:69:0	
1055	98	269	02:46:37.400	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	3R3	4	0	4,666,638:69:0	
1056	98	269	02:46:38.800		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *5939.55 +/- 1	3R3	4	0	4,666,638:71:1	
1057	98	269	02:46:44.066		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *5940.79 +/- 1	3R3	4	0	4,666,638:79:0	
1058	98	269	02:46:45.266		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *5940.85 +/- 1	3R3	4	0	4,666,638:80:8	
1059	98	269	02:46:46.666		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *5940.73 +/- 1	3R3	4	0	4,666,638:82:9	
1060	98	269	02:46:47.400		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *5940.56 +/- 1	3R3	4	0	4,666,638:84:0	
1061	98	269	02:47:08.733		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *5935.56 +/- 1	3R3	4	0	4,666,639:25:0	
1062	98	269	02:47:08.733	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	3R3	4	0	4,666,639:25:0	
1063	98	269	02:47:09.933		DMS:	: *READY	RDY, TRACK 2, REV, TIC *5935.50 +/- 1	3R3	4	0	4,666,639:26:8	
1064	98	269	02:48:47.400	165IF4A	7SCAN	NORM,282.693996,	Check S/P Position	3R3	4	0	4,666,640:82:0	
1065	98	269	02:48:57.400	118IF	**SMOS**	GS		3R3	4	0	4,666,641:06:0	
1066	98	269	02:49:16.733	175IF422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	3R3	4	0	4,666,641:35:0	
1067	98	269	02:49:16.733		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 5935.50 +/- 1	3R3	4	0	4,666,641:35:0	
1068	98	269	02:49:18.133		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *5935.62 +/- 1	3R3	4	0	4,666,641:37:1	
1069	98	269	02:49:23.400		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *5936.85 +/- 1	3R3	4	0	4,666,641:45:0	
1070	98	269	02:49:24.600		DMS:	: *RUNUP	R806, TRACK *2, *REV, TIC *5936.91 +/- 1	3R3	4	0	4,666,641:46:8	
1071	98	269	02:49:26.733	165IF4B	7VECT		Inert vect update UTC	3R3	4	0	4,666,641:50:0	
1072	98	269	02:49:29.400	175IF176A6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	3R3	4	0	4,666,641:54:0	
1073	98	269	02:49:29.866		DMS:	**: *RECORD**	R806, TRACK 2, REV, TIC *5870.91 +/- 1	3R3	4	0	4,666,641:54:7	
1074	98	269	02:49:29.866		DMS:	: *AT_SPD	R806, TRACK 2, REV, TIC 5870.91 +/- 1	3R3	4	0	4,666,641:54:7	
1075	98	269	02:49:30.066	118IF110A111A4A	7STRP	0.001,-0.00731,2	Slew =,3.71	3R3	4	0	4,666,641:55:0	
1076	98	269	02:49:38.733	118IF110A111B4A	7STRP	-0.00731,0.0,0,0	Slew =,3.51	3R3	4	0	4,666,641:68:0	
1077	98	269	02:49:47.400	118IF110A111B4B	7STRP	0.001,-0.00731,2	Slew =,3.71	3R3	4	0	4,666,641:81:0	
1078	98	269	02:50:13.400	118IF11A	**SMOS**	GE		3R3	4	0	4,666,642:29:0	
1079	98	269	02:50:14.066	116IF4A	7STRP	-0.00731,-0.0057	Slew =,3.51	3R3	4	0	4,666,642:30:0	
1080	98	269	02:50:22.066	116JF4A	7STRP	0.00731,-0.00161	Slew =,3.51	3R3	4	0	4,666,642:42:0	
1081	98	269	02:50:30.733	116JD4A	7STRP	-0.0004,-0.00731	Slew =,3.71	3R3	4	0	4,666,642:55:0	
1082	98	269	02:50:39.400	116JE4A	7STRP	-0.0012,-0.00731	Slew =,3.71	3R3	4	0	4,666,642:68:0	
1083	98	269	02:50:48.066	116JI4A	7STRP	-0.0012,-0.00731	Slew =,3.71	3R3	4	0	4,666,642:81:0	
1084	98	269	02:50:56.733	116JJ4A	7STRP	-0.0012,-0.00731	Slew =,3.71	3R3	4	0	4,666,643:03:0	
1085	98	269	02:51:05.400	116JK4A	7STRP	-0.0004,-0.00731	Slew =,3.71	3R3	4	0	4,666,643:16:0	
1086	98	269	02:51:14.066	116JM4A	7STRP	-0.0004,-0.00731	Slew =,3.71	3R3	4	0	4,666,643:29:0	
1087	98	269	02:51:22.733	116JS4A	7STRP	0.001,-0.00731,0	Slew =,3.51	3R3	4	0	4,666,643:42:0	
1088	98	269	02:51:31.400	116JQ4A	7STRP	-0.00731,-0.002,	Slew =,3.51	3R3	4	0	4,666,643:55:0	
1089	98	269	02:51:40.066	116JR4A	7STRP	-0.00731,0.003,0	Slew =,3.51	3R3	4	0	4,666,643:68:0	
1090	98	269	02:51:48.733	116JP4A	7STRP	-0.0065,0.0068,0	Slew =,3.51	3R3	4	0	4,666,643:81:0	
1091	98	269	02:51:57.400	116JA4A	7STRP	-0.00731,-0.001,	Slew =,3.51	3R3	4	0	4,666,644:03:0	
1092	98	269	02:52:12.733	175IF422A6B	6DMSC	RDY,0	DMS Control Tape stop	3R3	4	0	4,666,644:26:0	
1093	98	269	02:52:12.733		DMS:	**: *RUNDOWN**	R806, TRACK 2, REV, TIC *1862.86 +/- 1	3R3	4	0	4,666,644:26:0	
1094	98	269	02:52:15.466		DMS:	: *READY	RDY, TRACK 2, REV, TIC *1851.36 +/- 1	3R3	4	0	4,666,644:30:1	
1095	98	269	02:52:22.733	165IG4A	7SCAN	NORM,283.393997,	Check S/P Position	3R3	4	0	4,666,644:41:0	
1096	98	269	02:53:00.066	118IG	**SMOS**	GS		3R3	4	0	4,666,645:06:0	
1097	98	269	02:53:20.733	175IG422A6A	6DMSC	R403,0	DMS Control Tape runup 403.2kb	3R3	4	0	4,666,645:37:0	
1098	98	269	02:53:20.733		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 1851.36 +/- 1	3R3	4	0	4,666,645:37:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1099	98	269	02:53:22.133		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *1851.48 +/- 1	3R3	4	0	4,666,645	39:1
1100	98	269	02:53:27.400		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *1852.72 +/- 1	3R3	4	0	4,666,645	47:0
1101	98	269	02:53:28.600		DMS:	: *RUNUP	R403, TRACK *2, *REV, TIC *1852.78 +/- 1	3R3	4	0	4,666,645	48:8
1102	98	269	02:53:29.400	165IG4B	7VECT		Inert vect update UTC	3R3	4	0	4,666,645	50:0
1103	98	269	02:53:32.066	175IG176A6A	6TMREC	IM4	403.2 KBPS IMAGE RECORD Record Mode Chang	3R3	4	0	4,666,645	54:0
1104	98	269	02:53:32.466		DMS:	**: *RECORD**	R403, TRACK 2, REV, TIC *1829.78 +/- 1	3R3	4	0	4,666,645	54:6
1105	98	269	02:53:32.466		DMS:	: *AT_SPD	R403, TRACK 2, REV, TIC 1829.78 +/- 1	3R3	4	0	4,666,645	54:6
1106	98	269	02:53:32.733	118IG110A111A4A	7STRP	0.001,-0.00731,2	Slew =,3.71	3R3	4	0	4,666,645	55:0
1107	98	269	02:53:50.066	118IG11A	**SMOS**	GE		3R3	4	0	4,666,645	81:0
1108	98	269	02:53:50.733	116IZ4A	7STRP	0.0,-0.00731,0,0	Slew =,3.71	3R3	4	0	4,666,645	82:0
1109	98	269	02:53:58.733	116IG4A	7STRP	-0.0005,-0.00731	Slew =,3.71	3R3	4	0	4,666,646	03:0
1110	98	269	02:54:07.400	116JG4A	7STRP	-0.00125,-0.0073	Slew =,3.71	3R3	4	0	4,666,646	16:0
1111	98	269	02:54:16.066	116JX4A	7STRP	-0.00125,-0.0073	Slew =,3.71	3R3	4	0	4,666,646	29:0
1112	98	269	02:54:24.733	116JY4A	7STRP	-0.0014,-0.00731	Slew =,3.71	3R3	4	0	4,666,646	42:0
1113	98	269	02:54:33.400	116JZ4A	7STRP	-0.0004,-0.00731	Slew =,3.71	3R3	4	0	4,666,646	55:0
1114	98	269	02:54:48.733	175IG422A6B	6DMSC	RDY,0	DMS Control Tape stop	3R3	4	0	4,666,646	78:0
1115	98	269	02:54:48.733		DMS:	**: *RUNDOWN**	R403, TRACK 2, REV, TIC * 891.34 +/- 1	3R3	4	0	4,666,646	78:0
1116	98	269	02:54:51.466		DMS:	: *READY	RDY, TRACK 2, REV, TIC * 887.34 +/- 1	3R3	4	0	4,666,646	82:1
1117	98	269	02:55:05.400	165IH4A	7SCAN	NORM,282.723999,	Check S/P Position	3R3	4	0	4,666,647	12:0
1118	98	269	02:55:56.733	175IH422A6A	6DMSC	R403,0	DMS Control Tape runup 403.2kb	3R3	4	0	4,666,647	89:0
1119	98	269	02:55:56.733		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 887.34 +/- 1	3R3	4	0	4,666,647	89:0
1120	98	269	02:55:58.133		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 887.46 +/- 1	3R3	4	0	4,666,648	00:1
1121	98	269	02:56:03.400		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 888.70 +/- 1	3R3	4	0	4,666,648	08:0
1122	98	269	02:56:04.600		DMS:	: *RUNUP	R403, TRACK *2, *REV, TIC * 888.76 +/- 1	3R3	4	0	4,666,648	09:8
1123	98	269	02:56:05.400	165IH4B	7VECT		Inert vect update UTC	3R3	4	0	4,666,648	11:0
1124	98	269	02:56:08.066	175IH176A6A	6TMREC	IM4	403.2 KBPS IMAGE RECORD Record Mode Chang	3R3	4	0	4,666,648	15:0
1125	98	269	02:56:08.466		DMS:	**: *RECORD**	R403, TRACK 2, REV, TIC * 865.76 +/- 1	3R3	4	0	4,666,648	15:6
1126	98	269	02:56:08.466		DMS:	: *AT_SPD	R403, TRACK 2, REV, TIC 865.76 +/- 2	3R3	4	0	4,666,648	15:6
1127	98	269	02:56:08.733	116IH4A	7STRP	-0.0061,-0.00036	Slew =0,3.1	3R3	4	0	4,666,648	16:0
1128	98	269	02:56:12.066	175IH422A6B	6DMSC	RDY,0	DMS Control Tape stop	3R3	4	0	4,666,648	21:0
1129	98	269	02:56:12.066		DMS:	**: *RUNDOWN**	R403, TRACK 2, REV, TIC * 821.46 +/- 2	3R3	4	0	4,666,648	21:0
1130	98	269	02:56:14.800		DMS:	: *READY	RDY, TRACK 2, REV, TIC * 817.46 +/- 2	3R3	4	0	4,666,648	25:1
1131	98	269	02:57:23.400	175JW422A6A	6DMSC	R403,0	DMS Control Tape runup 403.2kb	3R3	4	0	4,666,649	37:0
1132	98	269	02:57:23.400		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 817.46 +/- 2	3R3	4	0	4,666,649	37:0
1133	98	269	02:57:24.800		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 817.58 +/- 2	3R3	4	0	4,666,649	39:1
1134	98	269	02:57:30.066		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 818.81 +/- 2	3R3	4	0	4,666,649	47:0
1135	98	269	02:57:31.266		DMS:	: *RUNUP	R403, TRACK *2, *REV, TIC * 818.87 +/- 2	3R3	4	0	4,666,649	48:8
1136	98	269	02:57:34.733	175JW176A6A	6TMREC	IM4	403.2 KBPS IMAGE RECORD Record Mode Chang	3R3	4	0	4,666,649	54:0
1137	98	269	02:57:35.133		DMS:	: *AT_SPD	R403, TRACK 2, REV, TIC 795.87 +/- 2	3R3	4	0	4,666,649	54:6
1138	98	269	02:57:35.133		DMS:	**: *RECORD**	R403, TRACK 2, REV, TIC * 795.87 +/- 2	3R3	4	0	4,666,649	54:6
1139	98	269	02:57:35.400	116JH4A	7STRP	-0.0061,0.00025,	Slew =0,3.1	3R3	4	0	4,666,649	55:0
1140	98	269	02:57:38.733	175JW422A6B	6DMSC	RDY,0	DMS Control Tape stop	3R3	4	0	4,666,649	60:0
1141	98	269	02:57:38.733		DMS:	**: *RUNDOWN**	R403, TRACK 2, REV, TIC * 751.58 +/- 2	3R3	4	0	4,666,649	60:0
1142	98	269	02:57:41.466		DMS:	: *READY	RDY, TRACK 2, REV, TIC * 747.58 +/- 2	3R3	4	0	4,666,649	64:1
1143	98	269	02:58:50.066	175JX422A6A	6DMSC	R403,0	DMS Control Tape runup 403.2kb	3R3	4	0	4,666,650	76:0
1144	98	269	02:58:50.066		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 747.58 +/- 2	3R3	4	0	4,666,650	76:0
1145	98	269	02:58:51.466		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 747.70 +/- 2	3R3	4	0	4,666,650	78:1
1146	98	269	02:58:56.733		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 748.93 +/- 2	3R3	4	0	4,666,650	86:0
1147	98	269	02:58:57.933		DMS:	: *RUNUP	R403, TRACK *2, *REV, TIC * 748.99 +/- 2	3R3	4	0	4,666,650	87:8
1148	98	269	02:59:01.400	175JX176A6A	6TMREC	IM4	403.2 KBPS IMAGE RECORD Record Mode Chang	3R3	4	0	4,666,651	02:0
1149	98	269	02:59:01.800		DMS:	: *AT_SPD	R403, TRACK 2, REV, TIC 725.99 +/- 2	3R3	4	0	4,666,651	02:6
1150	98	269	02:59:01.800		DMS:	**: *RECORD**	R403, TRACK 2, REV, TIC * 725.99 +/- 2	3R3	4	0	4,666,651	02:6
1151	98	269	02:59:02.066	116JW4A	7STRP	-0.0061,-0.00141	Slew =0,3.1	3R3	4	0	4,666,651	03:0
1152	98	269	02:59:05.400		DMS:	**: *RUNDOWN**	R403, TRACK 2, REV, TIC * 681.69 +/- 2	3R3	4	0	4,666,651	08:0
1153	98	269	02:59:05.400	175JX422A6B	6DMSC	RDY,0	DMS Control Tape stop	3R3	4	0	4,666,651	08:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1154	98	269	02:59:08.133		DMS:	: *READY	RDY, TRACK 2, REV, TIC * 677.69 +/- 3	3R3	4	0	4,666,651:12:1	
1155	98	269	03:00:00.066	481UB4A	7VECT	BB2	Inert vect update UTC	3R3	4	0	4,666,651:90:0	
1156	98	269	03:00:16.733	175JY422A6A	6DMSC	R403,0	DMS Control Tape runup 403.2kb	3R3	4	0	4,666,652:24:0	
1157	98	269	03:00:16.733		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 677.69 +/- 3	3R3	4	0	4,666,652:24:0	
1158	98	269	03:00:18.133		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 677.81 +/- 3	3R3	4	0	4,666,652:26:1	
1159	98	269	03:00:23.400		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 679.05 +/- 3	3R3	4	0	4,666,652:34:0	
1160	98	269	03:00:24.600		DMS:	: *RUNUP	R403, TRACK *2, *REV, TIC * 679.11 +/- 3	3R3	4	0	4,666,652:35:8	
1161	98	269	03:00:28.066	175JY176A6A	6TMREC	IM4	403.2 KBPS IMAGE RECORD Record Mode Chang	3R3	4	0	4,666,652:41:0	
1162	98	269	03:00:28.466		DMS:	**: *RECORD**	R403, TRACK 2, REV, TIC * 656.11 +/- 3	3R3	4	0	4,666,652:41:6	
1163	98	269	03:00:28.466		DMS:	: *AT_SPD	R403, TRACK 2, REV, TIC 656.11 +/- 3	3R3	4	0	4,666,652:41:6	
1164	98	269	03:00:28.733	116JN4A	7STRP	-0.0061,-0.0021,	Slew =0,3.1	3R3	4	0	4,666,652:42:0	
1165	98	269	03:00:32.066	175JY422A6B	6DMSC	RDY,0	DMS Control Tape stop	3R3	4	0	4,666,652:47:0	
1166	98	269	03:00:32.066		DMS:	**: *RUNDOWN**	R403, TRACK 2, REV, TIC * 611.81 +/- 3	3R3	4	0	4,666,652:47:0	
1167	98	269	03:00:34.800		DMS:	: *READY	RDY, TRACK 2, REV, TIC * 607.81 +/- 3	3R3	4	0	4,666,652:51:1	
1168	**98**	**269**	**03:01:35.513**	**17NNSUCOMP01-**		**-----START------**		**3R3**	**4**	**0**	**: :**	
1169	98	269	03:01:43.400		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 607.81 +/- 3	3R3	4	0	4,666,653:63:0	
1170	98	269	03:01:43.400	175JZ422A6A	6DMSC	R403,0	DMS Control Tape runup 403.2kb	3R3	4	0	4,666,653:63:0	
1171	98	269	03:01:44.800		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 607.93 +/- 3	3R3	4	0	4,666,653:65:1	
1172	98	269	03:01:50.066		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 609.17 +/- 3	3R3	4	0	4,666,653:73:0	
1173	98	269	03:01:51.266		DMS:	: *RUNUP	R403, TRACK *2, *REV, TIC * 609.23 +/- 3	3R3	4	0	4,666,653:74:8	
1174	98	269	03:01:54.733	175JZ176A6A	6TMREC	IM4	403.2 KBPS IMAGE RECORD Record Mode Chang	3R3	4	0	4,666,653:80:0	
1175	98	269	03:01:55.133		DMS:	: *AT_SPD	R403, TRACK 2, REV, TIC 586.23 +/- 3	3R3	4	0	4,666,653:80:6	
1176	98	269	03:01:55.133		DMS:	**: *RECORD**	R403, TRACK 2, REV, TIC * 586.23 +/- 3	3R3	4	0	4,666,653:80:6	
1177	98	269	03:01:58.733		DMS:	**: *RUNDOWN**	R403, TRACK 2, REV, TIC * 541.93 +/- 3	3R3	4	0	4,666,653:86:0	
1178	98	269	03:01:58.733	175JZ422A6B	6DMSC	RDY,0	DMS Control Tape stop	3R3	4	0	4,666,653:86:0	
1179	98	269	03:02:01.466		DMS:	: *READY	RDY, TRACK 2, REV, TIC * 537.93 +/- 3	3R3	4	0	4,666,653:90:1	
1180	98	269	03:02:12.066	165II4A	7SCAN	NORM,282.825996,	Check S/P Position	3R3	4	0	4,666,654:15:0	
1181	98	269	03:03:10.066		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 537.93 +/- 3	3R3	4	0	4,666,655:11:0	
1182	98	269	03:03:10.066	175II422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	3R3	4	0	4,666,655:11:0	
1183	98	269	03:03:11.466		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 538.05 +/- 3	3R3	4	0	4,666,655:13:1	
1184	98	269	03:03:16.733		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 539.28 +/- 3	3R3	4	0	4,666,655:21:0	
1185	98	269	03:03:17.933		DMS:	: *RUNUP	R115, TRACK *2, *REV, TIC * 539.34 +/- 3	3R3	4	0	4,666,655:22:8	
1186	98	269	03:03:18.733	165II4B	7VECT		Inert vect update UTC	3R3	4	0	4,666,655:24:0	
1187	98	269	03:03:21.400	175II176A6A	6TMREC	HCA	115.2 KBPS IMAGE(1-200) RECORD Record Mod	3R3	4	0	4,666,655:28:0	
1188	98	269	03:03:21.933		DMS:	**: *RECORD**	R115, TRACK 2, REV, TIC * 533.04 +/- 3	3R3	4	0	4,666,655:28:8	
1189	98	269	03:03:21.933		DMS:	: *AT_SPD	R115, TRACK 2, REV, TIC 533.04 +/- 3	3R3	4	0	4,666,655:28:8	
1190	98	269	03:03:54.733	175II422A6B	6DMSC	RDY,0	DMS Control Tape stop	3R3	4	0	4,666,655:78:0	
1191	98	269	03:03:54.733		DMS:	**: *RUNDOWN**	R115, TRACK 2, REV, TIC * 417.73 +/- 3	3R3	4	0	4,666,655:78:0	
1192	98	269	03:03:55.933		DMS:	: *READY	RDY, TRACK 2, REV, TIC * 416.73 +/- 3	3R3	4	0	4,666,655:79:8	
1193	98	269	03:04:04.733	165IJ4A	7SCAN	NORM,283.125999,	Check S/P Position	3R3	4	0	4,666,656:02:0	
1194	**98**	**269**	**03:04:07.400**	**20DE5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**3R3**	**4**	**0**	**4,666,656:06:0**	
1195	**98**	**269**	**03:04:08.733**	**20DE5B**	**37MRL**		**Memory Realocate (software operates from R**	**3R3**	**4**	**0**	**4,666,656:08:0**	
1196	**98**	**269**	**03:04:10.066**	**20DE6A**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**3R3**	**4**	**0**	**4,666,656:10:0**	
1197	**98**	**269**	**03:04:20.066**	**20DE6B**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**3R3**	**4**	**0**	**4,666,656:25:0**	
1198	**98**	**269**	**03:04:30.066**	**20DE5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**4,666,656:40:0**	
1199	**98**	**269**	**03:04:50.066**	**20DE5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**4,666,656:70:0**	
1200	**98**	**269**	**03:04:58.066**	**20DE4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**4,666,656:82:0**	
1201	98	269	03:05:02.733	175IJ422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2R0	4	0	4,666,656:89:0	
1202	98	269	03:05:02.733		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 416.73 +/- 3	2R0	4	0	4,666,656:89:0	
1203	98	269	03:05:04.133		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 416.85 +/- 3	2R0	4	0	4,666,657:00:1	
1204	98	269	03:05:09.400		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 418.08 +/- 3	2R0	4	0	4,666,657:08:0	
1205	98	269	03:05:10.600		DMS:	: *RUNUP	R115, TRACK *2, *REV, TIC * 418.14 +/- 3	2R0	4	0	4,666,657:09:8	
1206	98	269	03:05:11.400	165IJ4B	7VECT		Inert vect update UTC	2R0	4	0	4,666,657:11:0	
1207	98	269	03:05:14.066	175IJ176A6A	6TMREC	HCA	115.2 KBPS IMAGE(1-200) RECORD Record Mod	2R0	4	0	4,666,657:15:0	
1208	98	269	03:05:14.600		DMS:	: *AT_SPD	R115, TRACK 2, REV, TIC 411.84 +/- 4	2R0	4	0	4,666,657:15:8	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1209	98	269	03:05:14.600		DMS:	**: *RECORD**	R115, TRACK 2, REV, TIC * 411.84 +/- 3	2R0	4	0	4,666,657:15:8	
1210	98	269	03:05:56.066	175IJ422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R0	4	0	4,666,657:78:0	
1211	98	269	03:05:56.066		DMS:	**: *RUNDOWN**	R115, TRACK 2, REV, TIC * 266.06 +/- 4	2R0	4	0	4,666,657:78:0	
1212	98	269	03:05:57.266		DMS:	: *READY	RDY, TRACK 2, REV, TIC * 265.06 +/- 4	2R0	4	0	4,666,657:79:8	
1213	98	269	03:06:36.733	488AD6E	6TMSED	NORM,GL5	Sci, Eng, and D/L Chan	2R0	4	0	4,666,658:48:0	
1214	**98**	**269**	**03:07:00.733**	**125DE4A**	**37IST**	**0,2,0,OFF,0,1,1**	**Gain State 4**	**4R0**	**4**	**0**	**4,666,658:84:0**	
1215	98	269	03:07:00.733	125DE	NIMSINIT	GS	##### GROUP START INIT	4R0	4	0	4,666,658:84:0	
1216	98	269	03:07:59.400	465KC6A	6DTRN	CMD,6DTRN,465KC6	DMS TRACK TURNAROUND	4R0	4	0	4,666,659:81:0	
1217	98	269	03:07:59.400		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 265.06 +/- 4	4R0	4	0	4,666,659:81:0	
1218	98	269	03:07:59.400		DMS:	: *DMS-TURN	P7, TRACK 2, REV, TIC 265.06 +/- 4	4R0	4	0	4,666,659:81:0	
1219	98	269	03:08:00.800		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 265.18 +/- 4	4R0	4	0	4,666,659:83:1	
1220	**98**	**269**	**03:08:01.400**	**125DE4B**	**37MB**	**0,0,0,0,0,0**	**Selects mirror (spatial) edit table**	**4R0**	**4**	**0**	**4,666,659:84:0**	
1221	98	269	03:08:01.400	125DE11A	NIMSINIT	GE	##### GROUP END INIT	4R0	4	0	4,666,659:84:0	
1222	98	269	03:08:06.066		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 266.42 +/- 4	4R0	4	0	4,666,660:00:0	
1223	98	269	03:08:07.266		DMS:	: *RUNUP	P7, TRACK *2, *REV, TIC * 266.48 +/- 4	4R0	4	0	4,666,660:01:8	
1224	98	269	03:08:08.666		DMS:	: *AT_SPD	P7, TRACK 2, REV, TIC * 266.36 +/- 4	4R0	4	0	4,666,660:03:9	
1225	**98**	**269**	**03:10:02.733**	**127DE4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**4R3**	**4**	**0**	**4,666,661:84:0**	
1226	98	269	03:10:02.733	127DE	NIMSTAB	GS	%%%%% GROUP START TAB	4R3	4	0	4,666,661:84:0	
1227	**98**	**269**	**03:10:03.400**	**127DE4B**	**37ETB**	**04,C4,35,FF,FF**	**Loads wavelength edit table**	**4R3**	**4**	**0**	**4,666,661:85:0**	
1228	98	269	03:10:11.400	127DE11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	4,666,662:06:0	
1229	**98**	**269**	**03:11:42.180**	**17NNSUCOMP01-**		**-----STOP-------**		**4R3**	**4**	**0**	**: :**	
1230	**98**	**269**	**03:11:42.180**	**17ENSUCOMP01-**		**-----START------**		**4R3**	**4**	**0**	**: :**	
1231	98	269	03:12:52.266		DMS:	: *REVERSE	P7, TRACK 2, REV, TIC * 199.87 +/- 4	4R3	4	0	4,666,664:65:3	
1232	98	269	03:12:53.466		DMS:	: *RUNUP	P7, TRACK 3, FWD, TIC 199.81 +/- 4	4R3	4	0	4,666,664:67:1	
1233	98	269	03:12:53.466		DMS:	: *TURNARND	P7, TRACK *3, *FWD, TIC * 199.81 +/- 4	4R3	4	0	4,666,664:67:1	
1234	98	269	03:12:54.866		DMS:	: *AT_SPD	P7, TRACK 3, FWD, TIC * 199.93 +/-	4R3	4	0	4,666,664:69:2	
1235	98	269	03:13:06.866		DMS:	: *AUTOSTOP	P7, TRACK 3, FWD, TIC * 202.06 +/-	4R3	4	0	4,666,664:87:2	
1236	98	269	03:13:08.066		DMS:	: *READY	RDY, TRACK 3, FWD, TIC * 202.12 +/-	4R3	4	0	4,666,664:89:0	
1237	98	269	03:17:11.400	165DE4A	7SCAN	NORM,291.844997,	Check S/P Position	4R3	4	0	4,666,668:90:0	
1238	98	269	03:19:05.400		DMS:	: *E4-DELAY	RDY, TRACK *1, FWD, TIC 202.12 +/-	4R3	4	0	4,666,670:79:0	
1239	98	269	03:19:05.400	465KD6A	6DMSC	P7,3	DMS Control Tape P/B 7.68kbps	4R3	4	0	4,666,670:79:0	
1240	98	269	03:19:12.066		DMS:	: *RUNUP	P7, TRACK *3, FWD, TIC 202.12 +/-	4R3	4	0	4,666,670:89:0	
1241	98	269	03:19:13.466		DMS:	: *P_SLEW	P7, TRACK 3, FWD, TIC * 202.24 +/-	4R3	4	0	4,666,671:00:1	
1242	98	269	03:19:13.466		DMS:	: *AT_SPD	P7, TRACK 3, FWD, TIC 202.24 +/-	4R3	4	0	4,666,671:00:1	
1243	98	269	03:20:14.066		DMS:	**: *RUNDOWN**	P7, TRACK 3, FWD, TIC * 216.45 +/-	4R3	4	0	4,666,672:00:0	
1244	98	269	03:20:14.066	465KD6B	6DMSC	RDY,3	DMS Control Tape stop	4R3	4	0	4,666,672:00:0	
1245	98	269	03:20:15.266		DMS:	: *READY	RDY, TRACK 3, FWD, TIC * 216.51 +/-	4R3	4	0	4,666,672:01:8	
1246	98	269	03:21:01.400	175DE422A6A	6DMSC	R28,3	DMS Control	4R3	4	0	4,666,672:71:0	
1247	98	269	03:21:01.400		DMS:	: *E4-DELAY	RDY, TRACK *1, FWD, TIC 216.51 +/-	4R3	4	0	4,666,672:71:0	
1248	98	269	03:21:05.400	117DE	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	4,666,672:77:0	
1249	98	269	03:21:08.066		DMS:	: *RUNUP	R28, TRACK *3, FWD, TIC 216.51 +/-	4R3	4	0	4,666,672:81:0	
1250	98	269	03:21:11.400	175DE176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	4R3	4	0	4,666,672:86:0	
1251	98	269	03:21:12.066		DMS:	: *AT_SPD	R28, TRACK 3, FWD, TIC 218.01 +/-	4R3	4	0	4,666,672:87:0	
1252	**98**	**269**	**03:21:12.066**	**17ENSUCOMP01-**	**NIMPBK**	**301DE**	**EUROPA SURFACE COMPOSITION**	**4R3**	**4**	**0**	**: :**	
1253	98	269	03:21:12.066		DMS:	**: *RECORD**	R28, TRACK 3, FWD, TIC * 218.01 +/-	4R3	4	0	4,666,672:87:0	
1254	98	269	03:21:13.400	165DE4B	7VECT		Inert vect update UTC	4R3	4	0	4,666,672:89:0	
1255	98	269	03:21:14.733	117DE105A106A4A	**7STRP**	**-0.034313,0.0,0,**	**Slew =,0.03**	4R3	4	0	4,666,673:00:0	
1256	**98**	**269**	**03:23:55.333**	**17ENSUCOMP01-**	**NIMPBK**	**301DJ**	**EUROPA SURFACE COMPOSITION**	**4R3**	**4**	**0**	**: :**	
1257	**98**	**269**	**03:24:47.000**	**17ENSUCOMP01-**	**DESELC**	**300DJ**	**EUROPA SURFACE COMPOSITION**	**4R3**	**4**	**0**	**: :**	
1258	**98**	**269**	**03:25:32.666**	**17ENSUCOMP01-**	**NIMPBK**	**301DK**	**EUROPA SURFACE COMPOSITION**	**4R3**	**4**	**0**	**: :**	
1259	**98**	**269**	**03:25:43.333**	**17ENSUCOMP01-**	**DESELC**	**300DK**	**EUROPA SURFACE COMPOSITION**	**4R3**	**4**	**0**	**: :**	
1260	**98**	**269**	**03:26:16.000**	**17ENSUCOMP01-**	**NIMPBK**	**301DL**	**EUROPA SURFACE COMPOSITION**	**4R3**	**4**	**0**	**: :**	
1261	**98**	**269**	**03:26:26.666**	**17ENSUCOMP01-**	**DESELC**	**300DL**	**EUROPA SURFACE COMPOSITION**	**4R3**	**4**	**0**	**: :**	
1262	**98**	**269**	**03:27:51.333**	**17ENSUCOMP01-**	**NIMPBK**	**301DM**	**EUROPA SURFACE COMPOSITION**	**4R3**	**4**	**0**	**: :**	
1263	**98**	**269**	**03:28:18.666**	**17ENSUCOMP01-**	**DESELC**	**300DM**	**EUROPA SURFACE COMPOSITION**	**4R3**	**4**	**0**	**: :**	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1264	**98**	**269**	**03:28:43.333**	**17ENSUCOMP01-**	**NIMPBK**	**301DN**	**EUROPA SURFACE COMPOSITION**	**4R3**	**4**	**0**	**: :**	
1265	**98**	**269**	**03:28:52.666**	**17ENSUCOMP01-**	**DESELC**	**300DN**	**EUROPA SURFACE COMPOSITION**	**4R3**	**4**	**0**	**: :**	
1266	**98**	**269**	**03:29:18.000**	**17ENSUCOMP01-**	**NIMPBK**	**301DO**	**EUROPA SURFACE COMPOSITION**	**4R3**	**4**	**0**	**: :**	
1267	**98**	**269**	**03:30:00.666**	**17ENSUCOMP01-**	**DESELC**	**300DO**	**EUROPA SURFACE COMPOSITION**	**4R3**	**4**	**0**	**: :**	
1268	**98**	**269**	**03:30:44.666**	**17ENSUCOMP01-**	**NIMPBK**	**301DS**	**EUROPA SURFACE COMPOSITION**	**4R3**	**4**	**0**	**: :**	
1269	**98**	**269**	**03:30:55.333**	**17ENSUCOMP01-**	**DESELC**	**300DS**	**EUROPA SURFACE COMPOSITION**	**4R3**	**4**	**0**	**: :**	
1270	**98**	**269**	**03:31:45.333**	**17ENSUCOMP01-**	**NIMPBK**	**301DT**	**EUROPA SURFACE COMPOSITION**	**4R3**	**4**	**0**	**: :**	
1271	**98**	**269**	**03:32:16.666**	**17ENSUCOMP01-**	**DESELC**	**300DT**	**EUROPA SURFACE COMPOSITION**	**4R3**	**4**	**0**	**: :**	
1272	**98**	**269**	**03:35:56.666**	**17ENSUCOMP01-**	**NIMPBK**	**301DU**	**EUROPA SURFACE COMPOSITION**	**4R3**	**4**	**0**	**: :**	
1273	**98**	**269**	**03:35:58.180**	**17ENSUCOMP01-**		**-----STOP-------**		**4R3**	**4**	**0**	**: :**	
1274	**98**	**269**	**03:36:46.666**	**17ENSUCOMP01-**	**DESELC**	**300DU**	**EUROPA SURFACE COMPOSITION**	**4R3**	**4**	**0**	**: :**	
1275	**98**	**269**	**03:37:32.000**	**17ENSUCOMP01-**	**NIMPBK**	**301DV**	**EUROPA SURFACE COMPOSITION**	**4R3**	**4**	**0**	**: :**	
1276	**98**	**269**	**03:37:38.666**	**17ENSUCOMP01-**	**DESELC**	**300DV**	**EUROPA SURFACE COMPOSITION**	**4R3**	**4**	**0**	**: :**	
1277	98	269	03:40:24.066	117DE11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	4,666,691:86:0	
1278	**98**	**269**	**03:40:32.733**	**17ENSUCOMP01-**	**DESELC**	**300DE**	**EUROPA SURFACE COMPOSITION**	**4R3**	**4**	**0**	**: :**	
1279	98	269	03:40:32.733	165IK4A	7SCAN	NORM,313.274998,	Check S/P Position	4R3	4	0	4,666,692:08:0	
1280	98	269	03:41:12.066		DMS:	**: *RUNDOWN**	R28, TRACK 3, FWD, TIC *1272.69 +/-	4R3	4	0	4,666,692:67:0	
1281	98	269	03:41:12.066	175DE422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,666,692:67:0	
1282	98	269	03:41:13.266		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *1272.99 +/-	4R3	4	0	4,666,692:68:8	
1283	98	269	03:41:32.066	118IK	**SMOS**	GS		4R3	4	0	4,666,693:06:0	
1284	98	269	03:41:45.400		DMS:	: *E4-DELAY	RDY, TRACK *1, FWD, TIC 1272.99 +/-	4R3	4	0	4,666,693:26:0	
1285	98	269	03:41:45.400	175IK422A6A	6DMSC	R403,3	DMS Control	4R3	4	0	4,666,693:26:0	
1286	98	269	03:41:52.066		DMS:	: *RUNUP	R403, TRACK *3, FWD, TIC 1272.99 +/-	4R3	4	0	4,666,693:36:0	
1287	98	269	03:41:52.733	165IK4B	7VECT		Inert vect update UTC	4R3	4	0	4,666,693:37:0	
1288	98	269	03:41:55.400	175IK176A6A	6TMREC	IM4	403.2 KBPS IMAGE RECORD Record Mode Chang	4R3	4	0	4,666,693:41:0	
1289	98	269	03:41:55.933		DMS:	**: *RECORD**	R403, TRACK 3, FWD, TIC *1295.99 +/-	4R3	4	0	4,666,693:41:8	
1290	98	269	03:41:55.933		DMS:	: *AT_SPD	R403, TRACK 3, FWD, TIC 1295.99 +/-	4R3	4	0	4,666,693:41:8	
1291	98	269	03:41:56.066	118IK110A111A4A	7STRP	0.0,0.00731,26,0	Slew =2,3.1	4R3	4	0	4,666,693:42:0	
1292	98	269	03:42:04.733	118IK11A	**SMOS**	GE		4R3	4	0	4,666,693:55:0	
1293	98	269	03:42:11.400	175IK422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,666,693:65:0	
1294	98	269	03:42:11.400		DMS:	**: *RUNDOWN**	R403, TRACK 3, FWD, TIC *1486.31 +/-	4R3	4	0	4,666,693:65:0	
1295	98	269	03:42:14.133		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *1490.31 +/-	4R3	4	0	4,666,693:69:1	
1296	98	269	03:42:14.733	165IL4A	7SCAN	NORM,318.237999,	Check S/P Position	4R3	4	0	4,666,693:70:0	
1297	98	269	03:43:20.733	175IL422A6A	6DMSC	R403,3	DMS Control	4R3	4	0	4,666,694:78:0	
1298	98	269	03:43:20.733		DMS:	: *E4-DELAY	RDY, TRACK *1, FWD, TIC 1490.31 +/-	4R3	4	0	4,666,694:78:0	
1299	98	269	03:43:21.400	118IL	**SMOS**	GS		4R3	4	0	4,666,694:79:0	
1300	98	269	03:43:27.400		DMS:	: *RUNUP	R403, TRACK *3, FWD, TIC 1490.31 +/-	4R3	4	0	4,666,694:88:0	
1301	98	269	03:43:28.066	165IL4B	7VECT		Inert vect update UTC	4R3	4	0	4,666,694:89:0	
1302	98	269	03:43:30.733	175IL176A6A	6TMREC	IM4	403.2 KBPS IMAGE RECORD Record Mode Chang	4R3	4	0	4,666,695:02:0	
1303	98	269	03:43:31.266		DMS:	**: *RECORD**	R403, TRACK 3, FWD, TIC *1513.31 +/-	4R3	4	0	4,666,695:02:8	
1304	98	269	03:43:31.266		DMS:	: *AT_SPD	R403, TRACK 3, FWD, TIC 1513.31 +/-	4R3	4	0	4,666,695:02:8	
1305	98	269	03:43:31.400	118IL110A111A4A	7STRP	-0.00599,-0.0004	Slew =,3.01	4R3	4	0	4,666,695:03:0	
1306	98	269	03:43:48.733	118IL110A111B4A	7STRP	0.0002,-0.00731,	Slew =0,3.6	4R3	4	0	4,666,695:29:0	
1307	98	269	03:43:57.400	118IL110A111B4B	7STRP	-0.00599,-0.0004	Slew =,3.01	4R3	4	0	4,666,695:42:0	
1308	**98**	**269**	**03:44:03.513**	**17NNSUCOMP02-**		**-----START------**		**4R3**	**4**	**0**	**: :**	
1309	98	269	03:44:06.066	118IL11A	**SMOS**	GE		4R3	4	0	4,666,695:55:0	
1310	98	269	03:44:06.733	116IX4A	7STRP	-0.006,-0.005,0,	Slew =0,3.1	4R3	4	0	4,666,695:56:0	
1311	98	269	03:44:14.733	116IY4A	7STRP	-0.00599,-0.0034	Slew =0,3.1	4R3	4	0	4,666,695:68:0	
1312	98	269	03:44:23.400	116IL4A	7STRP	-0.07504,-0.0491	Slew =13.01	4R3	4	0	4,666,695:81:0	
1313	98	269	03:44:29.400		DMS:	**: *RUNDOWN**	R403, TRACK 3, FWD, TIC *2228.62 +/-	4R3	4	0	4,666,695:90:0	
1314	98	269	03:44:29.400	175IL422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,666,695:90:0	
1315	98	269	03:44:32.133		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *2232.62 +/-	4R3	4	0	4,666,696:03:1	
1316	98	269	03:44:38.733		DMS:	: *E4-DELAY	RDY, TRACK *1, FWD, TIC 2232.62 +/-	4R3	4	0	4,666,696:13:0	
1317	98	269	03:44:38.733	175JL422A6A	6DMSC	R403,3	DMS Control	4R3	4	0	4,666,696:13:0	
1318	98	269	03:44:45.400		DMS:	: *RUNUP	R403, TRACK *3, FWD, TIC 2232.62 +/-	4R3	4	0	4,666,696:23:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1319	98	269	03:44:48.733	175JL176A6A	6TMREC	IM4	403.2 KBPS IMAGE RECORD Record Mode Chang	4R3	4	0	4,666,696	28:0
1320	98	269	03:44:49.266		DMS:	**: *RECORD**	R403, TRACK 3, FWD, TIC *2255.62 +/-	4R3	4	0	4,666,696	28:8
1321	98	269	03:44:49.266		DMS:	: *AT_SPD	R403, TRACK 3, FWD, TIC 2255.62 +/- 1	4R3	4	0	4,666,696	28:8
1322	98	269	03:44:49.400	116JL4A	7STRP	-0.0044,-0.0076,	Slew =0,3.1	4R3	4	0	4,666,696	29:0
1323	98	269	03:44:58.066	116JB4A	7STRP	-0.0042,-0.0078,	Slew =0,3.1	4R3	4	0	4,666,696	42:0
1324	98	269	03:45:13.400		DMS:	**: *RUNDOWN**	R403, TRACK 3, FWD, TIC *2552.57 +/- 1	4R3	4	0	4,666,696	65:0
1325	98	269	03:45:13.400	175JL422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,666,696	65:0
1326	98	269	03:45:16.133		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *2556.57 +/- 1	4R3	4	0	4,666,696	69:1
1327	98	269	03:45:16.733	165IM4A	7SCAN	NORM,315.393997,	Check S/P Position	4R3	4	0	4,666,696	70:0
1328	98	269	03:45:34.733	118IM	**SMOS**	GS		4R3	4	0	4,666,697	06:0
1329	98	269	03:46:05.400		DMS:	: *E4-DELAY	RDY, TRACK *1, FWD, TIC 2556.57 +/- 1	4R3	4	0	4,666,697	52:0
1330	98	269	03:46:05.400	175IM422A6A	6DMSC	R403,3	DMS Control	4R3	4	0	4,666,697	52:0
1331	98	269	03:46:12.066		DMS:	: *RUNUP	R403, TRACK *3, FWD, TIC 2556.57 +/- 1	4R3	4	0	4,666,697	62:0
1332	98	269	03:46:12.733	165IM4B	7VECT		Inert vect update UTC	4R3	4	0	4,666,697	63:0
1333	98	269	03:46:15.400	175IM176A6A	6TMREC	IM4	403.2 KBPS IMAGE RECORD Record Mode Chang	4R3	4	0	4,666,697	67:0
1334	98	269	03:46:15.933		DMS:	**: *RECORD**	R403, TRACK 3, FWD, TIC *2579.57 +/- 1	4R3	4	0	4,666,697	67:8
1335	98	269	03:46:15.933		DMS:	: *AT_SPD	R403, TRACK 3, FWD, TIC 2579.57 +/- 1	4R3	4	0	4,666,697	67:8
1336	98	269	03:46:16.066	118IM110A111A4A	7STRP	0.0,-0.00731,26,	Slew =3,3.1	4R3	4	0	4,666,697	68:0
1337	98	269	03:46:33.400	118IM11A	**SMOS**	GE		4R3	4	0	4,666,698	03:0
1338	98	269	03:46:40.066		DMS:	**: *RUNDOWN**	R403, TRACK 3, FWD, TIC *2876.52 +/- 1	4R3	4	0	4,666,698	13:0
1339	98	269	03:46:40.066	175IM422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,666,698	13:0
1340	98	269	03:46:42.800		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *2880.52 +/- 1	4R3	4	0	4,666,698	17:1
1341	98	269	03:46:48.066	165IN4A	7SCAN	NORM,322.452999,	Check S/P Position	4R3	4	0	4,666,698	25:0
1342	98	269	03:47:36.066	118IN	**SMOS**	GS		4R3	4	0	4,666,699	06:0
1343	98	269	03:47:40.733		DMS:	: *E4-DELAY	RDY, TRACK *1, FWD, TIC 2880.52 +/- 1	4R3	4	0	4,666,699	13:0
1344	98	269	03:47:40.733	175IN422A6A	6DMSC	R403,3	DMS Control	4R3	4	0	4,666,699	13:0
1345	98	269	03:47:47.400		DMS:	: *RUNUP	R403, TRACK *3, FWD, TIC 2880.52 +/- 1	4R3	4	0	4,666,699	23:0
1346	98	269	03:47:48.066	165IN4B	7VECT		Inert vect update UTC	4R3	4	0	4,666,699	24:0
1347	98	269	03:47:50.733	175IN176A6A	6TMREC	IM4	403.2 KBPS IMAGE RECORD Record Mode Chang	4R3	4	0	4,666,699	28:0
1348	98	269	03:47:51.266		DMS:	: *AT_SPD	R403, TRACK 3, FWD, TIC 2903.52 +/- 1	4R3	4	0	4,666,699	28:8
1349	98	269	03:47:51.266		DMS:	**: *RECORD**	R403, TRACK 3, FWD, TIC *2903.52 +/- 1	4R3	4	0	4,666,699	28:8
1350	98	269	03:47:51.400	118IN110A111A4A	7STRP	-0.00596,0.0005,	Slew =,2.71	4R3	4	0	4,666,699	29:0
1351	98	269	03:48:00.066	118IN11A	**SMOS**	GE		4R3	4	0	4,666,699	42:0
1352	98	269	03:48:06.733	175IN422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,666,699	52:0
1353	98	269	03:48:06.733		DMS:	**: *RUNDOWN**	R403, TRACK 3, FWD, TIC *3093.84 +/- 1	4R3	4	0	4,666,699	52:0
1354	98	269	03:48:09.466		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *3097.84 +/- 2	4R3	4	0	4,666,699	56:1
1355	98	269	03:48:15.400	165IO4A	7SCAN	NORM,333.078999,	Check S/P Position	4R3	4	0	4,666,699	65:0
1356	98	269	03:49:24.733		DMS:	: *E4-DELAY	RDY, TRACK *1, FWD, TIC 3097.84 +/- 2	4R3	4	0	4,666,700	78:0
1357	98	269	03:49:24.733	175IO422A6A	6DMSC	R403,3	DMS Control	4R3	4	0	4,666,700	78:0
1358	98	269	03:49:25.400	118IO	**SMOS**	GS		4R3	4	0	4,666,700	79:0
1359	98	269	03:49:31.400		DMS:	: *RUNUP	R403, TRACK *3, FWD, TIC 3097.84 +/- 2	4R3	4	0	4,666,700	88:0
1360	98	269	03:49:32.066	165IO4B	7VECT		Inert vect update UTC	4R3	4	0	4,666,700	89:0
1361	98	269	03:49:34.733	175IO176A6A	6TMREC	IM4	403.2 KBPS IMAGE RECORD Record Mode Chang	4R3	4	0	4,666,701	02:0
1362	98	269	03:49:35.266		DMS:	: *AT_SPD	R403, TRACK 3, FWD, TIC 3120.84 +/- 2	4R3	4	0	4,666,701	02:8
1363	98	269	03:49:35.266		DMS:	**: *RECORD**	R403, TRACK 3, FWD, TIC *3120.84 +/- 2	4R3	4	0	4,666,701	02:8
1364	98	269	03:49:35.400	118IO110A111A4A	7STRP	-0.00593,0.003,2	Slew =,2.61	4R3	4	0	4,666,701	03:0
1365	98	269	03:50:18.733	118IO11A	**SMOS**	GE		4R3	4	0	4,666,701	68:0
1366	98	269	03:50:19.400	116IO4A	7STRP	-0.00593,-0.0010	Slew =0,2.8	4R3	4	0	4,666,701	69:0
1367	98	269	03:50:27.400	116JO4A	7STRP	-0.00593,-0.0010	Slew =0,2.8	4R3	4	0	4,666,701	81:0
1368	98	269	03:50:36.066	116JC4A	7STRP	-0.00593,-0.0008	Slew =0,2.8	4R3	4	0	4,666,702	03:0
1369	98	269	03:50:51.400	175IO422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,666,702	26:0
1370	98	269	03:50:51.400		DMS:	**: *RUNDOWN**	R403, TRACK 3, FWD, TIC *4057.63 +/- 2	4R3	4	0	4,666,702	26:0
1371	98	269	03:50:54.133		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *4061.63 +/- 2	4R3	4	0	4,666,702	30:1
1372	98	269	03:51:01.400	165IP4A	7SCAN	NORM,342.731998,	Check S/P Position	4R3	4	0	4,666,702	41:0
1373	98	269	03:52:00.733		DMS:	: *E4-DELAY	RDY, TRACK *1, FWD, TIC 4061.63 +/- 2	4R3	4	0	4,666,703	39:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1374	98	269	03:52:00.733	175IP422A6A	6DMSC	R403,3	DMS Control	4R3	4	0	4,666,703:39:0	
1375	98	269	03:52:07.400		DMS:	: *RUNUP	R403, TRACK *3, FWD, TIC 4061.63 +/- 2	4R3	4	0	4,666,703:49:0	
1376	98	269	03:52:08.066	165IP4B	7VECT		Inert vect update UTC	4R3	4	0	4,666,703:50:0	
1377	98	269	03:52:10.733	175IP176A6A	6TMREC	IM4	403.2 KBPS IMAGE RECORD Record Mode Chang	4R3	4	0	4,666,703:54:0	
1378	98	269	03:52:11.266		DMS:	: *AT_SPD	R403, TRACK 3, FWD, TIC 4084.63 +/- 2	4R3	4	0	4,666,703:54:8	
1379	98	269	03:52:11.266		DMS:	**: *RECORD**	R403, TRACK 3, FWD, TIC *4084.63 +/- 2	4R3	4	0	4,666,703:54:8	
1380	98	269	03:52:18.066		DMS:	**: *RUNDOWN**	R403, TRACK 3, FWD, TIC *4168.31 +/- 2	4R3	4	0	4,666,703:65:0	
1381	98	269	03:52:18.066	175IP422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,666,703:65:0	
1382	98	269	03:52:20.800		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *4172.31 +/- 2	4R3	4	0	4,666,703:69:1	
1383	98	269	03:52:30.066	165IQ4A	7SCAN	NORM,347.742996,	Check S/P Position	4R3	4	0	4,666,703:83:0	
1384	**98**	**269**	**03:52:46.733**	**20DF5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**4R3**	**4**	**0**	**4,666,704:17:0**	
1385	**98**	**269**	**03:52:48.066**	**20DF5B**	**37MRL**		**Memory Realocate (software operates from R**	**4R3**	**4**	**0**	**4,666,704:19:0**	
1386	**98**	**269**	**03:52:56.733**	**20DF6A**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**4R3**	**4**	**0**	**4,666,704:32:0**	
1387	**98**	**269**	**03:53:06.733**	**20DF6B**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**4R3**	**4**	**0**	**4,666,704:47:0**	
1388	**98**	**269**	**03:53:16.733**	**20DF5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**4,666,704:62:0**	
1389	**98**	**269**	**03:53:18.066**	**20DF5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**4,666,704:64:0**	
1390	**98**	**269**	**03:53:26.733**	**20DF4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**4,666,704:77:0**	
1391	98	269	03:53:36.066		DMS:	: *E4-DELAY	RDY, TRACK *1, FWD, TIC 4172.31 +/- 2	2R0	4	0	4,666,705:00:0	
1392	98	269	03:53:36.066	175IQ422A6A	6DMSC	R403,3	DMS Control	2R0	4	0	4,666,705:00:0	
1393	98	269	03:53:36.733	118IQ	**SMOS**	GS		2R0	4	0	4,666,705:01:0	
1394	98	269	03:53:42.733		DMS:	: *RUNUP	R403, TRACK *3, FWD, TIC 4172.31 +/- 2	2R0	4	0	4,666,705:10:0	
1395	98	269	03:53:43.400	165IQ4B	7VECT		Inert vect update UTC	2R0	4	0	4,666,705:11:0	
1396	98	269	03:53:46.066	175IQ176A6A	6TMREC	IM4	403.2 KBPS IMAGE RECORD Record Mode Chang	2R0	4	0	4,666,705:15:0	
1397	98	269	03:53:46.600		DMS:	**: *RECORD**	R403, TRACK 3, FWD, TIC *4195.31 +/- 2	2R0	4	0	4,666,705:15:8	
1398	98	269	03:53:46.600		DMS:	: *AT_SPD	R403, TRACK 3, FWD, TIC 4195.31 +/- 3	2R0	4	0	4,666,705:15:8	
1399	98	269	03:53:46.733	118IQ110A111A4A	7STRP	0.0,0.00731,26,0	Slew =2,4.2	2R0	4	0	4,666,705:16:0	
1400	98	269	03:53:55.400	118IQ110A111A4B	7STRP	0.00604,-0.0008,	Slew =0,3.1	2R0	4	0	4,666,705:29:0	
1401	98	269	03:54:04.066	118IQ110A111A4C	7STRP	0.0,0.00731,26,0	Slew =2,4.2	2R0	4	0	4,666,705:42:0	
1402	**98**	**269**	**03:54:10.179**	**17NNSUCOMP02-**		**-----STOP-------**		**2R0**	**4**	**0**	: :	
1403	**98**	**269**	**03:54:10.179**	**17ENSUCOMP02-**		**-----START------**		**2R0**	**4**	**0**	: :	
1404	98	269	03:54:12.733	118IQ11A	**SMOS**	GE		2R0	4	0	4,666,705:55:0	
1405	98	269	03:54:14.733	175IQ422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R0	4	0	4,666,705:58:0	
1406	98	269	03:54:14.733		DMS:	**: *RUNDOWN**	R403, TRACK 3, FWD, TIC *4541.48 +/- 3	2R0	4	0	4,666,705:58:0	
1407	98	269	03:54:17.466		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *4545.48 +/- 3	2R0	4	0	4,666,705:62:1	
1408	98	269	03:54:22.733	165IR4A	7SCAN	NORM,355.285999,	Check S/P Position	2R0	4	0	4,666,705:70:0	
1409	98	269	03:55:28.733		DMS:	: *E4-DELAY	RDY, TRACK *1, FWD, TIC 4545.48 +/- 3	2R0	4	0	4,666,706:78:0	
1410	98	269	03:55:28.733	175IR422A6A	6DMSC	R403,3	DMS Control	2R0	4	0	4,666,706:78:0	
1411	98	269	03:55:29.400	118IR	**SMOS**	GS		2R0	4	0	4,666,706:79:0	
1412	**98**	**269**	**03:55:32.733**	**125DF4A**	**37IST**	**0,2,0,OFF,0,1,1**	**Gain State 4**	**4R0**	**4**	**0**	**4,666,706:84:0**	
1413	98	269	03:55:32.733	125DF	NIMSINIT	GS	##### GROUP START INIT	4R0	4	0	4,666,706:84:0	
1414	98	269	03:55:35.400		DMS:	: *RUNUP	R403, TRACK *3, FWD, TIC 4545.48 +/- 3	4R0	4	0	4,666,706:88:0	
1415	98	269	03:55:36.066	165IR4B	7VECT		Inert vect update UTC	4R0	4	0	4,666,706:89:0	
1416	98	269	03:55:38.733	175IR176A6A	6TMREC	IM4	403.2 KBPS IMAGE RECORD Record Mode Chang	4R0	4	0	4,666,707:02:0	
1417	98	269	03:55:39.266		DMS:	**: *RECORD**	R403, TRACK 3, FWD, TIC *4568.48 +/- 3	4R0	4	0	4,666,707:02:8	
1418	98	269	03:55:39.266		DMS:	: *AT_SPD	R403, TRACK 3, FWD, TIC 4568.48 +/- 3	4R0	4	0	4,666,707:02:8	
1419	98	269	03:55:39.400	118IR110A111A4A	7STRP	0.0,0.0068,26,0,	Slew =5,3.1	4R0	4	0	4,666,707:03:0	
1420	98	269	03:56:14.066	118IR11A	**SMOS**	GE		4R0	4	0	4,666,707:55:0	
1421	98	269	03:56:20.733		DMS:	**: *RUNDOWN**	R403, TRACK 3, FWD, TIC *5078.71 +/- 3	4R0	4	0	4,666,707:65:0	
1422	98	269	03:56:20.733	175IR422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R0	4	0	4,666,707:65:0	
1423	98	269	03:56:23.466		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *5082.71 +/- 3	4R0	4	0	4,666,707:69:1	
1424	**98**	**269**	**03:56:33.400**	**125DF4B**	**37MB**	**0,0,0,0,0,0**	**Selects mirror (spatial) edit table**	**4R0**	**4**	**0**	**4,666,707:84:0**	
1425	98	269	03:56:33.400	125DF11A	NIMSINIT	GE	##### GROUP END INIT	4R0	4	0	4,666,707:84:0	
1426	**98**	**269**	**03:58:34.733**	**127DF4A**	**37IOP**	**4,0**	**Long Spectrometer, Grating Start Position**	**4R4**	**4**	**0**	**4,666,709:84:0**	
1427	98	269	03:58:34.733	127DF	NIMSTAB	GS	%%%%% GROUP START TAB	4R4	4	0	4,666,709:84:0	
1428	**98**	**269**	**03:58:35.400**	**127DF4B**	**37ETB**	**04,C4,35,FF,FF**	**Loads wavelength edit table**	**4R4**	**4**	**0**	**4,666,709:85:0**	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1429	98	269	03:58:38.733	165DF4A	7SCAN	NORM,17.467,41.5	Check S/P Position	4R4	4	0	4,666,709:90:0	
1430	98	269	03:58:43.400	127DF11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R4	4	0	4,666,710:06:0	
1431	98	269	03:59:26.733	175DF422A6A	6DMSC	R28,3	DMS Control	4R4	4	0	4,666,710:71:0	
1432	98	269	03:59:26.733		DMS:	: *E4-DELAY	RDY, TRACK *1, FWD, TIC 5082.71 +/- 3	4R4	4	0	4,666,710:71:0	
1433	98	269	03:59:30.733	117DF	**CSMOS**	GS	***** GROUP START CSMOS	4R4	4	0	4,666,710:77:0	
1434	98	269	03:59:33.400		DMS:	: *RUNUP	R28, TRACK *3, FWD, TIC 5082.71 +/- 3	4R4	4	0	4,666,710:81:0	
1435	98	269	03:59:36.733	175DF176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	4R4	4	0	4,666,710:86:0	
1436	**98**	**269**	**03:59:37.400**	**17ENSUCOMP02-**	**NIMPBK**	**301DF**	**EUROPA SURFACE COMPOSITION**	**4R4**	**4**	**0**	: :	
1437	98	269	03:59:37.400		DMS:	**: *RECORD**	R28, TRACK 3, FWD, TIC *5084.21 +/- 3	4R4	4	0	4,666,710:87:0	
1438	98	269	03:59:37.400		DMS:	: *AT_SPD	R28, TRACK 3, FWD, TIC 5084.21 +/- 3	4R4	4	0	4,666,710:87:0	
1439	98	269	03:59:38.733	165DF4B	7VECT		Inert vect update UTC	4R4	4	0	4,666,710:89:0	
1440	98	269	03:59:40.066	117DF105A106A4A	**7STRP**	**0.03071,0.0,0,0,**	**Slew =,0.03**	4R4	4	0	4,666,711:00:0	
1441	**98**	**269**	**04:02:12.733**	**17ENSUCOMP02-**	**NIMPBK**	**301EE**	**EUROPA SURFACE COMPOSITION**	**4R4**	**4**	**0**	: :	
1442	**98**	**269**	**04:02:12.733**	**17ENSUCOMP02-**	**NIMPBK**	**301EP**	**EUROPA SURFACE COMPOSITION**	**4R4**	**4**	**0**	: :	
1443	**98**	**269**	**04:02:24.733**	**17ENSUCOMP02-**	**DESELC**	**300EP**	**EUROPA SURFACE COMPOSITION**	**4R4**	**4**	**0**	: :	
1444	**98**	**269**	**04:02:24.733**	**17ENSUCOMP02-**	**DESELC**	**300EE**	**EUROPA SURFACE COMPOSITION**	**4R4**	**4**	**0**	: :	
1445	**98**	**269**	**04:02:50.066**	**17ENSUCOMP02-**	**NIMPBK**	**301ET**	**EUROPA SURFACE COMPOSITION**	**4R4**	**4**	**0**	: :	
1446	**98**	**269**	**04:02:50.066**	**17ENSUCOMP02-**	**NIMPBK**	**301ER**	**EUROPA SURFACE COMPOSITION**	**4R4**	**4**	**0**	: :	
1447	**98**	**269**	**04:02:58.066**	**17ENSUCOMP02-**	**DESELC**	**300ET**	**EUROPA SURFACE COMPOSITION**	**4R4**	**4**	**0**	: :	
1448	**98**	**269**	**04:02:58.066**	**17ENSUCOMP02-**	**DESELC**	**300ER**	**EUROPA SURFACE COMPOSITION**	**4R4**	**4**	**0**	: :	
1449	**98**	**269**	**04:04:16.846**	**17NNSUCOMP03-**		**-----START------**		**4R4**	**4**	**0**	: :	
1450	**98**	**269**	**04:09:44.733**	**17ENSUCOMP02-**	**NIMPBK**	**301EU**	**EUROPA SURFACE COMPOSITION**	**4R4**	**4**	**0**	: :	
1451	**98**	**269**	**04:09:44.733**	**17ENSUCOMP02-**	**NIMPBK**	**301EQ**	**EUROPA SURFACE COMPOSITION**	**4R4**	**4**	**0**	: :	
1452	**98**	**269**	**04:10:20.066**	**17ENSUCOMP02-**	**DESELC**	**300EU**	**EUROPA SURFACE COMPOSITION**	**4R4**	**4**	**0**	: :	
1453	**98**	**269**	**04:10:20.066**	**17ENSUCOMP02-**	**DESELC**	**300EQ**	**EUROPA SURFACE COMPOSITION**	**4R4**	**4**	**0**	: :	
1454	**98**	**269**	**04:11:21.513**	**17ENSUCOMP02-**		**-----STOP-------**		**4R4**	**4**	**0**	: :	
1455	**98**	**269**	**04:12:46.733**	**17ENSUCOMP02-**	**NIMPBK**	**301EV**	**EUROPA SURFACE COMPOSITION**	**4R4**	**4**	**0**	: :	
1456	**98**	**269**	**04:12:46.733**	**17ENSUCOMP02-**	**NIMPBK**	**301ES**	**EUROPA SURFACE COMPOSITION**	**4R4**	**4**	**0**	: :	
1457	**98**	**269**	**04:12:56.066**	**17ENSUCOMP02-**	**DESELC**	**300ES**	**EUROPA SURFACE COMPOSITION**	**4R4**	**4**	**0**	: :	
1458	**98**	**269**	**04:12:56.066**	**17ENSUCOMP02-**	**DESELC**	**300EV**	**EUROPA SURFACE COMPOSITION**	**4R4**	**4**	**0**	: :	
1459	**98**	**269**	**04:14:23.513**	**17ENSUCOMP03-**		**-----START------**		**4R4**	**4**	**0**	: :	
1460	**98**	**269**	**04:14:23.513**	**17NNSUCOMP03-**		**-----STOP-------**		**4R4**	**4**	**0**	: :	
1461	**98**	**269**	**04:16:34.066**	**17ENSUCOMP02-**	**DESELC**	**300DF**	**EUROPA SURFACE COMPOSITION**	**4R4**	**4**	**0**	: :	
1462	98	269	04:16:34.733		DMS:	**: *RUNDOWN**	R28, TRACK 3, FWD, TIC *5978.35 +/- 3	4R4	4	0	4,666,727:66:0	
1463	98	269	04:16:34.733	175DF422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R4	4	0	4,666,727:66:0	
1464	98	269	04:16:35.933		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *5978.65 +/- 3	4R4	4	0	4,666,727:67:8	
1465	98	269	04:16:47.400	117DF11A	**CSMOS**	GE	***** GROUP END CSMOS	4R4	4	0	4,666,727:85:0	
1466	**98**	**269**	**04:17:02.066**	**20DG5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**4R4**	**4**	**0**	**4,666,728:16:0**	
1467	**98**	**269**	**04:17:03.400**	**20DG5B**	**37MRL**		**Memory Realocate (software operates from R**	**4R4**	**4**	**0**	**4,666,728:18:0**	
1468	**98**	**269**	**04:17:05.400**	**20DG6A**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**4R4**	**4**	**0**	**4,666,728:21:0**	
1469	**98**	**269**	**04:17:15.400**	**20DG6B**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**4R4**	**4**	**0**	**4,666,728:36:0**	
1470	**98**	**269**	**04:17:32.066**	**20DG5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**4,666,728:61:0**	
1471	**98**	**269**	**04:17:38.733**	**20DG5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**4,666,728:71:0**	
1472	**98**	**269**	**04:17:44.733**	**20DG4A**	**37IST**	**1,2,0,OFF,0,1,1**	**Chopper ON, Sync, Chopper (Ref)Gain State**	**4R0**	**4**	**0**	**4,666,728:80:0**	
1473	98	269	04:17:52.066		DMS:	: READY	RDY, TRACK *4, *REV, TIC 5978.65 +/- 3	4R0	4	0	4,666,729:00:0	
1474	98	269	04:17:52.066	465KE6A	6DMSC	RDY,4	DMS Control Tape stop	4R0	4	0	4,666,729:00:0	
1475	98	269	04:18:52.066	165DG4A	7SCAN	NORM,72.915,35.1	Check S/P Position	4R0	4	0	4,666,729:90:0	
1476	98	269	04:19:38.733		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 5978.65 +/- 3	4R0	4	0	4,666,730:69:0	
1477	98	269	04:19:38.733	175DG422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	4R0	4	0	4,666,730:69:0	
1478	98	269	04:19:40.133		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *5978.77 +/- 3	4R0	4	0	4,666,730:71:1	
1479	98	269	04:19:44.066	117DG	**CSMOS**	GS	***** GROUP START CSMOS	4R0	4	0	4,666,730:77:0	
1480	98	269	04:19:45.400		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *5980.01 +/- 3	4R0	4	0	4,666,730:79:0	
1481	98	269	04:19:46.600		DMS:	: *RUNUP	R28, TRACK *4, *REV, TIC *5980.07 +/- 3	4R0	4	0	4,666,730:80:8	
1482	98	269	04:19:48.733	127DG	NIMSTAB	GS	%%%%% GROUP START TAB	4R0	4	0	4,666,730:84:0	
1483	**98**	**269**	**04:19:48.733**	**127DG4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**4R3**	**4**	**0**	**4,666,730:84:0**	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1484	**98**	**269**	**04:19:49.400**	**127DG4B**	**37ETB**	**04,C4,35,FF,FF**	**Loads wavelength edit table**	**4R3**	**4**	**0**	**4,666,730:85:0**	
1485	98	269	04:19:50.066	175DG176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	4R3	4	0	4,666,730:86:0	
1486	98	269	04:19:50.600		DMS:	: *AT_SPD	R28, TRACK 4, REV, TIC 5978.57 +/- 3	4R3	4	0	4,666,730:86:8	
1487	98	269	04:19:50.600		DMS:	**: *RECORD**	R28, TRACK 4, REV, TIC *5978.57 +/- 3	4R3	4	0	4,666,730:86:8	
1488	**98**	**269**	**04:19:50.733**	**17ENSUCOMP03-**	**NIMPBK**	**301DG**	**EUROPA SURFACE COMPOSITION**	**4R3**	**4**	**0**	**: :**	
1489	98	269	04:19:52.066	165DG4B	7VECT		Inert vect update UTC	4R3	4	0	4,666,730:89:0	
1490	98	269	04:19:53.400	117DG105A106A4A	**7STRP**	**0.039821,0.0,0,0**	**Slew =,0.03**	4R3	4	0	4,666,731:00:0	
1491	98	269	04:19:57.400	127DG11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	4,666,731:06:0	
1492	**98**	**269**	**04:37:38.846**	**17ENSUCOMP03-**		**-----STOP-------**		**4R3**	**4**	**0**	**: :**	
1493	**98**	**269**	**04:37:38.846**	**17NNSUCOMP04-**		**-----START------**		**4R3**	**4**	**0**	**: :**	
1494	**98**	**269**	**04:39:40.179**	**17ENSUCOMP04-**		**-----START------**		**4R3**	**4**	**0**	**: :**	
1495	**98**	**269**	**04:39:40.179**	**17NNSUCOMP04-**		**-----STOP-------**		**4R3**	**4**	**0**	**: :**	
1496	**98**	**269**	**04:41:43.400**	**17ENSUCOMP03-**	**DESELC**	**300DG**	**EUROPA SURFACE COMPOSITION**	**4R3**	**4**	**0**	**: :**	
1497	98	269	04:41:53.400		DMS:	**: *RUNDOWN**	R28, TRACK 4, REV, TIC *4815.95 +/- 3	4R3	4	0	4,666,752:69:0	
1498	98	269	04:41:53.400	175DG422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,666,752:69:0	
1499	98	269	04:41:54.600		DMS:	: *READY	RDY, TRACK 4, REV, TIC *4815.65 +/- 3	4R3	4	0	4,666,752:70:8	
1500	98	269	04:42:04.733	117DG11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	4,666,752:86:0	
1501	**98**	**269**	**04:42:18.733**	**20DH5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**4R3**	**4**	**0**	**4,666,753:16:0**	
1502	**98**	**269**	**04:42:20.066**	**20DH5B**	**37MRL**		**Memory Realocate (software operates from R**	**4R3**	**4**	**0**	**4,666,753:18:0**	
1503	**98**	**269**	**04:42:22.066**	**20DH6A**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**4R3**	**4**	**0**	**4,666,753:21:0**	
1504	**98**	**269**	**04:42:32.066**	**20DH6B**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**4R3**	**4**	**0**	**4,666,753:36:0**	
1505	**98**	**269**	**04:42:48.733**	**20DH5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**4,666,753:61:0**	
1506	**98**	**269**	**04:42:50.066**	**20DH5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**4,666,753:63:0**	
1507	**98**	**269**	**04:43:01.400**	**20DH4A**	**37IST**	**1,2,0,OFF,0,1,1**	**Chopper ON, Sync, Chopper (Ref)Gain State**	**4R0**	**4**	**0**	**4,666,753:80:0**	
1508	98	269	04:43:08.066	165DH4A	7SCAN	NORM,81.302999,3	Check S/P Position	4R0	4	0	4,666,753:90:0	
1509	98	269	04:43:54.733		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 4815.65 +/- 3	4R0	4	0	4,666,754:69:0	
1510	98	269	04:43:54.733	175DH422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	4R0	4	0	4,666,754:69:0	
1511	98	269	04:43:56.133		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *4815.77 +/- 3	4R0	4	0	4,666,754:71:1	
1512	98	269	04:44:00.066	117DH	**CSMOS**	GS	***** GROUP START CSMOS	4R0	4	0	4,666,754:77:0	
1513	98	269	04:44:01.400		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *4817.00 +/- 3	4R0	4	0	4,666,754:79:0	
1514	**98**	**269**	**04:44:02.066**	**20DH4B**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**4R3**	**4**	**0**	**4,666,754:80:0**	
1515	98	269	04:44:02.600		DMS:	: *RUNUP	R28, TRACK *4, *REV, TIC *4817.06 +/- 3	4R3	4	0	4,666,754:80:8	
1516	**98**	**269**	**04:44:02.733**	**20DH4C**	**37ETB**	**04,C4,35,FF,FF**	**Loads wavelength edit table**	**4R3**	**4**	**0**	**4,666,754:81:0**	
1517	98	269	04:44:06.066	175DH176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	4R3	4	0	4,666,754:86:0	
1518	98	269	04:44:06.600		DMS:	: *AT_SPD	R28, TRACK 4, REV, TIC 4815.56 +/- 3	4R3	4	0	4,666,754:86:8	
1519	98	269	04:44:06.600		DMS:	**: *RECORD**	R28, TRACK 4, REV, TIC *4815.56 +/- 3	4R3	4	0	4,666,754:86:8	
1520	**98**	**269**	**04:44:06.733**	**17ENSUCOMP04-**	**NIMPBK**	**301DH**	**EUROPA SURFACE COMPOSITION**	**4R3**	**4**	**0**	**: :**	
1521	98	269	04:44:08.066	165DH4B	7VECT		Inert vect update UTC	4R3	4	0	4,666,754:89:0	
1522	98	269	04:44:09.400	117DH105A106A4A	**7STRP**	**-0.018002,0.0,0,**	**Slew =,0.03**	4R3	4	0	4,666,755:00:0	
1523	**98**	**269**	**04:50:47.513**	**17ENSUCOMP04-**		**-----STOP-------**		**4R3**	**4**	**0**	**: :**	
1524	**98**	**269**	**04:53:56.733**	**17ENSUCOMP04-**	**DESELC**	**300DH**	**EUROPA SURFACE COMPOSITION**	**4R3**	**4**	**0**	**: :**	
1525	98	269	04:54:06.733		DMS:	**: *RUNDOWN**	R28, TRACK 4, REV, TIC *4288.10 +/- 3	4R3	4	0	4,666,764:77:0	
1526	98	269	04:54:06.733	175DH422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,666,764:77:0	
1527	98	269	04:54:07.933		DMS:	: *READY	RDY, TRACK 4, REV, TIC *4287.80 +/- 3	4R3	4	0	4,666,764:78:8	
1528	98	269	04:54:12.733	117DH11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	4,666,764:86:0	
1529	98	269	04:55:20.733	118IS	**SMOS**	GS		4R3	4	0	4,666,766:06:0	
1530	98	269	04:55:24.733	165IS4A	7SCAN	NORM,84.476,32.4	Check S/P Position	4R3	4	0	4,666,766:12:0	
1531	98	269	04:55:57.400	175IS422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	4R3	4	0	4,666,766:61:0	
1532	98	269	04:55:57.400		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 4287.80 +/- 3	4R3	4	0	4,666,766:61:0	
1533	98	269	04:55:58.800		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *4287.92 +/- 3	4R3	4	0	4,666,766:63:1	
1534	98	269	04:56:04.066		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *4289.16 +/- 3	4R3	4	0	4,666,766:71:0	
1535	98	269	04:56:05.266		DMS:	: *RUNUP	R806, TRACK *4, *REV, TIC *4289.22 +/- 3	4R3	4	0	4,666,766:72:8	
1536	98	269	04:56:07.400	165IS4B	7VECT		Inert vect update UTC	4R3	4	0	4,666,766:76:0	
1537	98	269	04:56:10.066	175IS176A6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	4R3	4	0	4,666,766:80:0	
1538	98	269	04:56:10.533		DMS:	: *AT_SPD	R806, TRACK 4, REV, TIC 4223.22 +/- 4	4R3	4	0	4,666,766:80:7	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1539	98	269	04:56:10.533		DMS:	**: *RECORD**	R806, TRACK 4, REV, TIC *4223.22 +/- 3	4R3	4	0	4,666,766	80:7
1540	98	269	04:56:10.733	118IS110A111A4A	7STRP	0.00731,0.0,26,0	Slew =,3.71	4R3	4	0	4,666,766	81:0
1541	98	269	04:56:19.400	118IS110A111A4B	7STRP	-0.00731,0.00731	Slew =,3.51	4R3	4	0	4,666,767	03:0
1542	98	269	04:56:28.066	118IS110A111A4C	7STRP	0.00731,0.0,26,0	Slew =,3.71	4R3	4	0	4,666,767	16:0
1543	98	269	04:56:36.733	118IS110A111A4D	7STRP	-0.00731,0.00731	Slew =,3.51	4R3	4	0	4,666,767	29:0
1544	98	269	04:56:45.400	118IS110A111A4E	7STRP	0.00731,0.0,26,0	Slew =,3.71	4R3	4	0	4,666,767	42:0
1545	98	269	04:56:54.066	118IS110A111A4F	7STRP	-0.00731,0.00731	Slew =,3.51	4R3	4	0	4,666,767	55:0
1546	98	269	04:57:02.733	118IS110A111A4G	7STRP	0.00731,0.0,26,0	Slew =,3.71	4R3	4	0	4,666,767	68:0
1547	98	269	04:57:11.400	118IS110A111A4H	7STRP	-0.00731,0.00731	Slew =,3.51	4R3	4	0	4,666,767	81:0
1548	98	269	04:57:20.066	118IS110A111A4I	7STRP	0.00731,0.0,26,0	Slew =,3.71	4R3	4	0	4,666,768	03:0
1549	98	269	04:57:28.733	118IS110A111A4J	7STRP	-0.00731,0.00731	Slew =,3.51	4R3	4	0	4,666,768	16:0
1550	98	269	04:57:37.400	118IS110A111A4K	7STRP	0.00731,0.0,26,0	Slew =,3.71	4R3	4	0	4,666,768	29:0
1551	98	269	04:57:46.066	118IS110A111A4L	7STRP	-0.00731,0.00731	Slew =,3.51	4R3	4	0	4,666,768	42:0
1552	98	269	04:57:54.733	118IS110A111A4M	7STRP	0.00731,0.0,26,0	Slew =,3.71	4R3	4	0	4,666,768	55:0
1553	98	269	04:58:03.400	118IS110A111A4N	7STRP	-0.00731,0.00731	Slew =,3.51	4R3	4	0	4,666,768	68:0
1554	98	269	04:58:12.066	118IS110A111A4O	7STRP	0.00731,0.0,26,0	Slew =,3.71	4R3	4	0	4,666,768	81:0
1555	98	269	04:58:20.733	118IS110A111A4P	7STRP	-0.00731,0.00731	Slew =,3.51	4R3	4	0	4,666,769	03:0
1556	98	269	04:58:29.400	118IS110A111A4Q	7STRP	0.00731,0.0,26,0	Slew =,3.71	4R3	4	0	4,666,769	16:0
1557	98	269	04:58:35.400	175IS422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,666,769	25:0
1558	98	269	04:58:35.400		DMS:	**: *RUNDOWN**	R806, TRACK 4, REV, TIC * 658.14 +/- 4	4R3	4	0	4,666,769	25:0
1559	98	269	04:58:38.066	118IS11A	**SMOS**	GE		4R3	4	0	4,666,769	29:0
1560	98	269	04:58:38.133		DMS:	: *READY	RDY, TRACK 4, REV, TIC * 646.64 +/- 4	4R3	4	0	4,666,769	29:1
1561	98	269	04:58:46.066	165IT4A	7SCAN	NORM,84.785999,2	Check S/P Position	4R3	4	0	4,666,769	41:0
1562	98	269	04:59:23.400	118IT	**SMOS**	GS		4R3	4	0	4,666,770	06:0
1563	98	269	04:59:44.066		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 646.64 +/- 4	4R3	4	0	4,666,770	37:0
1564	98	269	04:59:44.066	175IT422A6A	6DMSC	R403,0	DMS Control Tape runup 403.2kb	4R3	4	0	4,666,770	37:0
1565	98	269	04:59:45.466		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 646.76 +/- 4	4R3	4	0	4,666,770	39:1
1566	98	269	04:59:50.733		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 647.99 +/- 4	4R3	4	0	4,666,770	47:0
1567	98	269	04:59:51.933		DMS:	: *RUNUP	R403, TRACK *4, *REV, TIC * 648.05 +/- 4	4R3	4	0	4,666,770	48:8
1568	98	269	04:59:52.733	165IT4B	7VECT		Inert vect update UTC	4R3	4	0	4,666,770	50:0
1569	98	269	04:59:55.400	175IT176A6A	6TMREC	IM4	403.2 KBPS IMAGE RECORD Record Mode Chang	4R3	4	0	4,666,770	54:0
1570	98	269	04:59:55.800		DMS:	**: *RECORD**	R403, TRACK 4, REV, TIC * 625.05 +/- 4	4R3	4	0	4,666,770	54:6
1571	98	269	04:59:55.800		DMS:	: *AT_SPD	R403, TRACK 4, REV, TIC 625.05 +/- 4	4R3	4	0	4,666,770	54:6
1572	98	269	04:59:56.066	118IT110A111A4A	7STRP	0.001,0.00731,26	Slew =,3.71	4R3	4	0	4,666,770	55:0
1573	98	269	05:00:04.733	118IT11A	**SMOS**	GE		4R3	4	0	4,666,770	68:0
1574	98	269	05:00:11.400	175IT422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,666,770	78:0
1575	98	269	05:00:11.400		DMS:	**: *RUNDOWN**	R403, TRACK 4, REV, TIC * 433.10 +/- 4	4R3	4	0	4,666,770	78:0
1576	98	269	05:00:14.133		DMS:	: *READY	RDY, TRACK 4, REV, TIC * 429.10 +/- 4	4R3	4	0	4,666,770	82:1
1577	98	269	05:00:19.400	165GF4A	7SCAN	NORM,84.24,33.79	Check S/P Position	4R3	4	0	4,666,770	90:0
1578	98	269	05:00:20.066	176GG6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	4R3	4	0	4,666,771	00:0
1579	98	269	05:01:11.400	117GF	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	4,666,771	77:0
1580	98	269	05:01:19.400	165GF4B	7VECT		Inert vect update UTC	4R3	4	0	4,666,771	89:0
1581	98	269	05:01:20.733	117GF105A106A4A	7STRP	0.058065,0.0,0,0	Slew =,0.63	4R3	4	0	4,666,772	00:0
1582	98	269	05:02:56.066	117GF105A106A4B	7STRP	-0.058065,0.002,	Slew =12.01	4R3	4	0	4,666,773	52:0
1583	98	269	05:03:04.066	117GF105A106A4C	7STRP	0.058065,0.0,0,0	Slew =,0.63	4R3	4	0	4,666,773	64:0
1584	98	269	05:04:39.400	117GF105A106A4D	7STRP	-0.058065,0.002,	Slew =12.01	4R3	4	0	4,666,775	25:0
1585	98	269	05:04:47.400	117GF105A106A4E	7STRP	0.058065,0.0,0,0	Slew =,0.63	4R3	4	0	4,666,775	37:0
1586	98	269	05:06:22.733	117GF105A106A4F	7STRP	-0.058065,0.002,	Slew =12.01	4R3	4	0	4,666,776	89:0
1587	98	269	05:06:30.733	117GF105A106A4G	7STRP	0.058065,0.0,0,0	Slew =,0.63	4R3	4	0	4,666,777	10:0
1588	98	269	05:08:06.066	117GF105A106A4H	7STRP	-0.058065,0.002,	Slew =12.01	4R3	4	0	4,666,778	62:0
1589	98	269	05:08:14.066	117GF105A106A4I	7STRP	0.058065,0.0,0,0	Slew =,0.63	4R3	4	0	4,666,778	74:0
1590	98	269	05:09:49.400	117GF105A106A4J	7STRP	-0.058065,0.002,	Slew =12.01	4R3	4	0	4,666,780	35:0
1591	98	269	05:09:57.400	117GF105A106A4K	7STRP	0.058065,0.0,0,0	Slew =,0.63	4R3	4	0	4,666,780	47:0
1592	98	269	05:11:32.733	117GF105A106A4L	7STRP	-0.058065,0.002,	Slew =12.01	4R3	4	0	4,666,782	08:0
1593	98	269	05:11:40.733	117GF105A106A4M	7STRP	0.058065,0.0,0,0	Slew =,0.63	4R3	4	0	4,666,782	20:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1594	98	269	05:12:54.733		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 429.10 +/- 4	4R3	4	0	4,666,783:40:0	
1595	98	269	05:12:54.733	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	4,666,783:40:0	
1596	98	269	05:12:56.133		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 429.22 +/- 4	4R3	4	0	4,666,783:42:1	
1597	98	269	05:13:01.400		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 430.46 +/- 4	4R3	4	0	4,666,783:50:0	
1598	98	269	05:13:02.600		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC * 430.52 +/- 4	4R3	4	0	4,666,783:51:8	
1599	98	269	05:13:04.000		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC * 430.40 +/- 4	4R3	4	0	4,666,783:53:9	
1600	98	269	05:13:16.066	117GF105A106A4N	7STRP	-0.058065,0.002,	Slew =12.01	4R3	4	0	4,666,783:72:0	
1601	98	269	05:13:20.066		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC * 426.63 +/- 4	4R3	4	0	4,666,783:78:0	
1602	98	269	05:13:24.066	117GF105A106A4O	7STRP	0.058065,0.0,0,0	Slew =,0.63	4R3	4	0	4,666,783:84:0	
1603	98	269	05:13:42.733	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,666,784:21:0	
1604	98	269	05:13:42.733		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC * 421.32 +/- 4	4R3	4	0	4,666,784:21:0	
1605	98	269	05:13:43.933		DMS:	: *READY	RDY, TRACK 4, REV, TIC * 421.26 +/- 4	4R3	4	0	4,666,784:22:8	
1606	98	269	05:14:59.400	117GF105A106B4A	7STRP	-0.055356,0.0014	Slew =12.01	4R3	4	0	4,666,785:45:0	
1607	98	269	05:15:07.400	117GF105A106B4B	7STRP	0.054855,0.0,0,0	Slew =,0.63	4R3	4	0	4,666,785:57:0	
1608	98	269	05:16:37.400	117GF105A106B4C	7STRP	-0.055356,0.0014	Slew =12.01	4R3	4	0	4,666,787:10:0	
1609	98	269	05:16:45.400	117GF105A106B4D	7STRP	0.054855,0.0,0,0	Slew =,0.63	4R3	4	0	4,666,787:22:0	
1610	98	269	05:18:15.400	117GF105A106B4E	7STRP	-0.055356,0.0014	Slew =12.01	4R3	4	0	4,666,788:66:0	
1611	98	269	05:18:23.400	117GF105A106B4F	7STRP	0.054855,0.0,0,0	Slew =,0.63	4R3	4	0	4,666,788:78:0	
1612	98	269	05:19:53.400	117GF105A106B4G	7STRP	-0.055356,0.0014	Slew =12.01	4R3	4	0	4,666,790:31:0	
1613	98	269	05:20:01.400	117GF105A106B4H	7STRP	0.054855,0.0,0,0	Slew =,0.63	4R3	4	0	4,666,790:43:0	
1614	98	269	05:21:31.400	117GF105A106B4I	7STRP	-0.055356,0.0014	Slew =12.01	4R3	4	0	4,666,791:87:0	
1615	98	269	05:21:39.400	117GF105A106B4J	7STRP	0.054855,0.0,0,0	Slew =,0.63	4R3	4	0	4,666,792:08:0	
1616	98	269	05:23:09.400	117GF105A106B4K	7STRP	-0.055356,0.0014	Slew =12.01	4R3	4	0	4,666,793:52:0	
1617	98	269	05:23:17.400	117GF105A106B4L	7STRP	0.054855,0.0,0,0	Slew =,0.63	4R3	4	0	4,666,793:64:0	
1618	98	269	05:24:47.400	117GF105A106B4M	7STRP	-0.055356,0.0014	Slew =12.01	4R3	4	0	4,666,795:17:0	
1619	98	269	05:24:55.400	117GF105A106B4N	7STRP	0.054855,0.0,0,0	Slew =,0.63	4R3	4	0	4,666,795:29:0	
1620	98	269	05:25:56.666	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	4,666,796:30:0	
1621	98	269	05:25:56.666		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 421.26 +/- 4	4R3	4	0	4,666,796:30:0	
1622	98	269	05:25:58.066		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 421.38 +/- 4	4R3	4	0	4,666,796:32:1	
1623	98	269	05:26:03.333		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 422.61 +/- 4	4R3	4	0	4,666,796:40:0	
1624	98	269	05:26:04.533		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC * 422.67 +/- 4	4R3	4	0	4,666,796:41:8	
1625	98	269	05:26:05.933		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC * 422.55 +/- 4	4R3	4	0	4,666,796:43:9	
1626	98	269	05:26:22.000		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC * 418.79 +/- 4	4R3	4	0	4,666,796:68:0	
1627	98	269	05:26:25.333	117GF105A106B4O	7STRP	-0.055356,0.0014	Slew =12.01	4R3	4	0	4,666,796:73:0	
1628	98	269	05:26:33.333	117GF105A106B4P	7STRP	0.054855,0.0,0,0	Slew =,0.63	4R3	4	0	4,666,796:85:0	
1629	98	269	05:26:44.666		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC * 413.47 +/- 4	4R3	4	0	4,666,797:11:0	
1630	98	269	05:26:44.666	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,666,797:11:0	
1631	98	269	05:26:45.866		DMS:	: *READY	RDY, TRACK 4, REV, TIC * 413.41 +/- 4	4R3	4	0	4,666,797:12:8	
1632	98	269	05:28:03.333	117GF105A106B4Q	7STRP	-0.055356,0.0014	Slew =12.01	4R3	4	0	4,666,798:38:0	
1633	98	269	05:28:11.333	117GF105A106B4R	7STRP	0.054855,0.0,0,0	Slew =,0.63	4R3	4	0	4,666,798:50:0	
1634	98	269	05:29:41.333	117GF105A106B4S	7STRP	-0.055356,0.0014	Slew =12.01	4R3	4	0	4,666,800:03:0	
1635	98	269	05:29:49.333	117GF105A106B4T	7STRP	0.054855,0.0,0,0	Slew =,0.63	4R3	4	0	4,666,800:15:0	
1636	98	269	05:31:19.333	117GF105A106B4U	7STRP	-0.055356,0.0014	Slew =12.01	4R3	4	0	4,666,801:59:0	
1637	98	269	05:31:27.333	117GF105A106B4V	7STRP	0.054855,0.0,0,0	Slew =,0.63	4R3	4	0	4,666,801:71:0	
1638	98	269	05:31:59.333	488AE6A	6TMSED	NORM,GL6	Sci, Eng, and D/L Chan	4R3	4	0	4,666,802:28:0	
1639	98	269	05:32:57.333	117GF105A106B4W	7STRP	-0.055356,0.0014	Slew =12.01	4R3	4	0	4,666,803:24:0	
1640	98	269	05:33:05.333	117GF105A106B4X	7STRP	0.054855,0.0,0,0	Slew =,0.63	4R3	4	0	4,666,803:36:0	
1641	98	269	05:34:35.333	117GF105A106B4Y	7STRP	-0.055356,0.0014	Slew =12.01	4R3	4	0	4,666,804:80:0	
1642	98	269	05:34:43.333	117GF105A106B4Z	7STRP	0.054855,0.0,0,0	Slew =,0.63	4R3	4	0	4,666,805:01:0	
1643	98	269	05:36:13.333	117GF105A106B4AA	7STRP	-0.055356,0.0014	Slew =12.01	4R3	4	0	4,666,806:45:0	
1644	98	269	05:36:21.333	117GF105A106B4AB	7STRP	0.054855,0.0,0,0	Slew =,0.63	4R3	4	0	4,666,806:57:0	
1645	98	269	05:37:51.333	117GF105A106B4AC	7STRP	-0.055356,0.0014	Slew =12.01	4R3	4	0	4,666,808:10:0	
1646	98	269	05:37:59.333	117GF105A106B4AD	7STRP	0.054855,0.0,0,0	Slew =,0.63	4R3	4	0	4,666,808:22:0	
1647	98	269	05:38:58.666	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	4,666,809:20:0	
1648	98	269	05:38:58.666		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 413.41 +/- 4	4R3	4	0	4,666,809:20:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1649	98	269	05:39:00.066		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 413.53 +/- 4	4R3	4	0	4,666,809	22:1
1650	98	269	05:39:05.333		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 414.77 +/- 4	4R3	4	0	4,666,809	30:0
1651	98	269	05:39:06.533		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC * 414.83 +/- 4	4R3	4	0	4,666,809	31:8
1652	98	269	05:39:07.933		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC * 414.71 +/- 4	4R3	4	0	4,666,809	33:9
1653	98	269	05:39:24.000		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC * 410.94 +/- 4	4R3	4	0	4,666,809	58:0
1654	98	269	05:39:29.333	117GF105A106C4A	7STRP	-0.048939,0.0012	Slew =12.01	4R3	4	0	4,666,809	66:0
1655	98	269	05:39:36.666	117GF105A106C4B	7STRP	0.048037,0.0,0,0	Slew =,0.63	4R3	4	0	4,666,809	77:0
1656	98	269	05:39:46.666	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,666,810	01:0
1657	98	269	05:39:46.666		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC * 405.63 +/- 4	4R3	4	0	4,666,810	01:0
1658	98	269	05:39:47.866		DMS:	: *READY	RDY, TRACK 4, REV, TIC * 405.57 +/- 4	4R3	4	0	4,666,810	02:8
1659	98	269	05:40:56.666	117GF105A106C4C	7STRP	-0.048939,0.0012	Slew =12.01	4R3	4	0	4,666,811	15:0
1660	98	269	05:41:04.000	117GF105A106C4D	7STRP	0.048037,0.0,0,0	Slew =,0.63	4R3	4	0	4,666,811	26:0
1661	98	269	05:42:24.000	117GF105A106C4E	7STRP	-0.048939,0.0012	Slew =12.01	4R3	4	0	4,666,812	55:0
1662	98	269	05:42:31.333	117GF105A106C4F	7STRP	0.048037,0.0,0,0	Slew =,0.63	4R3	4	0	4,666,812	66:0
1663	98	269	05:43:51.333	117GF105A106C4G	7STRP	-0.048939,0.0012	Slew =12.01	4R3	4	0	4,666,814	04:0
1664	98	269	05:43:58.666	117GF105A106C4H	7STRP	0.048037,0.0,0,0	Slew =,0.63	4R3	4	0	4,666,814	15:0
1665	98	269	05:45:18.666	117GF105A106C4I	7STRP	-0.048939,0.0012	Slew =12.01	4R3	4	0	4,666,815	44:0
1666	98	269	05:45:26.000	117GF105A106C4J	7STRP	0.048037,0.0,0,0	Slew =,0.63	4R3	4	0	4,666,815	55:0
1667	98	269	05:46:46.000	117GF105A106C4K	7STRP	-0.048939,0.0012	Slew =12.01	4R3	4	0	4,666,816	84:0
1668	98	269	05:46:53.333	117GF105A106C4L	7STRP	0.048037,0.0,0,0	Slew =,0.63	4R3	4	0	4,666,817	04:0
1669	98	269	05:48:13.333	117GF105A106C4M	7STRP	-0.048939,0.0012	Slew =12.01	4R3	4	0	4,666,818	33:0
1670	98	269	05:48:20.666	117GF105A106C4N	7STRP	0.048037,0.0,0,0	Slew =,0.63	4R3	4	0	4,666,818	44:0
1671	98	269	05:49:40.666	117GF105A106C4O	7STRP	-0.048939,0.0012	Slew =12.01	4R3	4	0	4,666,819	73:0
1672	98	269	05:49:48.000	117GF105A106C4P	7STRP	0.048037,0.0,0,0	Slew =,0.63	4R3	4	0	4,666,819	84:0
1673	98	269	05:51:08.000	117GF105A106C4Q	7STRP	-0.048939,0.0012	Slew =12.01	4R3	4	0	4,666,821	22:0
1674	98	269	05:51:15.333	117GF105A106C4R	7STRP	0.048037,0.0,0,0	Slew =,0.63	4R3	4	0	4,666,821	33:0
1675	98	269	05:52:01.333		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 405.57 +/- 4	4R3	4	0	4,666,822	11:0
1676	98	269	05:52:01.333	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	4,666,822	11:0
1677	98	269	05:52:02.733		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 405.69 +/- 4	4R3	4	0	4,666,822	13:1
1678	98	269	05:52:08.000		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 406.92 +/- 4	4R3	4	0	4,666,822	21:0
1679	98	269	05:52:09.200		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC * 406.98 +/- 4	4R3	4	0	4,666,822	22:8
1680	98	269	05:52:10.600		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC * 406.86 +/- 4	4R3	4	0	4,666,822	24:9
1681	98	269	05:52:26.666		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC * 403.10 +/- 4	4R3	4	0	4,666,822	49:0
1682	98	269	05:52:35.333	117GF105A106C4S	7STRP	-0.048939,0.0012	Slew =12.01	4R3	4	0	4,666,822	62:0
1683	98	269	05:52:42.666	117GF105A106C4T	7STRP	0.048037,0.0,0,0	Slew =,0.63	4R3	4	0	4,666,822	73:0
1684	98	269	05:52:49.333		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC * 397.79 +/- 4	4R3	4	0	4,666,822	83:0
1685	98	269	05:52:49.333	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,666,822	83:0
1686	98	269	05:52:50.533		DMS:	: *READY	RDY, TRACK 4, REV, TIC * 397.73 +/- 4	4R3	4	0	4,666,822	84:8
1687	98	269	05:54:02.666	117GF105A106C4U	7STRP	-0.048939,0.0012	Slew =12.01	4R3	4	0	4,666,824	11:0
1688	98	269	05:54:10.000	117GF105A106C4V	7STRP	0.048037,0.0,0,0	Slew =,0.63	4R3	4	0	4,666,824	22:0
1689	98	269	05:55:30.000	117GF105A106C4W	7STRP	-0.048939,0.0012	Slew =12.01	4R3	4	0	4,666,825	51:0
1690	98	269	05:55:37.333	117GF105A106C4X	7STRP	0.048037,0.0,0,0	Slew =,0.63	4R3	4	0	4,666,825	62:0
1691	98	269	05:56:00.666	488AE6B	6TMSED	NORM,EL6	Sci, Eng, and D/L Chan	4R3	4	0	4,666,826	06:0
1692	98	269	05:56:01.333	282NF432A431A6A	6RCDSL	DDSNCG,PLSDSL,EP	Record Deselect (DDS o	4R3	4	0	4,666,826	07:0
1693	98	269	05:56:02.000	282NF432A6A	6RTSL1		R/T Select of DDS and	4R3	4	0	4,666,826	08:0
1694	98	269	05:56:57.333	117GF105A106C4Y	7STRP	-0.048939,0.0012	Slew =12.01	4R3	4	0	4,666,827	00:0
1695	98	269	05:57:04.666	117GF105A106C4Z	7STRP	0.048037,0.0,0,0	Slew =,0.63	4R3	4	0	4,666,827	11:0
1696	98	269	05:58:24.666	117GF105A106C4AA	7STRP	-0.048939,0.0012	Slew =12.01	4R3	4	0	4,666,828	40:0
1697	98	269	05:58:32.000	117GF105A106C4AB	7STRP	0.048037,0.0,0,0	Slew =,0.63	4R3	4	0	4,666,828	51:0
1698	98	269	05:59:52.000	117GF11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	4,666,829	80:0
1699	98	269	05:59:54.666	165IU4A	7SCAN	NORM,316.445999,	Check S/P Position	4R3	4	0	4,666,829	84:0
1700	98	269	06:00:19.333	176GG6B	6TMREC	**NRC**	NO RECORD Record Mode Change	4R3	4	0	4,666,830	30:0
1701	98	269	06:00:21.333		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 397.73 +/- 4	4R3	4	0	4,666,830	33:0
1702	98	269	06:00:21.333	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	4,666,830	33:0
1703	98	269	06:00:22.733		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 397.85 +/- 4	4R3	4	0	4,666,830	35:1

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1704	98	269	06:00:28.000		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 399.08 +/- 4	4R3	4	0	4,666,830	43:0
1705	98	269	06:00:29.200		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC * 399.14 +/- 4	4R3	4	0	4,666,830	44:8
1706	98	269	06:00:30.600		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC * 399.02 +/- 4	4R3	4	0	4,666,830	46:9
1707	98	269	06:00:31.333		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC * 398.85 +/- 4	4R3	4	0	4,666,830	48:0
1708	98	269	06:00:48.666	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,666,830	74:0
1709	98	269	06:00:48.666		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC * 394.79 +/- 4	4R3	4	0	4,666,830	74:0
1710	98	269	06:00:49.866		DMS:	: *READY	RDY, TRACK 4, REV, TIC * 394.73 +/- 4	4R3	4	0	4,666,830	75:8
1711	98	269	06:02:37.333	165JU4A	7SCAN	NORM,325.936996,	Check S/P Position	4R3	4	0	4,666,832	55:0
1712	98	269	06:03:21.333	175IU422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	4R3	4	0	4,666,833	30:0
1713	98	269	06:03:21.333		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 394.73 +/- 4	4R3	4	0	4,666,833	30:0
1714	98	269	06:03:22.733		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 394.85 +/- 4	4R3	4	0	4,666,833	32:1
1715	98	269	06:03:28.000		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 396.08 +/- 4	4R3	4	0	4,666,833	40:0
1716	98	269	06:03:29.200		DMS:	: *RUNUP	R115, TRACK *4, *REV, TIC * 396.14 +/- 4	4R3	4	0	4,666,833	41:8
1717	98	269	06:03:30.000	165JU4B	7VECT		Inert vect update UTC	4R3	4	0	4,666,833	43:0
1718	98	269	06:03:32.666	175IU176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	4R3	4	0	4,666,833	47:0
1719	98	269	06:03:33.200		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC 389.84 +/- 4	4R3	4	0	4,666,833	47:8
1720	98	269	06:03:33.200		DMS:	**: *RECORD**	R115, TRACK 4, REV, TIC * 389.84 +/- 4	4R3	4	0	4,666,833	47:8
1721	98	269	06:03:34.000	116IU4A	7STRP	-0.00731,-0.0005	Slew =,3.41	4R3	4	0	4,666,833	49:0
1722	98	269	06:03:52.000	116JT4A	7STRP	0.006,0.0035,0,0	Slew =,3.41	4R3	4	0	4,666,833	76:0
1723	98	269	06:04:02.000	175IU422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,666,834	00:0
1724	98	269	06:04:02.000		DMS:	**: *RUNDOWN**	R115, TRACK 4, REV, TIC * 288.59 +/- 4	4R3	4	0	4,666,834	00:0
1725	98	269	06:04:03.200		DMS:	: *READY	RDY, TRACK 4, REV, TIC * 287.59 +/- 4	4R3	4	0	4,666,834	01:8
1726	98	269	06:05:07.333	175JT422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	4R3	4	0	4,666,835	07:0
1727	98	269	06:05:07.333		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 287.59 +/- 4	4R3	4	0	4,666,835	07:0
1728	98	269	06:05:08.733		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 287.71 +/- 4	4R3	4	0	4,666,835	09:1
1729	98	269	06:05:14.000		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 288.94 +/- 4	4R3	4	0	4,666,835	17:0
1730	98	269	06:05:15.200		DMS:	: *RUNUP	R115, TRACK *4, *REV, TIC * 289.00 +/- 4	4R3	4	0	4,666,835	18:8
1731	98	269	06:05:18.666	175JT176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	4R3	4	0	4,666,835	24:0
1732	98	269	06:05:19.200		DMS:	**: *RECORD**	R115, TRACK 4, REV, TIC * 282.70 +/- 4	4R3	4	0	4,666,835	24:8
1733	98	269	06:05:19.200		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC 282.70 +/- 4	4R3	4	0	4,666,835	24:8
1734	98	269	06:05:20.000	116JU4A	7STRP	-0.096296,-0.011	Slew =17.01	4R3	4	0	4,666,835	26:0
1735	98	269	06:05:22.666		DMS:	**: *RUNDOWN**	R115, TRACK 4, REV, TIC * 270.52 +/- 4	4R3	4	0	4,666,835	30:0
1736	98	269	06:05:22.666	175JT422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,666,835	30:0
1737	98	269	06:05:23.866		DMS:	: *READY	RDY, TRACK 4, REV, TIC * 269.52 +/- 4	4R3	4	0	4,666,835	31:8
1738	98	269	06:06:28.000		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 269.52 +/- 4	4R3	4	0	4,666,836	37:0
1739	98	269	06:06:28.000		DMS:	: *DMS-TURN	P7, TRACK 4, REV, TIC 269.52 +/- 4	4R3	4	0	4,666,836	37:0
1740	98	269	06:06:28.000	465KF6A	6DTRN	CMD,6DTRN,465KF6	DMS TRACK TURNAROUND	4R3	4	0	4,666,836	37:0
1741	98	269	06:06:29.400		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 269.64 +/- 4	4R3	4	0	4,666,836	39:1
1742	98	269	06:06:34.666		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 270.87 +/- 4	4R3	4	0	4,666,836	47:0
1743	98	269	06:06:35.866		DMS:	: *RUNUP	P7, TRACK *4, *REV, TIC * 270.93 +/- 4	4R3	4	0	4,666,836	48:8
1744	98	269	06:06:37.266		DMS:	: *AT_SPD	P7, TRACK 4, REV, TIC * 270.81 +/- 4	4R3	4	0	4,666,836	50:9
1745	98	269	06:11:39.866		DMS:	: *REVERSE	P7, TRACK 4, REV, TIC * 199.87 +/- 4	4R3	4	0	4,666,841	49:8
1746	98	269	06:11:41.066		DMS:	: *RUNUP	P7, TRACK 1, FWD, TIC 199.81 +/- 4	4R3	4	0	4,666,841	51:6
1747	98	269	06:11:41.066		DMS:	: *TURNARND	P7, TRACK *1, *FWD, TIC * 199.81 +/- 4	4R3	4	0	4,666,841	51:6
1748	98	269	06:11:42.466		DMS:	: *AT_SPD	P7, TRACK 1, FWD, TIC * 199.93 +/-	4R3	4	0	4,666,841	53:7
1749	98	269	06:11:54.466		DMS:	: *AUTOSTOP	P7, TRACK 1, FWD, TIC * 202.06 +/-	4R3	4	0	4,666,841	71:7
1750	98	269	06:11:55.666		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 202.12 +/-	4R3	4	0	4,666,841	73:5
1751	98	269	06:17:02.666		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 202.12 +/-	4R3	4	0	4,666,846	79:0
1752	98	269	06:17:02.666	465KG6A	6DMSC	P7,1	DMS Control Tape P/B 7.68kbps	4R3	4	0	4,666,846	79:0
1753	98	269	06:17:09.333		DMS:	: *RUNUP	P7, TRACK 1, FWD, TIC 202.12 +/-	4R3	4	0	4,666,846	89:0
1754	98	269	06:17:10.733		DMS:	: *P_SLEW	P7, TRACK 1, FWD, TIC * 202.24 +/-	4R3	4	0	4,666,847	00:1
1755	98	269	06:17:10.733		DMS:	: *AT_SPD	P7, TRACK 1, FWD, TIC 202.24 +/-	4R3	4	0	4,666,847	00:1
1756	98	269	06:18:11.333		DMS:	**: *RUNDOWN**	P7, TRACK 1, FWD, TIC * 216.45 +/-	4R3	4	0	4,666,848	00:0
1757	98	269	06:18:11.333	465KG6B	6DMSC	RDY,1	DMS Control Tape stop	4R3	4	0	4,666,848	00:0
1758	98	269	06:18:12.533		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 216.51 +/-	4R3	4	0	4,666,848	01:8

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1759	98	269	06:18:48.000	175JU422A6A	6DMSC	R115,1	DMS Control	4R3	4	0	4,666,848	55:0
1760	98	269	06:18:48.000		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 216.51 +/-	4R3	4	0	4,666,848	55:0
1761	98	269	06:18:54.666		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 216.51 +/-	4R3	4	0	4,666,848	65:0
1762	98	269	06:18:58.000	175JU176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	4R3	4	0	4,666,848	70:0
1763	98	269	06:18:58.666	116JV4A	7STRP	-0.068105,-0.006	Slew =17.01	4R3	4	0	4,666,848	71:0
1764	98	269	06:18:58.666		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 222.81 +/-	4R3	4	0	4,666,848	71:0
1765	98	269	06:18:58.666		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC * 222.81 +/-	4R3	4	0	4,666,848	71:0
1766	98	269	06:19:12.000	175JU422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,666,849	00:0
1767	98	269	06:19:12.000		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC * 269.68 +/-	4R3	4	0	4,666,849	00:0
1768	98	269	06:19:13.200		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 270.68 +/-	4R3	4	0	4,666,849	01:8
1769	98	269	06:19:18.000		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 270.68 +/-	4R3	4	0	4,666,849	09:0
1770	98	269	06:19:18.000	175JV422A6A	6DMSC	R115,1	DMS Control	4R3	4	0	4,666,849	09:0
1771	98	269	06:19:24.666		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 270.68 +/-	4R3	4	0	4,666,849	19:0
1772	98	269	06:19:28.000	175JV176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	4R3	4	0	4,666,849	24:0
1773	98	269	06:19:28.666		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 276.98 +/-	4R3	4	0	4,666,849	25:0
1774	98	269	06:19:28.666		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC * 276.98 +/-	4R3	4	0	4,666,849	25:0
1775	98	269	06:19:42.666	175JV422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,666,849	46:0
1776	98	269	06:19:42.666		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC * 326.20 +/-	4R3	4	0	4,666,849	46:0
1777	98	269	06:19:43.866		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 327.20 +/-	4R3	4	0	4,666,849	47:8
1778	98	269	06:20:16.666	444UD443A4A	**7MODE**	**CRU**	AACS CRUISE MODE	4R3	4	0	4,666,850	06:0
1779	98	269	06:23:14.000	165GG4A	7SCAN	NORM,90.702,25.1	Check S/P Position	4R3	4	0	4,666,852	90:0
1780	98	269	06:26:16.666	176GH6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	4R3	4	0	4,666,856	00:0
1781	98	269	06:27:08.000	117GG	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	4,666,856	77:0
1782	98	269	06:27:17.333	117GG105A106A4A	7STRP	0.030009,0.0,0,0	Slew =,0.45	4R3	4	0	4,666,857	00:0
1783	98	269	06:28:27.333	117GG105A106A4B	7STRP	-0.03061,-0.0006	Slew =12.01	4R3	4	0	4,666,858	14:0
1784	98	269	06:28:34.000	117GG105A106A4C	7STRP	0.030009,0.0,0,0	Slew =,0.45	4R3	4	0	4,666,858	24:0
1785	98	269	06:29:44.000	117GG105A106A4D	7STRP	-0.03061,-0.0006	Slew =12.01	4R3	4	0	4,666,859	38:0
1786	98	269	06:29:50.666	117GG105A106A4E	7STRP	0.030009,0.0,0,0	Slew =,0.45	4R3	4	0	4,666,859	48:0
1787	98	269	06:31:00.666	117GG105A106A4F	7STRP	-0.03061,-0.0006	Slew =12.01	4R3	4	0	4,666,860	62:0
1788	98	269	06:31:07.333	117GG105A106A4G	7STRP	0.030009,0.0,0,0	Slew =,0.45	4R3	4	0	4,666,860	72:0
1789	98	269	06:32:17.333	117GG105A106A4H	7STRP	-0.03061,-0.0006	Slew =12.01	4R3	4	0	4,666,861	86:0
1790	98	269	06:32:24.000	117GG105A106A4I	7STRP	0.030009,0.0,0,0	Slew =,0.45	4R3	4	0	4,666,862	05:0
1791	98	269	06:33:34.000	117GG105A106A4J	7STRP	-0.03061,-0.0006	Slew =12.01	4R3	4	0	4,666,863	19:0
1792	98	269	06:33:40.666	117GG105A106A4K	7STRP	0.030009,0.0,0,0	Slew =,0.45	4R3	4	0	4,666,863	29:0
1793	98	269	06:34:50.666	117GG105A106A4L	7STRP	-0.03061,-0.0006	Slew =12.01	4R3	4	0	4,666,864	43:0
1794	98	269	06:34:57.333	117GG105A106A4M	7STRP	0.030009,0.0,0,0	Slew =,0.45	4R3	4	0	4,666,864	53:0
1795	98	269	06:36:07.333	117GG105A106A4N	7STRP	-0.03061,-0.0006	Slew =12.01	4R3	4	0	4,666,865	67:0
1796	98	269	06:36:14.000	117GG105A106A4O	7STRP	0.030009,0.0,0,0	Slew =,0.45	4R3	4	0	4,666,865	77:0
1797	98	269	06:37:24.000	117GG105A106A4P	7STRP	-0.03061,-0.0006	Slew =12.01	4R3	4	0	4,666,867	00:0
1798	98	269	06:37:30.666	117GG105A106A4Q	7STRP	0.030009,0.0,0,0	Slew =,0.45	4R3	4	0	4,666,867	10:0
1799	98	269	06:38:40.666	117GG105A106A4R	7STRP	-0.03061,-0.0006	Slew =12.01	4R3	4	0	4,666,868	24:0
1800	98	269	06:38:47.333	117GG105A106A4S	7STRP	0.030009,0.0,0,0	Slew =,0.45	4R3	4	0	4,666,868	34:0
1801	98	269	06:38:51.333	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	4,666,868	40:0
1802	98	269	06:38:51.333		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 327.20 +/-	4R3	4	0	4,666,868	40:0
1803	98	269	06:38:58.000		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 327.20 +/-	4R3	4	0	4,666,868	50:0
1804	98	269	06:38:59.400		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC * 327.32 +/-	4R3	4	0	4,666,868	52:1
1805	98	269	06:39:16.666		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC * 331.37 +/-	4R3	4	0	4,666,868	78:0
1806	98	269	06:39:39.333		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC * 336.68 +/-	4R3	4	0	4,666,869	21:0
1807	98	269	06:39:39.333	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,666,869	21:0
1808	98	269	06:39:40.533		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 336.74 +/-	4R3	4	0	4,666,869	22:8
1809	98	269	06:39:57.333	117GG105A106A4T	7STRP	-0.03061,-0.0006	Slew =12.01	4R3	4	0	4,666,869	48:0
1810	98	269	06:40:04.000	117GG105A106A4U	7STRP	0.030009,0.0,0,0	Slew =,0.45	4R3	4	0	4,666,869	58:0
1811	98	269	06:41:14.000	117GG105A106A4V	7STRP	-0.03061,-0.0006	Slew =12.01	4R3	4	0	4,666,870	72:0
1812	98	269	06:41:20.666	117GG105A106A4W	7STRP	0.030009,0.0,0,0	Slew =,0.45	4R3	4	0	4,666,870	82:0
1813	98	269	06:42:30.666	117GG105A106A4X	7STRP	-0.03061,-0.0006	Slew =12.01	4R3	4	0	4,666,872	05:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1814	98	269	06:42:37.333	117GG105A106A4Y	7STRP	0.030009,0.0,0,0	Slew =,0.45	4R3	4	0	4,666,872	15:0
1815	98	269	06:43:47.333	117GG105A106A4Z	7STRP	-0.03061,-0.0006	Slew =12.01	4R3	4	0	4,666,873	29:0
1816	98	269	06:43:54.000	117GG105A106A4AA	7STRP	0.030009,0.0,0,0	Slew =,0.45	4R3	4	0	4,666,873	39:0
1817	98	269	06:45:04.000	117GG105A106A4AB	7STRP	-0.03061,-0.0006	Slew =12.01	4R3	4	0	4,666,874	53:0
1818	98	269	06:45:10.666	117GG105A106A4AC	7STRP	0.030009,0.0,0,0	Slew =,0.45	4R3	4	0	4,666,874	63:0
1819	98	269	06:46:20.666	117GG105A106A4AD	7STRP	-0.03061,-0.0006	Slew =12.01	4R3	4	0	4,666,875	77:0
1820	98	269	06:46:27.333	117GG105A106A4AE	7STRP	0.030009,0.0,0,0	Slew =,0.45	4R3	4	0	4,666,875	87:0
1821	98	269	06:47:37.333	117GG105A106A4AF	7STRP	-0.03061,-0.0006	Slew =12.01	4R3	4	0	4,666,877	10:0
1822	98	269	06:47:44.000	117GG105A106A4AG	7STRP	0.030009,0.0,0,0	Slew =,0.45	4R3	4	0	4,666,877	20:0
1823	98	269	06:48:54.000	117GG105A106A4AH	7STRP	-0.03061,-0.0006	Slew =12.01	4R3	4	0	4,666,878	34:0
1824	98	269	06:49:00.666	117GG105A106A4AI	7STRP	0.030009,0.0,0,0	Slew =,0.45	4R3	4	0	4,666,878	44:0
1825	98	269	06:50:10.666	117GG105A106A4AJ	7STRP	-0.03061,-0.0006	Slew =12.01	4R3	4	0	4,666,879	58:0
1826	98	269	06:50:17.333	117GG105A106A4AK	7STRP	0.030009,0.0,0,0	Slew =,0.45	4R3	4	0	4,666,879	68:0
1827	98	269	06:50:55.333	488AE6C	6TMSED	NORM,EL5	Sci, Eng, and D/L Chan	4R3	4	0	4,666,880	34:0
1828	98	269	06:51:27.333	117GG105A106A4AL	7STRP	-0.03061,-0.0006	Slew =12.01	4R3	4	0	4,666,880	82:0
1829	98	269	06:51:34.000	117GG105A106A4AM	7STRP	0.030009,0.0,0,0	Slew =,0.45	4R3	4	0	4,666,881	01:0
1830	98	269	06:51:53.333	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	4,666,881	30:0
1831	98	269	06:51:53.333		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 336.74 +/-	4R3	4	0	4,666,881	30:0
1832	98	269	06:52:00.000		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 336.74 +/-	4R3	4	0	4,666,881	40:0
1833	98	269	06:52:01.400		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC * 336.86 +/-	4R3	4	0	4,666,881	42:1
1834	98	269	06:52:18.666		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC * 340.91 +/-	4R3	4	0	4,666,881	68:0
1835	98	269	06:52:41.333	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,666,882	11:0
1836	98	269	06:52:41.333		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC * 346.22 +/-	4R3	4	0	4,666,882	11:0
1837	98	269	06:52:42.533		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 346.28 +/-	4R3	4	0	4,666,882	12:8
1838	98	269	06:52:44.000	117GG105A106A4AN	7STRP	-0.03061,-0.0006	Slew =12.01	4R3	4	0	4,666,882	15:0
1839	98	269	06:52:50.666	117GG105A106A4AO	7STRP	0.030009,0.0,0,0	Slew =,0.45	4R3	4	0	4,666,882	25:0
1840	98	269	06:54:00.666	117GG105A106A4AP	7STRP	-0.03061,-0.0006	Slew =12.01	4R3	4	0	4,666,883	39:0
1841	98	269	06:54:07.333	117GG105A106A4AQ	7STRP	0.030009,0.0,0,0	Slew =,0.45	4R3	4	0	4,666,883	49:0
1842	98	269	06:55:17.333	117GG105A106A4AR	7STRP	-0.03061,-0.0006	Slew =12.01	4R3	4	0	4,666,884	63:0
1843	98	269	06:55:24.000	117GG105A106A4AS	7STRP	0.030009,0.0,0,0	Slew =,0.45	4R3	4	0	4,666,884	73:0
1844	98	269	06:56:34.000	117GG105A106A4AT	7STRP	-0.03061,-0.0006	Slew =12.01	4R3	4	0	4,666,885	87:0
1845	98	269	06:56:40.666	117GG105A106A4AU	7STRP	0.030009,0.0,0,0	Slew =,0.45	4R3	4	0	4,666,886	06:0
1846	98	269	06:57:50.666	117GG105A106A4AV	7STRP	-0.03061,-0.0006	Slew =12.01	4R3	4	0	4,666,887	20:0
1847	98	269	06:57:57.333	117GG105A106A4AW	7STRP	0.030009,0.0,0,0	Slew =,0.45	4R3	4	0	4,666,887	30:0
1848	98	269	06:59:07.333	117GG105A106A4AX	7STRP	-0.03061,-0.0006	Slew =12.01	4R3	4	0	4,666,888	44:0
1849	98	269	06:59:14.000	117GG105A106A4AY	7STRP	0.030009,0.0,0,0	Slew =,0.45	4R3	4	0	4,666,888	54:0
1850	98	269	07:00:24.000	117GG105A106A4AZ	7STRP	-0.03061,-0.0006	Slew =12.01	4R3	4	0	4,666,889	68:0
1851	98	269	07:00:30.666	117GG105A106A4BA	7STRP	0.030009,0.0,0,0	Slew =,0.45	4R3	4	0	4,666,889	78:0
1852	98	269	07:01:40.666	117GG105A106A4BB	7STRP	-0.03061,-0.0006	Slew =12.01	4R3	4	0	4,666,891	01:0
1853	98	269	07:01:47.333	117GG105A106A4BC	7STRP	0.030009,0.0,0,0	Slew =,0.45	4R3	4	0	4,666,891	11:0
1854	98	269	07:02:57.333	117GG105A106A4BD	7STRP	-0.03061,-0.0006	Slew =12.01	4R3	4	0	4,666,892	25:0
1855	98	269	07:03:04.000	117GG105A106A4BE	7STRP	0.030009,0.0,0,0	Slew =,0.45	4R3	4	0	4,666,892	35:0
1856	98	269	07:04:14.000	117GG105A106A4BF	7STRP	-0.03061,-0.0006	Slew =12.01	4R3	4	0	4,666,893	49:0
1857	98	269	07:04:20.666	117GG105A106A4BG	7STRP	0.030009,0.0,0,0	Slew =,0.45	4R3	4	0	4,666,893	59:0
1858	98	269	07:04:55.333		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 346.28 +/-	4R3	4	0	4,666,894	20:0
1859	98	269	07:04:55.333	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	4,666,894	20:0
1860	98	269	07:05:02.000		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 346.28 +/-	4R3	4	0	4,666,894	30:0
1861	98	269	07:05:03.400		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC * 346.40 +/-	4R3	4	0	4,666,894	32:1
1862	98	269	07:05:20.666		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC * 350.45 +/-	4R3	4	0	4,666,894	58:0
1863	98	269	07:05:30.666	117GG105A106A4BH	7STRP	-0.03061,-0.0006	Slew =12.01	4R3	4	0	4,666,894	73:0
1864	98	269	07:05:37.333	117GG105A106A4BI	7STRP	0.030009,0.0,0,0	Slew =,0.45	4R3	4	0	4,666,894	83:0
1865	98	269	07:05:43.333	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,666,895	01:0
1866	98	269	07:05:43.333		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC * 355.76 +/-	4R3	4	0	4,666,895	01:0
1867	98	269	07:05:44.533		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 355.82 +/-	4R3	4	0	4,666,895	02:8
1868	98	269	07:06:47.333	117GG105A106A4BJ	7STRP	-0.03061,-0.0006	Slew =12.01	4R3	4	0	4,666,896	06:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1869	98	269	07:06:54.000	117GG105A106A4BK	7STRP	0.030009,0.0,0,0	Slew =,0.45	4R3	4	0	4,666,896	16:0
1870	98	269	07:08:04.000	117GG105A106A4BL	7STRP	-0.03061,-0.0006	Slew =12.01	4R3	4	0	4,666,897	30:0
1871	98	269	07:08:10.666	117GG105A106A4BM	7STRP	0.030009,0.0,0,0	Slew =,0.45	4R3	4	0	4,666,897	40:0
1872	98	269	07:09:20.666	117GG105A106A4BN	7STRP	-0.03061,-0.0006	Slew =12.01	4R3	4	0	4,666,898	54:0
1873	98	269	07:09:27.333	117GG105A106A4BO	7STRP	0.030009,0.0,0,0	Slew =,0.45	4R3	4	0	4,666,898	64:0
1874	98	269	07:10:37.333	117GG105A106A4BP	7STRP	-0.03061,-0.0006	Slew =12.01	4R3	4	0	4,666,899	78:0
1875	98	269	07:10:44.000	117GG105A106A4BQ	7STRP	0.030009,0.0,0,0	Slew =,0.45	4R3	4	0	4,666,899	88:0
1876	98	269	07:11:54.000	117GG105A106A4BR	7STRP	-0.03061,-0.0006	Slew =12.01	4R3	4	0	4,666,901	11:0
1877	98	269	07:12:00.666	117GG105A106A4BS	7STRP	0.030009,0.0,0,0	Slew =,0.45	4R3	4	0	4,666,901	21:0
1878	98	269	07:13:10.666	117GG105A106A4BT	7STRP	-0.03061,-0.0006	Slew =12.01	4R3	4	0	4,666,902	35:0
1879	98	269	07:13:17.333	117GG105A106A4BU	7STRP	0.030009,0.0,0,0	Slew =,0.45	4R3	4	0	4,666,902	45:0
1880	98	269	07:14:27.333	117GG105A106A4BV	7STRP	-0.03061,-0.0006	Slew =12.01	4R3	4	0	4,666,903	59:0
1881	98	269	07:14:34.000	117GG105A106A4BW	7STRP	0.030009,0.0,0,0	Slew =,0.45	4R3	4	0	4,666,903	69:0
1882	98	269	07:15:44.000	117GG105A106A4BX	7STRP	-0.03061,-0.0006	Slew =12.01	4R3	4	0	4,666,904	83:0
1883	98	269	07:15:50.666	117GG105A106A4BY	7STRP	0.030009,0.0,0,0	Slew =,0.45	4R3	4	0	4,666,905	02:0
1884	98	269	07:17:00.666	117GG105A106A4BZ	7STRP	-0.03061,-0.0006	Slew =12.01	4R3	4	0	4,666,906	16:0
1885	98	269	07:17:07.333	117GG105A106A4CA	7STRP	0.030009,0.0,0,0	Slew =,0.45	4R3	4	0	4,666,906	26:0
1886	98	269	07:17:58.000		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 355.82 +/-	4R3	4	0	4,666,907	11:0
1887	98	269	07:17:58.000	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	4,666,907	11:0
1888	98	269	07:18:04.666		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 355.82 +/-	4R3	4	0	4,666,907	21:0
1889	98	269	07:18:06.066		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC * 355.94 +/-	4R3	4	0	4,666,907	23:1
1890	98	269	07:18:17.333	117GG105A106A4CB	7STRP	-0.03061,-0.0006	Slew =12.01	4R3	4	0	4,666,907	40:0
1891	98	269	07:18:22.666		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC * 359.83 +/-	4R3	4	0	4,666,907	48:0
1892	98	269	07:18:24.000	117GG105A106A4CC	7STRP	0.030009,0.0,0,0	Slew =,0.45	4R3	4	0	4,666,907	50:0
1893	98	269	07:18:45.333		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC * 365.14 +/-	4R3	4	0	4,666,907	82:0
1894	98	269	07:18:45.333	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,666,907	82:0
1895	98	269	07:18:46.533		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 365.20 +/-	4R3	4	0	4,666,907	83:8
1896	98	269	07:19:34.000	117GG105A106A4CD	7STRP	-0.03061,-0.0006	Slew =12.01	4R3	4	0	4,666,908	64:0
1897	98	269	07:19:40.666	117GG105A106A4CE	7STRP	0.030009,0.0,0,0	Slew =,0.45	4R3	4	0	4,666,908	74:0
1898	98	269	07:20:50.666	117GG105A106A4CF	7STRP	-0.03061,-0.0006	Slew =12.01	4R3	4	0	4,666,909	88:0
1899	98	269	07:20:57.333	117GG105A106A4CG	7STRP	0.030009,0.0,0,0	Slew =,0.45	4R3	4	0	4,666,910	07:0
1900	98	269	07:22:07.333	117GG105A106A4CH	7STRP	-0.03061,-0.0006	Slew =12.01	4R3	4	0	4,666,911	21:0
1901	98	269	07:22:14.000	117GG105A106A4CI	7STRP	0.030009,0.0,0,0	Slew =,0.45	4R3	4	0	4,666,911	31:0
1902	98	269	07:23:24.000	117GG105A106A4CJ	7STRP	-0.03061,-0.0006	Slew =12.01	4R3	4	0	4,666,912	45:0
1903	98	269	07:23:30.666	117GG105A106A4CK	7STRP	0.030009,0.0,0,0	Slew =,0.45	4R3	4	0	4,666,912	55:0
1904	98	269	07:24:40.666	117GG105A106A4CL	7STRP	-0.03061,-0.0006	Slew =12.01	4R3	4	0	4,666,913	69:0
1905	98	269	07:24:47.333	117GG105A106A4CM	7STRP	0.030009,0.0,0,0	Slew =,0.45	4R3	4	0	4,666,913	79:0
1906	98	269	07:25:57.333	117GG105A106A4CN	7STRP	-0.03061,-0.0006	Slew =12.01	4R3	4	0	4,666,915	02:0
1907	98	269	07:26:04.000	117GG105A106A4CO	7STRP	0.030009,0.0,0,0	Slew =,0.45	4R3	4	0	4,666,915	12:0
1908	98	269	07:27:14.000	117GG105A106A4CP	7STRP	-0.03061,-0.0006	Slew =12.01	4R3	4	0	4,666,916	26:0
1909	98	269	07:27:20.666	117GG105A106A4CQ	7STRP	0.030009,0.0,0,0	Slew =,0.45	4R3	4	0	4,666,916	36:0
1910	98	269	07:28:30.666	117GG105A106A4CR	7STRP	-0.03061,-0.0006	Slew =12.01	4R3	4	0	4,666,917	50:0
1911	98	269	07:28:37.333	117GG105A106A4CS	7STRP	0.030009,0.0,0,0	Slew =,0.45	4R3	4	0	4,666,917	60:0
1912	98	269	07:29:47.333	117GG105A106A4CT	7STRP	-0.03061,-0.0006	Slew =12.01	4R3	4	0	4,666,918	74:0
1913	98	269	07:29:54.000	117GG105A106A4CU	7STRP	0.030009,0.0,0,0	Slew =,0.45	4R3	4	0	4,666,918	84:0
1914	98	269	07:31:00.000	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	4,666,920	01:0
1915	98	269	07:31:00.000		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 365.20 +/-	4R3	4	0	4,666,920	01:0
1916	98	269	07:31:04.000	117GG105A106A4CV	7STRP	-0.03061,-0.0006	Slew =12.01	4R3	4	0	4,666,920	07:0
1917	98	269	07:31:06.666		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 365.20 +/-	4R3	4	0	4,666,920	11:0
1918	98	269	07:31:08.066		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC * 365.32 +/-	4R3	4	0	4,666,920	13:1
1919	98	269	07:31:10.666	117GG105A106A4CW	7STRP	0.030009,0.0,0,0	Slew =,0.45	4R3	4	0	4,666,920	17:0
1920	98	269	07:31:25.333		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC * 369.37 +/-	4R3	4	0	4,666,920	39:0
1921	98	269	07:31:48.000		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC * 374.68 +/-	4R3	4	0	4,666,920	73:0
1922	98	269	07:31:48.000	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,666,920	73:0
1923	98	269	07:31:49.200		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 374.74 +/-	4R3	4	0	4,666,920	74:8

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1924	98	269	07:32:20.666	117GG105A106A4CX	7STRP	-0.03061,-0.0006	Slew =12.01	4R3	4	0	4,666,921	31:0
1925	98	269	07:32:27.333	117GG105A106A4CY	7STRP	0.030009,0.0,0,0	Slew =,0.45	4R3	4	0	4,666,921	41:0
1926	98	269	07:33:37.333	117GG105A106A4CZ	7STRP	-0.03061,-0.0006	Slew =12.01	4R3	4	0	4,666,922	55:0
1927	98	269	07:33:44.000	117GG105A106A4DA	7STRP	0.030009,0.0,0,0	Slew =,0.45	4R3	4	0	4,666,922	65:0
1928	98	269	07:34:54.000	117GG11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	4,666,923	79:0
1929	98	269	07:41:06.000	176GH6B	6TMREC	**NRC**	NO RECORD Record Mode Change	4R3	4	0	4,666,930	00:0
1930	98	269	07:41:08.000	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	4,666,930	03:0
1931	98	269	07:41:08.000		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 374.74 +/-	4R3	4	0	4,666,930	03:0
1932	98	269	07:41:14.666		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 374.74 +/-	4R3	4	0	4,666,930	13:0
1933	98	269	07:41:16.066		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC * 374.86 +/-	4R3	4	0	4,666,930	15:1
1934	98	269	07:41:18.000		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC * 375.31 +/-	4R3	4	0	4,666,930	18:0
1935	98	269	07:41:36.666		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC * 379.69 +/-	4R3	4	0	4,666,930	46:0
1936	98	269	07:41:36.666	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,666,930	46:0
1937	98	269	07:41:37.866		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 379.75 +/-	4R3	4	0	4,666,930	47:8
1938	98	269	07:42:06.000	165GH4A	7SCAN	NORM,92.778999,2	Check S/P Position	4R3	4	0	4,666,930	90:0
1939	98	269	07:42:06.666	176GI6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	4R3	4	0	4,666,931	00:0
1940	98	269	07:42:58.000	117GH	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	4,666,931	77:0
1941	98	269	07:43:07.333	117GH105A106A4A	7STRP	0.023004,0.0,0,0	Slew =,0.37	4R3	4	0	4,666,932	00:0
1942	98	269	07:44:12.666	117GH105A106A4B	7STRP	-0.00038,0.00082	Slew =12.01	4R3	4	0	4,666,933	07:0
1943	98	269	07:44:22.000	117GH105A106A4C	7STRP	0.023004,0.0,0,0	Slew =,0.37	4R3	4	0	4,666,933	21:0
1944	98	269	07:45:27.333	117GH105A106A4D	7STRP	-0.00038,0.00082	Slew =12.01	4R3	4	0	4,666,934	28:0
1945	98	269	07:45:36.666	117GH105A106A4E	7STRP	0.023004,0.0,0,0	Slew =,0.37	4R3	4	0	4,666,934	42:0
1946	98	269	07:46:42.000	117GH105A106A4F	7STRP	-0.00038,0.00082	Slew =12.01	4R3	4	0	4,666,935	49:0
1947	98	269	07:46:51.333	117GH105A106A4G	7STRP	0.023004,0.0,0,0	Slew =,0.37	4R3	4	0	4,666,935	63:0
1948	98	269	07:47:56.666	117GH105A106A4H	7STRP	-0.00038,0.00082	Slew =12.01	4R3	4	0	4,666,936	70:0
1949	98	269	07:48:06.000	117GH105A106A4I	7STRP	0.023004,0.0,0,0	Slew =,0.37	4R3	4	0	4,666,936	84:0
1950	98	269	07:49:11.333	117GH105A106A4J	7STRP	-0.00038,0.00082	Slew =12.01	4R3	4	0	4,666,938	00:0
1951	98	269	07:49:20.666	117GH105A106A4K	7STRP	0.023004,0.0,0,0	Slew =,0.37	4R3	4	0	4,666,938	14:0
1952	98	269	07:50:26.000	117GH105A106A4L	7STRP	-0.00038,0.00082	Slew =12.01	4R3	4	0	4,666,939	21:0
1953	98	269	07:50:35.333	117GH105A106A4M	7STRP	0.023004,0.0,0,0	Slew =,0.37	4R3	4	0	4,666,939	35:0
1954	98	269	07:51:40.666	117GH105A106A4N	7STRP	-0.00038,0.00082	Slew =12.01	4R3	4	0	4,666,940	42:0
1955	98	269	07:51:50.000	117GH105A106A4O	7STRP	0.023004,0.0,0,0	Slew =,0.37	4R3	4	0	4,666,940	56:0
1956	98	269	07:52:55.333	117GH105A106A4P	7STRP	-0.00038,0.00082	Slew =12.01	4R3	4	0	4,666,941	63:0
1957	98	269	07:53:04.666	117GH105A106A4Q	7STRP	0.023004,0.0,0,0	Slew =,0.37	4R3	4	0	4,666,941	77:0
1958	98	269	07:54:10.000	117GH105A106A4R	7STRP	-0.00038,0.00082	Slew =12.01	4R3	4	0	4,666,942	84:0
1959	98	269	07:54:19.333	117GH105A106A4S	7STRP	0.023004,0.0,0,0	Slew =,0.37	4R3	4	0	4,666,943	07:0
1960	98	269	07:54:41.333	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	4,666,943	40:0
1961	98	269	07:54:41.333		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 379.75 +/-	4R3	4	0	4,666,943	40:0
1962	98	269	07:54:48.000		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 379.75 +/-	4R3	4	0	4,666,943	50:0
1963	98	269	07:54:49.400		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC * 379.87 +/-	4R3	4	0	4,666,943	52:1
1964	98	269	07:55:06.666		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC * 383.92 +/-	4R3	4	0	4,666,943	78:0
1965	98	269	07:55:24.666	117GH105A106A4T	7STRP	-0.00038,0.00082	Slew =12.01	4R3	4	0	4,666,944	14:0
1966	98	269	07:55:29.333		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC * 389.23 +/-	4R3	4	0	4,666,944	21:0
1967	98	269	07:55:29.333	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,666,944	21:0
1968	98	269	07:55:30.533		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 389.29 +/-	4R3	4	0	4,666,944	22:8
1969	98	269	07:55:34.000	117GH105A106A4U	7STRP	0.023004,0.0,0,0	Slew =,0.37	4R3	4	0	4,666,944	28:0
1970	98	269	07:56:39.333	117GH105A106A4V	7STRP	-0.00038,0.00082	Slew =12.01	4R3	4	0	4,666,945	35:0
1971	98	269	07:56:48.666	117GH105A106A4W	7STRP	0.023004,0.0,0,0	Slew =,0.37	4R3	4	0	4,666,945	49:0
1972	98	269	07:57:54.000	117GH105A106A4X	7STRP	-0.00038,0.00082	Slew =12.01	4R3	4	0	4,666,946	56:0
1973	98	269	07:58:03.333	117GH105A106A4Y	7STRP	0.023004,0.0,0,0	Slew =,0.37	4R3	4	0	4,666,946	70:0
1974	98	269	07:59:08.666	117GH105A106A4Z	7STRP	-0.00038,0.00082	Slew =12.01	4R3	4	0	4,666,947	77:0
1975	98	269	07:59:18.000	117GH105A106A4AA	7STRP	0.023004,0.0,0,0	Slew =,0.37	4R3	4	0	4,666,948	00:0
1976	98	269	08:00:23.333	117GH105A106A4AB	7STRP	-0.00038,0.00082	Slew =12.01	4R3	4	0	4,666,949	07:0
1977	98	269	08:00:32.666	117GH105A106A4AC	7STRP	0.023004,0.0,0,0	Slew =,0.37	4R3	4	0	4,666,949	21:0
1978	98	269	08:01:38.000	117GH105A106A4AD	7STRP	-0.00038,0.00082	Slew =12.01	4R3	4	0	4,666,950	28:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1979	98	269	08:01:47.333	117GH105A106A4AE	7STRP	0.023004,0.0,0,0	Slew =,0.37	4R3	4	0	4,666,950	42:0
1980	98	269	08:02:52.666	117GH105A106A4AF	7STRP	-0.00038,0.00082	Slew =12.01	4R3	4	0	4,666,951	49:0
1981	98	269	08:03:02.000	117GH105A106A4AG	7STRP	0.023004,0.0,0,0	Slew =,0.37	4R3	4	0	4,666,951	63:0
1982	98	269	08:04:07.333	117GH105A106A4AH	7STRP	-0.00038,0.00082	Slew =12.01	4R3	4	0	4,666,952	70:0
1983	98	269	08:04:16.666	117GH105A106A4AI	7STRP	0.023004,0.0,0,0	Slew =,0.37	4R3	4	0	4,666,952	84:0
1984	98	269	08:05:22.000	117GH105A106A4AJ	7STRP	-0.00038,0.00082	Slew =12.01	4R3	4	0	4,666,954	00:0
1985	98	269	08:05:31.333	117GH105A106A4AK	7STRP	0.023004,0.0,0,0	Slew =,0.37	4R3	4	0	4,666,954	14:0
1986	98	269	08:06:36.666	117GH105A106A4AL	7STRP	-0.00038,0.00082	Slew =12.01	4R3	4	0	4,666,955	21:0
1987	98	269	08:06:46.000	117GH105A106A4AM	7STRP	0.023004,0.0,0,0	Slew =,0.37	4R3	4	0	4,666,955	35:0
1988	98	269	08:07:43.333	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	4,666,956	30:0
1989	98	269	08:07:43.333		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 389.29 +/-	4R3	4	0	4,666,956	30:0
1990	98	269	08:07:50.000		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 389.29 +/-	4R3	4	0	4,666,956	40:0
1991	98	269	08:07:51.333	117GH105A106A4AN	7STRP	-0.00038,0.00082	Slew =12.01	4R3	4	0	4,666,956	42:0
1992	98	269	08:07:51.400		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC * 389.41 +/-	4R3	4	0	4,666,956	42:1
1993	98	269	08:08:00.666	117GH105A106A4AO	7STRP	0.023004,0.0,0,0	Slew =,0.37	4R3	4	0	4,666,956	56:0
1994	98	269	08:08:08.666		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC * 393.45 +/-	4R3	4	0	4,666,956	68:0
1995	98	269	08:08:31.333		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC * 398.77 +/-	4R3	4	0	4,666,957	11:0
1996	98	269	08:08:31.333	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,666,957	11:0
1997	98	269	08:08:32.533		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 398.83 +/-	4R3	4	0	4,666,957	12:8
1998	98	269	08:09:06.000	117GH105A106A4AP	7STRP	-0.00038,0.00082	Slew =12.01	4R3	4	0	4,666,957	63:0
1999	98	269	08:09:15.333	117GH105A106A4AQ	7STRP	0.023004,0.0,0,0	Slew =,0.37	4R3	4	0	4,666,957	77:0
2000	98	269	08:10:20.666	117GH105A106A4AR	7STRP	-0.00038,0.00082	Slew =12.01	4R3	4	0	4,666,958	84:0
2001	98	269	08:10:30.000	117GH105A106A4AS	7STRP	0.023004,0.0,0,0	Slew =,0.37	4R3	4	0	4,666,959	07:0
2002	98	269	08:11:35.333	117GH105A106A4AT	7STRP	-0.00038,0.00082	Slew =12.01	4R3	4	0	4,666,960	14:0
2003	98	269	08:11:44.666	117GH105A106A4AU	7STRP	0.023004,0.0,0,0	Slew =,0.37	4R3	4	0	4,666,960	28:0
2004	98	269	08:12:50.000	117GH105A106A4AV	7STRP	-0.00038,0.00082	Slew =12.01	4R3	4	0	4,666,961	35:0
2005	98	269	08:12:59.333	117GH105A106A4AW	7STRP	0.023004,0.0,0,0	Slew =,0.37	4R3	4	0	4,666,961	49:0
2006	98	269	08:14:04.666	117GH105A106A4AX	7STRP	-0.00038,0.00082	Slew =12.01	4R3	4	0	4,666,962	56:0
2007	98	269	08:14:14.000	117GH105A106A4AY	7STRP	0.023004,0.0,0,0	Slew =,0.37	4R3	4	0	4,666,962	70:0
2008	98	269	08:15:19.333	117GH105A106A4AZ	7STRP	-0.00038,0.00082	Slew =12.01	4R3	4	0	4,666,963	77:0
2009	98	269	08:15:28.666	117GH105A106A4BA	7STRP	0.023004,0.0,0,0	Slew =,0.37	4R3	4	0	4,666,964	00:0
2010	98	269	08:16:34.000	117GH105A106A4BB	7STRP	-0.00038,0.00082	Slew =12.01	4R3	4	0	4,666,965	07:0
2011	98	269	08:16:43.333	117GH105A106A4BC	7STRP	0.023004,0.0,0,0	Slew =,0.37	4R3	4	0	4,666,965	21:0
2012	98	269	08:17:30.666	488AE6D	6TMSED	FILL,EL5	Sci, Eng, and D/L Chan	4R3	4	0	4,666,966	01:0
2013	98	269	08:17:48.666	117GH105A106A4BD	7STRP	-0.00038,0.00082	Slew =12.01	4R3	4	0	4,666,966	28:0
2014	98	269	08:17:58.000	117GH105A106A4BE	7STRP	0.023004,0.0,0,0	Slew =,0.37	4R3	4	0	4,666,966	42:0
2015	98	269	08:19:03.333	117GH105A106A4BF	7STRP	-0.00038,0.00082	Slew =12.01	4R3	4	0	4,666,967	49:0
2016	98	269	08:19:12.666	117GH105A106A4BG	7STRP	0.023004,0.0,0,0	Slew =,0.37	4R3	4	0	4,666,967	63:0
2017	98	269	08:20:18.000	117GH105A106A4BH	7STRP	-0.00038,0.00082	Slew =12.01	4R3	4	0	4,666,968	70:0
2018	98	269	08:20:27.333	117GH105A106A4BI	7STRP	0.023004,0.0,0,0	Slew =,0.37	4R3	4	0	4,666,968	84:0
2019	98	269	08:20:45.333	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	4,666,969	20:0
2020	98	269	08:20:45.333		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 398.83 +/-	4R3	4	0	4,666,969	20:0
2021	98	269	08:20:52.000		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 398.83 +/-	4R3	4	0	4,666,969	30:0
2022	98	269	08:20:53.400		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC * 398.95 +/-	4R3	4	0	4,666,969	32:1
2023	98	269	08:21:10.666		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC * 402.99 +/-	4R3	4	0	4,666,969	58:0
2024	98	269	08:21:32.666	117GH105A106A4BJ	7STRP	-0.00038,0.00082	Slew =12.01	4R3	4	0	4,666,970	00:0
2025	98	269	08:21:33.333		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC * 408.31 +/-	4R3	4	0	4,666,970	01:0
2026	98	269	08:21:33.333	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,666,970	01:0
2027	98	269	08:21:34.533		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 408.37 +/-	4R3	4	0	4,666,970	02:8
2028	98	269	08:21:42.000	117GH105A106A4BK	7STRP	0.023004,0.0,0,0	Slew =,0.37	4R3	4	0	4,666,970	14:0
2029	98	269	08:22:47.333	117GH105A106A4BL	7STRP	-0.00038,0.00082	Slew =12.01	4R3	4	0	4,666,971	21:0
2030	98	269	08:22:56.666	117GH105A106A4BM	7STRP	0.023004,0.0,0,0	Slew =,0.37	4R3	4	0	4,666,971	35:0
2031	98	269	08:24:02.000	117GH105A106A4BN	7STRP	-0.00038,0.00082	Slew =12.01	4R3	4	0	4,666,972	42:0
2032	98	269	08:24:11.333	117GH105A106A4BO	7STRP	0.023004,0.0,0,0	Slew =,0.37	4R3	4	0	4,666,972	56:0
2033	98	269	08:25:16.666	117GH105A106A4BP	7STRP	-0.00038,0.00082	Slew =12.01	4R3	4	0	4,666,973	63:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2034	98	269	08:25:26.000	117GH105A106A4BQ	7STRP	0.023004,0.0,0,0	Slew =,0.37	4R3	4	0	4,666,973	77:0
2035	98	269	08:26:31.333	117GH105A106A4BR	7STRP	-0.00038,0.00082	Slew =12.01	4R3	4	0	4,666,974	84:0
2036	98	269	08:26:40.666	117GH105A106A4BS	7STRP	0.023004,0.0,0,0	Slew =,0.37	4R3	4	0	4,666,975	07:0
2037	98	269	08:27:46.000	117GH105A106A4BT	7STRP	-0.00038,0.00082	Slew =12.01	4R3	4	0	4,666,976	14:0
2038	98	269	08:27:55.333	117GH105A106A4BU	7STRP	0.023004,0.0,0,0	Slew =,0.37	4R3	4	0	4,666,976	28:0
2039	98	269	08:29:00.666	117GH105A106A4BV	7STRP	-0.00038,0.00082	Slew =12.01	4R3	4	0	4,666,977	35:0
2040	98	269	08:29:10.000	117GH105A106A4BW	7STRP	0.023004,0.0,0,0	Slew =,0.37	4R3	4	0	4,666,977	49:0
2041	98	269	08:30:15.333	117GH105A106A4BX	7STRP	-0.00038,0.00082	Slew =12.01	4R3	4	0	4,666,978	56:0
2042	98	269	08:30:24.666	117GH105A106A4BY	7STRP	0.023004,0.0,0,0	Slew =,0.37	4R3	4	0	4,666,978	70:0
2043	98	269	08:31:30.000	117GH105A106A4BZ	7STRP	-0.00038,0.00082	Slew =12.01	4R3	4	0	4,666,979	77:0
2044	98	269	08:31:39.333	117GH105A106A4CA	7STRP	0.023004,0.0,0,0	Slew =,0.37	4R3	4	0	4,666,980	00:0
2045	98	269	08:32:44.666	117GH105A106A4CB	7STRP	-0.00038,0.00082	Slew =12.01	4R3	4	0	4,666,981	07:0
2046	98	269	08:32:54.000	117GH105A106A4CC	7STRP	0.023004,0.0,0,0	Slew =,0.37	4R3	4	0	4,666,981	21:0
2047	98	269	08:33:48.000		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 408.37 +/-	4R3	4	0	4,666,982	11:0
2048	98	269	08:33:48.000	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	4,666,982	11:0
2049	98	269	08:33:54.666		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 408.37 +/-	4R3	4	0	4,666,982	21:0
2050	98	269	08:33:56.066		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC * 408.49 +/-	4R3	4	0	4,666,982	23:1
2051	98	269	08:33:59.333	117GH105A106A4CD	7STRP	-0.00038,0.00082	Slew =12.01	4R3	4	0	4,666,982	28:0
2052	98	269	08:34:08.666	117GH105A106A4CE	7STRP	0.023004,0.0,0,0	Slew =,0.37	4R3	4	0	4,666,982	42:0
2053	98	269	08:34:12.666		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC * 412.38 +/-	4R3	4	0	4,666,982	48:0
2054	98	269	08:34:35.333		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC * 417.69 +/-	4R3	4	0	4,666,982	82:0
2055	98	269	08:34:35.333	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,666,982	82:0
2056	98	269	08:34:36.533		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 417.75 +/-	4R3	4	0	4,666,982	83:8
2057	98	269	08:35:14.000	117GH105A106A4CF	7STRP	-0.00038,0.00082	Slew =12.01	4R3	4	0	4,666,983	49:0
2058	98	269	08:35:23.333	117GH105A106A4CG	7STRP	0.023004,0.0,0,0	Slew =,0.37	4R3	4	0	4,666,983	63:0
2059	98	269	08:36:28.666	117GH105A106A4CH	7STRP	-0.00038,0.00082	Slew =12.01	4R3	4	0	4,666,984	70:0
2060	98	269	08:36:38.000	117GH105A106A4CI	7STRP	0.023004,0.0,0,0	Slew =,0.37	4R3	4	0	4,666,984	84:0
2061	98	269	08:37:43.333	117GH105A106A4CJ	7STRP	-0.00038,0.00082	Slew =12.01	4R3	4	0	4,666,986	00:0
2062	98	269	08:37:52.666	117GH105A106A4CK	7STRP	0.023004,0.0,0,0	Slew =,0.37	4R3	4	0	4,666,986	14:0
2063	98	269	08:38:58.000	117GH105A106A4CL	7STRP	-0.00038,0.00082	Slew =12.01	4R3	4	0	4,666,987	21:0
2064	98	269	08:39:07.333	117GH105A106A4CM	7STRP	0.023004,0.0,0,0	Slew =,0.37	4R3	4	0	4,666,987	35:0
2065	98	269	08:40:12.666	117GH105A106A4CN	7STRP	-0.00038,0.00082	Slew =12.01	4R3	4	0	4,666,988	42:0
2066	98	269	08:40:22.000	117GH105A106A4CO	7STRP	0.023004,0.0,0,0	Slew =,0.37	4R3	4	0	4,666,988	56:0
2067	98	269	08:41:27.333	117GH105A106A4CP	7STRP	-0.00038,0.00082	Slew =12.01	4R3	4	0	4,666,989	63:0
2068	98	269	08:41:36.666	117GH105A106A4CQ	7STRP	0.023004,0.0,0,0	Slew =,0.37	4R3	4	0	4,666,989	77:0
2069	98	269	08:42:42.000	117GH105A106A4CR	7STRP	-0.00038,0.00082	Slew =12.01	4R3	4	0	4,666,990	84:0
2070	98	269	08:42:51.333	117GH105A106A4CS	7STRP	0.023004,0.0,0,0	Slew =,0.37	4R3	4	0	4,666,991	07:0
2071	98	269	08:43:56.666	117GH105A106A4CT	7STRP	-0.00038,0.00082	Slew =12.01	4R3	4	0	4,666,992	14:0
2072	98	269	08:44:06.000	117GH105A106A4CU	7STRP	0.023004,0.0,0,0	Slew =,0.37	4R3	4	0	4,666,992	28:0
2073	98	269	08:45:11.333	117GH105A106A4CV	7STRP	-0.00038,0.00082	Slew =12.01	4R3	4	0	4,666,993	35:0
2074	98	269	08:45:20.666	117GH105A106A4CW	7STRP	0.023004,0.0,0,0	Slew =,0.37	4R3	4	0	4,666,993	49:0
2075	98	269	08:46:26.000	117GH105A106A4CX	7STRP	-0.00038,0.00082	Slew =12.01	4R3	4	0	4,666,994	56:0
2076	98	269	08:46:35.333	117GH105A106A4CY	7STRP	0.023004,0.0,0,0	Slew =,0.37	4R3	4	0	4,666,994	70:0
2077	98	269	08:46:50.000	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	4,666,995	01:0
2078	98	269	08:46:50.000		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 417.75 +/-	4R3	4	0	4,666,995	01:0
2079	98	269	08:46:56.666		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 417.75 +/-	4R3	4	0	4,666,995	11:0
2080	98	269	08:46:58.066		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC * 417.87 +/-	4R3	4	0	4,666,995	13:1
2081	98	269	08:47:15.333		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC * 421.92 +/-	4R3	4	0	4,666,995	39:0
2082	98	269	08:47:38.000	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,666,995	73:0
2083	98	269	08:47:38.000		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC * 427.23 +/-	4R3	4	0	4,666,995	73:0
2084	98	269	08:47:39.200		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 427.29 +/-	4R3	4	0	4,666,995	74:8
2085	98	269	08:47:40.666	117GH105A106A4CZ	7STRP	-0.00038,0.00082	Slew =12.01	4R3	4	0	4,666,995	77:0
2086	98	269	08:47:50.000	117GH105A106A4DA	7STRP	0.023004,0.0,0,0	Slew =,0.37	4R3	4	0	4,666,996	00:0
2087	98	269	08:48:55.333	117GH105A106A4DB	7STRP	-0.00038,0.00082	Slew =12.01	4R3	4	0	4,666,997	07:0
2088	98	269	08:49:04.666	117GH105A106A4DC	7STRP	0.023004,0.0,0,0	Slew =,0.37	4R3	4	0	4,666,997	21:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2089	98	269	08:50:10.000	117GH105A106A4DD	7STRP	-0.00038,0.00082	Slew =12.01	4R3	4	0	4,666,998:28:0	
2090	98	269	08:50:19.333	117GH105A106A4DE	7STRP	0.023004,0.0,0,0	Slew =,0.37	4R3	4	0	4,666,998:42:0	
2091	98	269	08:51:24.666	117GH105A106A4DF	7STRP	-0.00038,0.00082	Slew =12.01	4R3	4	0	4,666,999:49:0	
2092	98	269	08:51:34.000	117GH105A106A4DG	7STRP	0.023004,0.0,0,0	Slew =,0.37	4R3	4	0	4,666,999:63:0	
2093	98	269	08:51:36.666	488AE6E	6TMSED	NORM,EL5	Sci, Eng, and D/L Chan	4R3	4	0	4,666,999:67:0	
2094	98	269	08:52:39.333	117GH105A106A4DH	7STRP	-0.00038,0.00082	Slew =12.01	4R3	4	0	4,667,000:70:0	
2095	98	269	08:52:48.666	117GH105A106A4DI	7STRP	0.023004,0.0,0,0	Slew =,0.37	4R3	4	0	4,667,000:84:0	
2096	98	269	08:53:54.000	117GH105A106A4DJ	7STRP	-0.00038,0.00082	Slew =12.01	4R3	4	0	4,667,002:00:0	
2097	98	269	08:54:03.333	117GH105A106A4DK	7STRP	0.023004,0.0,0,0	Slew =,0.37	4R3	4	0	4,667,002:14:0	
2098	**98**	**269**	**08:54:28.179**	**17NNGLOBAL02-**		**-----START------**		**4R3**	**4**	**0**	**: :**	
2099	98	269	08:55:08.666	117GH105A106A4DL	7STRP	-0.00038,0.00082	Slew =12.01	4R3	4	0	4,667,003:21:0	
2100	98	269	08:55:18.000	117GH105A106A4DM	7STRP	0.023004,0.0,0,0	Slew =,0.37	4R3	4	0	4,667,003:35:0	
2101	98	269	08:56:23.333	117GH11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	4,667,004:42:0	
2102	98	269	08:56:56.000	176GI6B	6TMREC	**NRC**	NO RECORD Record Mode Change	4R3	4	0	4,667,005:00:0	
2103	98	269	08:56:58.000		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 427.29 +/-	4R3	4	0	4,667,005:03:0	
2104	98	269	08:56:58.000	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	4,667,005:03:0	
2105	98	269	08:57:04.666		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 427.29 +/-	4R3	4	0	4,667,005:13:0	
2106	98	269	08:57:06.066		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC * 427.41 +/-	4R3	4	0	4,667,005:15:1	
2107	98	269	08:57:08.000		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC * 427.86 +/-	4R3	4	0	4,667,005:18:0	
2108	98	269	08:57:26.666	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,667,005:46:0	
2109	98	269	08:57:26.666		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC * 432.24 +/-	4R3	4	0	4,667,005:46:0	
2110	98	269	08:57:27.866		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 432.30 +/-	4R3	4	0	4,667,005:47:8	
2111	98	269	08:57:56.666	192GJ4A	**7CONE**	**17.4,0.0**	Check S/P Position	4R3	4	0	4,667,006:00:0	
2112	98	269	09:00:58.666	176GL6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	4R3	4	0	4,667,009:00:0	
2113	98	269	09:03:13.333	176GL6B	6TMREC	**NRC**	NO RECORD Record Mode Change	4R3	4	0	4,667,011:20:0	
2114	98	269	09:03:15.333		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 432.30 +/-	4R3	4	0	4,667,011:23:0	
2115	98	269	09:03:15.333	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	4,667,011:23:0	
2116	98	269	09:03:22.000		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 432.30 +/-	4R3	4	0	4,667,011:33:0	
2117	98	269	09:03:23.400		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC * 432.42 +/-	4R3	4	0	4,667,011:35:1	
2118	98	269	09:03:25.333		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC * 432.87 +/-	4R3	4	0	4,667,011:38:0	
2119	98	269	09:03:36.666	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,667,011:55:0	
2120	98	269	09:03:36.666		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC * 435.53 +/-	4R3	4	0	4,667,011:55:0	
2121	98	269	09:03:37.866		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 435.59 +/-	4R3	4	0	4,667,011:56:8	
2122	**98**	**269**	**09:04:34.846**	**17ENGLOBAL02-**		**-----START------**		**4R3**	**4**	**0**	**: :**	
2123	**98**	**269**	**09:04:34.846**	**17NNGLOBAL02-**		**-----STOP-------**		**4R3**	**4**	**0**	**: :**	
2124	**98**	**269**	**09:07:48.666**	**20DI5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**4R3**	**4**	**0**	**4,667,015:69:0**	
2125	**98**	**269**	**09:07:56.000**	**20DI5B**	**37MRL**		**Memory Realocate (software operates from R**	**4R3**	**4**	**0**	**4,667,015:80:0**	
2126	98	269	09:08:02.666	165DI4A	7SCAN	NORM,94.183999,2	Check S/P Position	4R3	4	0	4,667,015:90:0	
2127	**98**	**269**	**09:08:04.000**	**20DI6A**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**4R3**	**4**	**0**	**4,667,016:01:0**	
2128	**98**	**269**	**09:08:14.000**	**20DI6B**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**4R3**	**4**	**0**	**4,667,016:16:0**	
2129	**98**	**269**	**09:08:24.000**	**20DI5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**4,667,016:31:0**	
2130	**98**	**269**	**09:08:25.333**	**20DI5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**4,667,016:33:0**	
2131	**98**	**269**	**09:08:56.666**	**20DI4A**	**37IST**	**1,2,0,OFF,0,1,1**	**Chopper ON, Sync, Chopper (Ref)Gain State**	**4R0**	**4**	**0**	**4,667,016:80:0**	
2132	98	269	09:11:52.666	175DI422A6A	6DMSC	R28,1	DMS Control	4R0	4	0	4,667,019:71:0	
2133	98	269	09:11:52.666		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 435.59 +/-	4R0	4	0	4,667,019:71:0	
2134	98	269	09:11:56.666	117DI	**CSMOS**	GS	***** GROUP START CSMOS	4R0	4	0	4,667,019:77:0	
2135	98	269	09:11:59.333		DMS:	: *RUNUP	R28, TRACK 1, FWD, TIC 435.59 +/-	4R0	4	0	4,667,019:81:0	
2136	98	269	09:12:01.333	127DI	NIMSTAB	GS	%%%%% GROUP START TAB	4R0	4	0	4,667,019:84:0	
2137	**98**	**269**	**09:12:01.333**	**127DI4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**4R3**	**4**	**0**	**4,667,019:84:0**	
2138	**98**	**269**	**09:12:02.000**	**127DI4B**	**37ETB**	**04,C4,35,FF,FF**	**Loads wavelength edit table**	**4R3**	**4**	**0**	**4,667,019:85:0**	
2139	98	269	09:12:02.666	175DI176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	4R3	4	0	4,667,019:86:0	
2140	98	269	09:12:03.333		DMS:	**: *RECORD**	R28, TRACK 1, FWD, TIC * 437.09 +/-	4R3	4	0	4,667,019:87:0	
2141	98	269	09:12:03.333		DMS:	: *AT_SPD	R28, TRACK 1, FWD, TIC 437.09 +/-	4R3	4	0	4,667,019:87:0	
2142	98	269	09:12:04.666	165DI4B	7VECT		Inert vect update UTC	4R3	4	0	4,667,019:89:0	
2143	**98**	**269**	**09:12:06.000**	**17ENGLOBAL02-**	**NIMPBK**	**301DI**	**EUROPA GLOBAL MAPPING**	**4R3**	**4**	**0**	**: :**	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
2144	98	269	09:12:06.000	117DI105A106A4A	**7STRP**	**-0.012901,0.0,0,**	**Slew =,0.03**	4R3	4	0	4,667,020:00:0
2145	98	269	09:12:10.000	127DI11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	4,667,020:06:0
2146	**98**	**269**	**09:19:06.000**	**125EI4A**	**37IST**	**0,2,0,OFF,0,1,2**	**Gain State 3**	**3R3**	**4**	**0**	**4,667,026:84:0**
2147	98	269	09:19:06.000	125EI11A	NIMSINIT	GE	##### GROUP END INIT	3R3	4	0	4,667,026:84:0
2148	98	269	09:19:06.000	125EI	NIMSINIT	GS	##### GROUP START INIT	3R3	4	0	4,667,026:84:0
2149	98	269	09:19:17.333	117DI105A106A4B	**7STRP**	**0.012801,0.007,0**	**Slew =12.01**	3R3	4	0	4,667,027:10:0
2150	**98**	**269**	**09:19:17.333**	**17ENGLOBAL02-**	**DESELC**	**300DI**	**EUROPA GLOBAL MAPPING**	**3R3**	**4**	**0**	**: :**
2151	**98**	**269**	**09:19:18.666**	**17ENGLOBAL02-**	**NIMPBK**	**301EI**	**EUROPA GLOBAL MAPPING**	**3R3**	**4**	**0**	**: :**
2152	98	269	09:19:24.000	117DI105A106A4C	**7STRP**	**-0.012901,0.0,0,**	**Slew =,0.03**	3R3	4	0	4,667,027:20:0
2153	**98**	**269**	**09:26:32.000**	**17ENGLOBAL02-**	**NIMPBK**	**301EJ**	**EUROPA GLOBAL MAPPING**	**3R3**	**4**	**0**	**: :**
2154	98	269	09:26:35.333	117DI105A106A4D	**7STRP**	**0.012801,0.007,0**	**Slew =12.01**	3R3	4	0	4,667,034:30:0
2155	**98**	**269**	**09:26:35.333**	**17ENGLOBAL02-**	**DESELC**	**300EI**	**EUROPA GLOBAL MAPPING**	**3R3**	**4**	**0**	**: :**
2156	98	269	09:26:42.000	117DI105A106A4E	**7STRP**	**-0.012901,0.0,0,**	**Slew =,0.03**	3R3	4	0	4,667,034:40:0
2157	98	269	09:33:53.333	117DI105A106A4F	**7STRP**	**0.012801,0.007,0**	**Slew =12.01**	3R3	4	0	4,667,041:50:0
2158	98	269	09:34:00.000	117DI105A106A4G	**7STRP**	**-0.012901,0.0,0,**	**Slew =,0.03**	3R3	4	0	4,667,041:60:0
2159	98	269	09:34:16.000	125FI	NIMSINIT	GS	##### GROUP START INIT	3R3	4	0	4,667,041:84:0
2160	98	269	09:34:16.000	125FI11A	NIMSINIT	GE	##### GROUP END INIT	3R3	4	0	4,667,041:84:0
2161	**98**	**269**	**09:34:16.000**	**125FI4A**	**37IST**	**0,2,0,OFF,0,1,1**	**Gain State 4**	**4R3**	**4**	**0**	**4,667,041:84:0**
2162	**98**	**269**	**09:34:54.846**	**17ENGLOBAL02-**		**-----STOP-------**		**4R3**	**4**	**0**	**: :**
2163	98	269	09:41:11.333	117DI11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	4,667,048:70:0
2164	**98**	**269**	**09:41:11.333**	**17ENGLOBAL02-**	**DESELC**	**300EJ**	**EUROPA GLOBAL MAPPING**	**4R3**	**4**	**0**	**: :**
2165	98	269	09:42:03.333		DMS:	**: *RUNDOWN**	R28, TRACK 1, FWD, TIC *2019.12 +/-	4R3	4	0	4,667,049:57:0
2166	98	269	09:42:03.333	175DI422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,667,049:57:0
2167	98	269	09:42:04.533		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *2019.42 +/-	4R3	4	0	4,667,049:58:8
2168	98	269	09:45:35.333	41AB99A	**POWER**	**PWR MODE change**	Change to Maneuver/Playback Mode	4R3	4	0	4,667,053:11:0
2169	**98**	**269**	**09:47:29.333**	**41AB3G**	**40T1P**	**1**	**PCT Heater 1 ON (primary relay)**	**4R3**	**4**	**0**	**4,667,055:00:0**
2170	**98**	**269**	**09:47:39.333**	**41AB3H**	**40T1P**	**2**	**PCT Heater 1 ON (primary relay)**	**4R3**	**4**	**0**	**4,667,055:15:0**
2171	**98**	**269**	**09:47:49.333**	**41AB3I**	**40T2**	**1**	**PCT Heater 2 ON**	**4R3**	**4**	**0**	**4,667,055:30:0**
2172	**98**	**269**	**09:47:59.333**	**41AB3J**	**40T2**	**2**	**PCT Heater 2 ON**	**4R3**	**4**	**0**	**4,667,055:45:0**
2173	98	269	09:51:36.000	20UO4A	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	4R3	4	0	4,667,059:06:0
2174	98	269	09:55:36.000	20WA4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	4R3	4	0	4,667,063:02:0
2175	98	269	09:56:26.000	20WA4B	7SLEW	DIS,POS,0.0	Stator movement	4R3	4	0	4,667,063:77:0
2176	98	269	09:56:35.333	176SA6A	6TMREC	IPB	INITIATE PLAYBACK (PB CONTROL) Record Mod	4R3	4	0	4,667,064:00:0
2177	98	269	10:30:00.000	488AF6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4R3	4	0	4,667,097:04:0
2178	**98**	**269**	**10:35:34.846**	**17NNCHOPOF01-**		**-----START------**		**4R3**	**4**	**0**	**: :**
2179	**98**	**269**	**10:43:01.333**	**127DN4A**	**37IOP**	**0,0**	**Safe, Grating Start Position =00**	**4R0**	**4**	**0**	**4,667,109:84:0**
2180	98	269	10:43:01.333	127DN	NIMSTAB	GS	%%%%% GROUP START TAB	4R0	4	0	4,667,109:84:0
2181	**98**	**269**	**10:43:02.000**	**127DN4B**	**37ETB**	**04,C4,02,00,00**	**Loads wavelength edit table**	**4R0**	**4**	**0**	**4,667,109:85:0**
2182	98	269	10:43:10.000	127DN11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R0	4	0	4,667,110:06:0
2183	**98**	**269**	**10:45:41.513**	**17NNCHOPOF01-**		**-----STOP-------**		**4R0**	**4**	**0**	**: :**
2184	98	269	10:47:04.000	125DN	NIMSINIT	GS	##### GROUP START INIT	4R0	4	0	4,667,113:84:0
2185	**98**	**269**	**10:47:04.000**	**125DN4A**	**37IST**	**1,0,0,OFF,0,0,0**	**Chopper ON, Sync, 63Hz (Ref)**	**460**	**4**	**0**	**4,667,113:84:0**
2186	**98**	**269**	**10:48:04.666**	**125DN4B**	**37IST**	**1,1,0,OFF,0,0,0**	**Chopper OFF, N/A, 63Hz (Ref)**	**4O0**	**4**	**0**	**4,667,114:84:0**
2187	98	269	10:49:05.333	125DN11A	NIMSINIT	GE	##### GROUP END INIT	4O0	4	0	4,667,115:84:0
2188	**98**	**269**	**10:49:05.333**	**125DN4C**	**37MB**	**0,0,0,0,0,0**	**Selects mirror (spatial) edit table**	**4O0**	**4**	**0**	**4,667,115:84:0**
2189	98	269	11:47:27.333	488AF6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,667,173:59:0
2190	98	269	14:21:30.000	176SC6A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	4O0	4	0	4,667,326:00:0
2191	98	269	14:35:39.333	176SD6A	6TMREC	RPB	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	4,667,340:00:0
2192	98	269	14:55:11.333	488AF6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,667,359:29:0
2193	98	269	15:00:00.000	488AF6D	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	4O0	4	0	4,667,364:07:0
2194	98	269	15:08:00.666	176SH6A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	4O0	4	0	4,667,372:00:0
2195	98	269	15:39:00.000	20SQ4I	**7MODE**	**INT**	AACS INERTIAL MODE	4O0	4	0	4,667,402:59:0
2196	98	269	15:54:00.000	20SQ4K	7SLEW	INIT,POS,17.45	Stator movement	4O0	4	0	4,667,417:44:0
2197	98	269	16:06:00.000	20SQ4L	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,667,429:32:0
2198	98	269	16:13:00.000	20SQ4M	7SLEW	INIT,NEG,17.45	Stator movement	4O0	4	0	4,667,436:25:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2199	98	269	16:25:00.000	20SQ4N	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,667,448:13:0	
2200	98	269	16:37:00.000	20SQ4AH	**7MODE**	**CRU**	AACS CRUISE MODE	4O0	4	0	4,667,460:01:0	
2201	98	269	16:53:04.000	20ST4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	4O0	4	0	4,667,475:82:0	
2202	98	269	16:53:54.000	20ST4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,667,476:66:0	
2203	98	269	16:54:10.666	176SJ6A	6TMREC	RPB	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	4,667,477:00:0	
2204	98	269	17:45:51.333	488AG6A	6TMSED	NORM,AH4	Sci, Eng, and D/L Chan	4O0	4	0	4,667,528:10:0	
2205	98	269	18:05:00.000	488AG6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,667,547:04:0	
2206	98	269	18:32:47.333	488AG6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,667,574:48:0	
2207	98	269	18:57:32.666	488AG6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,667,599:01:0	
2208	98	269	19:41:38.666	488AG6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,667,642:57:0	
2209	98	269	22:12:31.333	488AH6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,667,791:77:0	
2210	98	269	23:11:27.333	20MC6A	6CKSUM	MAG,4040,46F0		4O0	4	0	4,667,850:12:0	
2211	98	269	23:12:24.000	480MB6	6MROH		12 read from LLM1A12,2282,0,A2	4O0	4	0	4,667,851:06:0	
2212	98	269	23:12:24.000	480MB6A	6MROH	12,2282,0,A2	read from LLM1A12,2282,0,A2	4O0	4	0	4,667,851:06:0	
2213	98	270	00:35:27.333	488AH6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,667,933:19:0	
2214	98	270	01:58:39.333	488AH6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,668,015:45:0	
2215	98	270	01:59:08.666	432JB6B	6RTDS2	NIMNCG,AACDSL,RT	AACS DESELECT	4O0	4	0	4,668,015:89:0	
2216	98	270	02:28:56.666	488AH6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,668,045:41:0	
2217	98	270	02:55:46.000	488AH6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,668,071:89:0	
2218	98	270	07:32:30.000	488AI6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,668,345:61:0	
2219	98	270	07:35:43.333	488AI6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,668,348:78:0	
2220	98	270	07:40:25.333	488AI6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,668,353:46:0	
2221	98	270	08:27:24.666	431ZL6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	4O0	4	0	4,668,399:89:0	
2222	98	270	08:31:32.666	20ZM6A	6EUVON			4O0	4	0	4,668,404:06:0	
2223	98	270	08:32:29.333	431ZM6A	6RCSEL	DDSNCG,PLSNCG,EP	Record Select (DDS onl	4O0	4	0	4,668,405:00:0	
2224	98	270	08:33:19.333	488AI6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,668,405:75:0	
2225	98	270	08:33:57.333	488AI6E	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,668,406:41:0	
2226	98	270	08:34:30.666	176BA6A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	4O0	4	0	4,668,407:00:0	
2227	98	270	08:37:32.000	165BA4A	7SCAN	NORM,77.735,23.7	Check S/P Position	4O0	4	0	4,668,409:90:0	
2228	98	270	08:42:44.000	20UP4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	4O0	4	0	4,668,415:12:0	
2229	98	270	08:43:34.000	20UP4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,668,415:87:0	
2230	98	270	08:44:37.333	176BB6A	6TMREC	RPB	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	4,668,417:00:0	
2231	98	270	09:00:47.333	488AJ6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,668,432:90:0	
2232	98	270	17:01:03.266	488AK6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,668,907:89:0	
2233	98	270	17:50:07.266	488AK6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,668,956:46:0	
2234	98	270	18:07:11.266	488AK6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,668,973:35:0	
2235	98	270	18:52:36.600	488AK6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,669,018:28:0	
2236	98	270	19:31:42.600	488AK6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,669,056:89:0	
2237	98	270	19:32:31.266	488AL6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,669,057:71:0	
2238	98	270	23:02:29.933	488AL6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,669,265:41:0	
2239	98	270	23:05:51.266	488AL6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,669,268:70:0	
2240	98	271	01:01:19.933	431YL6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	4O0	4	0	4,669,382:89:0	
2241	98	271	01:04:29.933	20YC6A	6HICON			4O0	4	0	4,669,386:10:0	
2242	98	271	01:05:23.933	431YM6A	6RCSEL	DDSNCG,PLSNCG,EP	Record Select (DDS onl	4O0	4	0	4,669,387:00:0	
2243	98	271	01:07:25.266	176KA6A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	4O0	4	0	4,669,389:00:0	
2244	98	271	01:10:05.933	20KA4A	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	4O0	4	0	4,669,391:59:0	
2245	98	271	01:15:03.933	20UQ4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	4O0	4	0	4,669,396:51:0	
2246	98	271	01:15:53.933	20UQ4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,669,397:35:0	
2247	98	271	01:16:31.266	176SK6A	6TMREC	RPB	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	4,669,398:00:0	
2248	98	271	01:30:22.600	488AL6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,669,411:64:0	
2249	98	271	01:43:43.266	488AM6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,669,424:82:0	
2250	98	271	01:54:56.600	176SB6A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	4O0	4	0	4,669,436:00:0	
2251	98	271	01:59:59.933		DMS:	: READY	RDY, TRACK 1, FWD, TIC 2019.42 +/-	4O0	4	0	4,669,441:00:0	
2252	**98**	**271**	**02:00:00.000**	**20A3EX**	**37HR**	**Final Condition**	**Replacement Heaters OFF**	**4O0**	**4**	**0**	**4,669,441:00:1**	
2253	**98**	**271**	**02:00:00.000**	**20A3EY**	**37C1PR**	**Final Condition**	**Optics Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**4,669,441:00:1**	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2254	98	271	02:00:00.000	20A3EZ	37C2PR	Final Condition	Optics Heater 2 OFF (primary relay)	4O0	4	0	4,669,441	00:1
2255	98	271	02:00:00.000	20A3FA	37F1PR	Final Condition	Radiator Flash Heater OFF (primary relay)	4O0	4	0	4,669,441	00:1
2256	98	271	02:00:00.000	20A3FB	37F2PR	Final Condition	Shield Flash Heater OFF (primary relay)	4O0	4	0	4,669,441	00:1
2257	98	271	02:00:00.000	20A3FD	40HRPR	Final Condition	RCT Heater OFF (primary relay)	4O0	4	0	4,669,441	00:1
2258	98	271	02:00:00.000	20A3FE	40T1P	Final Condition	PCT Heater 1 ON (primary relay)	4O0	4	0	4,669,441	00:1
2259	98	271	02:00:00.000	20A3FF	40T2	Final Condition	PCT Heater 2 ON	4O0	4	0	4,669,441	00:1
2260	98	271	02:00:00.000	20A3EW	37A	Final Condition	NIMS Power ON	4O0	4	0	4,669,441	00:1

			Sequence:	E17B-AR		Created: 01/21/99	Begin: 98-271/02:00:00 Finish: 98-325/12:00:00				
Line	**YR**	**DOY**	**SCET - GMT**	**PSID**	**Command**	**Parameters**	**Description**	**GCM**	**GO**	**GS**	**RIM MF I**
1	98	271	01:59:59.933		DMS:	: READY	RDY, TRACK 1, FWD, TIC 2019.42 +/-	4O0			4,669,441:00:0
2	**98**	**271**	**02:00:00.000**	**20A3FA**	**37F1PR**	**Initial Condition**	**Radiator Flash Heater OFF (primary relay)**	**4O0**			**4,669,441:00:1**
3	**98**	**271**	**02:00:00.000**	**20A3FB**	**37F2PR**	**Initial Condition**	**Shield Flash Heater OFF (primary relay)**	**4O0**			**4,669,441:00:1**
4	**98**	**271**	**02:00:00.000**	**20A3FD**	**40HRPR**	**Initial Condition**	**RCT Heater OFF (primary relay)**	**4O0**			**4,669,441:00:1**
5	**98**	**271**	**02:00:00.000**	**20A3FE**	**40T1P**	**Initial Condition**	**PCT Heater 1 ON (primary relay)**	**4O0**			**4,669,441:00:1**
6	**98**	**271**	**02:00:00.000**	**20A3FF**	**40T2**	**Initial Condition**	**PCT Heater 2 ON**	**4O0**			**4,669,441:00:1**
7	**98**	**271**	**02:00:00.000**	**20A3EZ**	**37C2PR**	**Initial Condition**	**Optics Heater 2 OFF (primary relay)**	**4O0**			**4,669,441:00:1**
8	**98**	**271**	**02:00:00.000**	**20A3EY**	**37C1PR**	**Initial Condition**	**Optics Heater 1 OFF (primary relay)**	**4O0**			**4,669,441:00:1**
9	**98**	**271**	**02:00:00.000**	**20A3EX**	**37HR**	**Initial Condition**	**Replacement Heaters OFF**	**4O0**			**4,669,441:00:1**
10	**98**	**271**	**02:00:00.000**	**20A3EW**	**37A**	**Initial Condition**	**NIMS Power ON**	**4O0**	**4**	**0**	**4,669,441:00:1**
11	98	271	02:00:47.266	488AA6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,669,441:71:0
12	**98**	**271**	**02:00:59.266**	**432NA6B**	**6RTDS2**	**NIMDSL,AACDSL,RT**	**NIMS R/T DESELECTAACS DESELECT**	**4O0**	**4**	**0**	**4,669,441:89:0**
13	98	271	02:05:03.933	20WA4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	4O0	4	0	4,669,446:01:0
14	98	271	02:05:53.933	20WA4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,669,446:76:0
15	98	271	02:07:04.600	176SA6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	4,669,448:00:0
16	98	271	03:53:51.266	488AA6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,669,553:55:0
17	98	271	07:12:58.600	488AA6C	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,669,750:49:0
18	98	271	07:14:23.266	488AA6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,669,751:85:0
19	98	271	07:20:21.933	488AA6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,669,757:77:0
20	98	271	07:57:03.266	488AB6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,669,794:12:0
21	98	271	08:14:02.600	488AB6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,669,810:85:0
22	98	271	08:40:51.933	488AB6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,669,837:42:0
23	98	271	17:09:35.266	488AC6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,670,340:54:0
24	98	271	17:50:07.266	488AC6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,670,380:62:0
25	98	271	18:07:11.266	488AC6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,670,397:51:0
26	98	271	18:22:07.266	488AC6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,670,412:30:0
27	98	271	18:49:04.600	488AC6E	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,670,438:90:0
28	98	271	19:15:53.933	488AD6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,670,465:47:0
29	98	271	21:04:59.866	488AD6B	6TMSED	NORM,AH6	Sci, Eng, and D/L Chan	4O0	4	0	4,670,573:38:0
30	98	271	21:08:37.200	176SH6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	4O0	4	0	4,670,577:00:0
31	98	271	21:38:59.866	20SQ4I	**7MODE**	**INT**	AACS INERTIAL MODE	4O0	4	0	4,670,607:04:0
32	98	271	21:53:59.866	20SQ4K	7SLEW	INIT,POS,17.45	Stator movement	4O0	4	0	4,670,621:80:0
33	98	271	22:05:59.866	20SQ4L	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,670,633:68:0
34	98	271	22:12:59.866	20SQ4M	7SLEW	INIT,NEG,17.45	Stator movement	4O0	4	0	4,670,640:61:0
35	98	271	22:24:59.866	20SQ4N	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,670,652:49:0
36	98	271	22:36:59.866	20SQ4AH	**7MODE**	**CRU**	AACS CRUISE MODE	4O0	4	0	4,670,664:37:0
37	98	271	22:53:03.866	20ST4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	4O0	4	0	4,670,680:27:0
38	98	271	22:53:53.866	20ST4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,670,681:11:0
39	98	271	22:54:47.200	176SJ6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	4,670,682:00:0
40	98	271	23:12:59.866	488AD6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,670,700:01:0
41	98	271	23:59:59.866	481UB4A	7VECT		Inert vect update UTC	4O0	4	0	4,670,746:45:0
42	98	272	01:05:19.200	488AD6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,670,811:09:0
43	98	272	01:28:47.200	488AE6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,670,834:28:0
44	98	272	03:17:35.200	488AE6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,670,941:83:0
45	98	272	07:08:30.533	488AE6C	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,671,170:27:0
46	98	272	07:10:07.200	488AE6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,671,171:81:0
47	98	272	07:14:23.200	488AE6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,671,176:10:0
48	98	272	08:03:27.200	488AF6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,671,224:58:0
49	98	272	10:04:45.200	488AF6B	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,671,344:55:0
50	98	272	10:07:11.200	488AF6C	6TMSED	FILL,AL8	Sci, Eng, and D/L Chan	4O0	4	0	4,671,347:01:0
51	98	272	10:08:51.200	488AF6D	6TMSED	NORM,AL8	Sci, Eng, and D/L Chan	4O0	4	0	4,671,348:60:0
52	98	272	12:48:05.200	488AF6E	6TMSED	FILL,AL8	Sci, Eng, and D/L Chan	4O0	4	0	4,671,506:13:0
53	98	272	12:49:19.200	488AG6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,671,507:33:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
54	98	272	17:42:02.533	488AG6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,671,796:79:0	
55	98	272	17:52:15.200	488AG6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,671,806:88:0	
56	98	272	18:51:59.200	488AH6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,671,866:04:0	
57	98	272	18:59:08.533	488AH6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,671,873:11:0	
58	98	272	19:25:58.533	488AH6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,671,899:60:0	
59	98	273	00:58:55.200	488AI6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,672,228:86:0	
60	98	273	01:22:23.200	488AI6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,672,252:14:0	
61	98	273	02:19:09.866	488AI6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,672,308:28:0	
62	98	273	02:45:59.200	488AI6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,672,334:76:0	
63	98	273	03:02:39.200	488AI6E	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,672,351:29:0	
64	98	273	07:03:42.466	488AJ6A	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,672,589:66:0	
65	98	273	07:05:51.133	488AJ6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,672,591:77:0	
66	98	273	07:09:19.133	488AJ6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,672,595:25:0	
67	98	273	07:52:47.133	488AJ6D	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,672,638:24:0	
68	98	273	09:45:33.133	488AJ6E	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,672,749:72:0	
69	98	273	09:47:59.133	488AK6A	6TMSED	FILL,AL8	Sci, Eng, and D/L Chan	4O0	4	0	4,672,752:18:0	
70	98	273	09:49:39.133	488AK6B	6TMSED	NORM,AL8	Sci, Eng, and D/L Chan	4O0	4	0	4,672,753:77:0	
71	98	273	14:59:27.133	488AK6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,673,060:22:0	
72	98	273	16:54:39.133	488AL6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,673,174:16:0	
73	98	273	17:45:51.133	488AL6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,673,224:74:0	
74	98	273	17:48:18.466	488AL6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,673,227:22:0	
75	98	273	18:02:55.133	488AL6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,673,241:63:0	
76	98	274	01:00:09.800	488AM6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,673,654:32:0	
77	98	274	01:18:07.133	488AM6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,673,672:10:0	
78	98	274	02:51:59.133	488AM6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,673,764:86:0	
79	98	274	06:58:11.800	488AM6D	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,674,008:41:0	
80	98	274	06:59:27.133	488AM6E	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,674,009:63:0	
81	98	274	07:04:15.133	488AN6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,674,014:40:0	
82	98	274	07:48:31.133	488AN6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,674,058:20:0	
83	98	274	08:25:42.466	431MA6A	6RCSEL	DDSSEL,PLSNCG,EP	Record Select (DDS onl	4O0	4	0	4,674,095:00:0	
84	98	274	09:30:37.133	488AN6C	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,674,159:18:0	
85	98	274	09:33:03.133	488AN6D	6TMSED	FILL,AL8	Sci, Eng, and D/L Chan	4O0	4	0	4,674,161:55:0	
86	98	274	09:34:43.133	488AN6E	6TMSED	NORM,AL8	Sci, Eng, and D/L Chan	4O0	4	0	4,674,163:23:0	
87	98	274	15:05:51.066	488AO6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,674,490:68:0	
88	98	274	16:50:23.066	488AO6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,674,594:12:0	
89	98	274	17:35:11.066	488AO6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,674,638:40:0	
90	98	274	18:02:55.066	488AO6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,674,665:79:0	
91	98	274	21:17:03.066	488AP6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,674,857:79:0	
92	98	274	23:39:59.066	488AP6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,674,999:21:0	
93	98	275	00:54:39.066	488AP6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,675,073:07:0	
94	98	275	01:37:19.066	488AP6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,675,115:25:0	
95	98	275	02:14:18.400	488AP6E	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,675,151:78:0	
96	98	275	02:41:08.400	488AQ6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,675,178:36:0	
97	98	275	06:53:29.733	488AQ6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,675,427:89:0	
98	98	275	06:57:19.066	488AQ6C	6TMSED	FILL,AL8	Sci, Eng, and D/L Chan	4O0	4	0	4,675,431:69:0	
99	98	275	06:58:59.066	488AQ6D	6TMSED	NORM,AL8	Sci, Eng, and D/L Chan	4O0	4	0	4,675,433:37:0	
100	98	275	07:56:24.400	488AQ6E	6TMSED	FILL,AL8	Sci, Eng, and D/L Chan	4O0	4	0	4,675,490:18:0	
101	98	275	08:24:49.066	488AR6A	6TMSED	NORM,AL8	Sci, Eng, and D/L Chan	4O0	4	0	4,675,518:27:0	
102	98	275	10:45:35.066	488AR6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,675,657:47:0	
103	98	275	12:23:00.400	488AR6C	6TMSED	NORM,AH6	Sci, Eng, and D/L Chan	4O0	4	0	4,675,753:79:0	
104	98	275	12:27:11.066	176SB6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	4O0	4	0	4,675,758:00:0	
105	98	275	16:58:55.066	488AS6A	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	4O0	4	0	4,676,026:68:0	
106	98	275	17:28:47.066	488AS6B	6TMSED	NORM,AH4	Sci, Eng, and D/L Chan	4O0	4	0	4,676,056:26:0	
107	98	275	17:47:59.066	488AS6C	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	4O0	4	0	4,676,075:25:0	
108	98	275	18:31:00.400	488AS6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,676,117:75:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
109	98	275	18:31:11.066	176SC6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	4,676,118:00:0	
110	98	275	18:33:21.066	488AS6E	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,676,120:13:0	
111	98	275	18:37:03.066	488AT6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,676,123:73:0	
112	98	275	19:11:11.066	488AT6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,676,157:51:0	
113	98	276	00:50:23.000	488AU6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,676,493:03:0	
114	98	276	01:09:35.000	488AU6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,676,512:02:0	
115	98	276	02:09:22.333	488AU6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,676,571:14:0	
116	98	276	02:36:12.333	488AU6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,676,597:63:0	
117	98	276	02:43:27.000	488AU6E	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,676,604:78:0	
118	98	276	04:48:05.000	488AV6A	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,676,728:11:0	
119	98	276	04:49:19.000	488AV6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,676,729:31:0	
120	98	276	06:54:07.000	488AV6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,676,852:70:0	
121	98	276	07:37:51.000	488AV6D	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,676,896:02:0	
122	98	276	09:19:57.000	488AV6E	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,676,997:00:0	
123	98	276	09:22:23.000	488AW6A	6TMSED	FILL,AL8	Sci, Eng, and D/L Chan	4O0	4	0	4,676,999:37:0	
124	98	276	09:24:03.000	488AW6B	6TMSED	NORM,AL8	Sci, Eng, and D/L Chan	4O0	4	0	4,677,001:05:0	
125	98	276	14:59:27.000	488AW6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,677,332:70:0	
126	98	276	16:43:59.000	488AX6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,677,436:14:0	
127	98	276	17:28:47.000	488AX6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,677,480:42:0	
128	98	276	17:35:11.000	488AX6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,677,486:72:0	
129	98	276	17:36:01.666	488AX6D	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,677,487:57:0	
130	98	276	17:56:31.000	488AX6E	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,677,507:81:0	
131	98	277	07:31:26.933	488AY6A	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,678,313:79:0	
132	98	277	08:47:50.933	488AY6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,678,389:39:0	
133	98	277	09:15:40.933	488AY6C	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,678,416:87:0	
134	98	277	09:18:06.933	488AY6D	6TMSED	FILL,AL8	Sci, Eng, and D/L Chan	4O0	4	0	4,678,419:33:0	
135	98	277	09:19:46.933	488AY6E	6TMSED	NORM,AL8	Sci, Eng, and D/L Chan	4O0	4	0	4,678,421:01:0	
136	98	277	14:48:46.933	488AZ6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,678,746:36:0	
137	98	277	16:39:42.933	488AZ6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,678,856:10:0	
138	98	277	17:24:30.933	488AZ6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,678,900:38:0	
139	98	277	17:47:58.933	488AZ6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,678,923:57:0	
140	98	277	21:17:02.933	488BA6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,679,130:36:0	
141	98	277	23:14:22.933	488BA6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,679,246:40:0	
142	98	278	02:45:34.933	488BA6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,679,455:29:0	
143	98	278	03:05:46.266	488BA6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,679,475:26:0	
144	98	278	03:13:18.933	488BA6E	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,679,482:68:0	
145	98	278	06:48:58.266	488BB6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,679,696:03:0	
146	98	278	07:27:10.933	488BB6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,679,733:75:0	
147	98	278	09:19:56.933	488BB6C	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,679,845:32:0	
148	98	278	09:22:22.933	488BB6D	6TMSED	FILL,AL8	Sci, Eng, and D/L Chan	4O0	4	0	4,679,847:69:0	
149	98	278	09:24:02.933	488BB6E	6TMSED	NORM,AL8	Sci, Eng, and D/L Chan	4O0	4	0	4,679,849:37:0	
150	98	278	14:40:14.866	488BC6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,680,162:12:0	
151	**98**	**278**	**15:00:24.200**	**17NNPCTRLT01-**		**-----START------**		**4O0**	**4**	**0**	**: :**	
152	**98**	**278**	**15:00:28.200**	**41FB3A**	**40T1PR**		**1 PCT Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**4,680,182:12:0**	
153	**98**	**278**	**15:00:38.200**	**41FB3B**	**40T1PR**		**2 PCT Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**4,680,182:27:0**	
154	**98**	**278**	**15:00:48.200**	**41FB3C**	**40T2R**		**1 PCT Heater 2 OFF**	**4O0**	**4**	**0**	**4,680,182:42:0**	
155	**98**	**278**	**15:00:58.200**	**41FB3D**	**40T2R**		**2 PCT Heater 2 OFF**	**4O0**	**4**	**0**	**4,680,182:57:0**	
156	98	278	16:35:26.866	488BC6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,680,276:06:0	
157	98	278	17:20:14.866	488BC6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,680,320:34:0	
158	98	278	17:37:18.866	488BC6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,680,337:23:0	
159	98	278	18:26:22.866	488BC6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,680,385:71:0	
160	98	278	18:34:33.533	488BD6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,680,393:79:0	
161	98	278	19:01:23.533	488BD6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,680,420:37:0	
162	98	278	21:04:20.200	176FB6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	4O0	4	0	4,680,542:00:0	
163	98	278	21:07:28.866	444FB443A4A	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	4O0	4	0	4,680,545:10:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
164	98	278	21:11:28.866	444FB443A4B	**7MODE**	**SPNL**	AACS ALL-SPIN LOW	4O0	4	0	4,680,549:06:0
165	98	278	21:20:28.866	444FB443A4C	**7CLK**	**17.45,0.0**	Check S/P Position	4O0	4	0	4,680,557:88:0
166	**98**	**278**	**21:23:28.200**	**125FB4A**	**37IST**	**1,0,0,OFF,0,0,0**	**Chopper ON, Sync, 63Hz (Ref)**	**460**	**4**	**0**	**4,680,560:84:0**
167	98	278	21:23:28.200	125FB	NIMSINIT	GS	##### GROUP START INIT	460	4	0	4,680,560:84:0
168	**98**	**278**	**21:24:28.866**	**125FB4B**	**37IST**	**1,2,0,OFF,0,1,1**	**Chopper ON, Sync, Chopper (Ref)Gain State**	**4R0**	**4**	**0**	**4,680,561:84:0**
169	**98**	**278**	**21:25:29.533**	**125FB4C**	**37MB**	**1B,1B,0,0,0,0**	**Selects mirror (spatial) edit table**	**4R0**	**4**	**0**	**4,680,562:84:0**
170	98	278	21:25:29.533	125FB11A	NIMSINIT	GE	##### GROUP END INIT	4R0	4	0	4,680,562:84:0
171	98	278	21:28:31.533	127FB	NIMSTAB	GS	%%%%% GROUP START TAB	4R0	4	0	4,680,565:84:0
172	**98**	**278**	**21:28:31.533**	**127FB4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**4R3**	**4**	**0**	**4,680,565:84:0**
173	**98**	**278**	**21:28:32.200**	**127FB4B**	**37ETB**	**0A,CA,19,FF,C0,1**	**Loads wavelength edit table**	**4R3**	**4**	**0**	**4,680,565:85:0**
174	98	278	21:28:40.200	127FB11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	4,680,566:06:0
175	**98**	**278**	**21:28:56.200**	**432FB6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**	**NIMS R/T SELECT**	**4R3**	**4**	**0**	**4,680,566:30:0**
176	**98**	**278**	**21:30:56.200**	**432FC6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**4R3**	**4**	**0**	**4,680,568:28:0**
177	98	278	21:31:38.200	192FC4A	**7CONE**	**17.0,54.88**	Check S/P Position	4R3	4	0	4,680,569:00:0
178	98	278	21:31:38.866	192FC4B	**7CLK**	**17.0,244.07**	Check S/P Position	4R3	4	0	4,680,569:01:0
179	**98**	**278**	**21:35:00.200**	**432FD6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**	**NIMS R/T SELECT**	**4R3**	**4**	**0**	**4,680,572:30:0**
180	**98**	**278**	**21:45:05.533**	**432FE6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**4R3**	**4**	**0**	**4,680,582:28:0**
181	**98**	**278**	**21:45:42.866**	**127FE4A**	**37IOP**	**0,0**	**Safe, Grating Start Position =00**	**4R0**	**4**	**0**	**4,680,582:84:0**
182	98	278	21:45:42.866	127FE	NIMSTAB	GS	%%%%% GROUP START TAB	4R0	4	0	4,680,582:84:0
183	**98**	**278**	**21:45:43.533**	**127FE4B**	**37ETB**	**04,C4,02,00,00**	**Loads wavelength edit table**	**4R0**	**4**	**0**	**4,680,582:85:0**
184	98	278	21:45:51.533	127FE11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R0	4	0	4,680,583:06:0
185	98	278	21:45:51.533	20FE4A	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	4R0	4	0	4,680,583:06:0
186	**98**	**278**	**21:47:44.200**	**125FE4A**	**37IST**	**1,0,0,OFF,0,0,0**	**Chopper ON, Sync, 63Hz (Ref)**	**460**	**4**	**0**	**4,680,584:84:0**
187	98	278	21:47:44.200	125FE	NIMSINIT	GS	##### GROUP START INIT	460	4	0	4,680,584:84:0
188	**98**	**278**	**21:48:44.866**	**125FE4B**	**37IST**	**1,1,0,OFF,0,0,0**	**Chopper OFF, N/A, 63Hz (Ref)**	**4O0**	**4**	**0**	**4,680,585:84:0**
189	98	278	21:49:45.533	125FE11A	NIMSINIT	GE	##### GROUP END INIT	4O0	4	0	4,680,586:84:0
190	**98**	**278**	**21:49:45.533**	**125FE4C**	**37MB**	**0,0,0,0,0,0**	**Selects mirror (spatial) edit table**	**4O0**	**4**	**0**	**4,680,586:84:0**
191	98	278	21:50:57.533	444FF443A4A	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	4O0	4	0	4,680,588:10:0
192	98	278	21:54:57.533	444FF443A4B	**7MODE**	**CRU**	AACS CRUISE MODE	4O0	4	0	4,680,592:06:0
193	98	278	22:05:04.200	41FG99A	**POWER**	**PWR MODE change**	Change to Maneuver/Playback Mode	4O0	4	0	4,680,602:06:0
194	**98**	**278**	**22:06:58.200**	**41FG3G**	**40T1P**		**1 PCT Heater 1 ON (primary relay)**	**4O0**	**4**	**0**	**4,680,603:86:0**
195	**98**	**278**	**22:07:08.200**	**41FG3H**	**40T1P**		**2 PCT Heater 1 ON (primary relay)**	**4O0**	**4**	**0**	**4,680,604:10:0**
196	**98**	**278**	**22:07:18.200**	**41FG3I**	**40T2**		**1 PCT Heater 2 ON**	**4O0**	**4**	**0**	**4,680,604:25:0**
197	**98**	**278**	**22:07:28.200**	**41FG3J**	**40T2**		**2 PCT Heater 2 ON**	**4O0**	**4**	**0**	**4,680,604:40:0**
198	98	278	22:09:10.866	20FH4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	4O0	4	0	4,680,606:12:0
199	98	278	22:10:00.866	20FH4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,680,606:87:0
200	98	278	22:11:04.200	176FH6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	4,680,608:00:0
201	98	278	22:46:34.200	488BD6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,680,643:10:0
202	98	278	22:48:46.866	488BD6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,680,645:27:0
203	**98**	**278**	**22:50:34.200**	**17NNPCTRLT01-**		**-----STOP-------**		**4O0**	**4**	**0**	**: :**
204	98	279	00:39:48.866	488BE6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,680,755:10:0
205	98	279	00:56:46.866	488BE6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,680,771:81:0
206	98	279	02:37:02.866	488BE6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,680,871:05:0
207	98	279	06:38:14.200	488BE6D	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,681,109:54:0
208	98	279	06:40:14.866	488BF6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,681,111:53:0
209	98	279	06:43:54.200	488BF6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,681,115:18:0
210	98	279	07:27:10.866	488BF6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,681,158:00:0
211	98	279	09:24:12.866	488BF6D	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,681,273:68:0
212	98	279	09:26:38.866	488BF6E	6TMSED	FILL,AL8	Sci, Eng, and D/L Chan	4O0	4	0	4,681,276:14:0
213	98	279	09:28:18.866	488BG6A	6TMSED	NORM,AL8	Sci, Eng, and D/L Chan	4O0	4	0	4,681,277:73:0
214	98	279	12:18:14.200	488BG6B	6TMSED	FILL,AL8	Sci, Eng, and D/L Chan	4O0	4	0	4,681,445:78:0
215	98	279	12:19:26.866	488BG6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,681,447:05:0
216	98	279	17:19:45.533	488BH6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,681,744:06:0
217	98	279	17:41:34.866	488BH6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,681,765:59:0
218	98	280	00:29:02.800	488BI6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,682,168:58:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
219	98	280	00:52:30.800	488BI6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,682,191:77:0	
220	98	280	02:37:02.800	488BI6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,682,295:21:0	
221	98	280	04:28:09.466	488BI6D	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,682,405:11:0	
222	98	280	04:30:06.800	488BI6E	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,682,407:05:0	
223	98	280	06:38:50.133	488BJ6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,682,534:33:0	
224	98	280	07:22:54.800	488BJ6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,682,577:87:0	
225	98	280	09:30:36.800	488BJ6C	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,682,704:23:0	
226	98	280	09:33:02.800	488BJ6D	6TMSED	FILL,AL8	Sci, Eng, and D/L Chan	4O0	4	0	4,682,706:60:0	
227	98	280	09:34:42.800	488BJ6E	6TMSED	NORM,AL8	Sci, Eng, and D/L Chan	4O0	4	0	4,682,708:28:0	
228	98	280	14:10:22.800	488BK6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,682,980:86:0	
229	98	280	15:57:36.800	176ST6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	4O0	4	0	4,683,087:00:0	
230	98	280	16:02:00.133	20UQ4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,683,091:31:0	
231	98	280	16:03:00.133	20UQ4D	**7MODE**	**SPNL**	AACS ALL-SPIN LOW	4O0	4	0	4,683,092:30:0	
232	98	280	16:05:00.133	20UQ4E	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	4O0	4	0	4,683,094:28:0	
233	98	280	16:10:30.133	20UQ4G	7VENT	0.611,1.333,8	ALERT -- Thruster fire	4O0	4	0	4,683,099:68:0	
234	98	280	16:10:30.800	20UQ4H	7VENT	0.611,10.989,8	ALERT -- Thruster fire	4O0	4	0	4,683,099:69:0	
235	98	280	16:10:50.800	20UQ4I	7VENT	0.611,1.333,6	ALERT -- Thruster fire	4O0	4	0	4,683,100:08:0	
236	98	280	16:10:51.466	20UQ4J	7VENT	0.611,10.989,6	ALERT -- Thruster fire	4O0	4	0	4,683,100:09:0	
237	98	280	16:11:11.466	20UQ4K	7VENT	0.611,1.333,4	ALERT -- Thruster fire	4O0	4	0	4,683,100:39:0	
238	98	280	16:11:12.133	20UQ4L	7VENT	0.611,0.666,5	ALERT -- Thruster fire	4O0	4	0	4,683,100:40:0	
239	98	280	16:11:22.133	20UQ4M	7VENT	0.611,1.333,4	ALERT -- Thruster fire	4O0	4	0	4,683,100:55:0	
240	98	280	16:11:22.800	20UQ4N	7VENT	0.611,0.666,5	ALERT -- Thruster fire	4O0	4	0	4,683,100:56:0	
241	98	280	16:11:32.800	20UQ4O	7VENT	1.211,1.333,10	ALERT -- Thruster fire	4O0	4	0	4,683,100:71:0	
242	98	280	16:11:33.466	20UQ4P	7VENT	1.211,0.666,12	ALERT -- Thruster fire	4O0	4	0	4,683,100:72:0	
243	98	280	16:13:20.133	20UQ4S	7VENT	0.611,1.333,7	ALERT -- Thruster fire	4O0	4	0	4,683,102:50:0	
244	98	280	16:13:20.800	20UQ4T	7VENT	0.611,10.989,7	ALERT -- Thruster fire	4O0	4	0	4,683,102:51:0	
245	98	280	16:13:40.800	20UQ4U	7VENT	0.611,1.333,1	ALERT -- Thruster fire	4O0	4	0	4,683,102:81:0	
246	98	280	16:13:41.466	20UQ4V	7VENT	0.611,10.989,1	ALERT -- Thruster fire	4O0	4	0	4,683,102:82:0	
247	98	280	16:14:01.466	20UQ4AC	7VENT	0.611,1.333,2	ALERT -- Thruster fire	4O0	4	0	4,683,103:21:0	
248	98	280	16:14:02.133	20UQ4AD	7VENT	0.611,0.666,3	ALERT -- Thruster fire	4O0	4	0	4,683,103:22:0	
249	98	280	16:14:12.133	20UQ4AE	7VENT	0.611,1.333,2	ALERT -- Thruster fire	4O0	4	0	4,683,103:37:0	
250	98	280	16:14:12.800	20UQ4AF	7VENT	0.611,0.666,3	ALERT -- Thruster fire	4O0	4	0	4,683,103:38:0	
251	98	280	16:14:22.800	20UQ4W	7VENT	1.211,1.333,9	ALERT -- Thruster fire	4O0	4	0	4,683,103:53:0	
252	98	280	16:14:23.466	20UQ4X	7VENT	1.211,0.666,11	ALERT -- Thruster fire	4O0	4	0	4,683,103:54:0	
253	98	280	16:15:20.133	20UQ4Z	**7MODE**	**CRU**	AACS CRUISE MODE	4O0	4	0	4,683,104:48:0	
254	98	280	16:18:22.800	488BK6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,683,107:49:0	
255	98	280	16:40:04.133	20UJ4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	4O0	4	0	4,683,128:90:0	
256	98	280	16:40:54.133	20UJ4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,683,129:74:0	
257	98	280	16:42:06.133	176SU6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	4,683,131:00:0	
258	98	280	17:13:50.800	488BK6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,683,162:36:0	
259	98	280	17:18:44.133	488BK6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,683,167:21:0	
260	98	280	17:20:14.800	488BK6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,683,168:66:0	
261	98	281	00:31:27.466	488BL6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,683,595:18:0	
262	98	281	00:41:50.800	488BL6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,683,605:43:0	
263	98	281	01:18:06.800	488BL6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,683,641:31:0	
264	98	281	01:49:43.466	488BL6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,683,672:55:0	
265	98	281	02:16:33.466	488BL6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,683,699:13:0	
266	98	281	06:26:55.400	488BM6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,683,946:69:0	
267	98	281	06:33:46.066	488BM6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,683,953:48:0	
268	98	281	07:22:54.733	488BM6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,684,002:12:0	
269	98	281	07:36:08.066	488BM6D	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,684,015:19:0	
270	98	281	08:00:40.733	488BM6E	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,684,039:44:0	
271	98	281	09:45:32.733	488BN6A	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,684,143:18:0	
272	98	281	09:47:58.733	488BN6B	6TMSED	FILL,AL8	Sci, Eng, and D/L Chan	4O0	4	0	4,684,145:55:0	
273	98	281	09:49:38.733	488BN6C	6TMSED	NORM,AL8	Sci, Eng, and D/L Chan	4O0	4	0	4,684,147:23:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
274	98	281	13:49:02.733	488BN6D	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,684,384:02:0	
275	98	281	16:14:06.733	488BO6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,684,527:45:0	
276	98	281	17:09:34.733	488BO6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,684,582:32:0	
277	98	281	17:12:45.400	488BO6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,684,585:45:0	
278	98	281	17:26:38.733	488BO6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,684,599:21:0	
279	98	282	06:28:41.400	488BP6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,685,372:62:0	
280	98	282	07:22:54.733	488BP6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,685,426:28:0	
281	98	282	10:09:00.733	488BP6C	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,685,590:53:0	
282	98	282	10:11:26.733	488BP6D	6TMSED	FILL,AL8	Sci, Eng, and D/L Chan	4O0	4	0	4,685,592:90:0	
283	98	282	10:13:06.733	488BP6E	6TMSED	NORM,AL8	Sci, Eng, and D/L Chan	4O0	4	0	4,685,594:58:0	
284	98	282	13:08:30.666	488BQ6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,685,768:10:0	
285	98	282	16:03:26.666	488BQ6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,685,941:11:0	
286	98	282	17:05:18.666	488BQ6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,686,002:28:0	
287	98	282	17:07:18.666	488BQ6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,686,004:26:0	
288	98	282	17:13:50.666	488BQ6E	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,686,010:68:0	
289	98	282	17:24:30.666	488BR6A	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,686,021:27:0	
290	98	283	00:29:31.333	488BS6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,686,441:58:0	
291	98	283	00:41:50.666	488BS6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,686,453:75:0	
292	98	283	02:56:14.666	488BS6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,686,586:68:0	
293	98	283	06:17:36.000	488BS6D	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,686,785:81:0	
294	98	283	06:18:54.666	488BS6E	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,686,787:17:0	
295	98	283	06:23:37.333	488BT6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,686,791:77:0	
296	98	283	07:22:54.666	488BT6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,686,850:44:0	
297	98	283	15:54:54.666	488BU6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,687,356:78:0	
298	98	283	16:58:54.666	488BU6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,687,420:14:0	
299	98	283	17:15:58.666	488BU6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,687,437:03:0	
300	98	283	18:13:31.266	488BU6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,687,493:86:0	
301	98	283	18:34:54.600	488BU6E	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,687,515:09:0	
302	98	283	18:40:46.600	488BV6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,687,520:82:0	
303	98	284	01:09:34.600	488BW6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,687,905:39:0	
304	98	284	02:28:30.600	488BW6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,687,983:45:0	
305	98	284	02:47:42.600	488BW6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,688,002:44:0	
306	98	284	03:06:54.600	488BW6D	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,688,021:43:0	
307	98	284	03:31:19.933	488BW6E	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,688,045:57:0	
308	98	284	03:55:52.600	488BX6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,688,069:82:0	
309	98	284	04:12:59.266	488BX6B	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,688,086:75:0	
310	98	284	04:15:10.600	488BX6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,688,088:90:0	
311	98	284	06:18:33.266	488BX6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,688,211:01:0	
312	98	284	07:22:54.600	488BX6E	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,688,274:60:0	
313	98	284	15:44:14.600	488BY6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,688,770:44:0	
314	98	284	16:54:38.600	488BY6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,688,840:10:0	
315	98	284	17:15:58.600	488BY6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,688,861:19:0	
316	98	284	17:30:54.600	488BY6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,688,875:89:0	
317	98	284	23:31:11.266	488BZ6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,689,232:27:0	
318	98	284	23:33:34.600	488BZ6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,689,234:60:0	
319	98	285	00:14:22.600	488BZ6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,689,275:01:0	
320	98	285	00:41:50.600	488BZ6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,689,302:16:0	
321	98	285	03:32:30.533	488BZ6E	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,689,470:88:0	
322	98	285	06:48:46.533	488CA6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,689,665:07:0	
323	98	285	09:50:06.533	488CA6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,689,844:38:0	
324	98	285	10:09:37.200	488CA6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,689,863:65:0	
325	98	285	10:13:34.533	488CA6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,689,867:57:0	
326	98	285	16:41:06.533	488CB6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,690,250:82:0	
327	98	285	17:07:26.533	488CB6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,690,276:86:0	
328	98	285	18:03:40.533	488CB6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,690,332:51:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
329	98	285	18:32:46.533	488CB6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,690,361:31:0	
330	98	285	18:41:18.533	488CB6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,690,369:71:0	
331	98	286	00:03:26.533	488CC6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,690,688:34:0	
332	98	286	00:37:34.533	488CC6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,690,722:12:0	
333	98	286	01:25:05.866	488CC6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,690,769:12:0	
334	98	286	01:51:55.200	488CC6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,690,795:60:0	
335	98	286	04:01:21.200	488CC6E	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,690,923:61:0	
336	98	286	04:04:30.533	488CD6A	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,690,926:72:0	
337	98	286	16:49:15.800	488CE6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,691,683:13:0	
338	98	286	17:37:18.466	488CE6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,691,730:60:0	
339	98	287	01:39:26.466	488CF6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,692,207:45:0	
340	98	287	02:23:05.800	488CF6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,692,250:61:0	
341	98	287	02:24:14.466	488CF6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,692,251:73:0	
342	98	287	02:32:46.466	488CF6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,692,260:22:0	
343	98	287	03:53:19.133	488CF6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,692,339:82:0	
344	98	287	09:33:02.466	488CG6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,692,675:81:0	
345	98	287	10:02:37.800	488CG6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,692,705:14:0	
346	98	287	10:02:54.466	488CG6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,692,705:39:0	
347	98	287	16:40:57.133	488CH6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,693,099:09:0	
348	98	287	17:07:26.466	488CH6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,693,125:27:0	
349	98	287	17:53:50.400	488CH6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,693,171:17:0	
350	98	287	18:22:56.400	488CH6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,693,199:88:0	
351	98	287	19:06:54.400	488CH6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,693,243:41:0	
352	98	287	23:54:54.400	488CI6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,693,528:26:0	
353	98	288	00:37:34.400	488CI6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,693,570:44:0	
354	98	288	01:20:14.400	488CI6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,693,612:62:0	
355	98	288	01:47:04.400	488CI6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,693,639:20:0	
356	98	288	03:55:21.066	488CI6E	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,693,766:08:0	
357	98	288	03:58:06.400	488CJ6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,693,768:74:0	
358	98	288	16:30:52.400	488CK6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,694,513:28:0	
359	98	288	16:46:06.400	488CK6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,694,528:34:0	
360	98	288	17:41:34.400	488CK6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,694,583:21:0	
361	98	288	23:59:10.400	488CL6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,694,956:62:0	
362	98	289	00:37:34.400	488CL6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,694,994:60:0	
363	98	289	09:13:50.333	488CM6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,695,505:23:0	
364	98	289	09:54:22.333	488CM6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,695,545:31:0	
365	98	289	09:57:10.333	488CM6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,695,548:10:0	
366	98	289	16:30:47.666	488CN6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,695,937:37:0	
367	98	289	17:01:02.333	488CN6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,695,967:29:0	
368	98	289	17:48:59.666	488CN6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,696,014:68:0	
369	98	289	18:18:05.666	488CN6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,696,043:48:0	
370	98	289	20:25:50.333	488CN6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,696,169:79:0	
371	98	289	22:18:54.333	488CO6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,696,281:63:0	
372	98	290	00:41:50.333	488CO6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,696,423:05:0	
373	98	290	01:15:24.333	488CO6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,696,456:23:0	
374	98	290	01:42:14.333	488CO6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,696,482:72:0	
375	98	290	03:46:00.333	488CO6E	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,696,605:18:0	
376	98	290	03:49:34.333	488CP6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,696,608:66:0	
377	98	290	16:25:43.600	488CQ6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,697,356:52:0	
378	98	290	16:41:50.266	488CQ6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,697,372:46:0	
379	98	290	17:52:14.266	488CQ6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,697,442:12:0	
380	98	290	23:37:50.266	488CR6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,697,783:85:0	
381	98	290	23:59:10.266	488CR6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,697,805:03:0	
382	98	291	00:41:50.266	488CR6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,697,847:21:0	
383	98	291	08:54:38.266	488CS6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,698,334:56:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
384	98	291	09:43:42.266	488CS6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,698,383:13:0	
385	98	291	09:47:00.266	488CS6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,698,386:37:0	
386	98	291	16:20:38.200	488CT6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,698,775:65:0	
387	98	291	16:41:50.200	488CT6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,698,796:62:0	
388	98	291	18:00:46.200	488CT6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,698,874:68:0	
389	98	291	23:37:50.200	488CU6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,699,208:10:0	
390	98	292	00:11:58.200	488CU6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,699,241:79:0	
391	98	292	00:59:10.200	488CU6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,699,288:50:0	
392	98	292	01:28:16.866	488CU6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,699,317:31:0	
393	98	292	02:30:38.200	488CU6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,699,379:01:0	
394	98	292	06:53:02.200	488CV6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,699,638:48:0	
395	98	292	09:18:06.200	488CV6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,699,782:00:0	
396	98	292	09:41:55.533	488CV6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,699,805:51:0	
397	98	292	16:15:33.533	488CW6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,700,194:79:0	
398	98	292	16:35:26.200	488CW6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,700,214:48:0	
399	98	292	18:07:10.200	488CW6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,700,305:23:0	
400	98	292	23:48:30.200	488CX6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,700,642:76:0	
401	98	293	00:46:06.133	488CX6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,700,699:73:0	
402	98	293	08:29:02.133	488CY6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,701,157:59:0	
403	98	293	09:28:46.133	488CY6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,701,216:66:0	
404	98	293	09:36:50.133	488CY6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,701,224:64:0	
405	98	293	16:10:28.133	488CZ6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,701,614:01:0	
406	98	293	16:35:26.133	488CZ6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,701,638:64:0	
407	98	293	18:15:42.133	488CZ6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,701,737:79:0	
408	98	293	23:52:46.133	488DA6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,702,071:21:0	
409	98	294	01:37:18.133	488DA6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,702,174:56:0	
410	98	294	01:56:47.466	488DA6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,702,193:81:0	
411	98	294	02:07:10.133	488DA6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,702,204:14:0	
412	98	294	03:27:45.466	488DA6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,702,283:78:0	
413	98	294	08:18:22.066	488DB6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,702,571:25:0	
414	98	294	09:22:22.066	488DB6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,702,634:52:0	
415	98	294	09:36:32.733	488DB6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,702,648:54:0	
416	98	294	09:43:42.066	488DB6D	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,702,655:61:0	
417	98	294	09:54:22.066	488DB6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,702,666:20:0	
418	98	294	16:45:23.400	488DC6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,703,072:66:0	
419	98	294	17:05:18.066	488DC6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,703,092:38:0	
420	98	294	17:54:24.733	488DC6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,703,140:90:0	
421	98	294	18:23:30.733	488DC6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,703,169:70:0	
422	98	294	23:22:54.066	488DD6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,703,465:79:0	
423	98	294	23:46:22.066	488DD6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,703,489:07:0	
424	98	295	00:44:25.400	488DD6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,703,546:45:0	
425	98	295	01:05:18.066	488DD6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,703,567:13:0	
426	98	295	01:11:33.400	488DD6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,703,573:30:0	
427	98	295	08:07:42.066	488DE6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,703,984:82:0	
428	98	295	09:18:06.066	488DE6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,704,054:48:0	
429	98	295	09:26:40.066	488DE6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,704,063:00:0	
430	98	295	16:05:17.333	488DF6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,704,457:22:0	
431	98	295	16:31:10.000	488DF6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,704,482:76:0	
432	98	295	18:30:38.000	488DF6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,704,600:90:0	
433	98	295	23:22:54.000	488DG6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,704,890:04:0	
434	98	295	23:37:50.000	488DG6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,704,904:74:0	
435	98	296	00:05:34.000	488DG6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,704,932:22:0	
436	98	296	00:54:31.333	488DG6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,704,980:60:0	
437	98	296	01:23:37.333	488DG6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,705,009:40:0	
438	98	296	08:48:14.000	488DH6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,705,449:15:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
439	98	296	09:21:35.333	488DH6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,705,482:14:0	
440	98	296	16:00:12.666	488DI6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,705,876:36:0	
441	98	296	17:05:18.000	488DI6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,705,940:70:0	
442	98	296	17:19:34.666	488DI6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,705,954:81:0	
443	98	296	17:48:40.666	488DI6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,705,983:61:0	
444	98	296	18:43:00.000	488DI6E	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	4O0	4	0	4,706,037:36:0	
445	98	296	18:47:39.333	176SD6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	4O0	4	0	4,706,042:00:0	
446	98	296	18:59:00.000	20BA4C	7STAT	17.45,264.0564,3	Stator inertial point	4O0	4	0	4,706,053:20:0	
447	98	296	19:20:00.000	474BA416A4B	**7MODE**	**INT**	AACS INERTIAL MODE	4O0	4	0	4,706,073:90:0	
448	98	296	19:22:00.000	474BA416A4D	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	4O0	4	0	4,706,075:88:0	
449	98	296	19:22:20.000	20BA4D	7STAT	17.45,264.0564,3	Stator inertial point	4O0	4	0	4,706,076:27:0	
450	98	296	19:26:14.000	474BA416A4E	7BURN	,264.056396,32.6	ALERT -- Thruster fire	4O0	4	0	4,706,080:14:0	
451	98	296	19:32:43.333	20BA4F	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,706,086:52:0	
452	98	296	19:38:35.333	20BA4G	**7MODE**	**CRU**	AACS CRUISE MODE	4O0	4	0	4,706,092:34:0	
453	98	296	20:02:51.333	20BA4J	7STAT	17.45,264.0564,3	Stator inertial point	4O0	4	0	4,706,116:34:0	
454	98	296	20:05:51.333	20BA4M	**7MODE**	**INT**	AACS INERTIAL MODE	4O0	4	0	4,706,119:31:0	
455	98	296	20:07:51.333	474BA416A4G	7BURN	264.056396,32.65	ALERT -- Thruster fire	4O0	4	0	4,706,121:29:0	
456	98	296	20:31:50.000	20BA4O	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,706,145:03:0	
457	98	296	20:36:42.000	20BA4P	**7MODE**	**CRU**	AACS CRUISE MODE	4O0	4	0	4,706,149:77:0	
458	98	296	21:44:14.000	20BB4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	4O0	4	0	4,706,216:58:0	
459	98	296	21:45:04.000	20BB4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,706,217:42:0	
460	98	296	21:46:37.333	176BA6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	4,706,219:00:0	
461	98	296	23:22:53.933	488DJ6A	6TMSED	NORM,AH4	Sci, Eng, and D/L Chan	4O0	4	0	4,706,314:20:0	
462	98	296	23:44:13.933	488DJ6B	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	4O0	4	0	4,706,335:29:0	
463	98	297	00:20:59.933	488DJ6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,706,371:62:0	
464	98	297	00:21:19.266	176SE6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	4,706,372:00:0	
465	98	297	00:44:36.600	488DJ6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,706,395:03:0	
466	98	297	01:05:17.933	488DJ6E	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,706,415:45:0	
467	98	297	01:11:41.266	488DK6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,706,421:74:0	
468	98	297	07:52:45.933	488DL6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,706,818:44:0	
469	98	297	09:07:25.933	488DL6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,706,892:30:0	
470	98	297	09:11:29.266	488DL6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,706,896:31:0	
471	98	297	09:56:38.600	176SN6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	4O0	4	0	4,706,941:00:0	
472	98	297	10:02:42.600		DMS:	: *SLEW-TIC	P7, TRACK 1, FWD, TIC 2019.42 +/-	4O0	4	0	4,706,947:00:0	
473	98	297	10:02:42.600	465SA6A	6DMST	5000	DMS Slew to TIC	4O0	4	0	4,706,947:00:0	
474	98	297	10:02:42.600		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 2019.42 +/-	4O0	4	0	4,706,947:00:0	
475	98	297	10:02:49.266		DMS:	: *RUNUP	P7, TRACK 1, FWD, TIC 2019.42 +/-	4O0	4	0	4,706,947:10:0	
476	98	297	10:02:50.666		DMS:	: *AT_SPD	P7, TRACK 1, FWD, TIC *2019.54 +/-	4O0	4	0	4,706,947:12:1	
477	98	297	13:34:37.400		DMS:	: *RUNDOWN	P7, TRACK 1, FWD, TIC *4997.94 +/-	4O0	4	0	4,707,156:53:2	
478	98	297	13:34:38.600		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *4998.00 +/-	4O0	4	0	4,707,156:55:0	
479	98	297	15:55:07.266	488DM6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,707,295:49:0	
480	98	297	15:56:23.933	465SB6A	6DMSC	P100,4	DMS Control Tape P/B 100.8kbps	4O0	4	0	4,707,296:73:0	
481	98	297	15:56:23.933		DMS:	: *US-RUNUP	P7, TRACK 1, FWD, TIC 4998.00 +/-	4O0	4	0	4,707,296:73:0	
482	98	297	15:56:25.333		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *4998.12 +/-	4O0	4	0	4,707,296:75:1	
483	98	297	15:56:30.600		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *4999.35 +/-	4O0	4	0	4,707,296:83:0	
484	98	297	15:56:31.800		DMS:	: *RUNUP	P100, TRACK *4, *REV, TIC *4999.41 +/-	4O0	4	0	4,707,296:84:8	
485	98	297	15:56:35.666		DMS:	: *AT_SPD	P100, TRACK 4, REV, TIC 4993.91 +/-	4O0	4	0	4,707,296:90:6	
486	98	297	15:56:35.666		DMS:	: *P_SLEW	P100, TRACK 4, REV, TIC *4993.91 +/-	4O0	4	0	4,707,296:90:6	
487	98	297	16:22:15.933	465SB6B	6DMSC	RDY,4	DMS Control Tape stop	4O0	4	0	4,707,322:35:0	
488	98	297	16:22:15.933		DMS:	: *RUNDOWN	P100, TRACK 4, REV, TIC * 255.79 +/-	4O0	4	0	4,707,322:35:0	
489	98	297	16:22:17.133		DMS:	: *READY	RDY, TRACK 4, REV, TIC * 254.99 +/-	4O0	4	0	4,707,322:36:8	
490	98	297	17:01:01.933	488DM6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,707,360:66:0	
491	98	297	17:14:40.600	488DM6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,707,374:20:0	
492	98	297	17:43:46.600	488DM6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,707,403:00:0	
493	98	297	18:20:03.933	465SC6A	6DTRN	CMD,6DTRN,465SC6	DMS TRACK TURNAROUND	4O0	4	0	4,707,438:81:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
494	98	297	18:20:03.933		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 254.99 +/-	4O0	4	0	4,707,438	81:0
495	98	297	18:20:03.933		DMS:	: *DMS-TURN	P7, TRACK 4, REV, TIC 254.99 +/-	4O0	4	0	4,707,438	81:0
496	98	297	18:20:05.333		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 255.11 +/-	4O0	4	0	4,707,438	83:1
497	98	297	18:20:10.600		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 256.34 +/-	4O0	4	0	4,707,439	00:0
498	98	297	18:20:11.800		DMS:	: *RUNUP	P7, TRACK *4, *REV, TIC * 256.40 +/-	4O0	4	0	4,707,439	01:8
499	98	297	18:20:13.200		DMS:	: *AT_SPD	P7, TRACK 4, REV, TIC * 256.28 +/-	4O0	4	0	4,707,439	03:9
500	98	297	18:24:09.933	488DM6E	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	4O0	4	0	4,707,442	86:0
501	98	297	18:24:13.866		DMS:	: *REVERSE	P7, TRACK 4, REV, TIC * 199.87 +/-	4O0	4	0	4,707,443	00:9
502	98	297	18:24:15.066		DMS:	: *RUNUP	P7, TRACK 1, FWD, TIC 199.81 +/-	4O0	4	0	4,707,443	02:7
503	98	297	18:24:15.066		DMS:	: *TURNARND	P7, TRACK *1, *FWD, TIC * 199.81 +/-	4O0	4	0	4,707,443	02:7
504	98	297	18:24:16.466		DMS:	: *AT_SPD	P7, TRACK 1, FWD, TIC * 199.93 +/-	4O0	4	0	4,707,443	04:8
505	98	297	18:24:28.466		DMS:	: *AUTOSTOP	P7, TRACK 1, FWD, TIC * 202.06 +/-	4O0	4	0	4,707,443	22:8
506	98	297	18:24:29.666		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 202.12 +/-	4O0	4	0	4,707,443	24:6
507	98	297	18:30:06.600	465SD6A	6DMSC	P100,1	DMS Control Tape P/B 100.8kbps	4O0	4	0	4,707,448	75:0
508	98	297	18:30:06.600		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 202.12 +/-	4O0	4	0	4,707,448	75:0
509	98	297	18:30:13.266		DMS:	: *RUNUP	P100, TRACK 1, FWD, TIC 202.12 +/-	4O0	4	0	4,707,448	85:0
510	98	297	18:30:17.133		DMS:	: *P_SLEW	P100, TRACK 1, FWD, TIC * 207.62 +/-	4O0	4	0	4,707,448	90:8
511	98	297	18:30:17.133		DMS:	: *AT_SPD	P100, TRACK 1, FWD, TIC 207.62 +/-	4O0	4	0	4,707,448	90:8
512	98	297	19:02:00.600		DMS:	: *RUNDOWN	P100, TRACK 1, FWD, TIC *6063.01 +/-	4O0	4	0	4,707,480	34:0
513	98	297	19:02:00.600	465SD6B	6DMSC	RDY,1	DMS Control Tape stop	4O0	4	0	4,707,480	34:0
514	98	297	19:02:01.800		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *6063.81 +/-	4O0	4	0	4,707,480	35:8
515	98	297	19:17:36.600	465SE6A	6DMSC	P100,2	DMS Control Tape P/B 100.8kbps	4O0	4	0	4,707,495	73:0
516	98	297	19:17:36.600		DMS:	: *US-RUNUP	P7, TRACK 1, FWD, TIC 6063.81 +/-	4O0	4	0	4,707,495	73:0
517	98	297	19:17:38.000		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *6063.93 +/-	4O0	4	0	4,707,495	75:1
518	98	297	19:17:43.266		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *6065.17 +/-	4O0	4	0	4,707,495	83:0
519	98	297	19:17:44.466		DMS:	: *RUNUP	P100, TRACK *2, *REV, TIC *6065.23 +/-	4O0	4	0	4,707,495	84:8
520	98	297	19:17:48.333		DMS:	: *AT_SPD	P100, TRACK 2, REV, TIC 6059.73 +/-	4O0	4	0	4,707,495	90:6
521	98	297	19:17:48.333		DMS:	: *P_SLEW	P100, TRACK 2, REV, TIC *6059.73 +/-	4O0	4	0	4,707,495	90:6
522	98	297	19:49:44.600	465SF6A	6DMSC	P100,3	DMS Control Tape P/B 100.8kbps	4O0	4	0	4,707,527	53:0
523	98	297	19:49:44.600		DMS:	: *RUNDOWN	P100, TRACK 2, REV, TIC * 164.96 +/-	4O0	4	0	4,707,527	53:0
524	98	297	19:49:45.800		DMS:	: *RUNUP	P100, TRACK *3, *FWD, TIC * 164.16 +/-	4O0	4	0	4,707,527	54:8
525	98	297	19:49:49.666		DMS:	: *AT_SPD	P100, TRACK 3, FWD, TIC 169.66 +/-	4O0	4	0	4,707,527	60:6
526	98	297	19:49:49.666		DMS:	: *P_SLEW	P100, TRACK 3, FWD, TIC * 169.66 +/-	4O0	4	0	4,707,527	60:6
527	98	297	20:21:45.266	465SF6B	6DMSC	RDY,3	DMS Control Tape stop	4O0	4	0	4,707,559	22:0
528	98	297	20:21:45.266		DMS:	: *RUNDOWN	P100, TRACK 3, FWD, TIC *6062.38 +/-	4O0	4	0	4,707,559	22:0
529	98	297	20:21:46.466		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *6063.18 +/-	4O0	4	0	4,707,559	23:8
530	98	297	20:36:28.600	465SG6A	6DMSC	P100,4	DMS Control Tape P/B 100.8kbps	4O0	4	0	4,707,573	73:0
531	98	297	20:36:28.600		DMS:	: *US-RUNUP	P7, TRACK *1, FWD, TIC 6063.18 +/-	4O0	4	0	4,707,573	73:0
532	98	297	20:36:30.000		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *6063.30 +/-	4O0	4	0	4,707,573	75:1
533	98	297	20:36:35.266		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *6064.53 +/-	4O0	4	0	4,707,573	83:0
534	98	297	20:36:36.466		DMS:	: *RUNUP	P100, TRACK *4, *REV, TIC *6064.59 +/-	4O0	4	0	4,707,573	84:8
535	98	297	20:36:40.333		DMS:	: *P_SLEW	P100, TRACK 4, REV, TIC *6059.09 +/-	4O0	4	0	4,707,573	90:6
536	98	297	20:36:40.333		DMS:	: *AT_SPD	P100, TRACK 4, REV, TIC 6059.09 +/-	4O0	4	0	4,707,573	90:6
537	98	297	21:08:35.933		DMS:	: *RUNDOWN	P100, TRACK 4, REV, TIC * 166.38 +/-	4O0	4	0	4,707,605	52:0
538	98	297	21:08:35.933	465SH6A	6DMSC	P100,3	DMS Control Tape P/B 100.8kbps	4O0	4	0	4,707,605	52:0
539	98	297	21:08:37.133		DMS:	: *RUNUP	P100, TRACK *3, *FWD, TIC * 165.58 +/-	4O0	4	0	4,707,605	53:8
540	98	297	21:08:41.000		DMS:	: *P_SLEW	P100, TRACK 3, FWD, TIC * 171.08 +/-	4O0	4	0	4,707,605	59:6
541	98	297	21:08:41.000		DMS:	: *AT_SPD	P100, TRACK 3, FWD, TIC 171.08 +/-	4O0	4	0	4,707,605	59:6
542	98	297	21:09:41.933		DMS:	: *RUNDOWN	P100, TRACK 3, FWD, TIC * 358.52 +/-	4O0	4	0	4,707,606	60:0
543	98	297	21:09:41.933	465SH6B	6DMSC	RDY,3	DMS Control Tape stop	4O0	4	0	4,707,606	60:0
544	98	297	21:09:43.133		DMS:	: *READY	RDY, TRACK 3, FWD, TIC * 359.32 +/-	4O0	4	0	4,707,606	61:8
545	98	297	21:10:59.933	488DN6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,707,607	86:0
546	98	297	21:24:11.933		DMS:	: READY	RDY, TRACK *4, *REV, TIC 359.32 +/-	4O0	4	0	4,707,621	00:0
547	98	297	21:24:11.933	465SI6A	6DMSC	RDY,4	DMS Control Tape stop	4O0	4	0	4,707,621	00:0
548	98	297	21:25:05.933		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 359.32 +/-	4O0	4	0	4,707,621	81:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
549	98	297	21:25:05.933	465SJ6A	6DTRN	CMD,6DTRN,465SJ6	DMS TRACK TURNAROUND	4O0	4	0	4,707,621	81:0
550	98	297	21:25:05.933		DMS:	: *DMS-TURN	P7, TRACK 4, REV, TIC 359.32 +/-	4O0	4	0	4,707,621	81:0
551	98	297	21:25:07.333		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 359.44 +/-	4O0	4	0	4,707,621	83:1
552	98	297	21:25:12.600		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 360.67 +/-	4O0	4	0	4,707,622	00:0
553	98	297	21:25:13.800		DMS:	: *RUNUP	P7, TRACK *4, *REV, TIC * 360.73 +/-	4O0	4	0	4,707,622	01:8
554	98	297	21:25:15.200		DMS:	: *AT_SPD	P7, TRACK 4, REV, TIC * 360.61 +/-	4O0	4	0	4,707,622	03:9
555	98	297	21:36:41.000		DMS:	: *REVERSE	P7, TRACK 4, REV, TIC * 199.87 +/-	4O0	4	0	4,707,633	31:6
556	98	297	21:36:42.200		DMS:	: *RUNUP	P7, TRACK 1, FWD, TIC 199.81 +/-	4O0	4	0	4,707,633	33:4
557	98	297	21:36:42.200		DMS:	: *TURNARND	P7, TRACK *1, *FWD, TIC * 199.81 +/-	4O0	4	0	4,707,633	33:4
558	98	297	21:36:43.600		DMS:	: *AT_SPD	P7, TRACK 1, FWD, TIC * 199.93 +/-	4O0	4	0	4,707,633	35:5
559	98	297	21:36:55.600		DMS:	: *AUTOSTOP	P7, TRACK 1, FWD, TIC * 202.06 +/-	4O0	4	0	4,707,633	53:5
560	98	297	21:36:56.800		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 202.12 +/-	4O0	4	0	4,707,633	55:3
561	98	297	21:55:04.600	20UG4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	4O0	4	0	4,707,651	49:0
562	98	297	21:55:54.600	20UG4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,707,652	33:0
563	98	297	21:57:33.933	176SO6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	4,707,654	00:0
564	98	297	23:18:37.933	488DN6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,707,734	16:0
565	98	297	23:39:57.933	488DN6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,707,755	25:0
566	98	298	00:39:41.266	488DN6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,707,814	31:0
567	98	298	01:01:01.933	488DN6E	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,707,835	41:0
568	98	298	01:06:55.933	488DO6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,707,841	26:0
569	98	298	07:52:45.866	488DP6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,708,242	60:0
570	98	298	09:03:09.866	488DP6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,708,312	26:0
571	98	298	09:11:24.533	488DP6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,708,320	40:0
572	98	298	15:50:02.533	488DQ6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,708,714	63:0
573	98	298	16:20:29.866	488DQ6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,708,744	74:0
574	98	298	18:26:21.866	488DQ6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,708,869	27:0
575	98	298	23:07:57.866	488DR6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,709,147	73:0
576	98	298	23:31:25.866	488DR6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,709,171	01:0
577	98	299	00:39:41.866	488DR6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,709,238	48:0
578	98	299	07:48:29.866	488DS6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,709,662	56:0
579	98	299	08:58:53.866	488DS6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,709,732	22:0
580	98	299	09:06:13.866	488DS6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,709,739	45:0
581	98	299	09:13:49.866	488DS6D	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,709,747	01:0
582	98	299	15:46:16.466	488DT6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,710,135	13:0
583	98	299	15:54:53.800	488DT6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,710,143	61:0
584	98	299	16:50:21.800	488DT6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,710,198	48:0
585	98	299	17:04:50.466	488DT6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,710,212	77:0
586	98	299	17:33:56.466	488DT6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,710,241	57:0
587	98	299	17:57:34.466	176SV6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	4O0	4	0	4,710,265	00:0
588	98	299	18:02:00.466	20UR4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,710,269	35:0
589	98	299	18:03:00.466	20UR4D	**7MODE**	**SPNL**	AACS ALL-SPIN LOW	4O0	4	0	4,710,270	34:0
590	98	299	18:05:00.466	20UR4E	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	4O0	4	0	4,710,272	32:0
591	98	299	18:10:30.466	20UR4G	7VENT	0.611,1.333,8	ALERT -- Thruster fire	4O0	4	0	4,710,277	72:0
592	98	299	18:10:31.133	20UR4H	7VENT	0.611,10.989,8	ALERT -- Thruster fire	4O0	4	0	4,710,277	73:0
593	98	299	18:10:51.133	20UR4I	7VENT	0.611,1.333,6	ALERT -- Thruster fire	4O0	4	0	4,710,278	12:0
594	98	299	18:10:51.800	20UR4J	7VENT	0.611,10.989,6	ALERT -- Thruster fire	4O0	4	0	4,710,278	13:0
595	98	299	18:11:11.800	20UR4K	7VENT	0.611,1.333,4	ALERT -- Thruster fire	4O0	4	0	4,710,278	43:0
596	98	299	18:11:12.466	20UR4L	7VENT	0.611,0.666,5	ALERT -- Thruster fire	4O0	4	0	4,710,278	44:0
597	98	299	18:11:22.466	20UR4M	7VENT	0.611,1.333,4	ALERT -- Thruster fire	4O0	4	0	4,710,278	59:0
598	98	299	18:11:23.133	20UR4N	7VENT	0.611,0.666,5	ALERT -- Thruster fire	4O0	4	0	4,710,278	60:0
599	98	299	18:11:33.133	20UR4O	7VENT	1.211,1.333,10	ALERT -- Thruster fire	4O0	4	0	4,710,278	75:0
600	98	299	18:11:33.800	20UR4P	7VENT	1.211,0.666,12	ALERT -- Thruster fire	4O0	4	0	4,710,278	76:0
601	98	299	18:13:20.466	20UR4S	7VENT	0.611,1.333,7	ALERT -- Thruster fire	4O0	4	0	4,710,280	54:0
602	98	299	18:13:21.133	20UR4T	7VENT	0.611,10.989,7	ALERT -- Thruster fire	4O0	4	0	4,710,280	55:0
603	98	299	18:13:41.133	20UR4U	7VENT	0.611,1.333,1	ALERT -- Thruster fire	4O0	4	0	4,710,280	85:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
604	98	299	18:13:41.800	20UR4V	7VENT	0.611,10.989,1	ALERT -- Thruster fire	4O0	4	0	4,710,280:86:0	
605	98	299	18:14:01.800	20UR4AC	7VENT	0.611,1.333,2	ALERT -- Thruster fire	4O0	4	0	4,710,281:25:0	
606	98	299	18:14:02.466	20UR4AD	7VENT	0.611,0.666,3	ALERT -- Thruster fire	4O0	4	0	4,710,281:26:0	
607	98	299	18:14:12.466	20UR4AE	7VENT	0.611,1.333,2	ALERT -- Thruster fire	4O0	4	0	4,710,281:41:0	
608	98	299	18:14:13.133	20UR4AF	7VENT	0.611,0.666,3	ALERT -- Thruster fire	4O0	4	0	4,710,281:42:0	
609	98	299	18:14:23.133	20UR4W	7VENT	1.211,1.333,9	ALERT -- Thruster fire	4O0	4	0	4,710,281:57:0	
610	98	299	18:14:23.800	20UR4X	7VENT	1.211,0.666,11	ALERT -- Thruster fire	4O0	4	0	4,710,281:58:0	
611	98	299	18:15:20.466	20UR4Z	**7MODE**	**CRU**	AACS CRUISE MODE	4O0	4	0	4,710,282:52:0	
612	98	299	18:40:04.466	20UK4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	4O0	4	0	4,710,307:03:0	
613	98	299	18:40:54.466	20UK4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,710,307:78:0	
614	98	299	18:42:03.800	176SW6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	4,710,309:00:0	
615	98	300	00:39:41.800	488DU6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,710,662:64:0	
616	98	300	01:46:15.800	488DU6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,710,728:49:0	
617	98	300	02:13:05.133	488DU6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,710,755:06:0	
618	98	300	07:48:29.800	488DV6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,711,086:72:0	
619	98	300	08:56:45.800	488DV6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,711,154:28:0	
620	98	300	09:06:13.133	488DV6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,711,163:60:0	
621	98	300	09:15:57.800	488DV6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,711,173:27:0	
622	98	300	16:43:04.466	488DW6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,711,615:45:0	
623	98	300	18:00:45.800	488DW6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,711,692:30:0	
624	98	300	23:18:37.733	488DX6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,712,006:64:0	
625	98	301	01:03:09.733	488DX6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,712,110:08:0	
626	98	301	01:16:10.400	488DX6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,712,122:87:0	
627	98	301	01:24:29.733	488DX6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,712,131:17:0	
628	98	301	03:02:08.400	488DX6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,712,227:69:0	
629	98	301	07:52:45.733	488DY6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,712,515:17:0	
630	98	301	08:51:41.733	488DY6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,712,573:43:0	
631	98	301	08:52:29.733	488DY6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,712,574:24:0	
632	98	301	09:01:01.733	488DY6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,712,582:64:0	
633	98	301	16:57:58.400	488DZ6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,713,054:37:0	
634	98	301	18:10:01.733	488DZ6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,713,125:61:0	
635	98	301	18:39:07.733	488DZ6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,713,154:41:0	
636	98	302	00:26:53.733	488EA6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,713,498:36:0	
637	98	302	01:21:04.400	488EA6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,713,551:89:0	
638	98	302	01:30:53.733	488EA6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,713,561:63:0	
639	98	302	03:42:03.066	488EA6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,713,691:37:0	
640	98	302	07:52:45.666	488EB6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,713,939:33:0	
641	98	302	08:51:38.333	488EB6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,713,997:54:0	
642	98	302	08:52:29.666	488EB6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,713,998:40:0	
643	98	302	15:39:40.333	488EC6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,714,401:13:0	
644	98	302	16:01:17.666	488EC6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,714,422:48:0	
645	98	302	17:35:09.666	488EC6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,714,515:33:0	
646	98	302	23:27:09.666	488ED6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,714,863:45:0	
647	98	303	00:26:53.666	488ED6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,714,922:52:0	
648	**98**	**303**	**06:00:03.000**	**17NNRCTRLT01-**		**-----START------**		**4O0**	**4**	**0**	**: :**	
649	98	303	06:00:03.000	41XE99A	**POWER**	**PWR MODE change**	Change to Calib/Decon Mode	4O0	4	0	4,715,252:06:0	
650	**98**	**303**	**06:00:07.000**	**41XE3I**	**40T1PR**		**1 PCT Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**4,715,252:12:0**	
651	**98**	**303**	**06:00:17.000**	**41XE3J**	**40T1PR**		**2 PCT Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**4,715,252:27:0**	
652	**98**	**303**	**06:00:27.000**	**41XE3K**	**40T2R**		**1 PCT Heater 2 OFF**	**4O0**	**4**	**0**	**4,715,252:42:0**	
653	**98**	**303**	**06:00:37.000**	**41XE3L**	**40T2R**		**2 PCT Heater 2 OFF**	**4O0**	**4**	**0**	**4,715,252:57:0**	
654	98	303	06:11:06.333	176XU6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	4O0	4	0	4,715,263:00:0	
655	98	303	06:14:12.333	20XE4A	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	4O0	4	0	4,715,266:06:0	
656	98	303	06:18:19.000	20DA4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	4O0	4	0	4,715,270:12:0	
657	98	303	06:19:09.000	20DA4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,715,270:87:0	
658	98	303	06:21:13.000	176XV6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	4,715,273:00:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
659	**98**	**303**	**06:22:13.666**	**185XE10A3A**	**40HRP**	**1**	**RCT Heater ON (primary relay)**	**4O0**	**4**	**0**	**4,715,274:00:0**
660	**98**	**303**	**06:22:19.000**	**185XE10B3A**	**40HRP**	**2**	**RCT Heater ON (primary relay)**	**4O0**	**4**	**0**	**4,715,274:08:0**
661	98	303	07:52:45.666	488EE6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,715,363:49:0
662	98	303	08:46:49.666	488EE6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,715,417:01:0
663	98	303	08:48:13.666	488EE6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,715,418:36:0
664	98	303	15:39:34.266	488EF6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,715,825:20:0
665	98	303	15:54:53.600	488EF6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,715,840:34:0
666	98	303	17:20:13.600	488EF6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,715,924:70:0
667	98	303	18:17:00.266	125XE	NIMSINIT	GS	##### GROUP START INIT	4O0	4	0	4,715,980:84:0
668	**98**	**303**	**18:17:00.266**	**125XE4A**	**37IST**	**1,0,0,OFF,0,0,0**	**Chopper ON, Sync, 63Hz (Ref)**	**460**	**4**	**0**	**4,715,980:84:0**
669	**98**	**303**	**18:18:00.933**	**125XE4B**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**4R0**	**4**	**0**	**4,715,981:84:0**
670	**98**	**303**	**18:19:01.600**	**125XE4C**	**37IST**	**0,2,0,OFF,0,1,3**	**Gain State 1**	**1R0**	**4**	**0**	**4,715,982:84:0**
671	98	303	18:20:02.266	125XE11A	NIMSINIT	GE	##### GROUP END INIT	1R0	4	0	4,715,983:84:0
672	**98**	**303**	**18:20:02.266**	**125XE4D**	**37MB**	**1B,1B,0,0,0,0**	**Selects mirror (spatial) edit table**	**1R0**	**4**	**0**	**4,715,983:84:0**
673	98	303	18:22:03.600	127XE	NIMSTAB	GS	%%%%% GROUP START TAB	1R0	4	0	4,715,985:84:0
674	**98**	**303**	**18:22:03.600**	**127XE4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**1R3**	**4**	**0**	**4,715,985:84:0**
675	**98**	**303**	**18:22:04.266**	**127XE4B**	**37ETB**	**0A,CA,18,03,FF,1**	**Loads wavelength edit table**	**1R3**	**4**	**0**	**4,715,985:85:0**
676	98	303	18:22:12.266	127XE11A	NIMSTAB	GE	%%%%% GROUP END TAB	1R3	4	0	4,715,986:06:0
677	98	303	18:26:10.933	176XE6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	1R3	4	0	4,715,990:00:0
678	98	303	18:32:14.933	192XE4A	**7CONE**	**17.0,119.7**	Check S/P Position	1R3	4	0	4,715,996:00:0
679	**98**	**303**	**18:34:36.266**	**432XE6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**	**NIMS R/T SELECT**	**1R3**	**4**	**0**	**4,715,998:30:0**
680	**98**	**303**	**18:35:35.600**	**432XF6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**1R3**	**4**	**0**	**4,715,999:28:0**
681	98	303	18:38:18.933	192XE4B	**7CONE**	**17.0,0.0**	Check S/P Position	1R3	4	0	4,716,002:00:0
682	**98**	**303**	**18:40:40.266**	**432XU6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**	**NIMS R/T SELECT**	**1R3**	**4**	**0**	**4,716,004:30:0**
683	**98**	**303**	**18:42:40.266**	**432XV6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**1R3**	**4**	**0**	**4,716,006:28:0**
684	98	303	18:44:22.933	192XE4C	**7CONE**	**17.0,119.7**	Check S/P Position	1R3	4	0	4,716,008:00:0
685	**98**	**303**	**18:46:24.266**	**185XE10C3A**	**40HRPR**	**1**	**RCT Heater OFF (primary relay)**	**1R3**	**4**	**0**	**4,716,010:00:0**
686	**98**	**303**	**18:46:29.600**	**185XE10D3A**	**40HRPR**	**2**	**RCT Heater OFF (primary relay)**	**1R3**	**4**	**0**	**4,716,010:08:0**
687	**98**	**303**	**18:46:44.266**	**432XW6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**	**NIMS R/T SELECT**	**1R3**	**4**	**0**	**4,716,010:30:0**
688	**98**	**303**	**18:47:43.600**	**432XY6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**1R3**	**4**	**0**	**4,716,011:28:0**
689	98	303	18:49:21.600	125DC11A	NIMSINIT	GE	##### GROUP END INIT	1R3	4	0	4,716,012:84:0
690	98	303	18:49:21.600	125DC	NIMSINIT	GS	##### GROUP START INIT	1R3	4	0	4,716,012:84:0
691	**98**	**303**	**18:49:21.600**	**125DC4A**	**37IST**	**0,2,0,OFF,0,1,1**	**Gain State 4**	**4R3**	**4**	**0**	**4,716,012:84:0**
692	98	303	18:50:22.266	127DC	NIMSTAB	GS	%%%%% GROUP START TAB	4R3	4	0	4,716,013:84:0
693	**98**	**303**	**18:50:22.266**	**127DC4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**4R3**	**4**	**0**	**4,716,013:84:0**
694	**98**	**303**	**18:50:22.933**	**127DC4B**	**37ETB**	**07,C7,31,80,00,0**	**Loads wavelength edit table**	**4R3**	**4**	**0**	**4,716,013:85:0**
695	98	303	18:50:26.933	192XE4D	**7CONE**	**17.0,153.0**	Check S/P Position	4R3	4	0	4,716,014:00:0
696	98	303	18:50:30.933	127DC11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	4,716,014:06:0
697	**98**	**303**	**18:50:46.933**	**432DC6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**	**NIMS R/T SELECT**	**4R3**	**4**	**0**	**4,716,014:30:0**
698	98	303	18:51:22.933	125DD	NIMSINIT	GS	##### GROUP START INIT	4R3	4	0	4,716,014:84:0
699	98	303	18:51:22.933	125DD11A	NIMSINIT	GE	##### GROUP END INIT	4R3	4	0	4,716,014:84:0
700	**98**	**303**	**18:51:22.933**	**125DD4A**	**37IST**	**0,2,1,OFF,1,0,1**	**OPCAL**	**4R3**	**4**	**0**	**4,716,014:84:0**
701	98	303	18:53:24.266	125DE	NIMSINIT	GS	##### GROUP START INIT	4R3	4	0	4,716,016:84:0
702	98	303	18:53:24.266	125DE11A	NIMSINIT	GE	##### GROUP END INIT	4R3	4	0	4,716,016:84:0
703	**98**	**303**	**18:53:24.266**	**125DE4A**	**37IST**	**0,2,1,OFF,1,0,1**	**OPCAL**	**4R3**	**4**	**0**	**4,716,016:84:0**
704	**98**	**303**	**18:53:47.600**	**432DE6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**4R3**	**4**	**0**	**4,716,017:28:0**
705	**98**	**303**	**18:57:26.933**	**127XF4A**	**37IOP**	**0,0**	**Safe, Grating Start Position =00**	**4R0**	**4**	**0**	**4,716,020:84:0**
706	98	303	18:57:26.933	127XF	NIMSTAB	GS	%%%%% GROUP START TAB	4R0	4	0	4,716,020:84:0
707	**98**	**303**	**18:57:27.600**	**127XF4B**	**37ETB**	**04,C4,02,00,00**	**Loads wavelength edit table**	**4R0**	**4**	**0**	**4,716,020:85:0**
708	98	303	18:57:35.600	127XF11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R0	4	0	4,716,021:06:0
709	**98**	**303**	**19:00:28.933**	**125XF4A**	**37MB**	**0,0,0,0,0,0**	**Selects mirror (spatial) edit table**	**4R0**	**4**	**0**	**4,716,023:84:0**
710	98	303	19:00:28.933	125XF	NIMSINIT	GS	##### GROUP START INIT	4R0	4	0	4,716,023:84:0
711	**98**	**303**	**19:01:29.600**	**125XF4B**	**37IST**	**1,0,0,OFF,0,0,0**	**Chopper ON, Sync, 63Hz (Ref)**	**460**	**4**	**0**	**4,716,024:84:0**
712	98	303	19:02:30.266	125XF11A	NIMSINIT	GE	##### GROUP END INIT	460	4	0	4,716,025:84:0
713	**98**	**303**	**19:02:30.266**	**125XF4C**	**37IST**	**1,1,0,OFF,0,0,0**	**Chopper OFF, N/A, 63Hz (Ref)**	**4O0**	**4**	**0**	**4,716,025:84:0**

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
714	98	303	19:08:42.933	41XU99A	**POWER**	**PWR MODE change**	Change to Maneuver/Playback Mode	4O0	4	0	4,716,032:06:0	
715	**98**	**303**	**19:10:36.933**	**41XU3G**	**40T1P**		**1 PCT Heater 1 ON (primary relay)**	**4O0**	**4**	**0**	**4,716,033:86:0**	
716	**98**	**303**	**19:10:46.933**	**41XU3H**	**40T1P**		**2 PCT Heater 1 ON (primary relay)**	**4O0**	**4**	**0**	**4,716,034:10:0**	
717	**98**	**303**	**19:10:56.933**	**41XU3I**	**40T2**		**1 PCT Heater 2 ON**	**4O0**	**4**	**0**	**4,716,034:25:0**	
718	**98**	**303**	**19:11:06.933**	**41XU3J**	**40T2**		**2 PCT Heater 2 ON**	**4O0**	**4**	**0**	**4,716,034:40:0**	
719	**98**	**303**	**19:15:47.666**	**17NNRCTRLT01-**		**-----STOP-------**		**4O0**	**4**	**0**	**: :**	
720	98	303	19:18:53.600	20DB4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	4O0	4	0	4,716,042:12:0	
721	98	303	19:19:43.600	20DB4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,716,042:87:0	
722	98	303	19:21:47.600	176XF6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	4,716,045:00:0	
723	98	303	22:46:37.600	488EG6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,716,247:53:0	
724	98	303	23:25:01.600	488EG6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,716,285:51:0	
725	98	304	00:15:14.266	488EG6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,716,335:20:0	
726	98	304	00:44:20.933	488EG6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,716,364:01:0	
727	98	304	01:50:05.600	488EG6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,716,429:03:0	
728	98	304	06:01:49.600	488EH6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,716,678:00:0	
729	98	304	08:22:37.600	488EH6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,716,817:23:0	
730	98	304	08:50:50.933	488EH6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,716,845:15:0	
731	98	304	15:29:29.600	488EI6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,717,239:39:0	
732	98	304	15:50:37.600	488EI6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,717,260:30:0	
733	98	304	17:09:33.600	488EI6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,717,338:36:0	
734	98	304	22:57:17.533	488EJ6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,717,682:28:0	
735	98	304	23:50:37.533	488EJ6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,717,735:05:0	
736	98	305	07:52:45.533	488EK6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,718,211:81:0	
737	98	305	08:41:14.200	488EK6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,718,259:76:0	
738	98	305	08:41:49.533	488EK6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,718,260:38:0	
739	98	305	15:24:23.533	488EL6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,718,658:51:0	
740	98	305	15:44:13.533	488EL6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,718,678:16:0	
741	98	305	17:01:01.533	488EL6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,718,754:12:0	
742	98	305	22:38:05.533	488EM6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,719,087:45:0	
743	98	305	22:59:25.533	488EM6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,719,108:54:0	
744	98	305	23:39:57.533	488EM6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,719,148:62:0	
745	98	306	07:52:45.466	488EN6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,719,636:06:0	
746	98	306	08:37:33.466	488EN6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,719,680:34:0	
747	98	306	08:40:40.133	488EN6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,719,683:41:0	
748	98	306	15:29:17.466	488EO6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,720,087:53:0	
749	98	306	16:20:29.466	488EO6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,720,138:20:0	
750	98	306	16:40:29.466	488EO6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,720,158:00:0	
751	98	306	17:09:35.466	488EO6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,720,186:71:0	
752	98	307	00:20:29.466	488EP6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,720,612:86:0	
753	98	307	00:29:01.466	488EP6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,720,621:35:0	
754	98	307	01:46:54.800	488EP6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,720,698:38:0	
755	98	307	02:13:44.133	488EP6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,720,724:86:0	
756	98	307	07:52:45.466	488EQ6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,721,060:22:0	
757	98	307	08:30:52.800	488EQ6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,721,097:86:0	
758	98	307	08:31:09.466	488EQ6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,721,098:20:0	
759	98	307	08:39:41.466	488EQ6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,721,106:60:0	
760	98	307	16:27:24.733	488ER6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,721,569:22:0	
761	98	307	16:39:41.400	488ER6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,721,581:35:0	
762	98	307	23:37:49.400	488ES6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,721,994:84:0	
763	98	308	00:26:53.400	488ES6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,722,043:41:0	
764	98	308	07:46:21.400	488ET6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,722,478:08:0	
765	98	308	08:28:14.733	488ET6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,722,519:47:0	
766	98	308	08:35:25.400	488ET6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,722,526:56:0	
767	98	308	16:56:26.066	488EU6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,723,022:11:0	
768	98	308	23:37:49.333	488EV6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,723,419:09:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
769	98	309	00:41:49.333	488EV6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,723,482:36:0	
770	98	309	00:55:25.333	488EV6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,723,495:77:0	
771	98	309	01:05:17.333	488EV6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,723,505:55:0	
772	98	309	02:26:23.333	488EV6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,723,585:74:0	
773	98	309	03:42:06.666	488EW6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,723,660:64:0	
774	98	309	04:08:56.000	488EW6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,723,687:21:0	
775	98	309	06:31:41.333	488EW6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,723,828:38:0	
776	98	309	08:07:41.333	488EW6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,723,923:33:0	
777	98	309	08:25:23.333	488EW6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,723,940:79:0	
778	98	309	08:35:25.333	488EX6A	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,723,950:72:0	
779	98	309	15:27:13.333	488EY6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,724,358:06:0	
780	98	309	16:24:45.333	488EY6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,724,414:88:0	
781	98	309	19:05:00.000	488EY6C	6TMSED	NORM,AH6	Sci, Eng, and D/L Chan	4O0	4	0	4,724,573:41:0	
782	98	309	19:08:35.333	176GC6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	4O0	4	0	4,724,577:00:0	
783	98	309	19:34:30.000	20NY4I	**7MODE**	**INT**	AACS INERTIAL MODE	4O0	4	0	4,724,602:57:0	
784	98	309	19:49:30.000	20NY4K	7SLEW	INIT,POS,17.45	Stator movement	4O0	4	0	4,724,617:42:0	
785	98	309	20:01:30.000	20NY4L	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,724,629:30:0	
786	98	309	20:08:30.000	20NY4M	7SLEW	INIT,NEG,17.45	Stator movement	4O0	4	0	4,724,636:23:0	
787	98	309	20:20:30.000	20NY4N	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,724,648:11:0	
788	98	309	20:27:30.000	20NY4O	7SLEW	INIT,POS,4.36	Stator movement	4O0	4	0	4,724,655:04:0	
789	98	309	20:39:30.000	20NY4P	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,724,666:83:0	
790	98	309	20:46:30.000	20NY4Q	7SLEW	INIT,NEG,4.36	Stator movement	4O0	4	0	4,724,673:76:0	
791	98	309	20:58:30.000	20NY4R	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,724,685:64:0	
792	98	309	21:10:30.000	20NY4AH	**7MODE**	**CRU**	AACS CRUISE MODE	4O0	4	0	4,724,697:52:0	
793	98	309	21:24:04.000	20SK4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	4O0	4	0	4,724,710:90:0	
794	98	309	21:24:54.000	20SK4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,724,711:74:0	
795	98	309	21:26:06.000	176GD6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	4,724,713:00:0	
796	98	309	21:28:00.000	488EZ6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,724,714:80:0	
797	98	309	23:37:49.333	488EZ6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,724,843:25:0	
798	98	310	00:26:53.333	488EZ6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,724,891:73:0	
799	98	310	07:42:05.266	488FA6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,725,322:20:0	
800	98	310	08:21:10.600	488FA6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,725,360:80:0	
801	98	310	08:22:37.266	488FA6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,725,362:28:0	
802	98	310	15:13:54.600	488FB6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,725,769:07:0	
803	98	310	15:44:13.266	488FB6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,725,799:05:0	
804	98	310	16:25:52.600	488FB6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,725,840:23:0	
805	98	310	16:54:58.600	488FB6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,725,869:03:0	
806	98	310	19:15:25.266	488FB6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,726,007:85:0	
807	98	310	20:36:29.266	488FC6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,726,088:10:0	
808	98	310	23:14:21.266	488FC6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,726,244:22:0	
809	98	310	23:47:17.933	488FC6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,726,276:75:0	
810	98	311	00:14:07.266	488FC6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,726,303:32:0	
811	98	311	07:42:05.266	488FD6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,726,746:36:0	
812	98	311	08:16:13.266	488FD6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,726,780:14:0	
813	98	311	08:20:11.266	488FD6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,726,784:07:0	
814	98	311	14:58:49.200	488FE6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,727,178:30:0	
815	98	311	15:14:21.200	488FE6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,727,193:63:0	
816	98	311	16:14:05.200	488FE6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,727,252:70:0	
817	98	311	17:00:03.866	20CS6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	4O0	4	0	4,727,298:22:0	
818	98	311	18:00:03.866	20CS6B	6TMSED	NORM,BA6	Sci, Eng, and D/L Chan	4O0	4	0	4,727,357:53:0	
819	98	311	18:02:51.866	20CS4H	7VECT	BB1	Inert vect update UTC	4O0	4	0	4,727,360:32:0	
820	98	311	18:02:55.866	20CS4I	7STAT	17.45,258.214,-1	Stator inertial point	4O0	4	0	4,727,360:38:0	
821	98	311	18:08:55.866	20CS4J	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,727,366:32:0	
822	98	311	18:08:59.866	20CS6H	6MROH	7,673E,2,A40	read from AACSA7,673E,2,A40	4O0	4	0	4,727,366:38:0	
823	98	311	18:14:49.866	20CS6I	6MROH	7,673E,2,A40	read from AACSA7,673E,2,A40	4O0	4	0	4,727,372:17:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
824	98	311	18:34:49.866	20CS4L	**7MODE**	**INT**	AACS INERTIAL MODE	4O0	4	0	4,727,391:88:0	
825	98	311	18:36:21.866	20CS6J	6MROH	7,673E,2,A40	read from AACSA7,673E,2,A40	4O0	4	0	4,727,393:44:0	
826	**98**	**311**	**18:52:50.533**	**20CS6L**	**6MCOPY**	**B1B1B,3000,AACSB**	**B1B1B,3000,AACSB,6100,617**	**4O0**	**4**	**0**	**4,727,409:71:0**	
827	**98**	**311**	**18:52:50.533**	**20CS6M**	**6MCOPY**	**B1A1A,5000,B1B2A**	**B1A1A,5000,B1B2A,1877,18A**	**4O0**	**4**	**0**	**4,727,409:71:0**	
828	**98**	**311**	**18:52:51.200**	**20CS6N**	**6MCOPY**	**B1B1B,307A,AACSB**	**B1B1B,307A,AACSB,6100,617**	**4O0**	**4**	**0**	**4,727,409:72:0**	
829	**98**	**311**	**18:52:51.200**	**20CS6O**	**6MCOPY**	**B1A1A,502D,B1B2A**	**B1A1A,502D,B1B2A,15F7,162**	**4O0**	**4**	**0**	**4,727,409:72:0**	
830	98	311	18:52:51.866	20CS4M	7SCAN	NORM,248.952999,	Check S/P Position	4O0	4	0	4,727,409:73:0	
831	**98**	**311**	**18:52:51.866**	**20CS6P**	**6MCOPY**	**B1B1B,30F4,AACSB**	**B1B1B,30F4,AACSB,6100,617**	**4O0**	**4**	**0**	**4,727,409:73:0**	
832	**98**	**311**	**18:52:51.866**	**20CS6Q**	**6MCOPY**	**B1A1A,505A,B1B2A**	**B1A1A,505A,B1B2A,1877,18A**	**4O0**	**4**	**0**	**4,727,409:73:0**	
833	**98**	**311**	**18:52:52.533**	**20CS6R**	**6MCOPY**	**B1B1B,316E,AACSB**	**B1B1B,316E,AACSB,6100,617**	**4O0**	**4**	**0**	**4,727,409:74:0**	
834	**98**	**311**	**18:52:52.533**	**20CS6S**	**6MCOPY**	**B1A1A,5087,B1B2A**	**B1A1A,5087,B1B2A,15F7,162**	**4O0**	**4**	**0**	**4,727,409:74:0**	
835	**98**	**311**	**18:52:53.200**	**20CS6T**	**6MCOPY**	**B1B1B,31E8,AACSB**	**B1B1B,31E8,AACSB,6100,617**	**4O0**	**4**	**0**	**4,727,409:75:0**	
836	**98**	**311**	**18:52:53.200**	**20CS6U**	**6MCOPY**	**B1A1A,50B4,B1B2A**	**B1A1A,50B4,B1B2A,1877,18A**	**4O0**	**4**	**0**	**4,727,409:75:0**	
837	**98**	**311**	**18:52:53.866**	**20CS6V**	**6MCOPY**	**B1B1B,3262,AACSB**	**B1B1B,3262,AACSB,6100,617**	**4O0**	**4**	**0**	**4,727,409:76:0**	
838	**98**	**311**	**18:52:53.866**	**20CS6W**	**6MCOPY**	**B1A1A,50E1,B1B2A**	**B1A1A,50E1,B1B2A,15F7,162**	**4O0**	**4**	**0**	**4,727,409:76:0**	
839	**98**	**311**	**18:52:54.533**	**20CS6Y**	**6MCOPY**	**B1A1A,510E,B1B2A**	**B1A1A,510E,B1B2A,1877,18A**	**4O0**	**4**	**0**	**4,727,409:77:0**	
840	**98**	**311**	**18:52:54.533**	**20CS6X**	**6MCOPY**	**B1B1B,32DC,AACSB**	**B1B1B,32DC,AACSB,6100,617**	**4O0**	**4**	**0**	**4,727,409:77:0**	
841	**98**	**311**	**18:52:55.200**	**20CS6AA**	**6MCOPY**	**B1A1A,513B,B1B2A**	**B1A1A,513B,B1B2A,15F7,162**	**4O0**	**4**	**0**	**4,727,409:78:0**	
842	**98**	**311**	**18:52:55.200**	**20CS6Z**	**6MCOPY**	**B1B1B,3356,AACSB**	**B1B1B,3356,AACSB,6100,617**	**4O0**	**4**	**0**	**4,727,409:78:0**	
843	**98**	**311**	**18:52:55.866**	**20CS6AB**	**6MCOPY**	**B1B1B,33D0,AACSB**	**B1B1B,33D0,AACSB,6100,617**	**4O0**	**4**	**0**	**4,727,409:79:0**	
844	**98**	**311**	**18:52:55.866**	**20CS6AC**	**6MCOPY**	**B1A1A,5168,B1B2A**	**B1A1A,5168,B1B2A,1877,18A**	**4O0**	**4**	**0**	**4,727,409:79:0**	
845	**98**	**311**	**18:52:56.533**	**20CS6AD**	**6MCOPY**	**B1B1B,344A,AACSB**	**B1B1B,344A,AACSB,6100,617**	**4O0**	**4**	**0**	**4,727,409:80:0**	
846	**98**	**311**	**18:52:56.533**	**20CS6AE**	**6MCOPY**	**B1A1A,5195,B1B2A**	**B1A1A,5195,B1B2A,15F7,162**	**4O0**	**4**	**0**	**4,727,409:80:0**	
847	**98**	**311**	**18:52:57.200**	**20CS6AF**	**6MCOPY**	**B1B1B,34C4,AACSB**	**B1B1B,34C4,AACSB,6100,617**	**4O0**	**4**	**0**	**4,727,409:81:0**	
848	**98**	**311**	**18:52:57.200**	**20CS6AG**	**6MCOPY**	**B1A1A,51C2,B1B2A**	**B1A1A,51C2,B1B2A,1877,18A**	**4O0**	**4**	**0**	**4,727,409:81:0**	
849	**98**	**311**	**18:52:57.866**	**20CS6AH**	**6MCOPY**	**B1B1B,353E,AACSB**	**B1B1B,353E,AACSB,6100,617**	**4O0**	**4**	**0**	**4,727,409:82:0**	
850	**98**	**311**	**18:52:57.866**	**20CS6AI**	**6MCOPY**	**B1A1A,51EF,B1B2A**	**B1A1A,51EF,B1B2A,15F7,162**	**4O0**	**4**	**0**	**4,727,409:82:0**	
851	**98**	**311**	**18:52:58.533**	**20CS6AK**	**6MCOPY**	**B1A1A,521C,B1B2A**	**B1A1A,521C,B1B2A,1877,18A**	**4O0**	**4**	**0**	**4,727,409:83:0**	
852	**98**	**311**	**18:52:58.533**	**20CS6AJ**	**6MCOPY**	**B1B1B,35B8,AACSB**	**B1B1B,35B8,AACSB,6100,617**	**4O0**	**4**	**0**	**4,727,409:83:0**	
853	**98**	**311**	**18:52:59.200**	**20CS6AL**	**6MCOPY**	**B1B1B,3632,AACSB**	**B1B1B,3632,AACSB,6100,617**	**4O0**	**4**	**0**	**4,727,409:84:0**	
854	**98**	**311**	**18:52:59.200**	**20CS6AM**	**6MCOPY**	**B1A1A,5249,B1B2A**	**B1A1A,5249,B1B2A,15F7,162**	**4O0**	**4**	**0**	**4,727,409:84:0**	
855	**98**	**311**	**18:52:59.866**	**20CS6AO**	**6MCOPY**	**B1A1A,5276,B1B2A**	**B1A1A,5276,B1B2A,1877,18A**	**4O0**	**4**	**0**	**4,727,409:85:0**	
856	**98**	**311**	**18:52:59.866**	**20CS6AN**	**6MCOPY**	**B1B1B,36AC,AACSB**	**B1B1B,36AC,AACSB,6100,617**	**4O0**	**4**	**0**	**4,727,409:85:0**	
857	**98**	**311**	**18:53:00.533**	**20CS6AP**	**6MCOPY**	**B1B1B,3726,AACSB**	**B1B1B,3726,AACSB,6100,617**	**4O0**	**4**	**0**	**4,727,409:86:0**	
858	**98**	**311**	**18:53:00.533**	**20CS6AQ**	**6MCOPY**	**B1A1A,52A3,B1B2A**	**B1A1A,52A3,B1B2A,15F7,162**	**4O0**	**4**	**0**	**4,727,409:86:0**	
859	**98**	**311**	**18:53:01.200**	**20CS6AR**	**6MCOPY**	**B1B1B,37A0,AACSB**	**B1B1B,37A0,AACSB,6100,617**	**4O0**	**4**	**0**	**4,727,409:87:0**	
860	**98**	**311**	**18:53:01.200**	**20CS6AS**	**6MCOPY**	**B1A1A,52D0,B1B2A**	**B1A1A,52D0,B1B2A,1877,18A**	**4O0**	**4**	**0**	**4,727,409:87:0**	
861	**98**	**311**	**18:53:01.866**	**20CS6AT**	**6MCOPY**	**B1B1B,381A,AACSB**	**B1B1B,381A,AACSB,6100,617**	**4O0**	**4**	**0**	**4,727,409:88:0**	
862	**98**	**311**	**18:53:01.866**	**20CS6AU**	**6MCOPY**	**B1A1A,52FD,B1B2A**	**B1A1A,52FD,B1B2A,15F7,162**	**4O0**	**4**	**0**	**4,727,409:88:0**	
863	**98**	**311**	**18:53:02.533**	**20CS6AV**	**6MCOPY**	**B1B1B,3894,AACSB**	**B1B1B,3894,AACSB,6100,617**	**4O0**	**4**	**0**	**4,727,409:89:0**	
864	**98**	**311**	**18:53:02.533**	**20CS6AW**	**6MCOPY**	**B1A1A,532A,B1B2A**	**B1A1A,532A,B1B2A,1877,18A**	**4O0**	**4**	**0**	**4,727,409:89:0**	
865	**98**	**311**	**18:53:03.200**	**20CS6AX**	**6MCOPY**	**B1B1B,390E,AACSB**	**B1B1B,390E,AACSB,6100,617**	**4O0**	**4**	**0**	**4,727,409:90:0**	
866	**98**	**311**	**18:53:03.200**	**20CS6AY**	**6MCOPY**	**B1A1A,5357,B1B2A**	**B1A1A,5357,B1B2A,15F7,162**	**4O0**	**4**	**0**	**4,727,409:90:0**	
867	**98**	**311**	**18:53:03.866**	**20CS6AZ**	**6MCOPY**	**B1B1B,3988,AACSB**	**B1B1B,3988,AACSB,6100,617**	**4O0**	**4**	**0**	**4,727,410:00:0**	
868	**98**	**311**	**18:53:03.866**	**20CS6BA**	**6MCOPY**	**B1A1A,5384,B1B2A**	**B1A1A,5384,B1B2A,1877,18A**	**4O0**	**4**	**0**	**4,727,410:00:0**	
869	**98**	**311**	**18:53:04.533**	**20CS6BB**	**6MCOPY**	**B1B1B,3A02,AACSB**	**B1B1B,3A02,AACSB,6100,617**	**4O0**	**4**	**0**	**4,727,410:01:0**	
870	**98**	**311**	**18:53:04.533**	**20CS6BC**	**6MCOPY**	**B1A1A,53B1,B1B2A**	**B1A1A,53B1,B1B2A,15F7,162**	**4O0**	**4**	**0**	**4,727,410:01:0**	
871	**98**	**311**	**18:53:05.200**	**20CS6BD**	**6MCOPY**	**B1B1B,3A7C,AACSB**	**B1B1B,3A7C,AACSB,6100,617**	**4O0**	**4**	**0**	**4,727,410:02:0**	
872	**98**	**311**	**18:53:05.200**	**20CS6BE**	**6MCOPY**	**B1A1A,53DE,B1B2A**	**B1A1A,53DE,B1B2A,1877,18A**	**4O0**	**4**	**0**	**4,727,410:02:0**	
873	**98**	**311**	**18:53:05.866**	**20CS6BF**	**6MCOPY**	**B1B1B,3AF6,AACSB**	**B1B1B,3AF6,AACSB,6100,617**	**4O0**	**4**	**0**	**4,727,410:03:0**	
874	**98**	**311**	**18:53:05.866**	**20CS6BG**	**6MCOPY**	**B1A1A,540B,B1B2A**	**B1A1A,540B,B1B2A,15F7,162**	**4O0**	**4**	**0**	**4,727,410:03:0**	
875	**98**	**311**	**18:53:06.533**	**20CS6BH**	**6MCOPY**	**B1B1B,3B70,AACSB**	**B1B1B,3B70,AACSB,6100,617**	**4O0**	**4**	**0**	**4,727,410:04:0**	
876	**98**	**311**	**18:53:06.533**	**20CS6BI**	**6MCOPY**	**B1A1A,5438,B1B2A**	**B1A1A,5438,B1B2A,1877,18A**	**4O0**	**4**	**0**	**4,727,410:04:0**	
877	**98**	**311**	**18:53:07.200**	**20CS6BJ**	**6MCOPY**	**B1B1B,3BEA,AACSB**	**B1B1B,3BEA,AACSB,6100,617**	**4O0**	**4**	**0**	**4,727,410:05:0**	
878	**98**	**311**	**18:53:07.200**	**20CS6BK**	**6MCOPY**	**B1A1A,5465,B1B2A**	**B1A1A,5465,B1B2A,15F7,162**	**4O0**	**4**	**0**	**4,727,410:05:0**	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
879	**98**	**311**	**18:53:07.866**	**20CS6BL**	**6MCOPY**	**B1B1B,3C64,AACSB**	**B1B1B,3C64,AACSB,6100,617**	**4O0**	**4**	**0**	**4,727,410:06:0**	
880	**98**	**311**	**18:53:07.866**	**20CS6BM**	**6MCOPY**	**B1A1A,5492,B1B2A**	**B1A1A,5492,B1B2A,1877,18A**	**4O0**	**4**	**0**	**4,727,410:06:0**	
881	**98**	**311**	**18:53:08.533**	**20CS6BN**	**6MCOPY**	**B1B1B,3CDE,AACSB**	**B1B1B,3CDE,AACSB,6100,617**	**4O0**	**4**	**0**	**4,727,410:07:0**	
882	**98**	**311**	**18:53:08.533**	**20CS6BO**	**6MCOPY**	**B1A1A,54BF,B1B2A**	**B1A1A,54BF,B1B2A,15F7,162**	**4O0**	**4**	**0**	**4,727,410:07:0**	
883	**98**	**311**	**18:53:09.200**	**20CS6BP**	**6MCOPY**	**B1B1B,3D58,AACSB**	**B1B1B,3D58,AACSB,6100,617**	**4O0**	**4**	**0**	**4,727,410:08:0**	
884	**98**	**311**	**18:53:09.200**	**20CS6BQ**	**6MCOPY**	**B1A1A,54EC,B1B2A**	**B1A1A,54EC,B1B2A,1877,18A**	**4O0**	**4**	**0**	**4,727,410:08:0**	
885	**98**	**311**	**18:53:09.866**	**20CS6BR**	**6MCOPY**	**B1B1B,3DD2,AACSB**	**B1B1B,3DD2,AACSB,6100,617**	**4O0**	**4**	**0**	**4,727,410:09:0**	
886	**98**	**311**	**18:53:09.866**	**20CS6BS**	**6MCOPY**	**B1A1A,5519,B1B2A**	**B1A1A,5519,B1B2A,15F7,162**	**4O0**	**4**	**0**	**4,727,410:09:0**	
887	**98**	**311**	**18:53:10.533**	**20CS6BT**	**6MCOPY**	**B1B1B,3E4C,AACSB**	**B1B1B,3E4C,AACSB,6100,617**	**4O0**	**4**	**0**	**4,727,410:10:0**	
888	**98**	**311**	**18:53:10.533**	**20CS6BU**	**6MCOPY**	**B1A1A,5546,B1B2A**	**B1A1A,5546,B1B2A,1877,18A**	**4O0**	**4**	**0**	**4,727,410:10:0**	
889	**98**	**311**	**18:53:11.200**	**20CS6BV**	**6MCOPY**	**B1B1B,3EC6,AACSB**	**B1B1B,3EC6,AACSB,6100,617**	**4O0**	**4**	**0**	**4,727,410:11:0**	
890	**98**	**311**	**18:53:11.200**	**20CS6BW**	**6MCOPY**	**B1A1A,5573,B1B2A**	**B1A1A,5573,B1B2A,15F7,162**	**4O0**	**4**	**0**	**4,727,410:11:0**	
891	**98**	**311**	**18:53:11.866**	**20CS6BX**	**6MCOPY**	**B1B1B,3F40,AACSB**	**B1B1B,3F40,AACSB,6100,617**	**4O0**	**4**	**0**	**4,727,410:12:0**	
892	**98**	**311**	**18:53:11.866**	**20CS6BY**	**6MCOPY**	**B1A1A,55A0,B1B2A**	**B1A1A,55A0,B1B2A,1877,18A**	**4O0**	**4**	**0**	**4,727,410:12:0**	
893	**98**	**311**	**18:53:12.533**	**20CS6BZ**	**6MCOPY**	**B1B1B,3FBA,AACSB**	**B1B1B,3FBA,AACSB,6100,617**	**4O0**	**4**	**0**	**4,727,410:13:0**	
894	**98**	**311**	**18:53:12.533**	**20CS6CA**	**6MCOPY**	**B1A1A,55CD,B1B2A**	**B1A1A,55CD,B1B2A,15F7,162**	**4O0**	**4**	**0**	**4,727,410:13:0**	
895	**98**	**311**	**18:53:13.200**	**20CS6CB**	**6MCOPY**	**B1B1B,4034,AACSB**	**B1B1B,4034,AACSB,6100,617**	**4O0**	**4**	**0**	**4,727,410:14:0**	
896	**98**	**311**	**18:53:13.200**	**20CS6CC**	**6MCOPY**	**B1A1A,55FA,B1B2A**	**B1A1A,55FA,B1B2A,1877,18A**	**4O0**	**4**	**0**	**4,727,410:14:0**	
897	**98**	**311**	**18:53:13.866**	**20CS6CD**	**6MCOPY**	**B1B1B,40AE,AACSB**	**B1B1B,40AE,AACSB,6100,617**	**4O0**	**4**	**0**	**4,727,410:15:0**	
898	**98**	**311**	**18:53:13.866**	**20CS6CE**	**6MCOPY**	**B1A1A,5627,B1B2A**	**B1A1A,5627,B1B2A,15F7,162**	**4O0**	**4**	**0**	**4,727,410:15:0**	
899	**98**	**311**	**18:53:14.533**	**20CS6CF**	**6MCOPY**	**B1B1B,4128,AACSB**	**B1B1B,4128,AACSB,6100,617**	**4O0**	**4**	**0**	**4,727,410:16:0**	
900	**98**	**311**	**18:53:14.533**	**20CS6CG**	**6MCOPY**	**B1A1A,5654,B1B2A**	**B1A1A,5654,B1B2A,1877,18A**	**4O0**	**4**	**0**	**4,727,410:16:0**	
901	**98**	**311**	**18:53:15.200**	**20CS6CH**	**6MCOPY**	**B1B1B,41A2,AACSB**	**B1B1B,41A2,AACSB,6100,617**	**4O0**	**4**	**0**	**4,727,410:17:0**	
902	**98**	**311**	**18:53:15.200**	**20CS6CI**	**6MCOPY**	**B1A1A,5681,B1B2A**	**B1A1A,5681,B1B2A,15F7,162**	**4O0**	**4**	**0**	**4,727,410:17:0**	
903	**98**	**311**	**18:53:15.866**	**20CS6CJ**	**6MCOPY**	**B1B1B,421C,AACSB**	**B1B1B,421C,AACSB,6100,617**	**4O0**	**4**	**0**	**4,727,410:18:0**	
904	**98**	**311**	**18:53:15.866**	**20CS6CK**	**6MCOPY**	**B1A1A,56AE,B1B2A**	**B1A1A,56AE,B1B2A,1877,18A**	**4O0**	**4**	**0**	**4,727,410:18:0**	
905	**98**	**311**	**18:53:16.533**	**20CS6CL**	**6MCOPY**	**B1B1B,4296,AACSB**	**B1B1B,4296,AACSB,6100,617**	**4O0**	**4**	**0**	**4,727,410:19:0**	
906	**98**	**311**	**18:53:16.533**	**20CS6CM**	**6MCOPY**	**B1A1A,56DB,B1B2A**	**B1A1A,56DB,B1B2A,15F7,162**	**4O0**	**4**	**0**	**4,727,410:19:0**	
907	**98**	**311**	**18:53:17.200**	**20CS6CO**	**6MCOPY**	**B1A1A,5708,B1B2A**	**B1A1A,5708,B1B2A,1877,18A**	**4O0**	**4**	**0**	**4,727,410:20:0**	
908	**98**	**311**	**18:53:17.200**	**20CS6CN**	**6MCOPY**	**B1B1B,4310,AACSB**	**B1B1B,4310,AACSB,6100,617**	**4O0**	**4**	**0**	**4,727,410:20:0**	
909	**98**	**311**	**18:53:17.866**	**20CS6CP**	**6MCOPY**	**B1B1B,438A,AACSB**	**B1B1B,438A,AACSB,6100,617**	**4O0**	**4**	**0**	**4,727,410:21:0**	
910	**98**	**311**	**18:53:17.866**	**20CS6CQ**	**6MCOPY**	**B1A1A,5735,B1B2A**	**B1A1A,5735,B1B2A,15F7,162**	**4O0**	**4**	**0**	**4,727,410:21:0**	
911	**98**	**311**	**18:53:18.533**	**20CS6CR**	**6MCOPY**	**B1B1B,4404,AACSB**	**B1B1B,4404,AACSB,6100,617**	**4O0**	**4**	**0**	**4,727,410:22:0**	
912	**98**	**311**	**18:53:18.533**	**20CS6CS**	**6MCOPY**	**B1A1A,5762,B1B2A**	**B1A1A,5762,B1B2A,1877,18A**	**4O0**	**4**	**0**	**4,727,410:22:0**	
913	98	311	18:56:51.866	20CS4N	**7MODE**	**CRU**	AACS CRUISE MODE	4O0	4	0	4,727,413:69:0	
914	**98**	**311**	**18:57:50.533**	**20CS6CV**	**6MCOPY**	**B1A1A,578F,B1B2A**	**B1A1A,578F,B1B2A,15F7,162**	**4O0**	**4**	**0**	**4,727,414:66:0**	
915	**98**	**311**	**18:57:50.533**	**20CS6CU**	**6MCOPY**	**B1B1B,447E,AACSB**	**B1B1B,447E,AACSB,6100,617**	**4O0**	**4**	**0**	**4,727,414:66:0**	
916	**98**	**311**	**18:57:51.200**	**20CS6CW**	**6MCOPY**	**B1B1B,44F8,AACSB**	**B1B1B,44F8,AACSB,6100,617**	**4O0**	**4**	**0**	**4,727,414:67:0**	
917	**98**	**311**	**18:57:51.200**	**20CS6CX**	**6MCOPY**	**B1A1A,57BC,B1B2A**	**B1A1A,57BC,B1B2A,1877,18A**	**4O0**	**4**	**0**	**4,727,414:67:0**	
918	98	311	18:57:51.866	20CS4O	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	4O0	4	0	4,727,414:68:0	
919	**98**	**311**	**18:57:51.866**	**20CS6CZ**	**6MCOPY**	**B1A1A,57E9,B1B2A**	**B1A1A,57E9,B1B2A,15F7,162**	**4O0**	**4**	**0**	**4,727,414:68:0**	
920	**98**	**311**	**18:57:51.866**	**20CS6CY**	**6MCOPY**	**B1B1B,4572,AACSB**	**B1B1B,4572,AACSB,6100,617**	**4O0**	**4**	**0**	**4,727,414:68:0**	
921	**98**	**311**	**18:57:52.533**	**20CS6DB**	**6MCOPY**	**B1A1A,5816,B1B2A**	**B1A1A,5816,B1B2A,1877,18A**	**4O0**	**4**	**0**	**4,727,414:69:0**	
922	**98**	**311**	**18:57:52.533**	**20CS6DA**	**6MCOPY**	**B1B1B,45EC,AACSB**	**B1B1B,45EC,AACSB,6100,617**	**4O0**	**4**	**0**	**4,727,414:69:0**	
923	**98**	**311**	**18:57:53.200**	**20CS6DC**	**6MCOPY**	**B1B1B,4666,AACSB**	**B1B1B,4666,AACSB,6100,617**	**4O0**	**4**	**0**	**4,727,414:70:0**	
924	**98**	**311**	**18:57:53.200**	**20CS6DD**	**6MCOPY**	**B1A1A,5843,B1B2A**	**B1A1A,5843,B1B2A,15F7,162**	**4O0**	**4**	**0**	**4,727,414:70:0**	
925	**98**	**311**	**18:57:53.866**	**20CS6DE**	**6MCOPY**	**B1B1B,46E0,AACSB**	**B1B1B,46E0,AACSB,6100,617**	**4O0**	**4**	**0**	**4,727,414:71:0**	
926	**98**	**311**	**18:57:53.866**	**20CS6DF**	**6MCOPY**	**B1A1A,5870,B1B2A**	**B1A1A,5870,B1B2A,1877,18A**	**4O0**	**4**	**0**	**4,727,414:71:0**	
927	**98**	**311**	**18:57:54.533**	**20CS6DH**	**6MCOPY**	**B1A1A,589D,B1B2A**	**B1A1A,589D,B1B2A,15F7,162**	**4O0**	**4**	**0**	**4,727,414:72:0**	
928	**98**	**311**	**18:57:54.533**	**20CS6DG**	**6MCOPY**	**B1B1B,475A,AACSB**	**B1B1B,475A,AACSB,6100,617**	**4O0**	**4**	**0**	**4,727,414:72:0**	
929	**98**	**311**	**18:57:55.200**	**20CS6DI**	**6MCOPY**	**B1B1B,47D4,AACSB**	**B1B1B,47D4,AACSB,6100,617**	**4O0**	**4**	**0**	**4,727,414:73:0**	
930	98	311	19:02:00.533	20CS4T	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,727,418:77:0	
931	98	311	19:02:55.200	20CS4Q	7STAR	11,338,218.95	Star catalog update	4O0	4	0	4,727,419:68:0	
932	98	311	19:05:43.200	20CS6DO	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	4,727,422:47:0	
933	98	311	19:05:47.200	20CS6DP	6MROH	7,6F96,2,A40	read from AACSA7,6F96,2,A40	4O0	4	0	4,727,422:53:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
934	98	311	19:06:47.200	20CS6DQ	6MROH	B1B2A,3000,194,A	read fromB1B2A,3000,1	4O0	4	0	4,727,423:52:0	
935	98	311	20:11:47.200	20CS6DR	6MROH	B1A2B,5000,71,B4	read fromB1A2B,5000,7	4O0	4	0	4,727,487:78:0	
936	98	311	20:36:47.200	20CS6DS	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,727,512:53:0	
937	98	311	22:27:25.200	488FF6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,727,622:00:0	
938	98	311	23:10:05.200	488FF6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,727,664:18:0	
939	98	312	07:35:41.200	488FG6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,728,164:22:0	
940	98	312	08:12:14.533	488FG6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,728,200:36:0	
941	98	312	08:16:13.200	488FG6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,728,204:30:0	
942	98	312	14:53:43.200	488FH6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,728,597:42:0	
943	98	312	15:10:05.200	488FH6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,728,613:59:0	
944	98	312	16:09:49.200	488FH6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,728,672:66:0	
945	98	312	22:12:29.133	488FI6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,729,031:37:0	
946	98	312	22:29:33.133	488FI6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,729,048:26:0	
947	98	312	23:03:41.133	488FI6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,729,082:04:0	
948	98	313	05:34:08.466	488FJ6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,729,468:19:0	
949	98	313	05:40:59.133	488FJ6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,729,474:89:0	
950	98	313	05:59:41.133	488FJ6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,729,493:43:0	
951	98	313	13:06:21.133	488FK6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,729,915:41:0	
952	98	313	14:42:21.133	488FK6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,730,010:36:0	
953	98	313	14:57:17.133	488FK6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,730,025:15:0	
954	98	313	14:57:53.800	488FK6D	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,730,025:70:0	
955	98	313	15:18:37.133	488FK6E	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,730,046:24:0	
956	98	313	17:26:49.800	488FL6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,730,173:06:0	
957	98	313	18:41:10.466	488FL6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,730,246:54:0	
958	98	313	19:02:37.133	488FL6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,730,267:73:0	
959	98	313	19:08:26.466	488FL6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,730,273:51:0	
960	98	313	20:36:29.133	488FL6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,730,360:58:0	
961	98	313	22:59:25.133	488FM6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,730,502:00:0	
962	98	313	23:32:34.466	488FM6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,730,534:72:0	
963	98	313	23:59:24.466	488FM6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,730,561:30:0	
964	98	314	04:09:04.400	488FM6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,730,808:23:0	
965	98	314	05:40:53.066	488FN6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,730,899:05:0	
966	98	314	05:53:17.066	488FN6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,730,911:29:0	
967	98	314	13:02:05.066	488FO6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,731,335:37:0	
968	98	314	14:35:57.066	488FO6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,731,428:22:0	
969	98	314	14:46:37.066	488FO6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,731,438:72:0	
970	98	314	15:03:41.066	488FO6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,731,455:61:0	
971	98	314	16:03:25.066	488FO6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,731,514:68:0	
972	98	314	23:16:29.066	488FP6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,731,943:05:0	
973	98	315	00:16:13.066	488FP6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,732,002:12:0	
974	98	315	00:19:50.400	488FP6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,732,005:65:0	
975	98	315	00:29:01.066	488FP6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,732,014:72:0	
976	98	315	04:11:41.733	488FP6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,732,235:02:0	
977	98	315	04:23:41.066	488FQ6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,732,246:80:0	
978	98	315	05:49:01.066	488FQ6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,732,331:25:0	
979	98	315	09:50:03.733	488FQ6C	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,732,569:61:0	
980	98	315	09:52:13.066	488FQ6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,732,571:73:0	
981	98	315	16:56:38.333	488FR6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,732,991:51:0	
982	98	315	18:11:22.333	488FR6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,733,065:43:0	
983	98	315	18:40:28.333	488FR6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,733,094:23:0	
984	98	315	18:54:05.000	488FR6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,733,107:65:0	
985	98	315	20:17:17.000	488FR6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,733,190:00:0	
986	98	315	23:46:21.000	488FS6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,733,396:70:0	
987	98	316	00:24:44.333	488FS6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,733,434:67:0	
988	98	316	00:33:17.000	488FS6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,733,443:17:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
989	98	316	04:06:35.666	488FS6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,733,654:14:0	
990	98	316	04:19:25.000	488FS6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,733,666:76:0	
991	98	316	05:49:01.000	488FT6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,733,755:41:0	
992	98	316	12:55:41.000	488FU6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,734,177:39:0	
993	98	316	14:25:17.000	488FU6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,734,266:04:0	
994	98	316	14:46:37.000	488FU6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,734,287:13:0	
995	98	316	14:47:19.000	488FU6D	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,734,287:76:0	
996	98	316	14:57:17.000	488FU6E	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	4,734,297:63:0	
997	98	316	15:33:33.000	488FV6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,734,333:51:0	
998	98	316	16:55:39.000	488FV6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,734,414:69:0	
999	98	316	18:57:13.600	176SX6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	4O0	4	0	4,734,535:00:0	
1000	98	316	18:58:00.266	488FV6C	6TMSED	NORM,BA6	Sci, Eng, and D/L Chan	4O0	4	0	4,734,535:70:0	
1001	98	316	19:02:00.266	20US4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,734,539:66:0	
1002	98	316	19:03:00.266	20US4D	**7MODE**	**SPNL**	AACS ALL-SPIN LOW	4O0	4	0	4,734,540:65:0	
1003	98	316	19:05:00.266	20US4E	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	4O0	4	0	4,734,542:63:0	
1004	98	316	19:10:30.266	20US4G	7VENT	0.611,1.333,8	ALERT -- Thruster fire	4O0	4	0	4,734,548:12:0	
1005	98	316	19:10:30.933	20US4H	7VENT	0.611,10.989,8	ALERT -- Thruster fire	4O0	4	0	4,734,548:13:0	
1006	98	316	19:10:50.933	20US4I	7VENT	0.611,1.333,6	ALERT -- Thruster fire	4O0	4	0	4,734,548:43:0	
1007	98	316	19:10:51.600	20US4J	7VENT	0.611,10.989,6	ALERT -- Thruster fire	4O0	4	0	4,734,548:44:0	
1008	98	316	19:11:11.600	20US4K	7VENT	0.611,1.333,4	ALERT -- Thruster fire	4O0	4	0	4,734,548:74:0	
1009	98	316	19:11:12.266	20US4L	7VENT	0.611,0.666,5	ALERT -- Thruster fire	4O0	4	0	4,734,548:75:0	
1010	98	316	19:11:22.266	20US4M	7VENT	0.611,1.333,4	ALERT -- Thruster fire	4O0	4	0	4,734,548:90:0	
1011	98	316	19:11:22.933	20US4N	7VENT	0.611,0.666,5	ALERT -- Thruster fire	4O0	4	0	4,734,549:00:0	
1012	98	316	19:11:32.933	20US4O	7VENT	1.211,1.333,10	ALERT -- Thruster fire	4O0	4	0	4,734,549:15:0	
1013	98	316	19:11:33.600	20US4P	7VENT	1.211,0.666,12	ALERT -- Thruster fire	4O0	4	0	4,734,549:16:0	
1014	98	316	19:13:20.266	20US4S	7VENT	0.611,1.333,7	ALERT -- Thruster fire	4O0	4	0	4,734,550:85:0	
1015	98	316	19:13:20.933	20US4T	7VENT	0.611,10.989,7	ALERT -- Thruster fire	4O0	4	0	4,734,550:86:0	
1016	98	316	19:13:40.933	20US4U	7VENT	0.611,1.333,1	ALERT -- Thruster fire	4O0	4	0	4,734,551:25:0	
1017	98	316	19:13:41.600	20US4V	7VENT	0.611,10.989,1	ALERT -- Thruster fire	4O0	4	0	4,734,551:26:0	
1018	98	316	19:14:01.600	20US4AC	7VENT	0.611,1.333,2	ALERT -- Thruster fire	4O0	4	0	4,734,551:56:0	
1019	98	316	19:14:02.266	20US4AD	7VENT	0.611,0.666,3	ALERT -- Thruster fire	4O0	4	0	4,734,551:57:0	
1020	98	316	19:14:12.266	20US4AE	7VENT	0.611,1.333,2	ALERT -- Thruster fire	4O0	4	0	4,734,551:72:0	
1021	98	316	19:14:12.933	20US4AF	7VENT	0.611,0.666,3	ALERT -- Thruster fire	4O0	4	0	4,734,551:73:0	
1022	98	316	19:14:22.933	20US4W	7VENT	1.211,1.333,9	ALERT -- Thruster fire	4O0	4	0	4,734,551:88:0	
1023	98	316	19:14:23.600	20US4X	7VENT	1.211,0.666,11	ALERT -- Thruster fire	4O0	4	0	4,734,551:89:0	
1024	98	316	19:15:20.266	20US4Z	**7MODE**	**CRU**	AACS CRUISE MODE	4O0	4	0	4,734,552:83:0	
1025	98	316	19:30:00.266	488FV6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,734,567:38:0	
1026	98	316	19:40:04.266	20UL4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	4O0	4	0	4,734,577:34:0	
1027	98	316	19:40:54.266	20UL4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,734,578:18:0	
1028	98	316	19:42:43.600	176SY6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	4,734,580:00:0	
1029	98	316	23:05:48.933	488FW6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,734,780:78:0	
1030	98	317	00:05:32.933	488FW6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,734,839:85:0	
1031	98	317	00:24:38.266	488FW6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,734,858:74:0	
1032	98	317	04:03:16.266	488FW6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,735,075:04:0	
1033	98	317	04:13:00.933	488FW6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,735,084:62:0	
1034	98	317	05:01:30.266	488FX6A	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,735,132:58:0	
1035	98	317	05:30:36.933	488FX6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,735,161:39:0	
1036	98	317	05:49:00.933	488FX6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,735,179:57:0	
1037	98	317	12:47:08.933	488FY6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,735,593:15:0	
1038	98	317	14:21:00.933	488FY6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,735,686:00:0	
1039	98	317	14:38:24.933	488FY6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,735,703:19:0	
1040	98	317	14:40:12.933	488FY6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,735,704:90:0	
1041	98	317	14:55:08.933	488FY6E	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,735,719:69:0	
1042	98	317	16:56:26.933	488FZ6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,735,839:66:0	
1043	98	317	18:11:33.600	488FZ6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,735,914:01:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1044	98	317	18:40:39.600	488FZ6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,735,942:72:0	
1045	98	317	20:05:00.266	488FZ6D	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	4O0	4	0	4,736,026:19:0	
1046	98	317	20:08:50.266	176NV6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	4O0	4	0	4,736,030:00:0	
1047	98	317	20:39:00.266	20NV4I	**7MODE**	**INT**	AACS INERTIAL MODE	4O0	4	0	4,736,059:76:0	
1048	98	317	20:54:00.266	20NV4K	7SLEW	INIT,POS,17.45	Stator movement	4O0	4	0	4,736,074:61:0	
1049	98	317	21:06:00.266	20NV4L	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,736,086:49:0	
1050	98	317	21:13:00.266	20NV4M	7SLEW	INIT,NEG,17.45	Stator movement	4O0	4	0	4,736,093:42:0	
1051	98	317	21:25:00.266	20NV4N	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,736,105:30:0	
1052	98	317	21:37:00.266	20NV4AH	**7MODE**	**CRU**	AACS CRUISE MODE	4O0	4	0	4,736,117:18:0	
1053	98	317	21:53:04.266	20SU4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	4O0	4	0	4,736,133:08:0	
1054	98	317	21:53:54.266	20SU4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,736,133:83:0	
1055	98	317	21:55:00.266	176GF6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	4,736,135:00:0	
1056	98	317	22:13:00.266	488FZ6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,736,152:73:0	
1057	98	317	23:35:40.933	488GA6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,736,234:52:0	
1058	98	318	00:14:32.933	488GA6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,736,273:01:0	
1059	98	318	00:19:35.600	176VA6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	4O0	4	0	4,736,278:00:0	
1060	98	318	00:24:44.933	488GA6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,736,283:09:0	
1061	98	318	03:56:24.866	488GA6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,736,492:40:0	
1062	98	318	04:08:44.866	488GA6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,736,504:58:0	
1063	98	318	05:38:20.866	488GB6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,736,593:23:0	
1064	98	318	12:47:08.866	488GC6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,737,017:31:0	
1065	98	318	14:21:00.866	488GC6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,737,110:16:0	
1066	98	318	14:31:40.866	488GC6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,737,120:66:0	
1067	98	318	14:48:44.866	488GC6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,737,137:55:0	
1068	98	318	14:49:08.866	176VB6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	4,737,138:00:0	
1069	98	318	15:54:52.866	488GC6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,737,203:01:0	
1070	98	318	21:34:36.200	176VC6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	4O0	4	0	4,737,539:00:0	
1071	98	318	22:55:08.866	488GD6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,737,618:60:0	
1072	98	319	00:01:16.866	488GD6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,737,684:06:0	
1073	98	319	00:14:27.533	488GD6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,737,697:09:0	
1074	98	319	00:24:44.866	488GD6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,737,707:25:0	
1075	98	319	03:56:18.866	488GD6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,737,916:47:0	
1076	98	319	04:08:44.866	488GE6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,737,928:74:0	
1077	98	319	05:38:20.866	488GE6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,738,017:39:0	
1078	98	319	12:36:28.800	488GF6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,738,430:88:0	
1079	98	319	14:16:44.800	488GF6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,738,530:12:0	
1080	98	319	14:44:28.800	488GF6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,738,557:51:0	
1081	98	319	14:44:55.466	176VD6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	4,738,558:00:0	
1082	98	319	15:48:28.800	488GF6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,738,620:78:0	
1083	98	319	21:55:24.800	488GG6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,738,983:69:0	
1084	98	319	22:38:04.800	488GG6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,739,025:87:0	
1085	98	320	01:23:56.800	176VE6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	4O0	4	0	4,739,190:00:0	
1086	98	320	03:42:58.800	488GG6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,739,327:46:0	
1087	98	320	03:45:16.800	488GG6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,739,329:71:0	
1088	98	320	03:51:13.466	488GG6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,739,335:60:0	
1089	98	320	04:04:28.800	488GH6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,739,348:70:0	
1090	98	320	05:38:20.800	488GH6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,739,441:55:0	
1091	98	320	09:29:08.800	488GH6C	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,739,669:79:0	
1092	98	320	09:30:52.800	488GH6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,739,671:53:0	
1093	98	320	17:36:09.400	488GI6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,740,151:48:0	
1094	98	320	17:36:38.066	176VF6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	4,740,152:00:0	
1095	98	320	18:51:50.733	488GI6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,740,226:35:0	
1096	98	320	19:20:56.733	488GI6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,740,255:15:0	
1097	98	320	23:20:44.733	488GI6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,740,492:30:0	
1098	98	320	23:49:16.066	488GJ6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,740,520:49:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1099	98	320	23:59:08.733	488GJ6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,740,530	28:0
1100	98	321	00:10:15.400	488GJ6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,740,541	27:0
1101	98	321	01:03:14.733	488GJ6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,740,593	64:0
1102	98	321	01:30:04.066	488GJ6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,740,620	21:0
1103	98	321	03:43:24.733	488GK6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,740,752	10:0
1104	98	321	03:49:32.733	488GK6B	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,740,758	16:0
1105	98	321	05:39:20.733	488GK6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,740,866	70:0
1106	98	321	07:29:46.733	432MC431A6A	6RCDSL	DDSDSL,PLSNCG,EP	Record Deselect (DDS o	4O0	4	0	4,740,975	90:0
1107	98	321	07:29:47.400	432MC6A	6RTSL1		R/T Select of DDS and	4O0	4	0	4,740,976	00:0
1108	98	321	12:21:32.733	488GL6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,741,264	50:0
1109	98	321	14:06:04.733	488GL6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,741,367	85:0
1110	98	321	14:21:00.733	488GL6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,741,382	64:0
1111	98	321	14:38:04.733	488GL6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,741,399	53:0
1112	98	321	15:48:28.733	488GL6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,741,469	19:0
1113	98	321	22:35:56.733	488GM6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,741,872	18:0
1114	98	321	23:20:44.733	488GM6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,741,916	46:0
1115	98	322	03:38:02.000	488GM6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,742,170	88:0
1116	98	322	03:41:00.666	488GM6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,742,173	83:0
1117	98	322	03:46:02.666	488GM6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,742,178	81:0
1118	98	322	03:58:04.666	488GN6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,742,190	72:0
1119	98	322	05:38:20.666	488GN6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,742,289	87:0
1120	98	322	12:10:52.666	488GO6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,742,678	16:0
1121	98	322	13:59:40.666	488GO6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,742,785	71:0
1122	98	322	14:21:00.666	488GO6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,742,806	80:0
1123	98	322	14:22:02.666	488GO6D	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,742,807	82:0
1124	98	322	14:42:20.666	488GO6E	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,742,827	89:0
1125	98	322	16:55:06.000	488GP6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,742,959	25:0
1126	98	322	21:40:28.666	488GP6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,743,241	47:0
1127	98	322	22:08:12.666	488GP6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,743,268	86:0
1128	98	322	23:02:02.666	488GQ6A	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,743,322	17:0
1129	98	322	23:31:08.666	488GQ6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,743,350	88:0
1130	98	323	00:00:00.000	481UC4A	7VECT		Inert vect update UTC	4O0	4	0	4,743,379	46:0
1131	98	323	00:07:40.666	488GQ6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,743,387	09:0
1132	98	323	03:32:37.333	488GQ6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,743,589	72:0
1133	98	323	03:34:36.666	488GQ6E	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,743,591	69:0
1134	98	323	03:40:57.333	488GR6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,743,598	03:0
1135	98	323	03:53:48.666	488GR6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,743,610	68:0
1136	98	323	04:48:26.666	488GR6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,743,664	71:0
1137	98	323	05:15:16.000	488GR6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,743,691	28:0
1138	98	323	05:49:00.666	488GR6E	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,743,724	62:0
1139	98	323	07:00:00.000	481UA4A	7VECT	BB1	Inert vect update UTC	4O0	4	0	4,743,794	81:0
1140	98	323	11:51:40.600	488GS6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,744,083	33:0
1141	98	323	13:51:08.600	488GS6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,744,201	47:0
1142	98	323	14:10:20.600	488GS6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,744,220	46:0
1143	98	323	15:07:56.600	488GS6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,744,277	43:0
1144	98	323	15:32:05.266	488GS6E	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,744,301	32:0
1145	98	323	16:01:11.933	488GT6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,744,330	13:0
1146	98	323	17:23:00.600	488GT6B	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	4O0	4	0	4,744,411	05:0
1147	98	323	17:28:00.600	176SF6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	4O0	4	0	4,744,416	00:0
1148	98	323	17:38:59.933	20CA4C	7STAT	17.45,82.5018,-2	Stator inertial point	4O0	4	0	4,744,426	79:0
1149	98	323	17:59:59.933	474CA416A4B	**7MODE**	**INT**	AACS INERTIAL MODE	4O0	4	0	4,744,447	58:0
1150	98	323	18:01:59.933	474CA416A4D	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	4O0	4	0	4,744,449	56:0
1151	98	323	18:02:19.933	20CA4D	7STAT	17.45,82.5018,-2	Stator inertial point	4O0	4	0	4,744,449	86:0
1152	98	323	18:06:13.933	474CA416A4E	7BURN	LZ,82.5018,-20.5	ALERT -- Thruster fire	4O0	4	0	4,744,453	73:0
1153	98	323	18:13:59.933	20CA4F	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,744,461	44:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1154	98	323	18:19:51.933	20CA4G	**7MODE**	**CRU**	AACS CRUISE MODE	4O0	4	0	4,744,467	26:0
1155	98	323	18:44:07.933	20CA4L	7STAT	17.45,82.5018,-2	Stator inertial point	4O0	4	0	4,744,491	26:0
1156	98	323	18:47:07.933	20CA4O	**7MODE**	**INT**	AACS INERTIAL MODE	4O0	4	0	4,744,494	23:0
1157	98	323	18:49:07.933	474CA416A4G	7BURN	T,82.5018,-20.56	ALERT -- Thruster fire	4O0	4	0	4,744,496	21:0
1158	98	323	19:00:33.933	20CA4Q	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,744,507	49:0
1159	98	323	19:05:25.933	20CA4R	**7MODE**	**CRU**	AACS CRUISE MODE	4O0	4	0	4,744,512	32:0
1160	98	323	20:12:57.933	20CB4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	4O0	4	0	4,744,579	13:0
1161	98	323	20:13:47.933	20CB4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,744,579	88:0
1162	98	323	20:14:50.600	176CA6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	4,744,581	00:0
1163	98	323	22:31:00.600	488GU6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,744,715	61:0
1164	98	323	22:31:20.600	176SG6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	4,744,716	00:0
1165	98	323	22:35:00.600	41SA99A	**POWER**	**PWR MODE change**	Change to Data Taking Mode	4O0	4	0	4,744,719	57:0
1166	**98**	**323**	**22:35:04.600**	**41SA3A**	**40T1PR**	**1**	**PCT Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**4,744,719**	**63:0**
1167	**98**	**323**	**22:35:14.600**	**41SA3B**	**40T1PR**	**2**	**PCT Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**4,744,719**	**78:0**
1168	**98**	**323**	**22:35:24.600**	**41SA3C**	**40T2R**	**1**	**PCT Heater 2 OFF**	**4O0**	**4**	**0**	**4,744,720**	**02:0**
1169	**98**	**323**	**22:35:34.600**	**41SA3D**	**40T2R**	**2**	**PCT Heater 2 OFF**	**4O0**	**4**	**0**	**4,744,720**	**17:0**
1170	98	323	22:55:08.600	488GU6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,744,739	49:0
1171	98	323	23:50:36.600	488GU6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,744,794	36:0
1172	98	324	00:48:30.600	488GU6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,744,851	60:0
1173	98	324	01:15:19.933	488GU6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,744,878	17:0
1174	98	324	03:27:43.933	488GV6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,745,009	12:0
1175	98	324	03:30:20.600	488GV6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,745,011	65:0
1176	98	324	03:35:52.600	488GV6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,745,017	17:0
1177	98	324	03:53:48.600	488GV6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,745,034	84:0
1178	98	324	06:12:28.600	488GV6E	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,745,172	06:0
1179	98	324	11:04:44.600	488GW6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,745,461	11:0
1180	98	324	13:40:28.600	488GW6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,745,615	13:0
1181	98	324	14:06:04.600	488GW6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,745,640	42:0
1182	98	324	15:14:20.600	488GW6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,745,707	89:0
1183	98	324	15:32:10.600	488GW6E	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,745,725	56:0
1184	98	324	16:01:16.600	488GX6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,745,754	36:0
1185	98	324	21:21:16.533	488GX6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,746,070	80:0
1186	98	324	21:49:00.533	488GX6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,746,098	28:0
1187	98	324	22:48:24.533	488GY6A	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,746,157	05:0
1188	98	324	22:48:44.533	488GY6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,746,157	35:0
1189	98	324	23:15:24.533	488GY6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,746,183	69:0
1190	98	324	23:41:56.533	176SP6A	6TMREC	**TPB**	TERMINATE PLAYBACK (PB CONTROL) Record Mo	4O0	4	0	4,746,210	00:0
1191	98	324	23:48:00.533		DMS:	: *TURNARND	P7, TRACK 1, FWD, TIC 202.12 +/-	4O0	4	0	4,746,216	00:0
1192	98	324	23:48:00.533	465TA6A	6DMST	5000	DMS Slew to TIC	4O0	4	0	4,746,216	00:0
1193	98	324	23:48:00.533		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 202.12 +/-	4O0	4	0	4,746,216	00:0
1194	98	324	23:48:00.533		DMS:	: *SLEW-TIC	P7, TRACK 1, FWD, TIC 202.12 +/-	4O0	4	0	4,746,216	00:0
1195	98	324	23:48:07.200		DMS:	: *RUNUP	P7, TRACK 1, FWD, TIC 202.12 +/-	4O0	4	0	4,746,216	10:0
1196	98	324	23:48:08.600		DMS:	: *AT_SPD	P7, TRACK 1, FWD, TIC * 202.24 +/-	4O0	4	0	4,746,216	12:1
1197	98	325	03:28:12.533	488GY6D	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,746,433	71:0
1198	98	325	04:34:58.533	488GY6E	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,746,499	74:0
1199	98	325	04:59:31.866	488GZ6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,746,524	09:0
1200	98	325	05:29:09.333		DMS:	: *RUNDOWN	P7, TRACK 1, FWD, TIC *4997.94 +/-	4O0	4	0	4,746,553	36:2
1201	98	325	05:29:10.533		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *4998.00 +/-	4O0	4	0	4,746,553	38:0
1202	98	325	05:41:41.866	465TB6A	6DMSC	P100,4	DMS Control Tape P/B 100.8kbps	4O0	4	0	4,746,565	73:0
1203	98	325	05:41:41.866		DMS:	: *US-RUNUP	P7, TRACK 1, FWD, TIC 4998.00 +/-	4O0	4	0	4,746,565	73:0
1204	98	325	05:41:43.266		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *4998.12 +/-	4O0	4	0	4,746,565	75:1
1205	98	325	05:41:48.533		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *4999.35 +/-	4O0	4	0	4,746,565	83:0
1206	98	325	05:41:49.733		DMS:	: *RUNUP	P100, TRACK *4, *REV, TIC *4999.41 +/-	4O0	4	0	4,746,565	84:8
1207	98	325	05:41:53.600		DMS:	: *AT_SPD	P100, TRACK 4, REV, TIC 4993.91 +/-	4O0	4	0	4,746,565	90:6
1208	98	325	05:41:53.600		DMS:	: *P_SLEW	P100, TRACK 4, REV, TIC *4993.91 +/-	4O0	4	0	4,746,565	90:6

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1209	98	325	06:07:33.866	465TB6B	6DMSC	RDY,4	DMS Control Tape stop	4O0	4	0	4,746,591	35:0
1210	98	325	06:07:33.866		DMS:	: *RUNDOWN	P100, TRACK 4, REV, TIC * 255.79 +/-	4O0	4	0	4,746,591	35:0
1211	98	325	06:07:35.066		DMS:	: *READY	RDY, TRACK 4, REV, TIC * 254.99 +/-	4O0	4	0	4,746,591	36:8
1212	98	325	07:31:24.533	488GZ6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,746,674	28:0
1213	98	325	08:05:21.866	465TC6A	6DTRN	CMD,6DTRN,465TC6	DMS TRACK TURNAROUND	4O0	4	0	4,746,707	81:0
1214	98	325	08:05:21.866		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 254.99 +/-	4O0	4	0	4,746,707	81:0
1215	98	325	08:05:21.866		DMS:	: *DMS-TURN	P7, TRACK 4, REV, TIC 254.99 +/-	4O0	4	0	4,746,707	81:0
1216	98	325	08:05:23.266		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 255.11 +/-	4O0	4	0	4,746,707	83:1
1217	98	325	08:05:28.533		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 256.34 +/-	4O0	4	0	4,746,708	00:0
1218	98	325	08:05:29.733		DMS:	: *RUNUP	P7, TRACK *4, *REV, TIC * 256.40 +/-	4O0	4	0	4,746,708	01:8
1219	98	325	08:05:31.133		DMS:	: *AT_SPD	P7, TRACK 4, REV, TIC * 256.28 +/-	4O0	4	0	4,746,708	03:9
1220	98	325	08:09:09.866	488GZ6C	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	4O0	4	0	4,746,711	59:0
1221	98	325	08:09:31.800		DMS:	: *REVERSE	P7, TRACK 4, REV, TIC * 199.87 +/-	4O0	4	0	4,746,712	00:9
1222	98	325	08:09:33.000		DMS:	: *RUNUP	P7, TRACK 1, FWD, TIC 199.81 +/-	4O0	4	0	4,746,712	02:7
1223	98	325	08:09:33.000		DMS:	: *TURNARND	P7, TRACK *1, *FWD, TIC * 199.81 +/-	4O0	4	0	4,746,712	02:7
1224	98	325	08:09:34.400		DMS:	: *AT_SPD	P7, TRACK 1, FWD, TIC * 199.93 +/-	4O0	4	0	4,746,712	04:8
1225	98	325	08:09:46.400		DMS:	: *AUTOSTOP	P7, TRACK 1, FWD, TIC * 202.06 +/-	4O0	4	0	4,746,712	22:8
1226	98	325	08:09:47.600		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 202.12 +/-	4O0	4	0	4,746,712	24:6
1227	98	325	08:15:24.533	465TD6A	6DMSC	P100,1	DMS Control Tape P/B 100.8kbps	4O0	4	0	4,746,717	75:0
1228	98	325	08:15:24.533		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 202.12 +/-	4O0	4	0	4,746,717	75:0
1229	98	325	08:15:31.200		DMS:	: *RUNUP	P100, TRACK 1, FWD, TIC 202.12 +/-	4O0	4	0	4,746,717	85:0
1230	98	325	08:15:35.066		DMS:	: *AT_SPD	P100, TRACK 1, FWD, TIC 207.62 +/-	4O0	4	0	4,746,717	90:8
1231	98	325	08:15:35.066		DMS:	: *P_SLEW	P100, TRACK 1, FWD, TIC * 207.62 +/-	4O0	4	0	4,746,717	90:8
1232	98	325	08:47:18.533	465TD6B	6DMSC	RDY,1	DMS Control Tape stop	4O0	4	0	4,746,749	34:0
1233	98	325	08:47:18.533		DMS:	: *RUNDOWN	P100, TRACK 1, FWD, TIC *6063.01 +/-	4O0	4	0	4,746,749	34:0
1234	98	325	08:47:19.733		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *6063.81 +/-	4O0	4	0	4,746,749	35:8
1235	98	325	09:02:54.533		DMS:	: *US-RUNUP	P7, TRACK 1, FWD, TIC 6063.81 +/-	4O0	4	0	4,746,764	73:0
1236	98	325	09:02:54.533	465TE6A	6DMSC	P100,2	DMS Control Tape P/B 100.8kbps	4O0	4	0	4,746,764	73:0
1237	98	325	09:02:55.933		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *6063.93 +/-	4O0	4	0	4,746,764	75:1
1238	98	325	09:03:01.200		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *6065.17 +/-	4O0	4	0	4,746,764	83:0
1239	98	325	09:03:02.400		DMS:	: *RUNUP	P100, TRACK *2, *REV, TIC *6065.23 +/-	4O0	4	0	4,746,764	84:8
1240	98	325	09:03:06.266		DMS:	: *AT_SPD	P100, TRACK 2, REV, TIC 6059.73 +/-	4O0	4	0	4,746,764	90:6
1241	98	325	09:03:06.266		DMS:	: *P_SLEW	P100, TRACK 2, REV, TIC *6059.73 +/-	4O0	4	0	4,746,764	90:6
1242	98	325	09:35:02.533		DMS:	: *RUNDOWN	P100, TRACK 2, REV, TIC * 164.96 +/-	4O0	4	0	4,746,796	53:0
1243	98	325	09:35:02.533	465TF6A	6DMSC	P100,3	DMS Control Tape P/B 100.8kbps	4O0	4	0	4,746,796	53:0
1244	98	325	09:35:03.733		DMS:	: *RUNUP	P100, TRACK *3, *FWD, TIC * 164.16 +/-	4O0	4	0	4,746,796	54:8
1245	98	325	09:35:07.600		DMS:	: *AT_SPD	P100, TRACK 3, FWD, TIC 169.66 +/-	4O0	4	0	4,746,796	60:6
1246	98	325	09:35:07.600		DMS:	: *P_SLEW	P100, TRACK 3, FWD, TIC * 169.66 +/-	4O0	4	0	4,746,796	60:6
1247	98	325	10:07:03.200	465TF6B	6DMSC	RDY,3	DMS Control Tape stop	4O0	4	0	4,746,828	22:0
1248	98	325	10:07:03.200		DMS:	: *RUNDOWN	P100, TRACK 3, FWD, TIC *6062.38 +/-	4O0	4	0	4,746,828	22:0
1249	98	325	10:07:04.400		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *6063.18 +/-	4O0	4	0	4,746,828	23:8
1250	98	325	10:21:46.533		DMS:	: *US-RUNUP	P7, TRACK *1, FWD, TIC 6063.18 +/-	4O0	4	0	4,746,842	73:0
1251	98	325	10:21:46.533	465TG6A	6DMSC	P100,4	DMS Control Tape P/B 100.8kbps	4O0	4	0	4,746,842	73:0
1252	98	325	10:21:47.933		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *6063.30 +/-	4O0	4	0	4,746,842	75:1
1253	98	325	10:21:53.200		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *6064.53 +/-	4O0	4	0	4,746,842	83:0
1254	98	325	10:21:54.400		DMS:	: *RUNUP	P100, TRACK *4, *REV, TIC *6064.59 +/-	4O0	4	0	4,746,842	84:8
1255	98	325	10:21:58.266		DMS:	: *AT_SPD	P100, TRACK 4, REV, TIC 6059.09 +/-	4O0	4	0	4,746,842	90:6
1256	98	325	10:21:58.266		DMS:	: *P_SLEW	P100, TRACK 4, REV, TIC *6059.09 +/-	4O0	4	0	4,746,842	90:6
1257	98	325	10:53:53.866	465TH6A	6DMSC	P100,3	DMS Control Tape P/B 100.8kbps	4O0	4	0	4,746,874	52:0
1258	98	325	10:53:53.866		DMS:	: *RUNDOWN	P100, TRACK 4, REV, TIC * 166.38 +/-	4O0	4	0	4,746,874	52:0
1259	98	325	10:53:55.066		DMS:	: *RUNUP	P100, TRACK *3, *FWD, TIC * 165.58 +/-	4O0	4	0	4,746,874	53:8
1260	98	325	10:53:58.933		DMS:	: *P_SLEW	P100, TRACK 3, FWD, TIC * 171.08 +/-	4O0	4	0	4,746,874	59:6
1261	98	325	10:53:58.933		DMS:	: *AT_SPD	P100, TRACK 3, FWD, TIC 171.08 +/-	4O0	4	0	4,746,874	59:6
1262	98	325	10:54:59.866		DMS:	: *RUNDOWN	P100, TRACK 3, FWD, TIC * 358.52 +/-	4O0	4	0	4,746,875	60:0
1263	98	325	10:54:59.866	465TH6B	6DMSC	RDY,3	DMS Control Tape stop	4O0	4	0	4,746,875	60:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1264	98	325	10:55:01.066		DMS:	: *READY	RDY, TRACK 3, FWD, TIC * 359.32 +/-	4O0	4	0	4,746,875:61:8	
1265	98	325	10:55:59.866	488GZ6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,746,876:59:0	
1266	98	325	11:09:29.866		DMS:	: READY	RDY, TRACK *4, *REV, TIC 359.32 +/-	4O0	4	0	4,746,890:00:0	
1267	98	325	11:09:29.866	465TI6A	6DMSC	RDY,4	DMS Control Tape stop	4O0	4	0	4,746,890:00:0	
1268	98	325	11:10:23.866		DMS:	: *DMS-TURN	P7, TRACK 4, REV, TIC 359.32 +/-	4O0	4	0	4,746,890:81:0	
1269	98	325	11:10:23.866		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 359.32 +/-	4O0	4	0	4,746,890:81:0	
1270	98	325	11:10:23.866	465TJ6A	6DTRN	CMD,6DTRN,465TJ6	DMS TRACK TURNAROUND	4O0	4	0	4,746,890:81:0	
1271	98	325	11:10:25.266		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 359.44 +/-	4O0	4	0	4,746,890:83:1	
1272	98	325	11:10:30.533		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 360.67 +/-	4O0	4	0	4,746,891:00:0	
1273	98	325	11:10:31.733		DMS:	: *RUNUP	P7, TRACK *4, *REV, TIC * 360.73 +/-	4O0	4	0	4,746,891:01:8	
1274	98	325	11:10:33.133		DMS:	: *AT_SPD	P7, TRACK 4, REV, TIC * 360.61 +/-	4O0	4	0	4,746,891:03:9	
1275	98	325	11:21:58.933		DMS:	: *REVERSE	P7, TRACK 4, REV, TIC * 199.87 +/-	4O0	4	0	4,746,902:31:6	
1276	98	325	11:22:00.133		DMS:	: *TURNARND	P7, TRACK *1, *FWD, TIC * 199.81 +/-	4O0	4	0	4,746,902:33:4	
1277	98	325	11:22:00.133		DMS:	: *RUNUP	P7, TRACK 1, FWD, TIC 199.81 +/-	4O0	4	0	4,746,902:33:4	
1278	98	325	11:22:01.533		DMS:	: *AT_SPD	P7, TRACK 1, FWD, TIC * 199.93 +/-	4O0	4	0	4,746,902:35:5	
1279	98	325	11:22:13.533		DMS:	: *AUTOSTOP	P7, TRACK 1, FWD, TIC * 202.06 +/-	4O0	4	0	4,746,902:53:5	
1280	98	325	11:22:14.733		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 202.12 +/-	4O0	4	0	4,746,902:55:3	
1281	98	325	11:59:59.866		DMS:	: READY	RDY, TRACK 1, FWD, TIC 202.12 +/-	4O0	4	0	4,746,939:86:0	
1282	**98**	**325**	**12:00:00.000**	**20A3EW**	**37A**	**Final Condition**	**NIMS Power ON**	**4O0**	**4**	**0**	**4,746,939:86:2**	
1283	**98**	**325**	**12:00:00.000**	**20A3EX**	**37HR**	**Final Condition**	**Replacement Heaters OFF**	**4O0**	**4**	**0**	**4,746,939:86:2**	
1284	**98**	**325**	**12:00:00.000**	**20A3EY**	**37C1PR**	**Final Condition**	**Optics Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**4,746,939:86:2**	
1285	**98**	**325**	**12:00:00.000**	**20A3EZ**	**37C2PR**	**Final Condition**	**Optics Heater 2 OFF (primary relay)**	**4O0**	**4**	**0**	**4,746,939:86:2**	
1286	**98**	**325**	**12:00:00.000**	**20A3FA**	**37F1PR**	**Final Condition**	**Radiator Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**4,746,939:86:2**	
1287	**98**	**325**	**12:00:00.000**	**20A3FB**	**37F2PR**	**Final Condition**	**Shield Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**4,746,939:86:2**	
1288	**98**	**325**	**12:00:00.000**	**20A3FD**	**40HRPR**	**Final Condition**	**RCT Heater OFF (primary relay)**	**4O0**	**4**	**0**	**4,746,939:86:2**	
1289	**98**	**325**	**12:00:00.000**	**20A3FE**	**40T1PR**	**Final Condition**	**PCT Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**4,746,939:86:2**	
1290	**98**	**325**	**12:00:00.000**	**20A3FF**	**40T2R**	**Final Condition**	**PCT Heater 2 OFF**	**4O0**	**4**	**0**	**4,746,939:86:2**	

17JNJUPRTS01

```
OAPEL:  17JNJUPRTS01            ALIAS:  17JNJUPRTS01
EXT:    R                       PSID:   DA
SCLK1:  04665439:00:0           SCLK2:  04665448:12:2
SCET1:  1998-268/06:33:32.066   SCET2:  1998-268/06:40:46.066
TARGET: JUPITER                 PARTITION: 1

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

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

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

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

EDIT TABLE

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

17ENEUR20H01

OAPEL: 17ENEUR20H01 ALIAS: 17ENEUR20H01
EXT: A PSID: EA
SCLK1: 04665462:87:0 SCLK2: 04665465:90:0
SCET1: 98-268/06:57:45.400 SCET2: 98-268/07:00:49.400
TARGET: EUROPA PARTITION: 1

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

MB_DOWN: 00000 MB_UP: 00000
COMP_FLAG: 1
EST_COMP: 2.0 EST_COMPV: 0.3
RATE_CON1: 00000 RATE_CON2: 65525
NWAVETOT: 240 TLMFMT: LPU

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

WETGID: 0326240001 03 26 240 001
WTGRP_SIZ: 26

EDIT TABLE

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

17ENEUR20H01

OAPEL: 17ENEUR20H01 ALIAS: 17ENEUR20H01
EXT: C PSID: EA
SCLK1: 04665466:00:0 SCLK2: 04665466:42:0
SCET1: 98-268/07:00:50.066 SCET2: 98-268/07:01:18.733
TARGET: EUROPA PARTITION: 1

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

MB_DOWN: 00000 MB_UP: 00000
COMP_FLAG: 1
EST_COMP: 2.0 EST_COMPV: 0.3
RATE_CON1: 00000 RATE_CON2: 65525
NWAVETOT: 240 TLMFMT: LPU

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

WETGID: 0326240001 03 26 240 001
WTGRP_SIZ: 26

EDIT TABLE

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

17ENEUR20H01

OAPEL: 17ENEUR20H01 ALIAS: 17ENEUR20H01
EXT: B PSID: EA
SCLK1: 04665467:34:0 SCLK2: 04665471:83:0
SCET1: 98-268/07:02:14.066 SCET2: 98-268/07:06:49.400
TARGET: EUROPA PARTITION: 1

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

MB_DOWN: 00000 MB_UP: 00000
COMP_FLAG: 1
EST_COMP: 2.0 EST_COMPV: 0.3
RATE_CON1: 00000 RATE_CON2: 65525
NWAVETOT: 240 TLMFMT: LPU

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

WETGID: 0326240001 03 26 240 001
WTGRP_SIZ: 26

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1BDC8	1,1011,1101,1100,1000
1	1BDC8	1,1011,1101,1100,1000
2	1BDC8	1,1011,1101,1100,1000
3	1BDC8	1,1011,1101,1100,1000
4	1BDC8	1,1011,1101,1100,1000
5	1BDC8	1,1011,1101,1100,1000
6	1BDC8	1,1011,1101,1100,1000
7	1BDC8	1,1011,1101,1100,1000
8	1BDC8	1,1011,1101,1100,1000
9	1BDC8	1,1011,1101,1100,1000
10	1BDC8	1,1011,1101,1100,1000
11	1BDC8	1,1011,1101,1100,1000
12	1BDC8	1,1011,1101,1100,1000
13	1BDC8	1,1011,1101,1100,1000
14	1BDC8	1,1011,1101,1100,1000
15	1BDC8	1,1011,1101,1100,1000
16	1BDC8	1,1011,1101,1100,1000
17	1BDC8	1,1011,1101,1100,1000
18	1BDC8	1,1011,1101,1100,1000
19	1BDC8	1,1011,1101,1100,1000
20	1BDC8	1,1011,1101,1100,1000
21	1BDC8	1,1011,1101,1100,1000
22	1BDC8	1,1011,1101,1100,1000
23	1BDC8	1,1011,1101,1100,1000
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

17JNWHTOVL01

OAPEL: 17JNWHTOVL01 ALIAS: 17JNWHTOVL01
EXT: A PSID: EB
SCLK1: 04665685:00:0 SCLK2: 04665694:73:0
SCET1: 98-268/10:42:16.066 SCET2: 98-268/10:52:11.400
TARGET: JUPITER PARTITION: 1

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

MB_DOWN: 00000 MB_UP: 00000
COMP_FLAG: 1
EST_COMP: 2.0 EST_COMPV: 0.3
RATE_CON1: 00000 RATE_CON2: 65525
NWAVETOT: 66 TLMFMT: LPU

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

WETGID: 0326066001 03 26 066 001
WTGRP_SIZ: 26

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	00003	0,0000,0000,0000,0011
1	00003	0,0000,0000,0000,0011
2	00003	0,0000,0000,0000,0011
3	00003	0,0000,0000,0000,0011
4	00003	0,0000,0000,0000,0011
5	00003	0,0000,0000,0000,0011
6	00007	0,0000,0000,0000,0111
7	00007	0,0000,0000,0000,0111
8	00007	0,0000,0000,0000,0111
9	00007	0,0000,0000,0000,0111
10	00007	0,0000,0000,0000,0111
11	00007	0,0000,0000,0000,0111
12	00007	0,0000,0000,0000,0111
13	00007	0,0000,0000,0000,0111
14	00007	0,0000,0000,0000,0111
15	00007	0,0000,0000,0000,0111
16	00007	0,0000,0000,0000,0111
17	00007	0,0000,0000,0000,0111
18	00007	0,0000,0000,0000,0111
19	00007	0,0000,0000,0000,0111
20	00007	0,0000,0000,0000,0111
21	00007	0,0000,0000,0000,0111
22	00007	0,0000,0000,0000,0111
23	00007	0,0000,0000,0000,0111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

17JNWHTOVL02

OAPEL: 17JNWHTOVL02 ALIAS: 17JNWHTOVL02
EXT: A PSID: EC
SCLK1: 04665759:00:0 SCLK2: 04665768:73:0
SCET1: 98-268/11:57:05.400 SCET2: 98-268/12:07:00.733
TARGET: JUPITER PARTITION: 1

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

MB_DOWN: 00000 MB_UP: 00000
COMP_FLAG: 1
EST_COMP: 2.0 EST_COMPV: 0.3
RATE_CON1: 00000 RATE_CON2: 65525
NWAVETOT: 66 TLMFMT: LPU

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

WETGID: 0326066001 03 26 066 001
WTGRP_SIZ: 26

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	00003	0,0000,0000,0000,0011
1	00003	0,0000,0000,0000,0011
2	00003	0,0000,0000,0000,0011
3	00003	0,0000,0000,0000,0011
4	00003	0,0000,0000,0000,0011
5	00003	0,0000,0000,0000,0011
6	00007	0,0000,0000,0000,0111
7	00007	0,0000,0000,0000,0111
8	00007	0,0000,0000,0000,0111
9	00007	0,0000,0000,0000,0111
10	00007	0,0000,0000,0000,0111
11	00007	0,0000,0000,0000,0111
12	00007	0,0000,0000,0000,0111
13	00007	0,0000,0000,0000,0111
14	00007	0,0000,0000,0000,0111
15	00007	0,0000,0000,0000,0111
16	00007	0,0000,0000,0000,0111
17	00007	0,0000,0000,0000,0111
18	00007	0,0000,0000,0000,0111
19	00007	0,0000,0000,0000,0111
20	00007	0,0000,0000,0000,0111
21	00007	0,0000,0000,0000,0111
22	00007	0,0000,0000,0000,0111
23	00007	0,0000,0000,0000,0111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

17JNJUPRTS02

```
OAPEL:  17JNJUPRTS02            ALIAS:  17JNJUPRTS02
EXT:    R                       PSID:   DB
SCLK1:  04665779:00:0           SCLK2:  04665788:12:0
SCET1:  1998-268/12:17:18.733   SCET2:  1998-268/12:26:32.733
TARGET: JUPITER                 PARTITION: 1

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

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

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

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

EDIT TABLE

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

17JNWHTOVL03

OAPEL: 17JNWHTOVL03 ALIAS: 17JNWHTOVL03
EXT: A PSID: ED
SCLK1: 04665794:00:0 SCLK2: 04665803:73:0
SCET1: 98-268/12:32:28.733 SCET2: 98-268/12:42:24.066
TARGET: JUPITER PARTITION: 1

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

MB_DOWN: 00000 MB_UP: 00000
COMP_FLAG: 1
EST_COMP: 2.0 EST_COMPV: 0.3
RATE_CON1: 00000 RATE_CON2: 65525
NWAVETOT: 249 TLMFMT: LPU

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

WETGID: 0326249001 03 26 249 001
WTGRP_SIZ: 26

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	11CC3	1,0001,1100,1100,0011
1	11CC3	1,0001,1100,1100,0011
2	11CC3	1,0001,1100,1100,0011
3	11CC3	1,0001,1100,1100,0011
4	13DC3	1,0011,1101,1100,0011
5	13DC3	1,0011,1101,1100,0011
6	13DC7	1,0011,1101,1100,0111
7	1BDC7	1,1011,1101,1100,0111
8	1BD87	1,1011,1101,1000,0111
9	1BDC7	1,1011,1101,1100,0111
10	0BDC7	0,1011,1101,1100,0111
11	0BDC7	0,1011,1101,1100,0111
12	0BDC7	0,1011,1101,1100,0111
13	0BDC7	0,1011,1101,1100,0111
14	0BDC7	0,1011,1101,1100,0111
15	0BDC7	0,1011,1101,1100,0111
16	1BD87	1,1011,1101,1000,0111
17	1BD87	1,1011,1101,1000,0111
18	1BD07	1,1011,1101,0000,0111
19	1BD07	1,1011,1101,0000,0111
20	1BD87	1,1011,1101,1000,0111
21	1BD87	1,1011,1101,1000,0111
22	1BD87	1,1011,1101,1000,0111
23	1B987	1,1011,1001,1000,0111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

17JNJUPRTS03

```
OAPEL:  17JNJUPRTS03            ALIAS:  17JNJUPRTS03
EXT:    R                       PSID:   DC
SCLK1:  04665906:00:0           SCLK2:  04665915:12:0
SCET1:  1998-268/14:25:43.400   SCET2:  1998-268/14:34:57.400
TARGET: JUPITER                 PARTITION: 1

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

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

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

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

EDIT TABLE

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

17ENGLOBAL01

```
OAPEL:  17ENGLOBAL01              ALIAS:  17ENGLOBAL01
EXT:    A                         PSID:   DD
SCLK1:  04666410:00:0             SCLK2:  04666454:38:0
SCET1:    98-268/22:55:19.400     SCET2:    98-268/23:40:14.733
TARGET: EUROPA                    PARTITION: 1

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

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

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

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

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	03C00	0,0011,1100,0000,0000
1	1BDFF	1,1011,1101,1111,1111
2	03C00	0,0011,1100,0000,0000
3	1BDFF	1,1011,1101,1111,1111
4	03C00	0,0011,1100,0000,0000
5	1BDFF	1,1011,1101,1111,1111
6	03C00	0,0011,1100,0000,0000
7	1BDFF	1,1011,1101,1111,1111
8	03C00	0,0011,1100,0000,0000
9	1BDFF	1,1011,1101,1111,1111
10	03C00	0,0011,1100,0000,0000
11	1BDFF	1,1011,1101,1111,1111
12	03C00	0,0011,1100,0000,0000
13	1BDFF	1,1011,1101,1111,1111
14	03C00	0,0011,1100,0000,0000
15	1BDFF	1,1011,1101,1111,1111
16	03C00	0,0011,1100,0000,0000
17	1BDFF	1,1011,1101,1111,1111
18	03C00	0,0011,1100,0000,0000
19	1BDFF	1,1011,1101,1111,1111
20	03C00	0,0011,1100,0000,0000
21	1BDFF	1,1011,1101,1111,1111
22	03C00	0,0011,1100,0000,0000
23	1BDFF	1,1011,1101,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

17ENSUCOMP01

OAPEL: 17ENSUCOMP01 ALIAS: 17ENSUCOMP01
EXT: A PSID: DE
SCLK1: 04666672:87:0 SCLK2: 04666692:08:0
SCET1: 98-269/03:21:12.066 SCET2: 98-269/03:40:32.733
TARGET: EUROPA PARTITION: 1

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

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

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

WETGID: 0326360001 03 26 360 001
WTGRP_SIZ: 26

EDIT TABLE

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

17ENSUCOMP02

OAPEL: 17ENSUCOMP02 ALIAS: 17ENSUCOMP02
EXT: A PSID: DF
SCLK1: 04666710:87:0 SCLK2: 04666727:64:0
SCET1: 98-269/03:59:37.400 SCET2: 98-269/04:16:34.066
TARGET: EUROPA PARTITION: 1

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

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

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

WETGID: 0426360001 04 26 360 001
WTGRP_SIZ: 26

EDIT TABLE

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

17ENSUCOMP03

OAPEL: 17ENSUCOMP03 ALIAS: 17ENSUCOMP03
EXT: A PSID: DG
SCLK1: 04666730:86:0 SCLK2: 04666752:54:0
SCET1: 98-269/04:19:50.733 SCET2: 98-269/04:41:43.400
TARGET: EUROPA PARTITION: 1

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

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

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

WETGID: 0326360001 03 26 360 001
WTGRP_SIZ: 26

EDIT TABLE

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

17ENSUCOMP04

```
OAPEL:  17ENSUCOMP04              ALIAS:  17ENSUCOMP04
EXT:    A                         PSID:   DH
SCLK1:  04666754:86:0             SCLK2:  04666764:62:0
SCET1:    98-269/04:44:06.733     SCET2:    98-269/04:53:56.733
TARGET: EUROPA                    PARTITION: 1

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

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

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

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

EDIT TABLE

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

17ENGLOBAL02

```
OAPEL:  17ENGLOBAL02              ALIAS:  17ENGLOBAL02
EXT:    A                         PSID:   DI
SCLK1:  04667020:00:0             SCLK2:  04667026:90:0
SCET1:    98-269/09:12:06.000     SCET2:    98-269/09:19:10.000
TARGET: EUROPA                    PARTITION: 1

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

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

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

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

EDIT TABLE

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

17ENGLOBAL02

```
OAPEL:  17ENGLOBAL02              ALIAS:  17ENGLOBAL02
EXT:    B                         PSID:   DI
SCLK1:  04667027:00:0             SCLK2:  04667041:90:0
SCET1:    98-269/09:19:10.666     SCET2:    98-269/09:34:20.000
TARGET: EUROPA                    PARTITION: 1

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

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

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

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

EDIT TABLE

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

17ENGLOBAL02

```
OAPEL:  17ENGLOBAL02              ALIAS:  17ENGLOBAL02
EXT:    C                         PSID:   DI
SCLK1:  04667042:00:0             SCLK2:  04667048:70:0
SCET1:    98-269/09:34:20.666     SCET2:    98-269/09:41:11.333
TARGET: EUROPA                    PARTITION: 1

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

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

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

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

EDIT TABLE

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

17NNPCTRLT01

```
OAPEL:  17NNPCTRLT01            ALIAS:  LSNNPCTRLT01
EXT:    R                       PSID:   FB
SCLK1:  04680567:00:0           SCLK2:  04680568:12:0
SCET1:  1998-278/21:29:36.866   SCET2:  1998-278/21:30:45.533
TARGET: CAL                     PARTITION: 1

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

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

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

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

EDIT TABLE

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

17NNPCTRLT01

OAPEL: 17NNPCTRLT01 ALIAS: LSNNPCTRLT01
EXT: S PSID: FB
SCLK1: 04680573:00:0 SCLK2: 04680582:12:0
SCET1: 1998-278/21:35:40.866 SCET2: 1998-278/21:44:56.866
TARGET: CAL PARTITION: 1

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

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

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

WETGID: 0303252000 03 03 252 000
WTGRP_SIZ: 3

EDIT TABLE

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

17NNRCTRLT01

OAPEL: 17NNRCTRLT01 ALIAS: LSNNRCTRTA01
EXT: R PSID: XU
SCLK1: 04715999:00:0 SCLK2: 04715999:12:0
SCET1: 1998-303/18:35:16.933 SCET2: 1998-303/18:35:24.933
TARGET: CAL PARTITION: 1

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

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

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

WETGID: 0303252000 03 03 252 000
WTGRP_SIZ: 3

EDIT TABLE

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

17NNRCTRLT01

OAPEL: 17NNRCTRLT01 ALIAS: LSNNRCTRTA01
EXT: S PSID: XU
SCLK1: 04716005:00:0 SCLK2: 04716006:12:0
SCET1: 1998-303/18:40:80.933 SCET2: 1998-303/18:42:29.600
TARGET: CAL PARTITION: 1

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

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

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

WETGID: 0303252000 03 03 252 000
WTGRP_SIZ: 3

EDIT TABLE

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

17NNRCTRLT01

OAPEL: 17NNRCTRLT01 ALIAS: LSNNRCTRTA01
EXT: T PSID: XU
SCLK1: 04716011:00:0 SCLK2: 04716011:12:0
SCET1: 1998-303/18:47:24.933 SCET2: 1998-303/18:47:32.933
TARGET: CAL PARTITION: 1

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

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

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

WETGID: 0303252000 03 03 252 000
WTGRP_SIZ: 3

EDIT TABLE

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

17NNOPCAL_01

```
OAPEL:  17NNOPCAL_01            ALIAS:  LSNNOPCAL_01
EXT:    R                       PSID:   DC
SCLK1:  04716015:00:0           SCLK2:  04716017:12:0
SCET1:  1998-303/18:51:27.600   SCET2:  1998-303/18:53:36.933
TARGET: CAL                     PARTITION: 1

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

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

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

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

EDIT TABLE

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

NIMS E17 OBSTAB

This is a time-ordered ASCII TABLE (listing) of GALILEO NIMS observation parameters for use by downlink data processing of the NIMS E17 data. Each Obstab entry is 512 bytes long but is presented here as 4 lines of 128 characters per entry. Included items come from NIMS commands in (1) the Standard Sequence Data File (SSDF) and (2) the Playback Table Update Process (PTUP), plus some items from (3) the NIMS/CDS software load.

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

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

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

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

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

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

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

```
-------------------------------------------------------------------------------------------------------------------------------
17JNJUPRTS0117JNJUPRTS01RDA04665439:00:004665448:12:21         JUPITER  3214 1 1 0 0 124 1 1 0 0 12400100 1101111011 0 0.00.0000
0000000                  408RT 1998-268/06:33:32.0661998-268/06:40:46.066
          000000000000000000000000000000000000000000000000302408000 2241FFFF0200000

17ENEUR20H0117ENEUR20H01AEA04665462:87:004665465:90:01         EUROPA   3414 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                  240LPU  98-268/06:57:45.400  98-268/07:00:49.400
          000000000000000000000000000000000000000000000000003262400012601005FF01005FF01005FF01005FF01005FF01005FF01005FF01005
FF01005FF01005FF01005FF01005FF01005FF01005FF01005FF01005FF01005FF01005FF01000000100000
17ENEUR20H0117ENEUR20H01CEA04665466:00:004665466:42:01         EUROPA   3314 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                  240LPU  98-268/07:00:50.066  98-268/07:01:18.733
          000000000000000000000000000000000000000000000000003262400012601005FF01005FF01005FF01005FF01005FF01005FF01005FF01005
FF01005FF01005FF01005FF01005FF01005FF01005FF01005FF01005FF01005FF01005FF01000000100000
17ENEUR20H0117ENEUR20H01BEA04665467:34:004665471:83:01         EUROPA   3314 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                  240LPU  98-268/07:02:14.066  98-268/07:06:49.400
          000000000000000000000000000000000000000000000000003262400012601 1BDC8011BDC8011BDC8011BDC8011BDC8011BDC8011BDC8011BD
C8011BDC8011BDC8011BDC8011BDC8011BDC8011BDC8011BDC8011BDC8011BDC8011BDC8011BDC801000000100000
17JNWHTOVL0117JNWHTOVL01AEB04665685:00:004665694:73:01         JUPITER  3414 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                   66LPU  98-268/10:42:16.066  98-268/10:52:11.400
          000000000000000000000000000000000000000000000000003260660012601000030100003010000301000030100003010000701000
070100007010000701000070100007010000701000070100007010000701000070100007010000701000070100007010000701000070100000100000
17JNWHTOVL0217JNWHTOVL02AEC04665759:00:004665768:73:01         JUPITER  3414 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                   66LPU  98-268/11:57:05.400  98-268/12:07:00.733
          000000000000000000000000000000000000000000000000003260660012601000030100003010000301000030100003010000701000
070100007010000701000070100007010000701000070100007010000701000070100007010000701000070100007010000701000070100000100000
17JNJUPRTS0217JNJUPRTS02RDB04665779:00:004665788:12:01         JUPITER  3214 1 1 0 0 124 1 1 0 0 12400100 1101111011 0 0.00.0000
0000000                  408RT 1998-268/12:17:18.7331998-268/12:26:32.733
          000000000000000000000000000000000000000000000000302408000 2241FFFF0200000

17JNWHTOVL0317JNWHTOVL03AED04665794:00:004665803:73:01         JUPITER  3214 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                  249LPU  98-268/12:32:28.733  98-268/12:42:24.066
          000000000000000000000000000000000000000000000000003262490012601 1CC30111CC30111CC30111CC30113DC30113DC30113DC7011BD
C7011BD87011BDC7010BDC7010BDC7010BDC7010BDC7010BDC7010BDC7011BD87011BD87011BD07011BD07011BD87011BD87011BD87011B98701000000100000
17JNJUPRTS0317JNJUPRTS03RDC04665906:00:004665915:12:01         JUPITER  3214 1 1 0 0 124 1 1 0 0 12400100 1101111011 0 0.00.0000
0000000                  408RT 1998-268/14:25:43.4001998-268/14:34:57.400
          000000000000000000000000000000000000000000000000302408000 2241FFFF0200000

17ENGLOBAL0117ENGLOBAL01ADD04666410:00:004666454:38:01         EUROPA   3314 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                  228MPW  98-268/22:55:19.400  98-268/23:40:14.733
          000000000000000000000000000000000000000000000000003262280012601 3C00011BDFF0103C00011BDFF0103C00011BDFF0103C00011BD
FF0103C00011BDFF0103C00011BDFF0103C00011BDFF0103C00011BDFF0103C00011BDFF0103C00011BDFF01000000100000
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17ENSUCOMP0117ENSUCOMP01ADE04666672:87:004666692:08:01         EUROPA   3414 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                  360MPW  98-269/03:21:12.066  98-269/03:40:32.733
          00000000000000000000000000000000000000000000000000003263600012601 1BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF01000000100000
17ENSUCOMP0217ENSUCOMP02ADF04666710:87:004666727:64:01         EUROPA   4414 1 0 0 0 124 1 0 0 0 12400010 0000000000 1 2.00.3000
0065525                  360MPW  98-269/03:59:37.400  98-269/04:16:34.066
          00000000000000000000000000000000000000000000000000004263600012601 1BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF01000000100000
17ENSUCOMP0317ENSUCOMP03ADG04666730:86:004666752:54:01         EUROPA   3414 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                  360MPW  98-269/04:19:50.733  98-269/04:41:43.400
          00000000000000000000000000000000000000000000000000003263600012601 1BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF01000000100000
17ENSUCOMP0417ENSUCOMP04ADH04666754:86:004666764:62:01         EUROPA   3414 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                  360MPW  98-269/04:44:06.733  98-269/04:53:56.733
          00000000000000000000000000000000000000000000000000003263600012601 1BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF01000000100000
17ENGLOBAL0217ENGLOBAL02ADI04667020:00:004667026:90:01         EUROPA   3414 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                  360MPW  98-269/09:12:06.000  98-269/09:19:10.000
          00000000000000000000000000000000000000000000000000003263600012601 1BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF01000000100000
17ENGLOBAL0217ENGLOBAL02BDI04667027:00:004667041:90:01         EUROPA   3314 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                  360MPW  98-269/09:19:10.666  98-269/09:34:20.000
          00000000000000000000000000000000000000000000000000003263600012601 1BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF01000000100000
17ENGLOBAL0217ENGLOBAL02CDI04667042:00:004667048:70:01         EUROPA   3414 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                  360MPW  98-269/09:34:20.666  98-269/09:41:11.333
          00000000000000000000000000000000000000000000000000003263600012601 1BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF01000000100000
17NNPCTRLT01LSNNPCTRLT01RFB04680567:00:004680568:12:01         CAL      3414 1 1 0 0 124 1 1 0 0 12400100 1101111011 0 0.00.0000
0000000                  252RT 1998-278/21:29:36.8661998-278/21:30:45.533
          00000000000000000000000000000000000000000000000000303252000 3121FFC0121FF800200000

17NNPCTRLT01LSNNPCTRLT01SFB04680573:00:004680582:12:01         CAL      3414 1 1 0 0 124 1 1 0 0 12400100 1101111011 0 0.00.0000
0000000                  252RT 1998-278/21:35:40.8661998-278/21:44:56.866
          00000000000000000000000000000000000000000000000000303252000 3121FFC0121FF800200000

17NNRCTRLT01LSNNRCTRTA01RXU04715999:00:004715999:12:01         CAL      3114 1 1 0 0 124 1 1 0 0 12400100 1101111011 0 0.00.0000
0000000                  252RT 1998-303/18:35:16.9331998-303/18:35:24.933
          00000000000000000000000000000000000000000000000000303252000 312003FF12007FF0200000

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17NNRCTRLT01LSNNRCTRTA01SXU04716005:00:004716006:12:01         CAL      3114 1 1 0 0 124 1 1 0 0 12400100 1101111011 0 0.00.0000
0000000                  252RT 1998-303/18:40:80.9331998-303/18:42:29.600
          00000000000000000000000000000000000000000000000000303252000 312003FF12007FF0200000

17NNRCTRLT01LSNNRCTRTA01TXU04716011:00:004716011:12:01         CAL      3114 1 1 0 0 124 1 1 0 0 12400100 1101111011 0 0.00.0000
0000000                  252RT 1998-303/18:47:24.9331998-303/18:47:32.933
          00000000000000000000000000000000000000000000000000303252000 312003FF12007FF0200000

17NNOPCAL_01LSNNOPCAL_01RDC04716015:00:004716017:12:01         CAL      3414 1 1 0 0 124 1 1 0 0 12401100 1101111011 0 0.00.0000
0000000                  048RT 1998-303/18:51:27.6001998-303/18:53:36.933
          00000000000000000000000000000000000000000000000000302048000 224180000200000

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Chapter 5 - Detailed Observation Designs

Contents

Introduction to Chapter 5

Detailed Observation Designs

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

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

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

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

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

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

NIMS Software Reload

ACTIVITY ID: 17NNJUPRTS01-
START TIME: 98-268/06:17:55.335

Activity ID: Orbit 17 Target N Inst N OAPEL JUPRTS SeqNo 01 -

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

Time System	CDS	Load ID	Calendar Date	09/25/98	Week 39
Start	JEE-CDS 00001550:00:0	98-268/06:17:55.335		JEE-001/02:07:13.333	
End	JEE-CDS 00001540:00:0	98-268/06:28:02.002		JEE-001/01:57:06.666	
Duration	00000010:00:0	000/00:10:06.667		000/00:10:06.667	

Top Label	17NNJUPRTS01-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	0	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

NIMS Software Reload

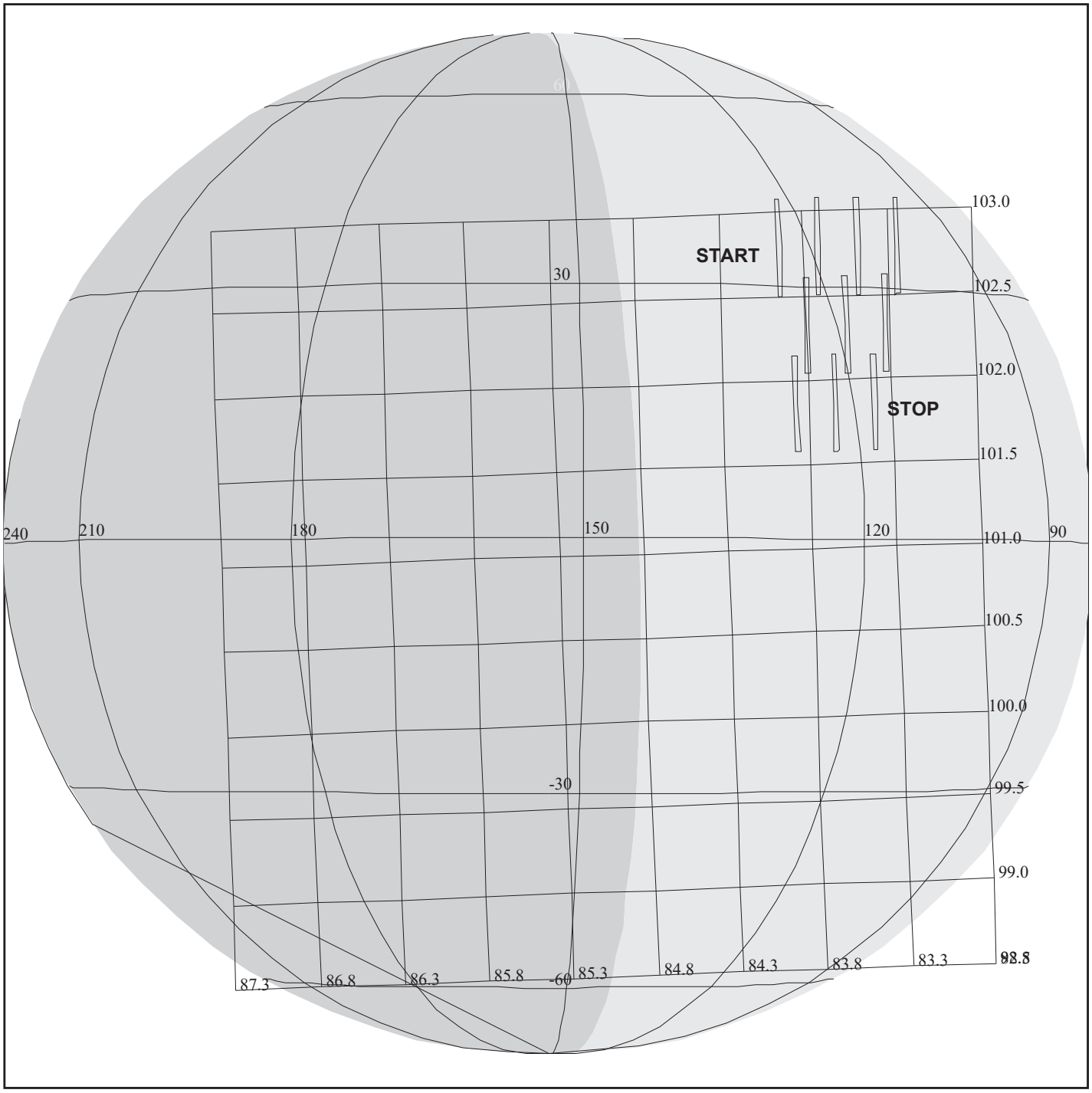
Each NIMS GEM observation will have an instrument reload before the start of each observation. Each reload has its own OAPEL form, but only this first form is included in the NIMSGUIDE.

The NIMS E17 reload OAPELs are:
17NNJUPRTS01,17NNEUR20H01,17NNWHTOVL01,17NNWHTOVL02,
17NNJUPRTS02,17NNWHTOVL03,17NNJUPRTS03,17NNGLOBAL01,
17NNSUCOMP01,17NNSUCOMP02,17NNSUCOMP03,17NNSUCOMP04,
17NNGLOBAL02

Design Detail

Use a standard set of commands to halt the instrument, load the software and reinitialize the instrument.

37PL - Halt NIMS Processor
37MRL - Memory Reallocate
6MCOPY - Copy flight software from CDS to NIMS 1000
6MCOPY - Copy flight software from CDS to NIMS 1598
37IRT - Instrument Reset
37MN - Memory Normal
37IST - Chopper Reference



165DA:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/8836 TC= 1(35 125)
A= 728 pD= 1810 SR=17.450 RA50=251.32 DEC50=-22.20 cone= 83.94 clock=102.78
117DA:#SB= 1 OR= 0.060 RR=12.000 BM=F RC= 1 BS= 0/8836
1:#s= 3 Cs= -11.50 XCs= 0.00 Cr= 13.00 XCr= -8.00 sD= 582 rD= 24

17JNJUPRTS01

TARGET G3.1 lisac: 8/21/1998 14:45:10

FILE:P.17JNJUPRTS01

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-980723-tour.NS

PERIAPSIS:

THINNING:NIM 7

START:JEE 98-269/08:26:40.000 -CDS 1536:00:0

BODY PLOT TIME:TARGET-TIME D= 1810 S= 1.000

OBSERVATION:17JNJUPRTS01

DESCRIP:Jupiter_Realtime_Observation

Jupiter Realtime Observation

ACTIVITY ID: 17JNJUPRTS01*
START TIME: 98-268/06:28:02.002

Activity ID: Orbit 17 Target J Inst N OAPEL JUPRTS SeqNo 01 *

Title	Jupiter Realtime Observation	Instrument	NIMS
Requestor	NIMS-AWG/A. OCAMPO	Team NIMS	Working Group AWG

Time System	CDS	Load ID	Calendar Date 09/25/98 Week 39
Start	JEE-CDS 00001540:00:0	98-268/06:28:02.002	JEE-001/01:57:06.666
End	JEE-CDS 00001526:00:0	98-268/06:42:11.335	JEE-001/01:42:57.333
Duration	00000014:00:0	000/00:14:09.333	000/00:14:09.333

Top Label 17JNJUPRTS01*
Bottom Label

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

Observation Objective

Search for Jupiter atmospheric composition and thermal variations over time.

FREE_RTS = 0.16 Mbits

Data Returned

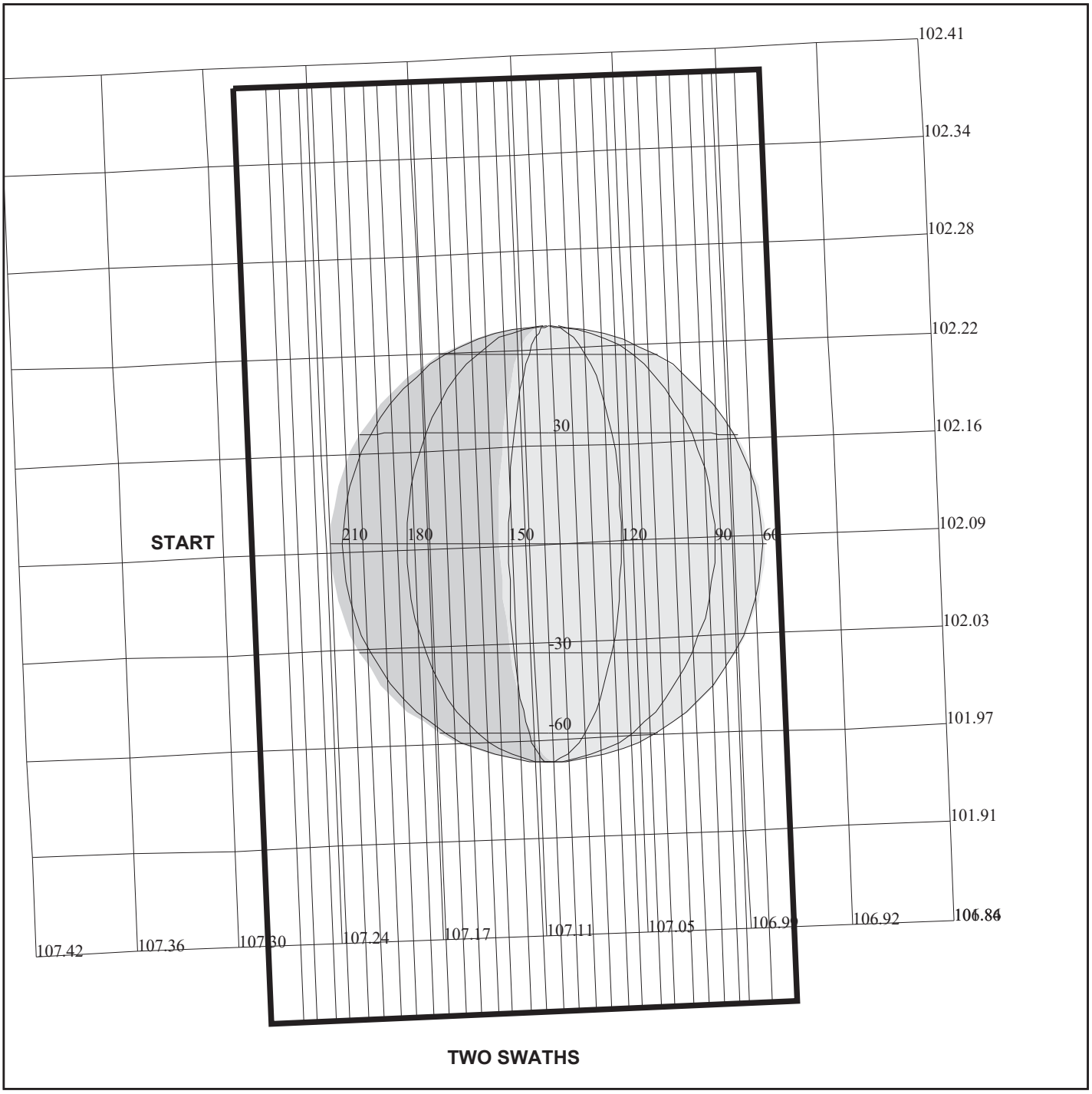
Design Detail

Long map. Three scans, each three RIMS long.
Target to 35 North latitude on the first scan.
No scan overlap, Nyquist sampling not necessary - lit surface only not longitude dependent. No overlap in FOV.
NIMS R/T only returns every seventh FOV.

SPACECRAFT IN CRUISE MODE - UNCOMPENSATED SPACECRAFT WOBBLE PRESENT

Long Map (LM), Gain 2, Grating Start 0, R/T, RT408

Galileo Activity Plan Form 08/31/98 13:50:52 rev 6/95



TWO SWATHS

165EA:TT= 0 TMC= 1 C= 3.00 XC= 0.00 BS= 0/3022 TC= 3
A= 728 pD= 1810 SR=17.450 RA50=276.66 DEC50=-24.44 cone=107.27 clock=102.09
117EA:#SB= 1 OR= 0.020 RR=12.000 BM=F RC= 1 BS= 0/3022
1:#s= 2 Cs= -5.20 XCs= 0.00 Cr= 5.20 XCr= 0.00 sD= 814 rD= 182

17ENEUR20H01

TARGET G3.1 lisac: 8/21/1998 14:45:10

FILE:P.17ENEUR20H01

TARGET BODY : EUROPA

MINI:m.target

S/C EPH:/DATA/NAVIO/T-980723-tour.NS

PERIAPSIS:

THINNING:NIM 2

START:EEE 98-269/03:54:40.733 -CDS 1244:00:0

BODY PLOT TIME:TARGET-TIME D= 1810 S= 0.400

OBSERVATION:17ENEUR20H01

DESCRIP:EUROPA_-20_HOURS

Europa 20 Hour Map

ACTIVITY ID: 17ENEUR20H01-
START TIME: 98-268/06:48:15.513

Activity ID: Orbit 17 Target E Inst N OAPEL EUR20H SeqNo 01 -

Title	Europa 20 Hour Map			Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	09/25/98 Week 39
Start	EEE-CDS 00001248:00:0	98-268/06:48:15.513		EEE-000/21:01:52.000	
End	EEE-CDS 00001234:00:0	98-268/07:02:24.847		EEE-000/20:47:42.666	
Duration	00000014:00:0	000/00:14:09.334		000/00:14:09.334	

Top Label	17ENEUR20H01-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	0	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	ALL	DMS	No

Observation Objective

Distant Europa global mapping at 20 hours prior to closest approach.
Special emphasis given to the non-ice components on Europa's surface.

Data Returned

Design Detail

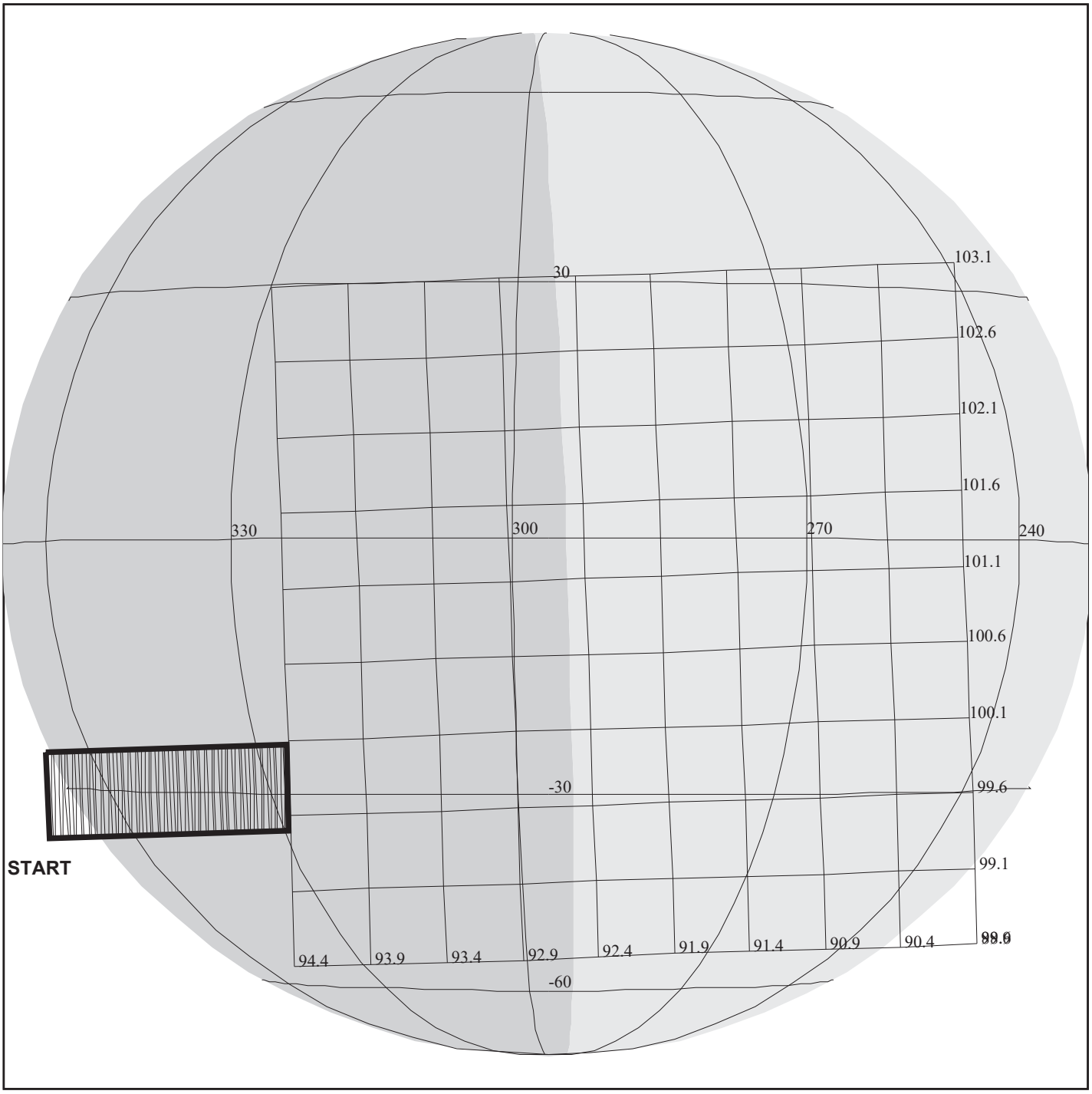
Long Map, Nyquist sampling, 2 scans across the body with one
Rim of time between the 2 scans.

First Scan in Gain State 4 - emphasis on longer wavelengths.
Second scan in Gain State 3 - emphasis on shorter wavelengths.

SPACECRAFT IN CRUISE MODE - UNCOMPENSATED SPACECRAFT WOBBLE PRESENT

Long Map (LM), Gain 4, Grating Start 0, LPU, ELM240T, ELM240T
Long Map (LM), Gain 3, Grating Start 0, LPU, ELM240V, ELM240V

Galileo Activity Plan Form 08/31/98 13:50:52 rev 6/95



165EB:TT= 0 TMC= 1 C= 12.00 XC= 0.00 BS= 0/3608 TC= 1(-30 350)
A= 546 pD= 1810 SR=17.450 RA50=264.12 DEC50=-26.46 cone= 95.99 clock= 99.83
117EB:#SB= 1 OR= 0.040 RR=12.000 BM=F RC= 1 BS= 0/3608
1:#s= 1 Cs= -24.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 1810 rD= 2

17JNWHTOVL01

TARGET G3.1 lisac: 8/21/1998 14:45:10

FILE:P.17JNWHTOVL01

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-980723-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 98-269/08:26:40.000 -CDS 1290:00:0 **BODY PLOT TIME:TARGET-TIME D= 1810 S= 1.000**

OBSERVATION:17JNWHTOVL01 **DESCRIP:NIMS_MERGING_WHITE_OVAL**

Jupiter White Oval

ACTIVITY ID: 17JNWHTOVL01-
START TIME: 98-268/10:37:46.668

Activity ID: Orbit 17 Target J Inst N OAPEL WHTOVL SeqNo 01 -

Title	Jupiter White Oval			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System CDS Load ID Calendar Date 09/25/98 Week 39

Start	JEE-CDS 00001293:00:0	98-268/10:37:46.668	JEE-000/21:47:22.000
End	JEE-CDS 00001280:00:0	98-268/10:50:55.335	JEE-000/21:34:13.333
Duration	00000013:00:0	000/00:13:08.667	000/00:13:08.667

Top Label 17JNWHTOVL01-
Bottom Label

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

Observation Objective

To observe the newly created white oval, which was formed in the Spring of 1998, from the merging of two white ovals previously named BC and DE.

Data Returned

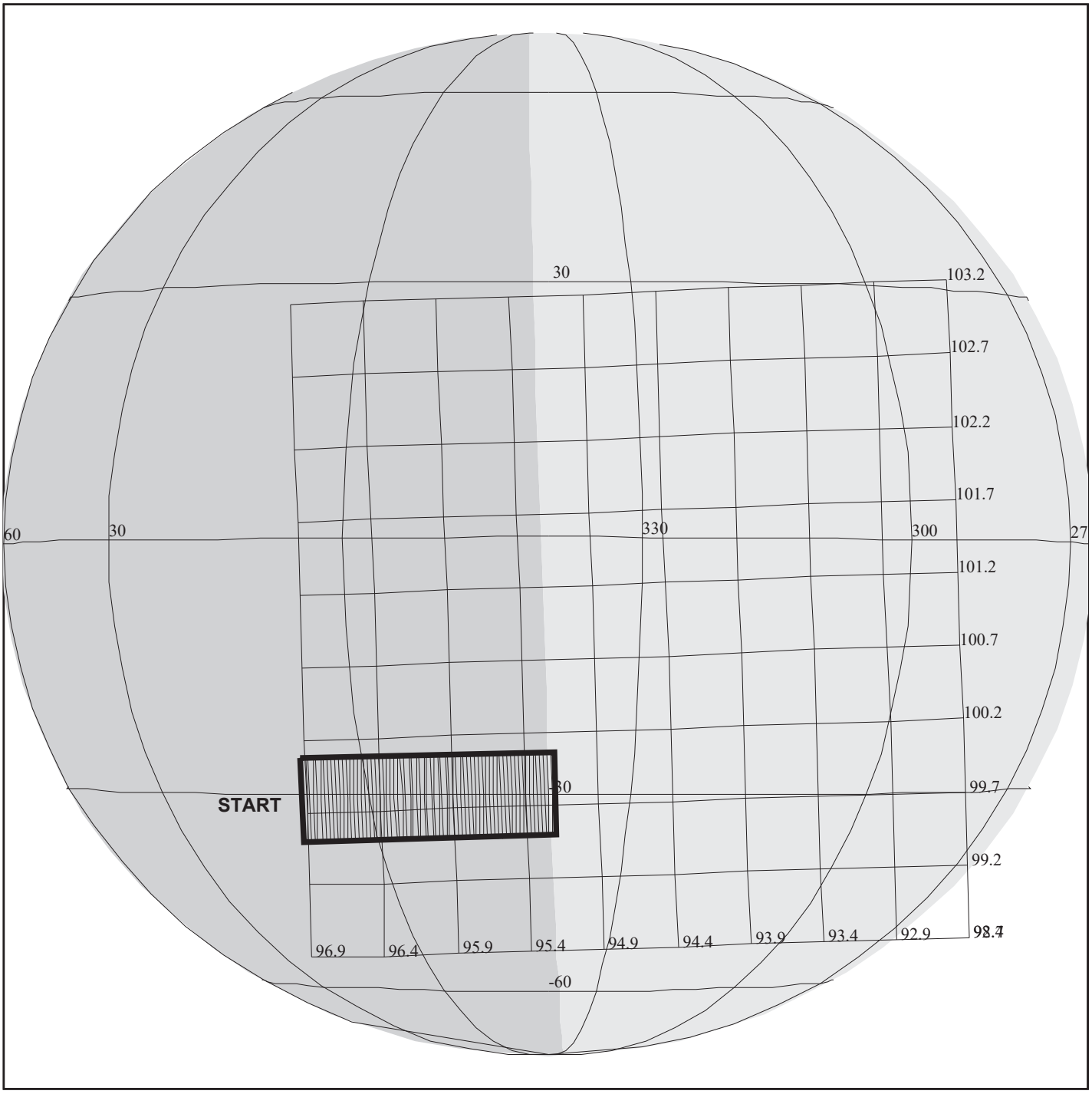
Design Detail

4 Rims of targeting time, one scan 12 Rims long.
Longitude coverage: 350 degrees to 357 degrees (centered)
Latitude: 30 degrees South
Long map mode, Nyquist sampling
Nightside.

SPACECRAFT IN CRUISE MODE - UNCOMPENSATED SPACECRAFT WOBBLE PRESENT

Long Map (LM), Gain 4, Grating Start 0, LPU, JSB253B, JSB66B

Galileo Activity Plan Form 08/31/98 13:50:53 rev 6/95



165EC:TT= 0 TMC= 1 C= 18.00 XC= 0.00 BS= 0/7076 TC= 1(-30 350)
A= 728 pD= 1810 SR=17.450 RA50=265.12 DEC50=-26.56 cone= 96.89 clock= 99.78
117EC:#SB= 1 OR= 0.040 RR=12.000 BM=F RC= 1 BS= 0/7076
1:#s= 1 Cs= -24.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 1810 rD= 2

17JNWHTOVL02

TARGET G3.1 lisac: 8/21/1998 14:45:10

FILE:P.17JNWHTOVL02

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-980723-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 98-269/08:26:40.000 -CDS 1216:00:0 **BODY PLOT TIME:TARGET-TIME D= 1810 S= 1.000**

OBSERVATION:17JNWHTOVL02 **DESCRIP:NIMS_MERGING_WHITE_OVAL**

Jupiter White Oval

ACTIVITY ID: 17JNWHTOVL02-
START TIME: 98-268/11:51:35.335

Activity ID: Orbit 17 Target J Inst N OAPEL WHTOVL SeqNo 02 -

Title	Jupiter White Oval			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	09/25/98 Week 39
Start	JEE-CDS 00001220:00:0	98-268/11:51:35.335		JEE-000/20:33:33.333	
End	JEE-CDS 00001206:00:0	98-268/12:05:44.668		JEE-000/20:19:24.000	
Duration	00000014:00:0	000/00:14:09.333		000/00:14:09.333	

Top Label 17JNWHTOVL02-
Bottom Label

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

Observation Objective

To observe the newly created white oval, which was formed in the Spring of 1998, from the merging of two white ovals previously named BC and DE.

Data Returned

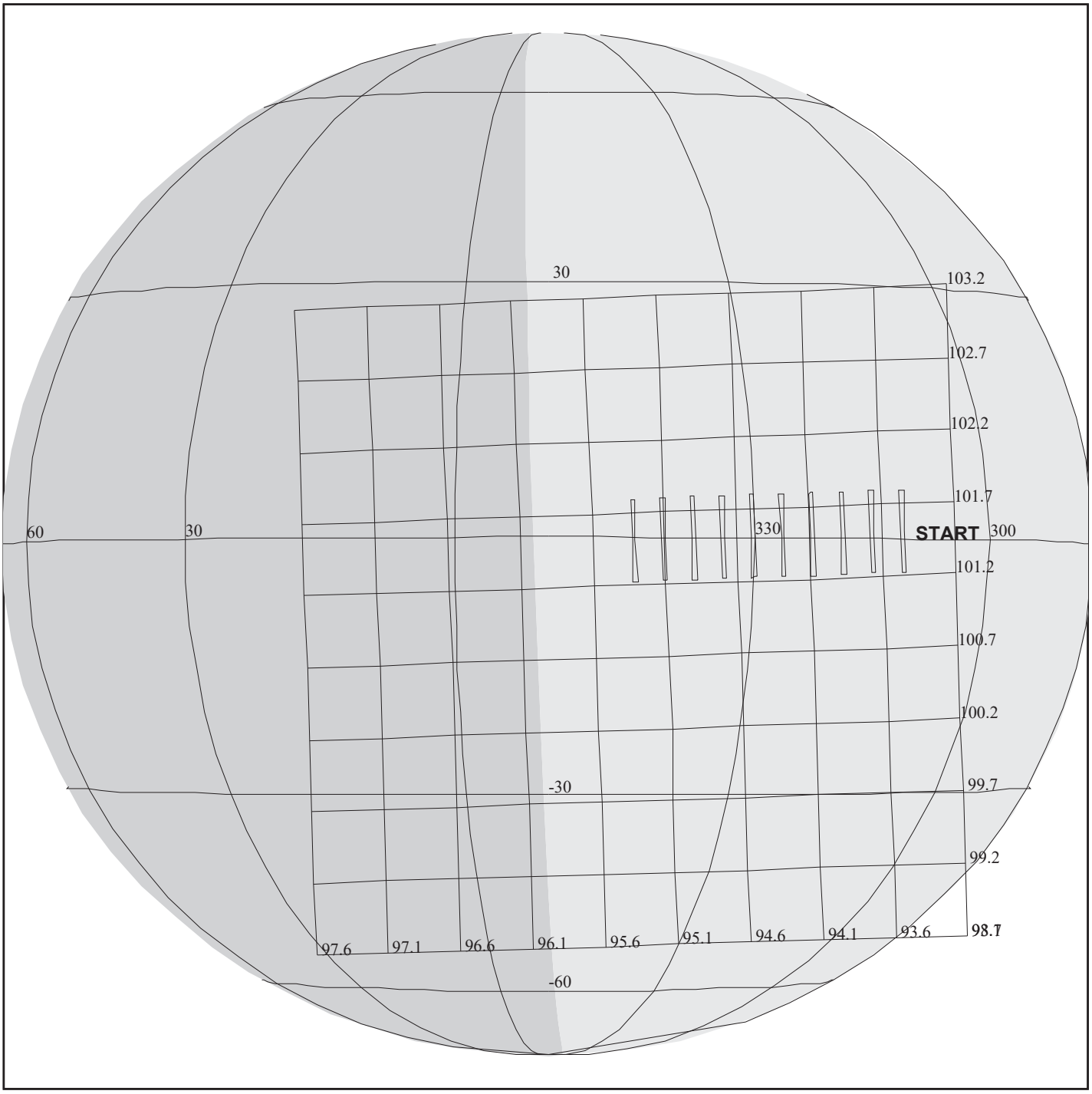
Design Detail

4 Rims of targeting time, one scan 12 Rims long.
Longitude coverage: 350 degrees to 357 degrees (centered)
Latitude: 30 degrees South
Long map mode, Nyquist sampling
Nightside and Terminator.

SPACECRAFT IN CRUISE MODE - UNCOMPENSATED SPACECRAFT WOBBLE PRESENT

Long Map (LM), Gain 4, Grating Start 0, LPU, JSB253B, JSB66B

Galileo Activity Plan Form 08/31/98 13:50:53 rev 6/95



165DB:TT= 0 TMC= 1 C= -43.00 XC= 0.00 BS= 0/0716 TC= 3
A= 728 pD= 1810 SR=17.450 RA50=261.39 DEC50=-24.59 cone= 93.40 clock=101.52
117DB:#SB= 1 OR= 0.060 RR=12.000 BM=F RC= 1 BS= 0/0716
1:#s= 1 Cs= 36.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 1810 rD= 2

17JNJUPRTS02

TARGET G3.1 lisac: 8/21/1998 14:45:10

FILE:P.17JNJUPRTS02

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-980723-tour.NS

PERIAPSIS: **THINNING:NIM 7**

START:JEE 98-269/08:26:40.000 -CDS 1196:00:0 **BODY PLOT TIME:TARGET-TIME D= 1810 S= 1.000**

OBSERVATION:17JNJUPRTS02 **DESCRIP:Jupiter_Realtime_Observation**

Jupiter Realtime Observation — ACTIVITY ID: 17JNJUPRTS02* — START TIME: 98-268/12:11:48.668

Activity ID: Orbit 17 Target J Inst N OAPEL JUPRTS SeqNo 02 *

Title	Jupiter Realtime Observation			Instrument	NIMS
Requestor	NIMS-AWG/A. OCAMPO	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	09/25/98 Week 39
Start	JEE-CDS 00001200:00:0	98-268/12:11:48.668		JEE-000/20:13:20.000	
End	JEE-CDS 00001186:00:0	98-268/12:25:58.002		JEE-000/19:59:10.666	
Duration	00000014:00:0	000/00:14:09.334		000/00:14:09.334	

Top Label	17JNJUPRTS02*				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	0	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

Search for Jupiter atmospheric composition and thermal variations over time.

FREE_RTS=0.16 Mbits

Data Returned

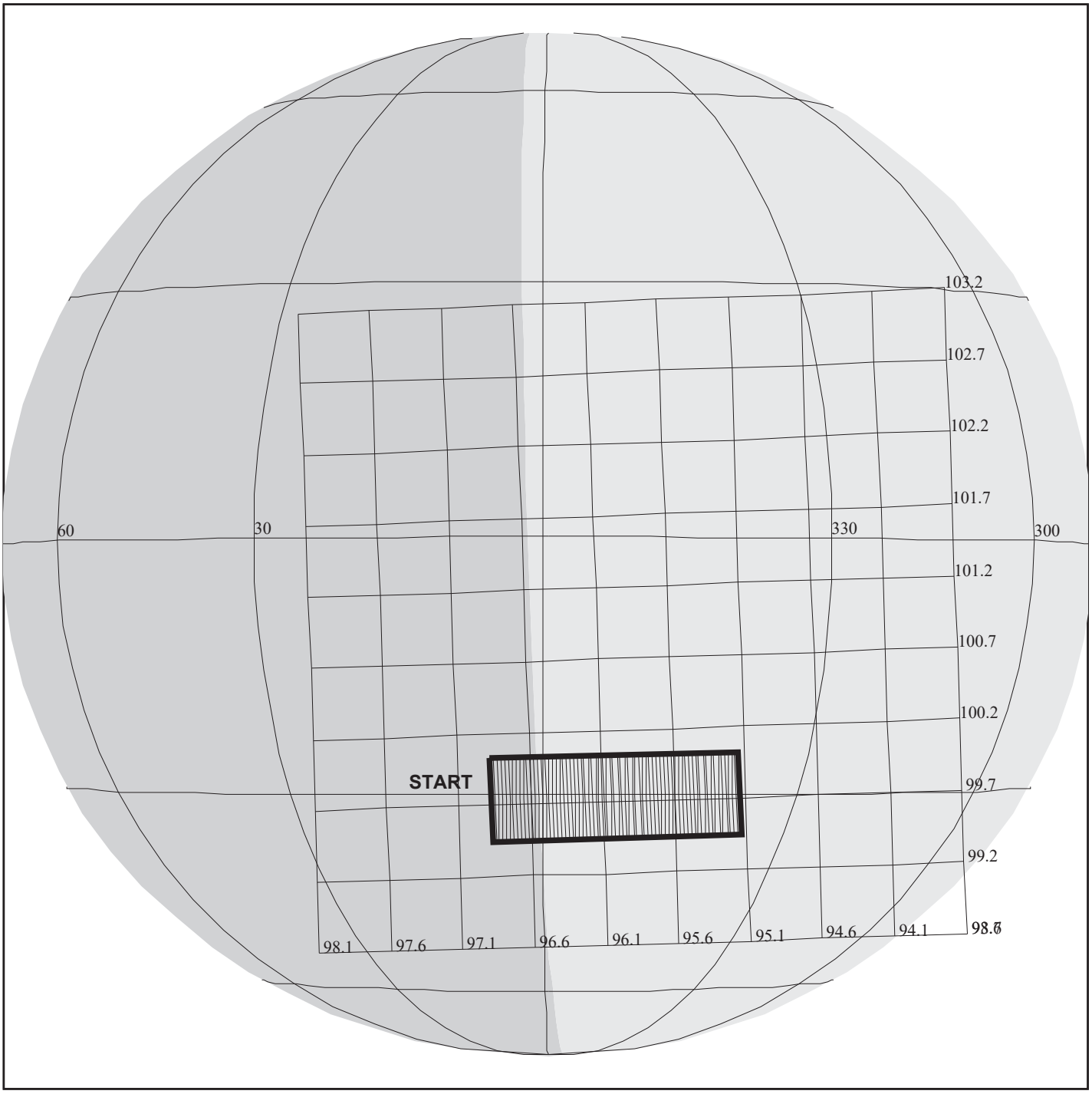
Design Detail

Long map. One scan ten RIMS long.
Equator - Nyquist sampling not necessary.
Longitude - not dependent. No overlap in FOV.
NIMS R/T only returns every seventh FOV.

SPACECRAFT IN CRUISE MODE - UNCOMPENSATED SPACECRAFT WOBBLE PRESENT

Long Map (LM), Gain 2, Grating Start 0, R/T, RT408

Galileo Activity Plan Form 08/31/98 13:50:53 rev 6/95



165ED:TT= 0 TMC= 1 C= 17.00 XC= 0.00 BS= 0/3446 TC= 1(-30 350)
A= 728 pD= 1810 SR=17.450 RA50=265.09 DEC50=-26.59 cone= 96.87 clock= 99.76
117ED:#SB= 1 OR= 0.040 RR=12.000 BM=F RC= 1 BS= 0/3446
1:#s= 1 Cs= -24.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 1810 rD= 2

17JNWHTOVL03

TARGET G3.1 lisac: 8/21/1998 14:45:10

FILE:P.17JNWHTOVL03

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-980723-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 98-269/08:26:40.000 -CDS 1181:00:0 **BODY PLOT TIME:TARGET-TIME D= 1810 S= 1.000**

OBSERVATION:17JNWHTOVL03 **DESCRIP:NIMS_MERGING_WHITE_OVAL**

Jupiter White Oval

ACTIVITY ID: 17JNWHTOVL03-
START TIME: 98-268/12:27:59.335

Activity ID: Orbit 17 Target J Inst N OAPEL WHTOVL SeqNo 03 -

Title	Jupiter White Oval			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	09/25/98 Week 39
Start	JEE-CDS 00001184:00:0	98-268/12:27:59.335		JEE-000/19:57:09.333	
End	JEE-CDS 00001170:00:0	98-268/12:42:08.668		JEE-000/19:43:00.000	
Duration	00000014:00:0	000/00:14:09.333		000/00:14:09.333	

Top Label 17JNWHTOVL03-
Bottom Label

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

Observation Objective

To observe the newly created white oval, which was formed in the Spring of 1998, from the merging of two white ovals previously named BC and DE.

Data Returned

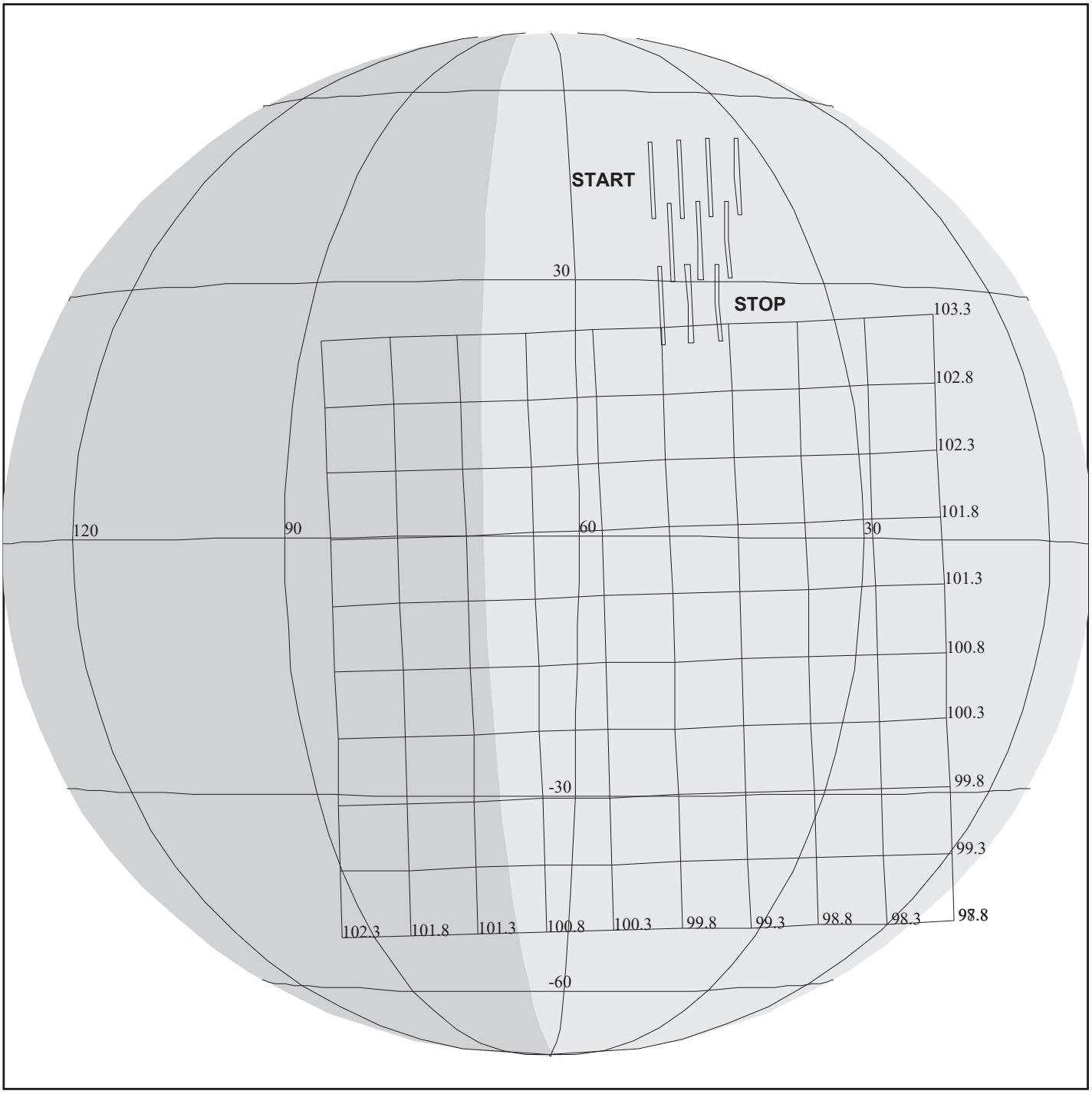
Design Detail

4 Rims of targeting time, one scan 12 Rims long.
Longitude coverage: 350 degrees to 357 degrees (centered)
Latitude: 30 degrees South
Long map mode, Nyquist sampling
Terminator and Dayside.

SPACECRAFT IN CRUISE MODE - UNCOMPENSATED SPACECRAFT WOBBLE PRESENT

Long Map (LM), Gain 2, Grating Start 0, LPU, JSB253B, JSB253B

Galileo Activity Plan Form 08/31/98 13:50:53 rev 6/95



165DC:TT= 0 TMC= 1 C= -15.00 XC= 46.00 BS= 0/3648 TC= 3
A= 728 pD= 1810 SR=17.450 RA50=268.62 DEC50=-22.13 cone= 99.87 clock=104.41
117DC:#SB= 1 OR= 0.060 RR=12.000 BM=F RC= 1 BS= 0/3648
1:#s= 3 Cs= -11.50 XCs= 0.00 Cr= 12.00 XCr= -8.00 sD= 582 rD= 26

17JNJUPRTS03

TARGET G3.1 lisac: 8/21/1998 14:45:10

FILE:P.17JNJUPRTS03

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-980723-tour.NS

PERIAPSIS: **THINNING:NIM 7**

START:JEE 98-269/08:26:40.000 -CDS 1070:00:0 **BODY PLOT TIME:TARGET-TIME D= 1810 S= 1.000**

OBSERVATION:17JNJUPRTS03 **DESCRIP:Jupiter_Realtime_Observation**

Jupiter Realtime Observation

ACTIVITY ID: 17JNJUPRTS03*
START TIME: 98-268/14:20:13.335

Activity ID: Orbit 17 Target J Inst N OAPEL JUPRTS SeqNo 03 *

Title	Jupiter Realtime Observation	Instrument	NIMS
Requestor	NIMS-AWG/A. OCAMPO	Team NIMS	Working Group AWG

Time System	CDS	Load ID	Calendar Date 09/25/98 Week 39
Start	JEE-CDS 00001073:00:0	98-268/14:20:13.335	JEE-000/18:04:55.333
End	JEE-CDS 00001058:00:0	98-268/14:35:23.335	JEE-000/17:49:45.333
Duration	00000015:00:0	000/00:15:10.000	000/00:15:10.000

Top Label 17JNJUPRTS03*
Bottom Label

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

Observation Objective

Search for Jupiter atmospheric composition and thermal variations over time.

FREE_RTS=0.16 Mbits

Data Returned

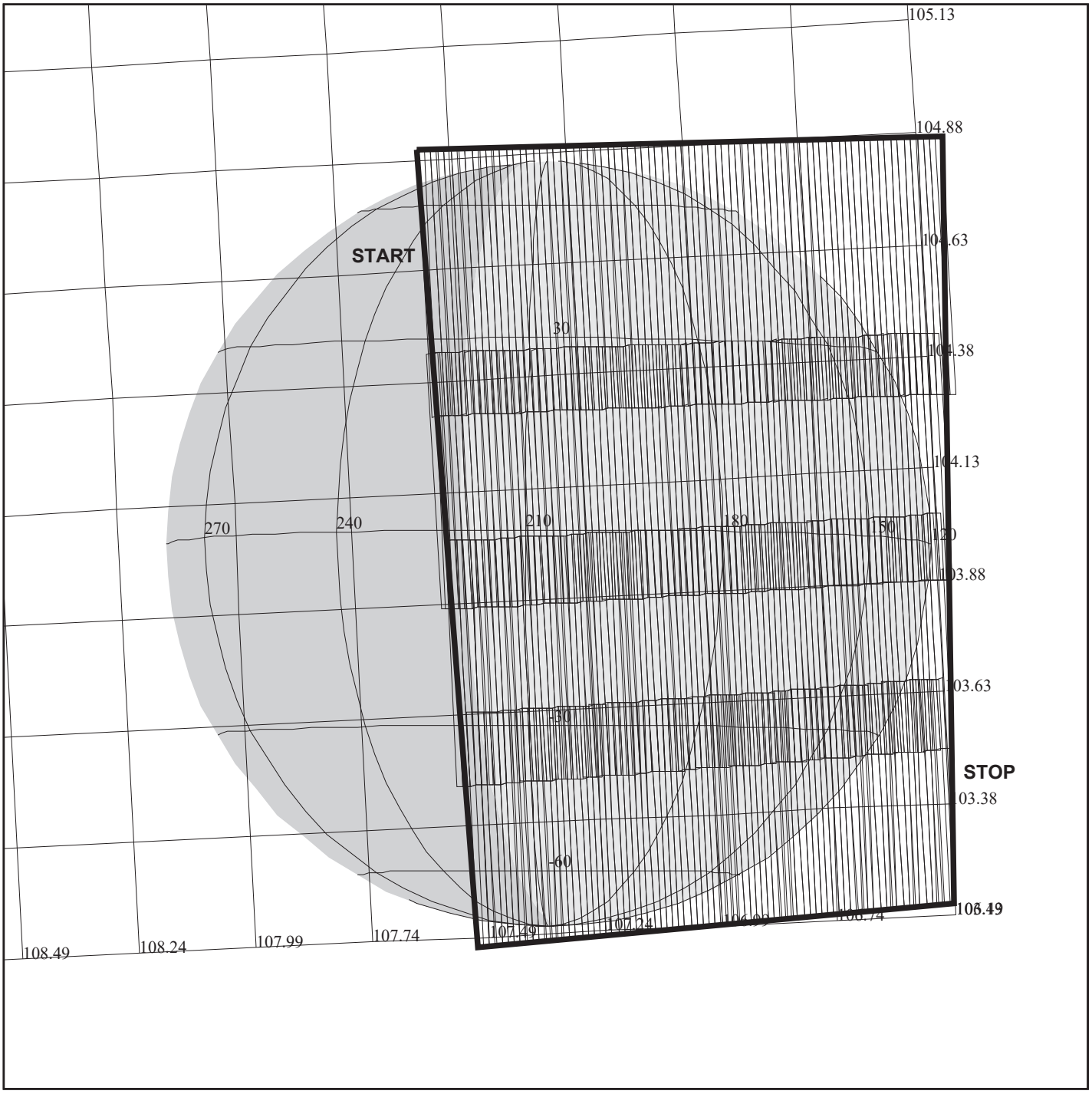
Design Detail

Long map. Three scans, each three RIMS long.
Target to 35 degrees North latitude for first scan.
No scan overlap; Nyquist sampling not necessary - lit surface only not longitudinal dependent. No overlap in FOV.
NIMS R/T only returns every seventh FOV.

SPACECRAFT IN CRUISE MODE - UNCOMPENSATED SPACECRAFT WOBBLE PRESENT

Long Map (LM), Gain 2, Grating Start 0, R/T, RT408

Galileo Activity Plan Form 08/31/98 13:50:54 rev 6/95



165DD:TT= 0 TMC= 1 C= 4.00 XC= 10.00 BS= 0/5558 TC= 3
A= 728 pD= 8180 SR=17.450 RA50=276.92 DEC50=-22.04 cone=107.55 clock=104.60
117DD:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/5558
1:#s= 4 Cs= -20.20 XCs= 0.00 Cr= 20.00 XCr= -7.30 sD= 2030 rD= 20

17ENGLOBAL01

TARGET G3.1 lisac: 8/21/1998 14:45:10

FILE:P.17ENGLOBAL01

TARGET BODY : EUROPA

MINI:m.target

S/C EPH:/DATA/NAVIO/T-980723-tour.NS

PERIAPSIS:

THINNING:NIM 1

START:EEE 98-269/03:54:40.733 -CDS 296:00:0

BODY PLOT TIME:TARGET-TIME D= 8180 S= 0.700

OBSERVATION:17ENGLOBAL01

DESCRIP:Europa_Global_Observation

Europa Global Observation

ACTIVITY ID: 17ENGLOBAL01-
START TIME: 98-268/22:46:47.513

Activity ID: Orbit 17 Target E Inst N OAPEL GLOBAL SeqNo 01 -

Title	Europa Global Observation			Instrument	NIMS
Requestor	NIMS-SWG/A. OCAMPO	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	09/25/98 Week 39
Start	EEE-CDS 300:00:0	98-268/22:46:47.513		EEE-000/05:03:20.000	
End	EEE-CDS 00000250:00:0	98-268/23:37:20.847		EEE-000/04:12:46.666	
Duration	00000050:00:0	000/00:50:33.334		000/00:50:33.334	

Top Label	17ENGLOBAL01-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Europa global mosaic covering West longitude at 236-128 degrees at
50 KM resolution.

Data Returned

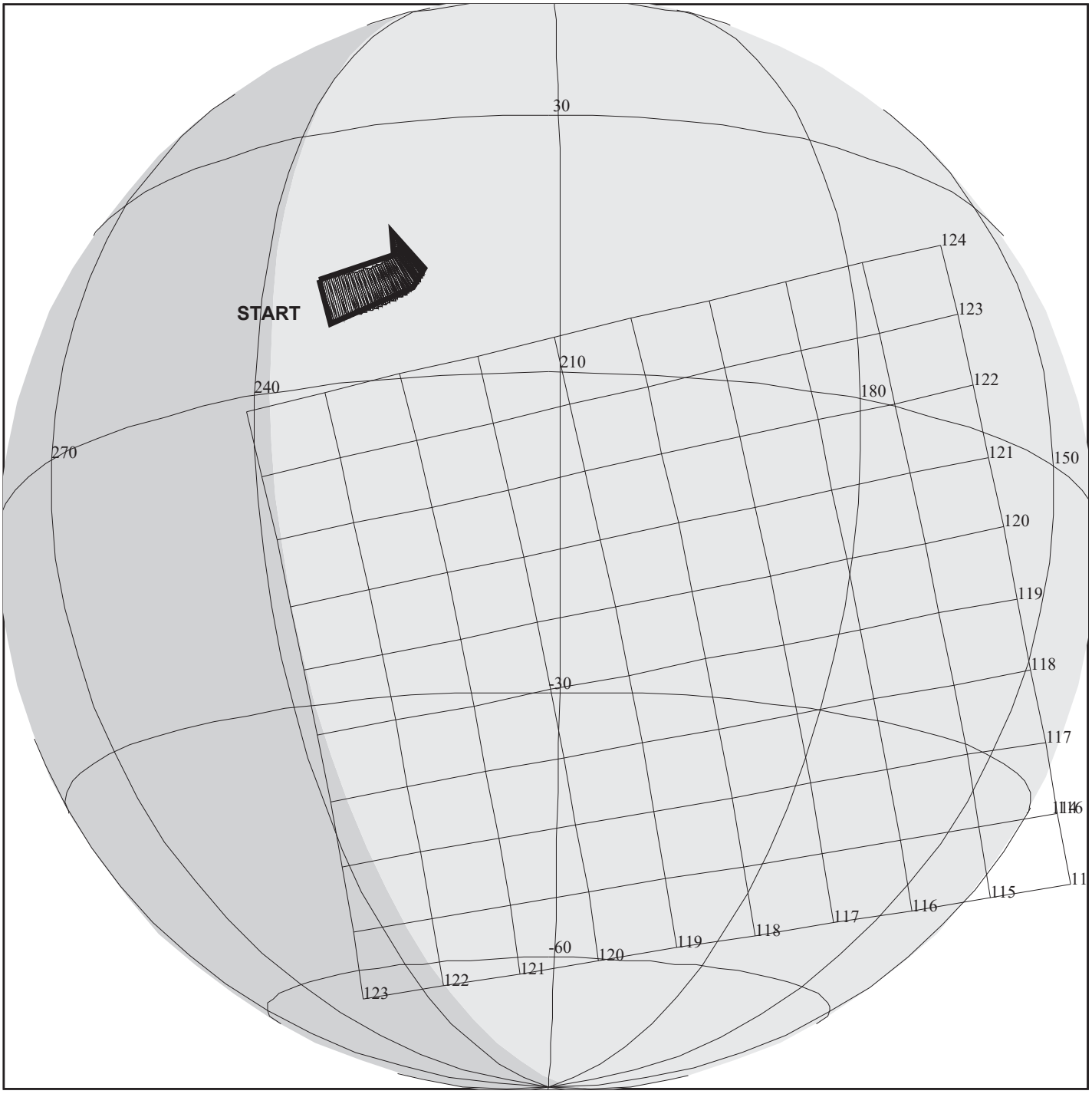
Design Detail

NIMS mode = LM TICS= 2373, FMT= MPW, MBTG= 8.890 , PPR_RA=0.459
Europa Global Mosaic
Number of swaths is four, from north to south.
Latitudes from +90 to -90 degrees.
Lit Longitudes from 220 (terminator) to 120 (limb) degrees west.
All swaths in gain state 3.

SPACECRAFT IN CRUISE MODE - UNCOMPENSATED SPACECRAFT WOBBLE PRESENT

Long Map (LM), Gain 3, Grating Start 0, MPW, ELM442, ELM228C

Galileo Activity Plan Form 08/31/98 13:50:54 rev 6/95



165DE:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/3424 TC= 1(8.65 233)
A= 728 pD= 3448 SR=17.450 RA50=291.84 DEC50= -3.56 cone=121.71 clock=125.32
117DE:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/3424
1:#s= 1 Cs= -34.30 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 3448 rD= 2

17ENSUCOMP01

TARGET G3.1 lisac: 8/21/1998 14:45:10

FILE:P.17ENSUCOMP01

TARGET BODY : EUROPA

MINI:m.target

S/C EPH:/DATA/NAVIO/T-980723-tour.NS

PERIAPSIS:

THINNING:NIM 1

START:EEE 98-269/03:54:40.733 -CDS 33:00:0

BODY PLOT TIME:TARGET-TIME D= 3448 S= 1.000

OBSERVATION:17ENSUCOMP01

DESCRIP:Europa_Surface_Composition

Europa Surface Composition

ACTIVITY ID: 17ENSUCOMP01-
START TIME: 98-269/03:11:42.180

Activity ID: Orbit 17 Target E Inst N OAPEL SUCOMP SeqNo 01 -

Title	Europa Surface Composition			Instrument	NIMS
Requestor	NIMS-SWG/J. SHIRLEY	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	09/26/98 Week 39
Start	EEE-CDS 00000038:00:0	98-269/03:11:42.180		EEE-000/00:38:25.333	
End	EEE-CDS 00000014:00:0	98-269/03:35:58.180		EEE-000/00:14:09.333	
Duration	00000024:00:0	000/00:24:16.000		000/00:24:16.000	

Top Label	17ENSUCOMP01-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Europa surface composition observation centered at 7 N, 225 W,
a region with strong non-ice material spectral features.

Data Returned

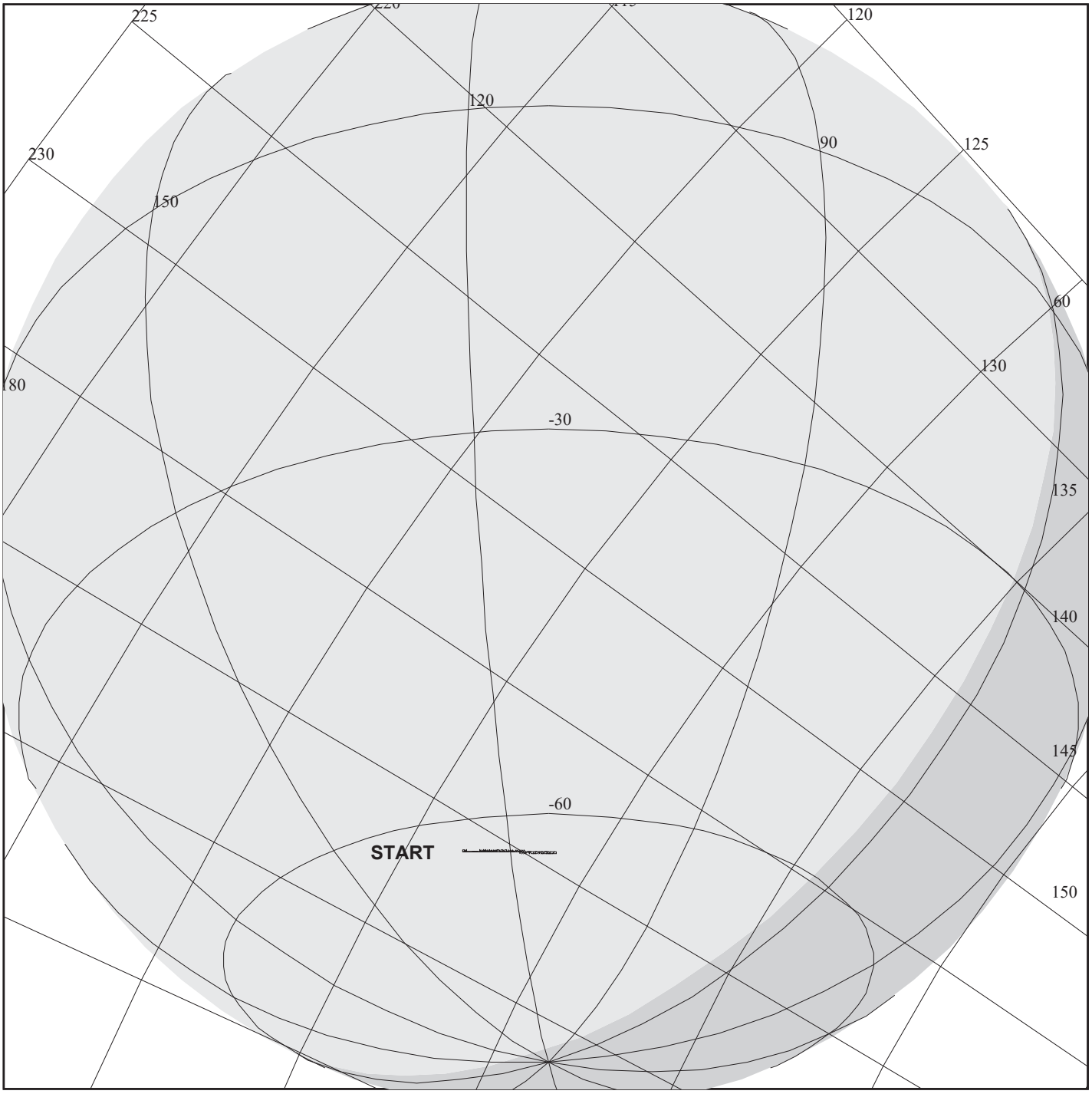
Design Detail

NIMS mode = LM TICS= 1057, FMT= MPW, MBTG= 8.098, PPR_RA=0.369
Single Swath centered near 9 degrees north latitude near the terminator.
Longitudes from 233 to 225 degrees west.
Gain state = 4 Grating position = 0

SPACECRAFT IN CRUISE MODE - UNCOMPENSATED SPACECRAFT WOBBLE PRESENT

Long Map (LM), Gain 4, Grating Start 0, MPW, ELM442, ELM360

Galileo Activity Plan Form 08/31/98 13:50:54 rev 6/95



165DF:TT= 0 TMC= 1 C= -30.00 XC= 0.00 BS= 0/0340 TC= 1(-66 120)
A= 182 pD= 3082 SR=17.450 RA50= 17.47 DEC50= 41.55 cone=126.52 clock=241.07
117DF:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/0340
1:#s= 1 Cs= 30.70 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 3082 rD= 2

17ENSUCOMP02

TARGET G3.1 lisac: 8/21/1998 14:45:10

FILE:P.17ENSUCOMP02

TARGET BODY : EUROPA

MINI:m.target

S/C EPH:/DATA/NAVIO/T-980723-tour.NS

PERIAPSIS:

THINNING:NIM 2

START:EEE 98-269/03:54:40.733 +CDS 05:00:0

BODY PLOT TIME:TARGET-TIME D= 3082 S= 1.000

OBSERVATION:17ENSUCOMP02

DESCRIP:Europa_Surface_Composition

Europa Surface Composition

ACTIVITY ID: 17ENSUCOMP02-
START TIME: 98-269/03:54:10.179

Activity ID: Orbit 17 Target E Inst N OAPEL SUCOMP SeqNo 02 -

Title	Europa Surface Composition			Instrument	NIMS
Requestor	NIMS-SWG/A. OCAMPO	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	09/26/98 Week 39
Start	EEE+CDS 4:00:0	98-269/03:54:10.179		EEE+000/00:04:02.666	
End	EEE+CDS 00000021:00:0	98-269/04:11:21.513		EEE+000/00:21:14.000	
Duration	00000017:00:0	000/00:17:11.334		000/00:17:11.334	

Top Label 17ENSUCOMP02-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Southern high latitudes of Europa imaged at high spectral resolution using long spectrometer mode to search for condensates of volatile non-water-ice materials.

Europa observed in Long Spectrometer mode for better signal-to-noise.

Data Returned

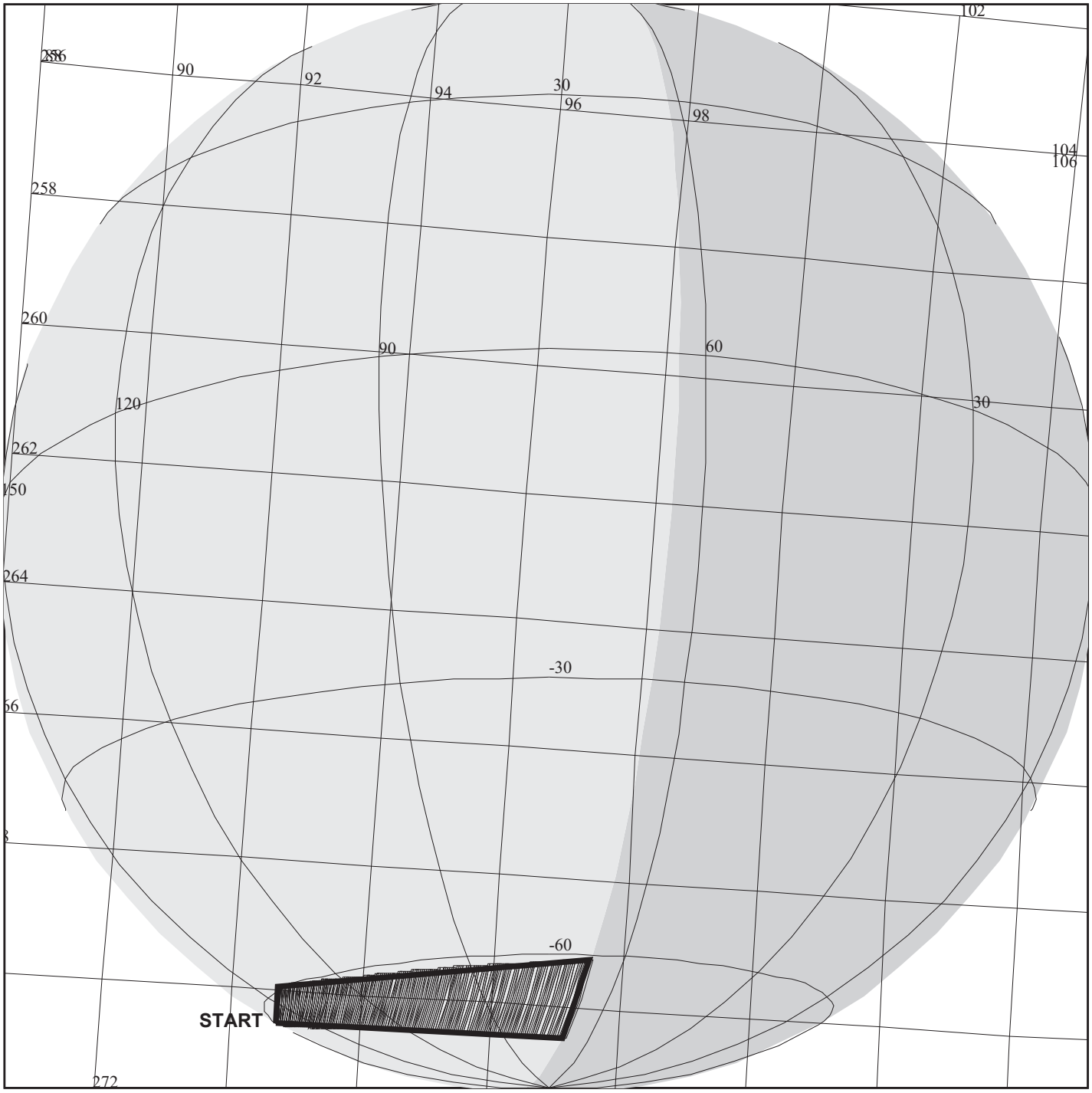
Design Detail

NIMS mode = LS TICS= 899, FMT= MPW, MBTG= 6.221, PPR_RA=0.169
Long Spectrometer Mode
Single swath centered near 63 degrees south latitude.
Longitudes from 128 to 113 degrees west.
Gain state = 4 Grating position = 0

SPACECRAFT IN CRUISE MODE - UNCOMPENSATED SPACECRAFT WOBBLE PRESENT

Long Spectrometer (LS), Gain 4, Grating Start 0, MPW, ELM442, ELM360

Galileo Activity Plan Form 08/31/98 13:50:54 rev 6/95



165DG:TT= 0 TMC= 1 C= 2.70 XC= 0.00 BS= 0/3980 TC= 1(-60 156)
A= 182 pD= 3994 SR=17.450 RA50= 72.91 DEC50= 35.10 cone= 92.66 clock=270.22
117DG:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/3980
1:#s= 1 Cs= 39.80 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 3994 rD= 2

17ENSUCOMP03

TARGET G3.1 lisac: 8/21/1998 14:45:10

FILE:P.17ENSUCOMP03

TARGET BODY : EUROPA

MINI:m.target

S/C EPH:/DATA/NAVIO/T-980723-tour.NS

PERIAPSIS:

THINNING:NIM 1

START:EEE 98-269/03:54:40.733 +CDS 25:00:0

BODY PLOT TIME:TARGET-TIME D= 3994 S= 1.000

OBSERVATION:17ENSUCOMP03

DESCRIP:Europa_Surface_Composition

Europa Surface Composition — ACTIVITY ID: 17ENSUCOMP03- — START TIME: 98-269/04:14:23.513

Activity ID: Orbit 17 Target E Inst N OAPEL SUCOMP SeqNo 03 -

Title	Europa Surface Composition			Instrument	NIMS
Requestor	NIMS-SWG/J. SHIRLEY	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	09/26/98 Week 39
Start	EEE+CDS 00000024:00:0	98-269/04:14:23.513		EEE+000/00:24:16.000	
End	EEE+CDS 00000047:00:0	98-269/04:37:38.846		EEE+000/00:47:31.333	
Duration	00000023:00:0	000/00:23:15.333		000/00:23:15.333	

Top Label 17ENSUCOMP03-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Europa surface composition observation at latitude -60 degrees and West longitudes 100 - 138 degrees for high-latitude leading side spectral coverage.

Data Returned

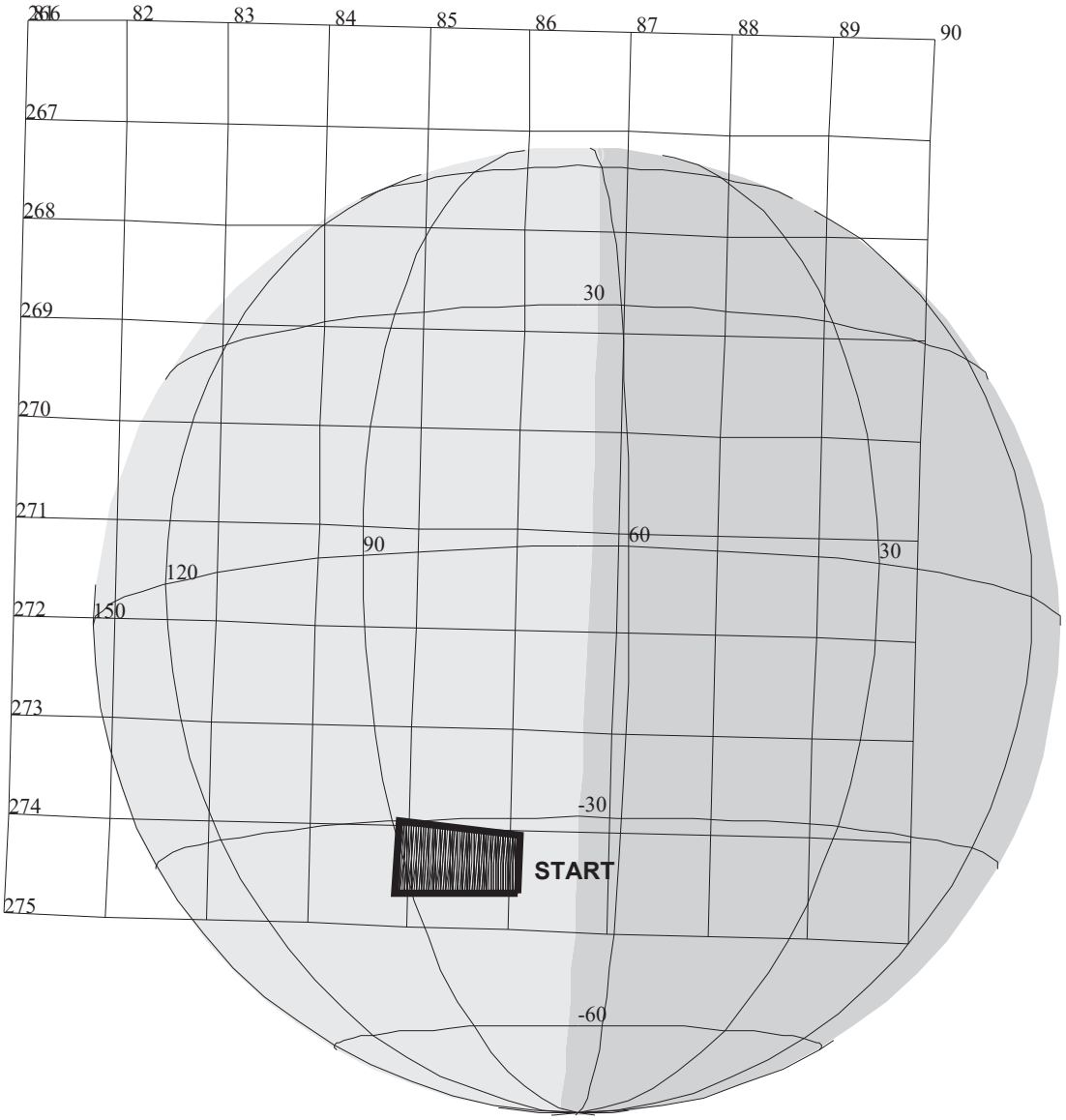
Design Detail

NIMS mode = LM TICS= 1163, FMT= MPW, MBTG= 7.200, PPR_RA=0.219
Single swath centered near 61 degrees south latitude.
Longitudes from 151 to 68 degrees west.
Swath goes from limb to terminator.
Gain state = 4 Grating position = 0

SPACECRAFT IN CRUISE MODE - UNCOMPENSATED SPACECRAFT WOBBLE PRESENT

Long Map (LM), Gain 4, Grating Start 0, MPW, ELM442, ELM360

Galileo Activity Plan Form 08/31/98 13:50:55 rev 6/95



165DH:TT= 0 TMC= 1 C= 0.00 XC= -3.00 BS= 0/8348 TC= 1(-38 74)
A= 182 pD= 1810 SR=17.450 RA50= 81.30 DEC50= 31.77 cone= 86.10 clock=274.35
117DH:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/8348
1:#s= 1 Cs= -18.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 1810 rD= 2

17ENSUCOMP04

TARGET G3.1 lisac: 8/21/1998 14:45:10

FILE:P.17ENSUCOMP04

TARGET BODY : EUROPA

MINI:m.target

S/C EPH:/DATA/NAVIO/T-980723-tour.NS

PERIAPSIS:

THINNING:NIM 1

START:EEE 98-269/03:54:40.733 +CDS 49:00:0

BODY PLOT TIME:TARGET-TIME D= 1810 S= 0.700

OBSERVATION:17ENSUCOMP04

DESCRIP:Europa_Surface_Composition

Europa Surface Composition

ACTIVITY ID: 17ENSUCOMP04-
START TIME: 98-269/04:39:40.179

Activity ID: Orbit 17 Target E Inst N OAPEL SUCOMP SeqNo 04 -

Title	Europa Surface Composition			Instrument	NIMS
Requestor	NIMS-SWG/J. SHIRLEY	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	09/26/98 Week 39
Start	EEE+CDS 00000049:00:0	98-269/04:39:40.179		EEE+000/00:49:32.666	
End	EEE+CDS 00000060:00:0	98-269/04:50:47.513		EEE+000/01:00:40.000	
Duration	00000011:00:0	000/00:11:07.334		000/00:11:07.334	

Top Label	17ENSUCOMP04-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Europa surface composition observation centered near 30 S, 90 W
to obtain spectra for diffuse dark material.

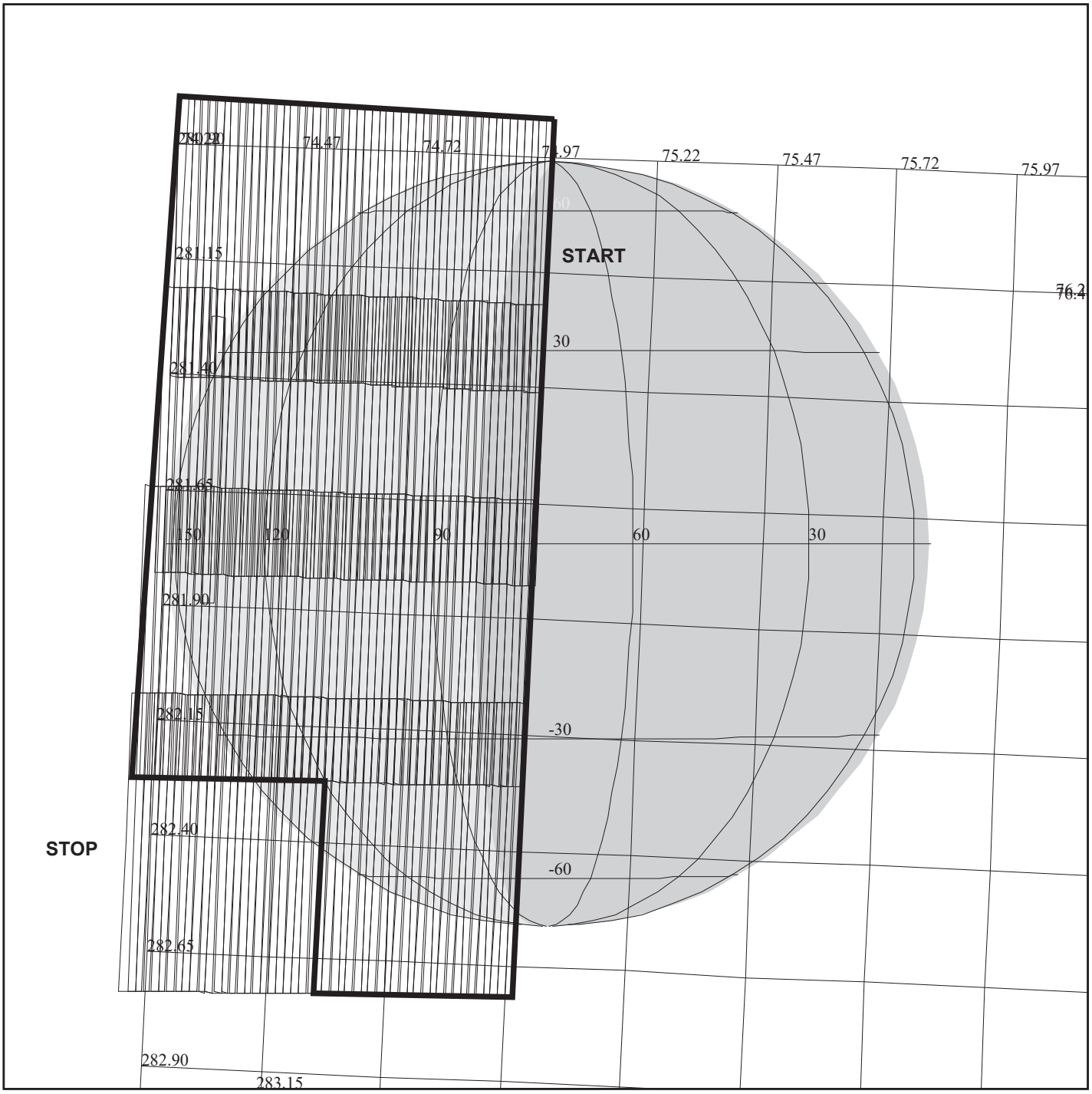
Data Returned

Design Detail

NIMS mode = LM TICS= 530, FMT= MPW, MBTG= 3.456, PPR_RA= 0.100
Single swath centered near 36 degrees south latitude.
Longitudes from 74 to 90 degrees west.
Gain state = 4 Grating position = 0

SPACECRAFT IN CRUISE MODE - UNCOMPENSATED SPACECRAFT WOBBLE PRESENT

Long Map (LM), Gain 4, Grating Start 0, MPW, ELM442, ELM360



165DI:TT= 0 TMC= 1 C= -0.50 XC= -10.50 BS= 0/6578 TC= 3
A= 728 pD= 5450 SR=17.450 RA50= 94.18 DEC50= 25.43 cone= 74.99 clock=281.11
117DI:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/6578
1:#s= 4 Cs= -12.90 XCs= 0.00 Cr= 12.80 XCr= 7.00 sD= 1294 rD= 20

17ENGLOBAL02

TARGET G3.1 lisac: 8/21/1998 14:45:10

FILE:P.17ENGLOBAL02

TARGET BODY : EUROPA

MINI:m.target

S/C EPH:/DATA/NAVIO/T-980723-tour.NS

PERIAPSIS: **THINNING:NIM 1**

START:EEE 98-269/03:54:40.733 +CDS 314:00:0 **BODY PLOT TIME:TARGET-TIME D= 5450 S= 0.700**

OBSERVATION:17ENGLOBAL02 **DESCRIP:Europa_Global_Observation**

Europa Global Observation

ACTIVITY ID: 17ENGLOBAL02-
START TIME: 98-269/09:04:34.846

Activity ID: Orbit 17 Target E Inst N OAPEL GLOBAL SeqNo 02 -

Title	Europa Global Observation			Instrument	NIMS
Requestor	NIMS-SWG/A. OCAMPO	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	09/26/98 Week 39
Start	EEE+CDS 00000311:00:0	98-269/09:04:34.846		EEE+000/05:14:27.333	
End	EEE+CDS 00000341:00:0	98-269/09:34:54.846		EEE+000/05:44:47.333	
Duration	00000030:00:0	000/00:30:20.000		000/00:30:20.000	

Top Label	17ENGLOBAL02-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Europa global mosaic covering West longitude at 70 - 150 degrees
at 55 KM resolution.

Data Returned

Design Detail

NIMS mode = LM TICS= 1585, FMT= MPW, MBTG= 8.640, PPR_RA= 0.299
Europa Global Mosaic
Number of swaths is four, from north to south.
Latitudes from +90 to -90 degrees.
Lit Longitudes from 80 (terminator) to 162 (limb) degrees west.
First Swath in Gain State 4.
Second Swath in Gain State 3.
Third Swath in Gain State 3.
Fourth Swath in Gain State 4.

SPACECRAFT IN CRUISE MODE - UNCOMPENSATED SPACECRAFT WOBBLE PRESENT

Long Map (LM), Gain 4,3,3,4, Grating Start 0, MPW, ELM442, ELM360

Galileo Activity Plan Form 08/31/98 13:50:55 rev 6/95

NIMS Chopper off

ACTIVITY ID: 17NNCHOPOF01-
START TIME: 98-269/10:35:34.846

Activity ID: Orbit 17 Target N Inst N OAPEL CHOPOF SeqNo 01 -

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

Time System	CDS	Load ID		Calendar Date	09/26/98 Week 39
Start	EEE+CDS 00000401:00:0	98-269/10:35:34.846		EEE+000/06:45:27.333	
End	EEE+CDS 00000411:00:0	98-269/10:45:41.513		EEE+000/06:55:34.000	
Duration	00000010:00:0	000/00:10:06.667		000/00:10:06.667	

Top Label	17NNCHOPOF01-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	0	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

NIMS Chopper off after encounter period.

Design Detail

Use two NIMS 37IST commands, the first to set chopper 63Hz, the second to turn off the chopper.

37IST,1,0,0,OFF,0,0,0
37IST,1,1,0,OFF,0,0,0

Galileo Activity Plan Form 08/31/98 13:50:55 rev 6/95

NIMS Real-Time PCT Calibration ACTIVITY ID: 17NNPCTRLT01-
START TIME: 98-278/15:00:24.200

Activity ID: Orbit 17 Target N Inst N OAPEL PCTRLT SeqNo 01 -

Title	NIMS Real-Time PCT Calbration	nstrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team NIMS	Working Group SWG

Time System	CDS	Load ID	Calendar Date 10/05/98 Week 40
Start	PCT+CDS 0:00:0	98-278/15:00:24.200	PCT+000/00:00:00.000
End	PCT+CDS 00000465:00:0	98-278/22:50:34.200	PCT+000/07:50:10.000
Duration	00000465:00:0	000/07:50:10.000	000/07:50:10.000

Top Label	17NNPCTRLT01-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	275	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

This observation is an NIMS photometric calibration usint the PCT target.
The data will be used to calibrate the NIMS visible detectors.
The calibration data will be in Real-Time.
At this time the off sun angle is about x.x degrees.

Data Returned

Design Detail

This is a Library Sequence.
1) Turn off PCT heaters 6 hours before calibration.
2) Scan Platform is at Safe/Unstow (cone = 153.00, clock = 0.00)
3) Set NIMS to Long Map Mode, Gain State 4, Chopper Reference, Mirror Blocking (1B, 1B) (11011,11011), ETB=PCT252.
4) Pause playback before using scan platform.
5) Select 2 Rims of Dark in Real-Time (Return 2 LM grating cycles)
6) Slew to PCT (cone = 54.88, clock = 244.07)
7) Select 10 Rims of PCT in Real-Time (Return 10 LM grating cycles)
8) Slew to Safe/Unstow (cone = 153.00, clock = 0.000).
9) NIMS to Safe Mode, Reset Mirror Blocking (00,00) (00000, 00000) and turn off Chopper.
10) Resume playback after using scan platform.

Long Map (LM), Gain 4, Grating Start 0, R/T, PCT252

Galileo Activity Plan Form 08/31/98 13:50:55 rev 6/95

NIMS RCT Real-Time Calibration — ACTIVITY ID: 17NNRCTRLT01-
START TIME: 98-303/06:00:03.000

Activity ID: Orbit 17 Target N Inst N OAPEL RCTRLT SeqNo 01 -

Title	NIMS RCT Real-Time Calibration			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES		Team NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	10/30/98 Week 44
Start	RTA+CDS 0:00:0	98-303/06:00:03.000		RTA+000/00:00:00.000	
End	RTA+CDS 00000787:00:0	98-303/19:15:47.666		RTA+000/13:15:44.666	
Duration	00000787:00:0	000/13:15:44.666		000/13:15:44.666	

Top Label 17NNRCTRLT01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	450	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

This observation is a NIMS radiometric calibration using the RCT target.
The data will be used to calibrate the NIMS thermal detectors.
The calibration data will be returned using Real Time Telemetry.
An OPCAL is also performed.

Data Returned

Design Detail

This is a Library Sequence.
1) Turn on RCT Heaters for 12 hours.
2) Set Engineering Variable Map to return NIMS Temps more frequently.
3) Set NIMS to Long Map Mode, Gain state 1, Chopper Reference, Mirror Blocking (11011,11011), ETB=RCT252.
4) Pause playback before using scan platform.
5) Slew to Dark (cone = 119.7), return 1 grating cycle (12 mf) in R/T
6) Slew to RCT (cone = 0.0), return 2 grating cycles (12 mf) in R/T
7) Slew to Dark (cone = 119.7), return 1 grating cycle (12 mf) in R/T
8) Slew to Safe (cone = 153.0)
9) Long Map, gain state 4, ETB=OPCAL48
10) Use 37IST to turn on OPCAL Lamp (two times).
11) Select NIMS Real Time 1 Rim OPCAL, 1 Rim Dark, 1 Rim OPCAL.
12) Set NIMS to Safe Mode and turn off Chopper.
13) Resume Playback after using scan platform.

Long Map (LM), Gain 1, Grating Start 0, R/T, RCT252
Long Map (LM), Gain 4, Grating Start 0, R/T, OPCAL48

Galileo Activity Plan Form 08/31/98 13:50:56 rev 6/95

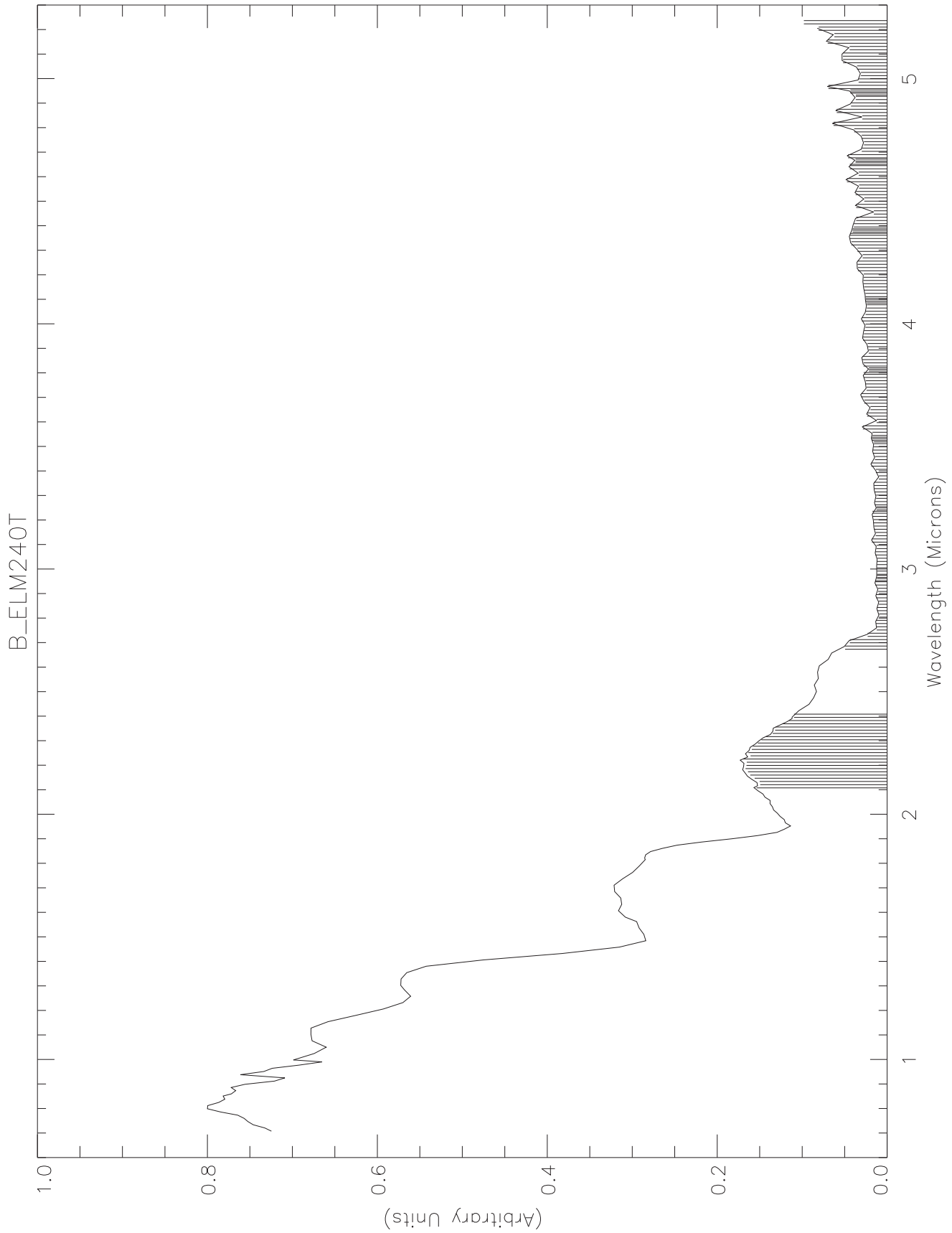
Chapter 6 - Edit Tables

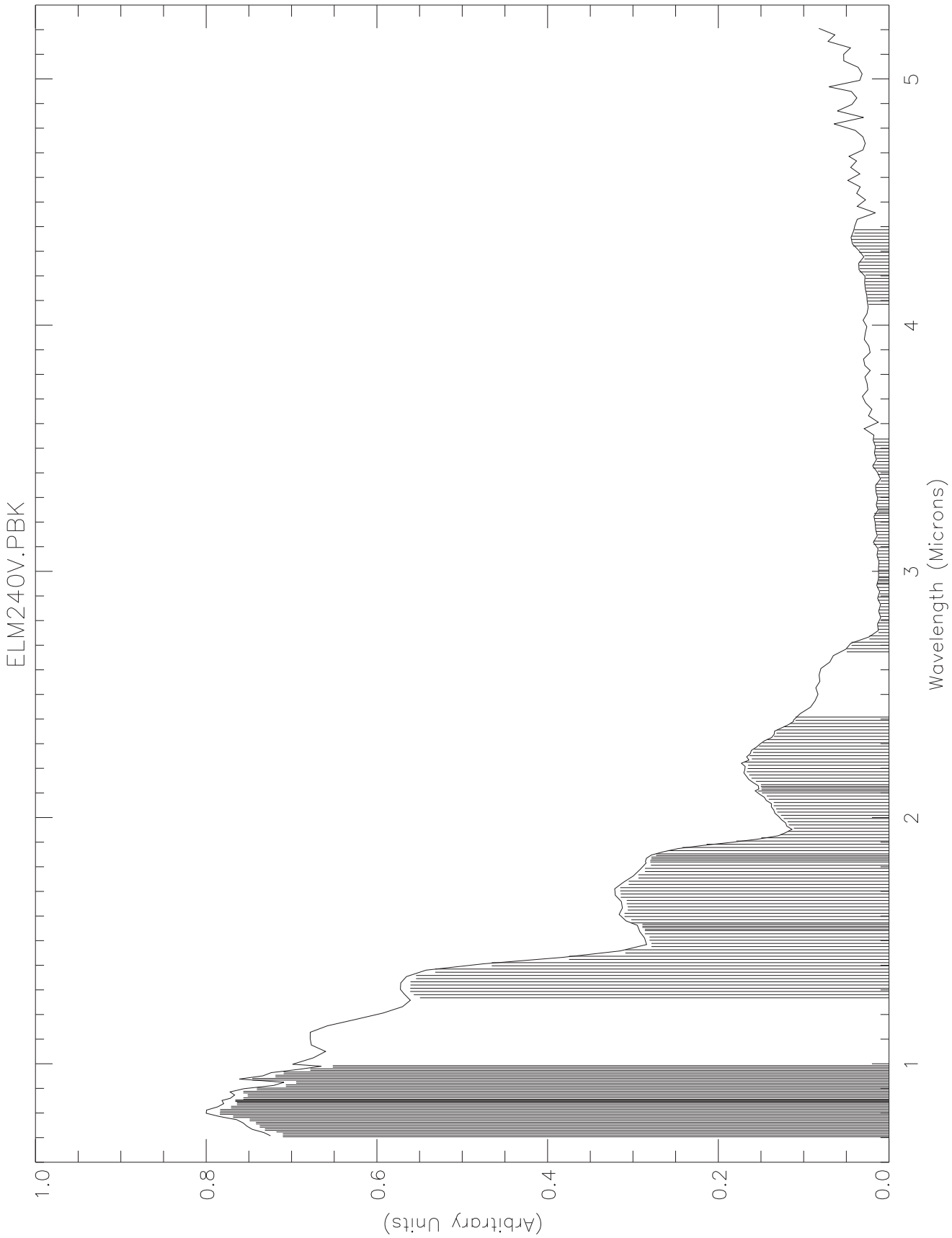
Contents

Introduction to Chapter 6

NIMS Edit Table Plots

This chapter contains plots of the NIMS Edit Tables used in E17. 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.


B_ELM240T
1.0
0.8
0.6
0.4
0.2
0.0
(Arbitrary Units)
1
2
3
4
5
Wavelength (Microns)


ELM240V.PBK
(Arbitrary Units)
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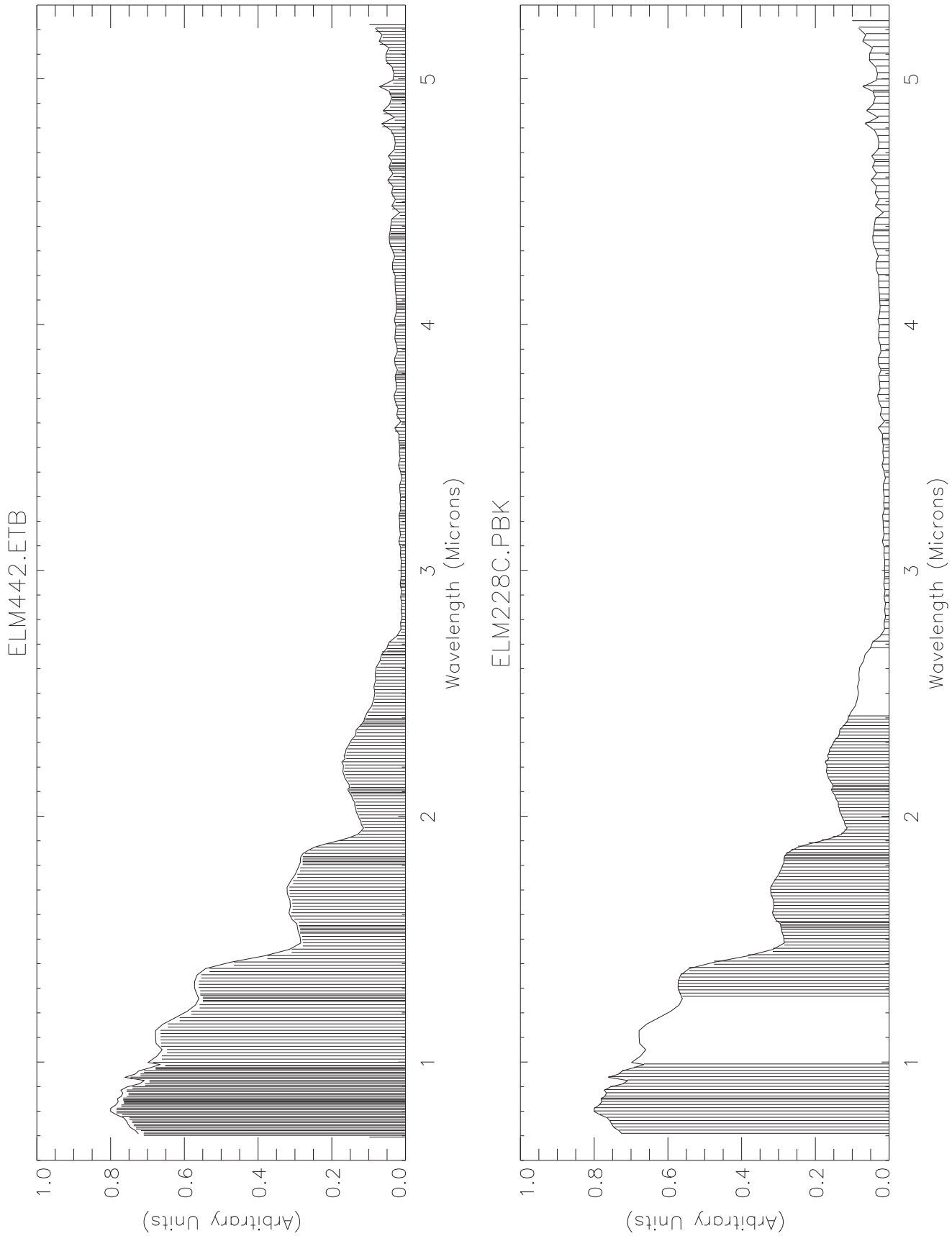
0.6
0.4
0.2
0.0
1
2
3
4
5
Wavelength (Microns)


ELM442.ETB
(Arbitrary Units)
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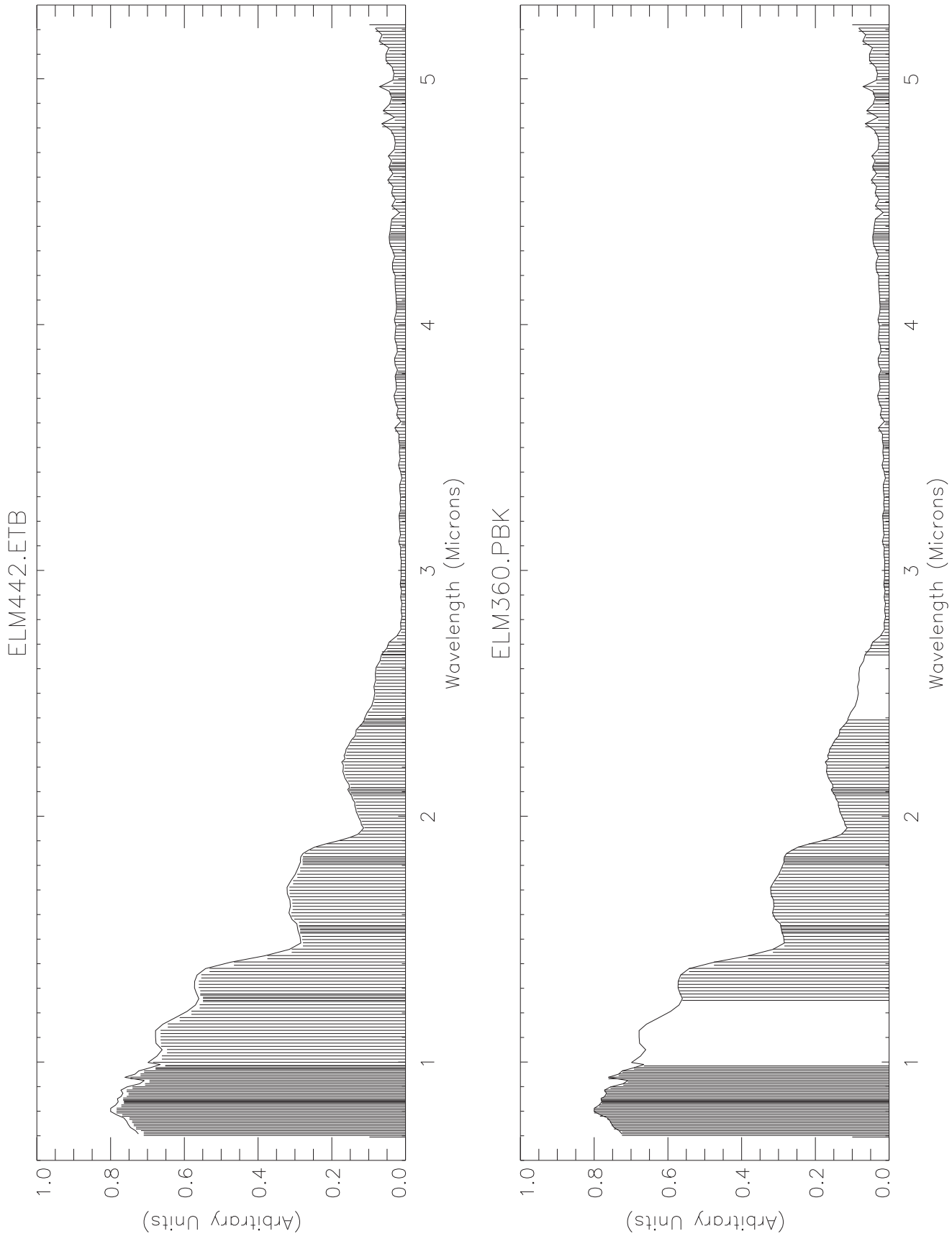
0.8
0.6
0.4
0.2
0.0
1
2
3
4
5
Wavelength (Microns)
ELM228C.PBK
(Arbitrary Units)
1.0
0.8
0.6
0.4
0.2
0.0
1
2
3
4
5
Wavelength (Microns)


ELM442.ETB
(Arbitrary Units)
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0.8
0.6
0.4
0.2
0.0
1
2
3
4
5
Wavelength (Microns)
ELM360.PBK
(Arbitrary Units)
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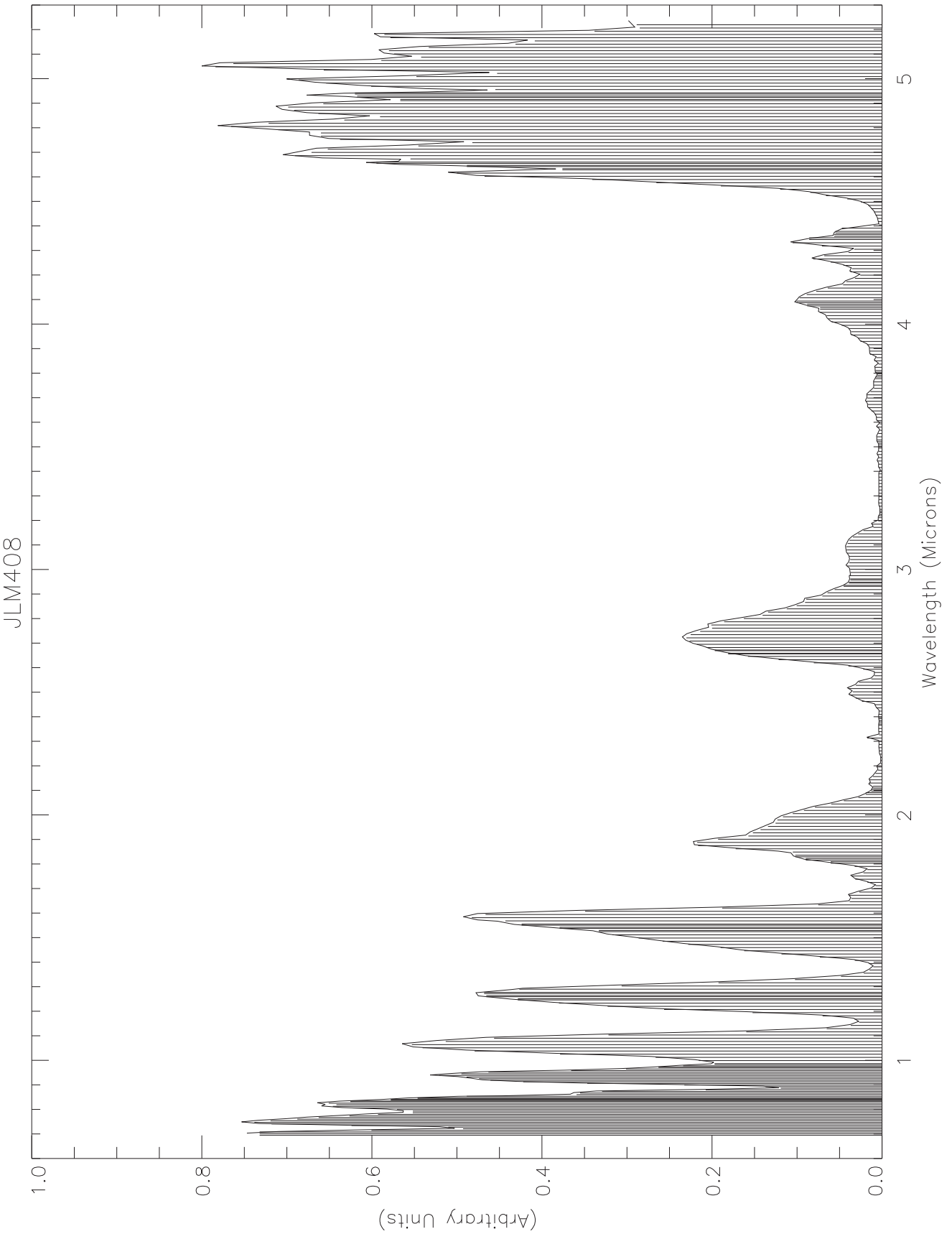
0.8
0.6
0.4
0.2
0.0
1
2
3
4
5
Wavelength (Microns)


JLM408
(Arbitrary Units)
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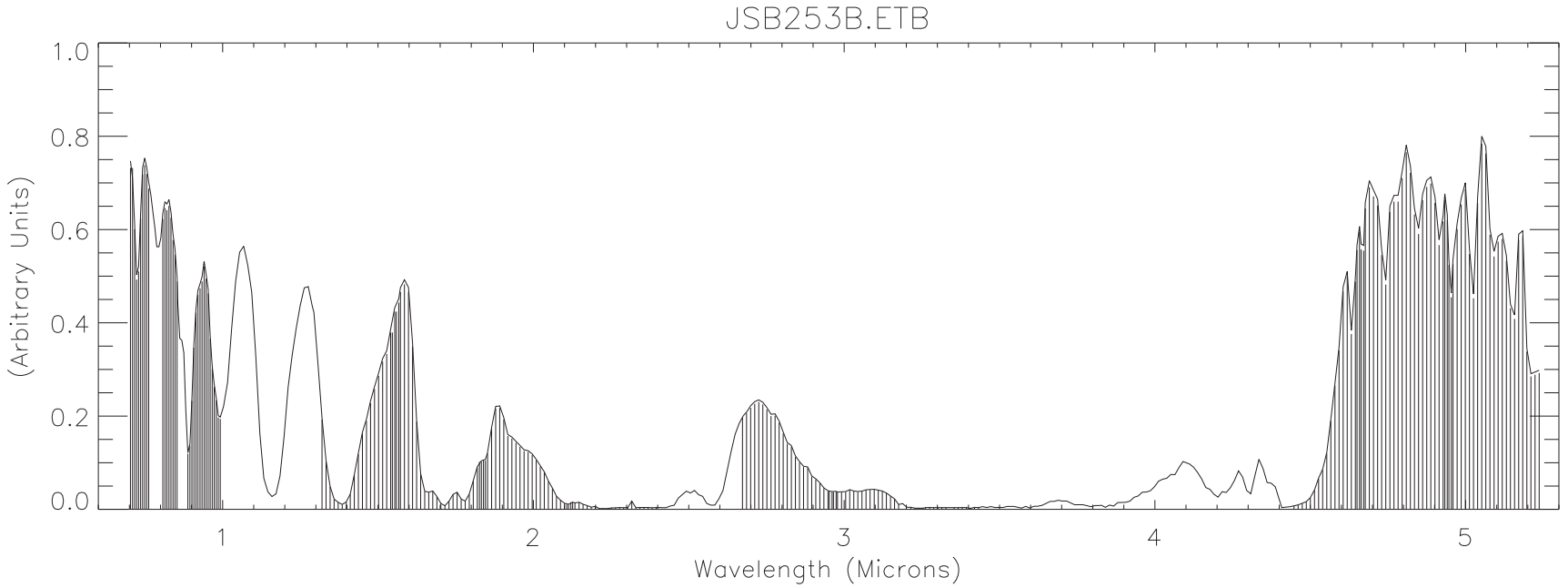
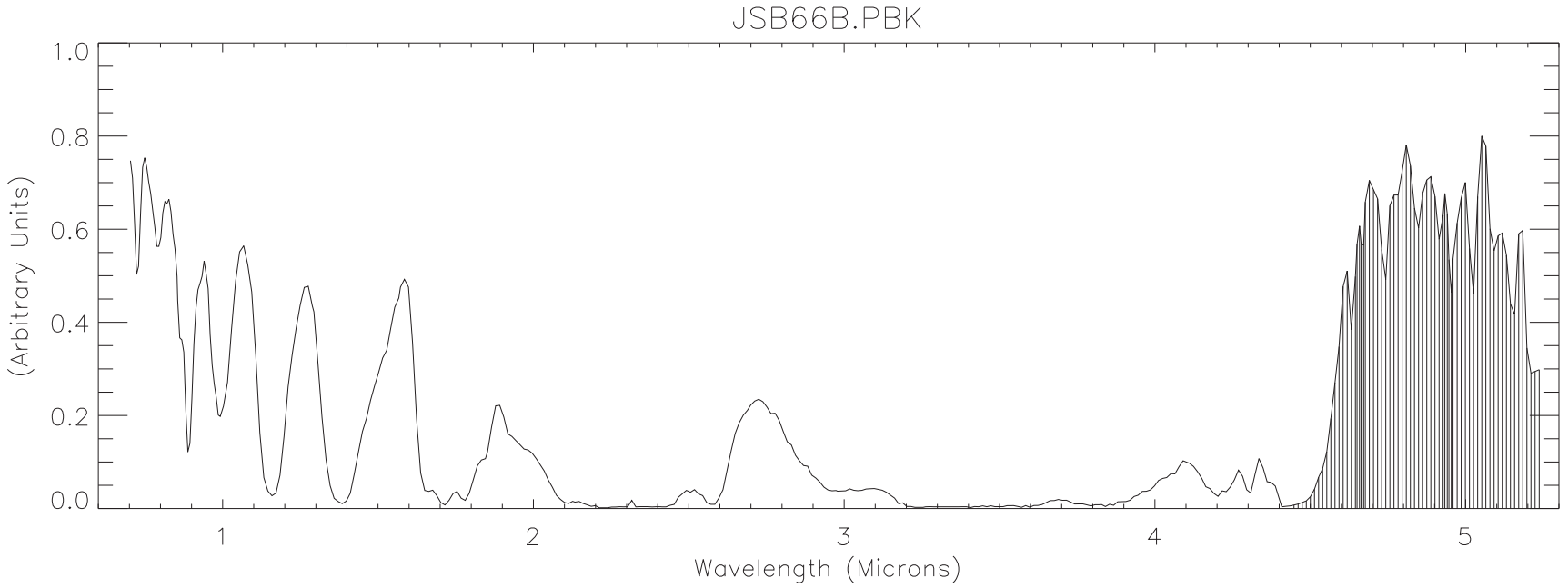
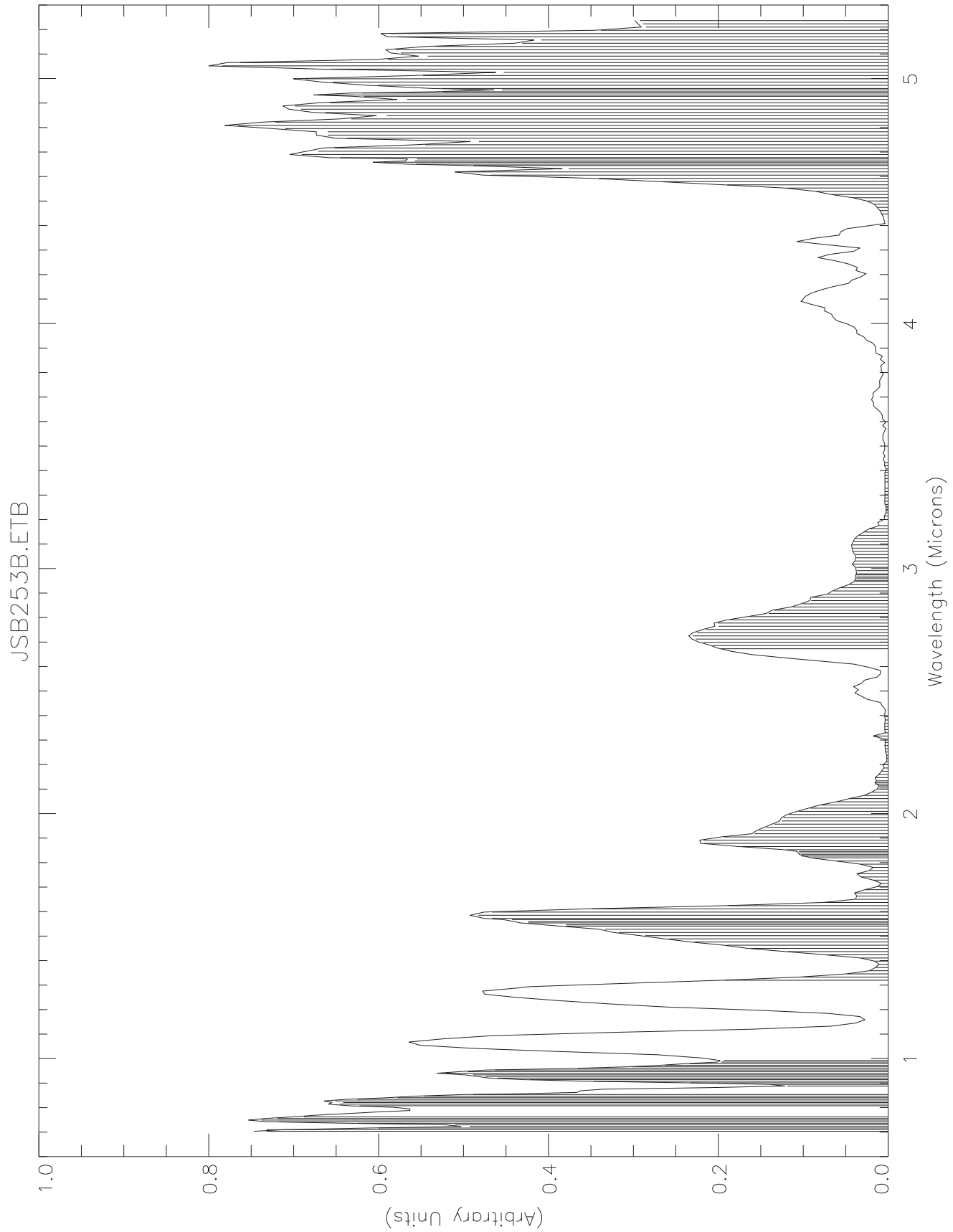
0.8
0.6
0.4
0.2
0.0
1
2
3
4
5
Wavelength (Microns)


JSB253B.ETB
1.0
0.8
0.6
0.4
0.2
0.0
(Arbitrary Units)
1
2
3
4
5
Wavelength (Microns)


JSB66B.PBK
1.0
0.8
0.6
0.4
0.2
0.0
(Arbitrary Units)
1
2
3
4
5
Wavelength (Microns)


JSB253B.ETB
(Arbitrary Units)
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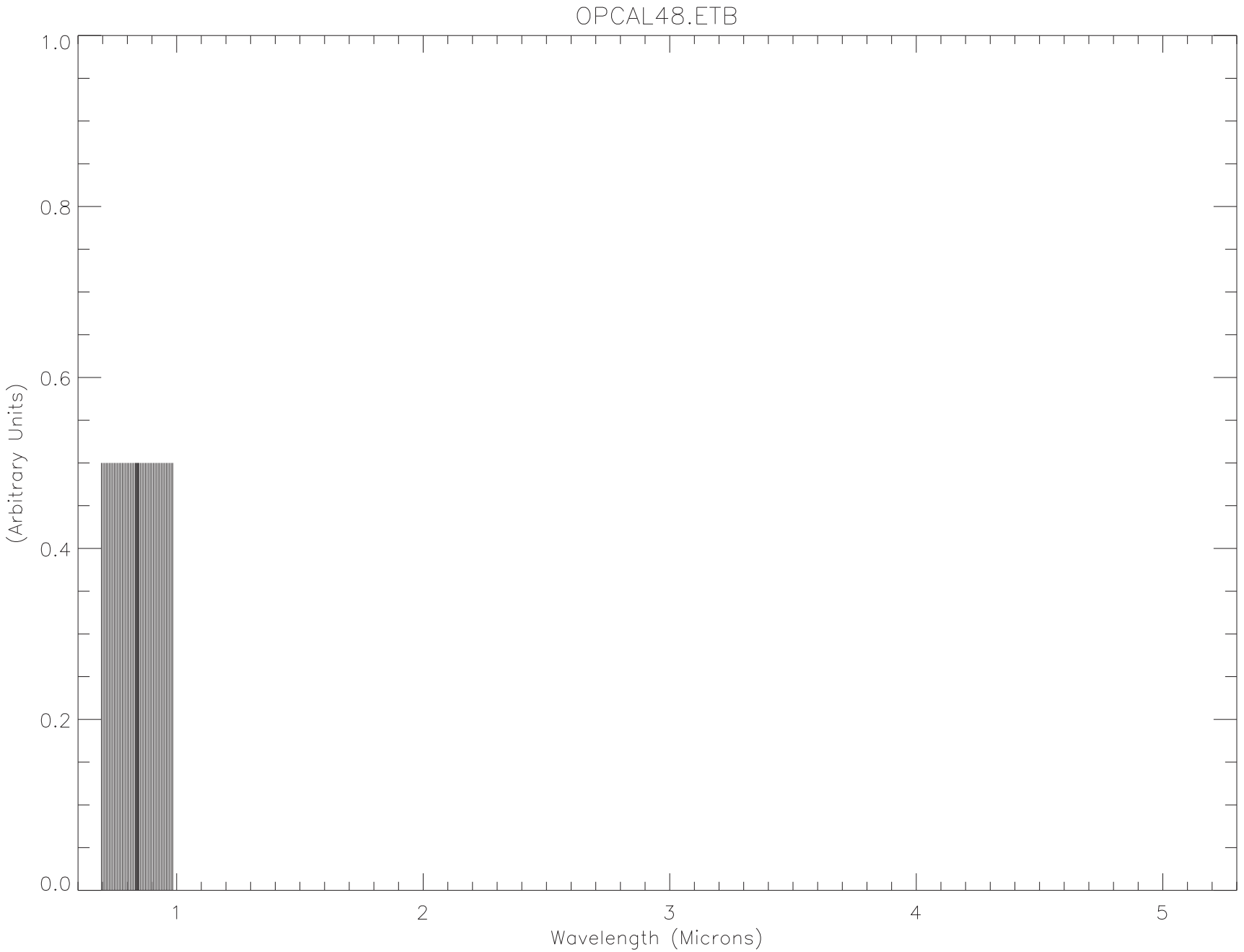
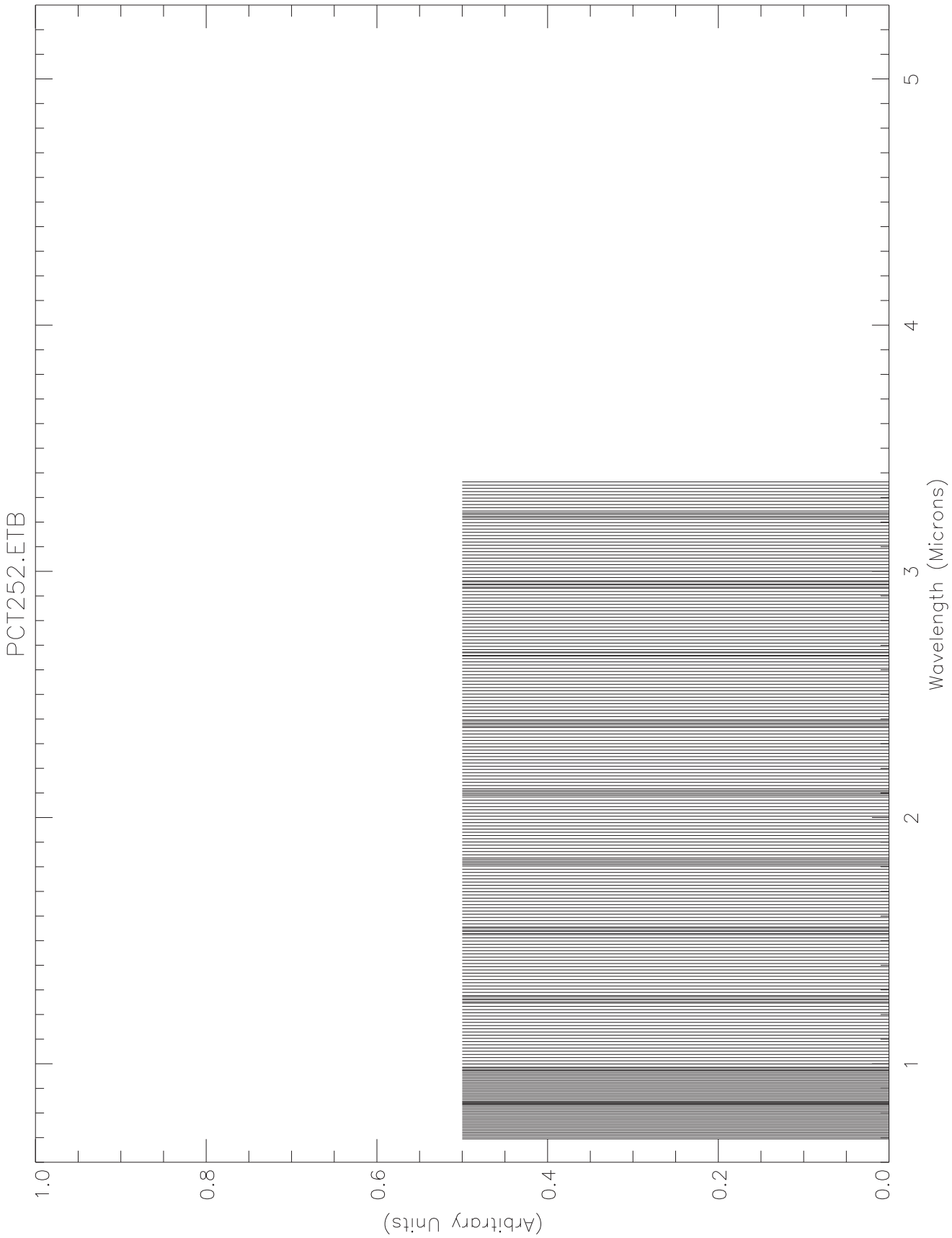
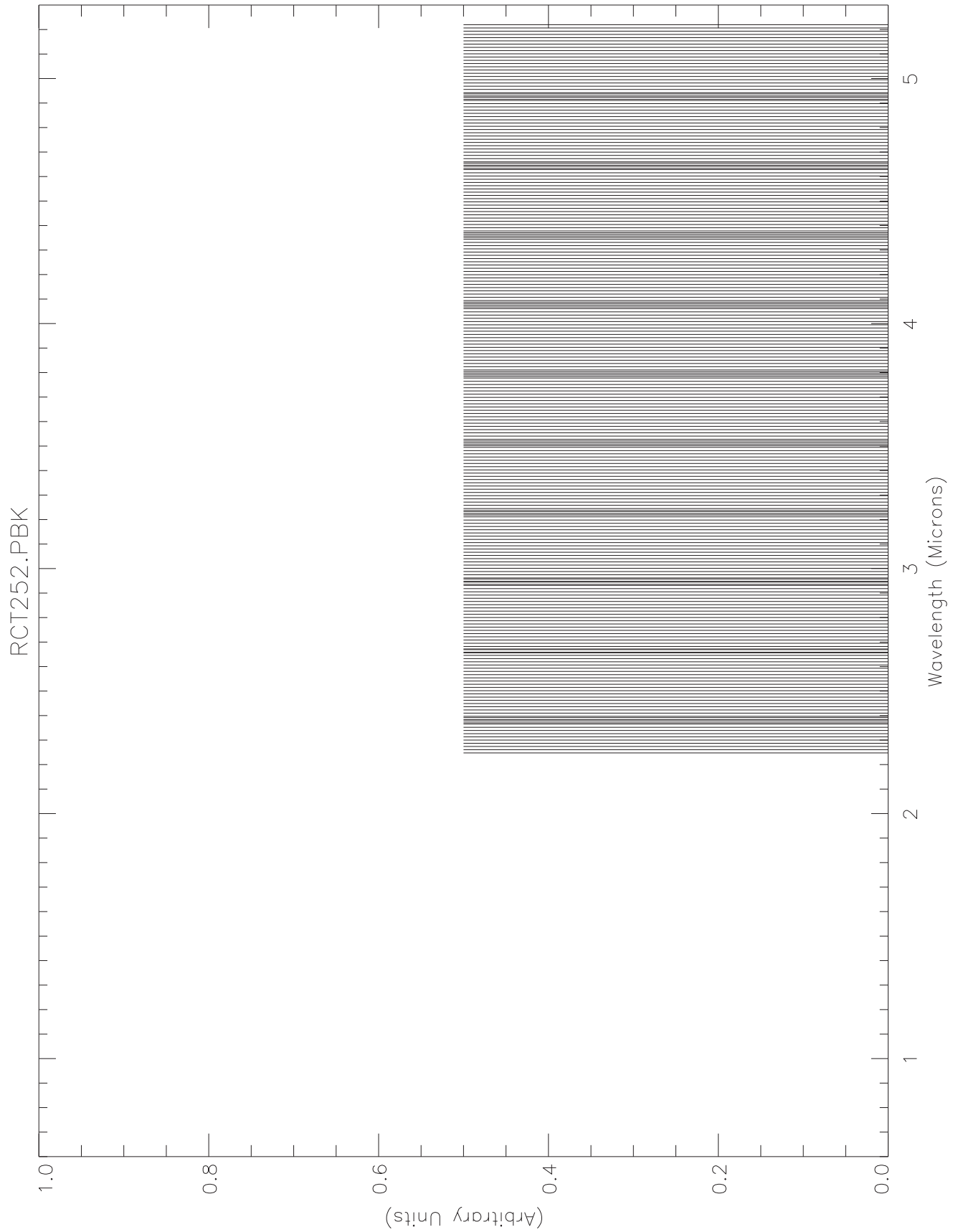
0.8
0.6
0.4
0.2
0.0
1
2
3
4
5
Wavelength (Microns)


OPCAL48.ETB
1.0
0.8
0.6
0.4
0.2
0.0
(Arbitrary Units)
1
2
3
4
5
Wavelength (Microns)


PCT252.ETB
(Arbitrary Units)
1.0
0.8
0.6
0.4
0.2
0.0
1
2
3
4
5
Wavelength (Microns)


RCT252.PBK
(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 E17 orbit. Due to the low downlink data rates available for Galileo Jupiter Operations and other unforeseen and unpredictable events during the E17 Encounter and Cruise, not all NIMS data recorded on the tape recorder or selected in real-time were returned. The previous 6 chapters nominally describe the planning and intention of the NIMS observations for this orbit, except the obstab section in chapter 4 which was updated to give the latest parameters for the data that were actually returned.

There were thirteen autonomous reloads of the NIMS RAM code from CDS during the E17 encounter, one just before each science observation. No observations in E17 were lost due to NIMS processor halts. The approach that we are taking to avoid data loss due to processor halts has proven to be very successful.

Detectors 3 and 8 are still not functioning and are expected to be lost for the rest of the mission.

The spacecraft suffered an AACS fault trip early in the encounter which put the spacecraft into cruise mode. As a result, the entire E17 encounter was executed in cruise mode. No other AACS upsets occurred during the encounter.

Spacecraft safing during the E18 encounter caused a good portion of E17 data not to be recorded over in E18. Thus, additional E17 data were returned during E18 playback.

The plots on the pages 3 and 4 show the geometry of the NIMS E17 observations using a north trajectory pole projection. The 'returned' observations are in Bold characters and the 'non-returned' in gray. The observations with an asterix were taken with the NIMS software halted.

The spreadsheets on pages 5 and 6 summarize the 'final' playback model for the 'returned' E17 data during E17 and E18 cruise.

The text on page 7 gives a 'recap' of the E17 playback events which affected which observations were returned.

A Timeline of E17 playback events is on pages 8 through 14.

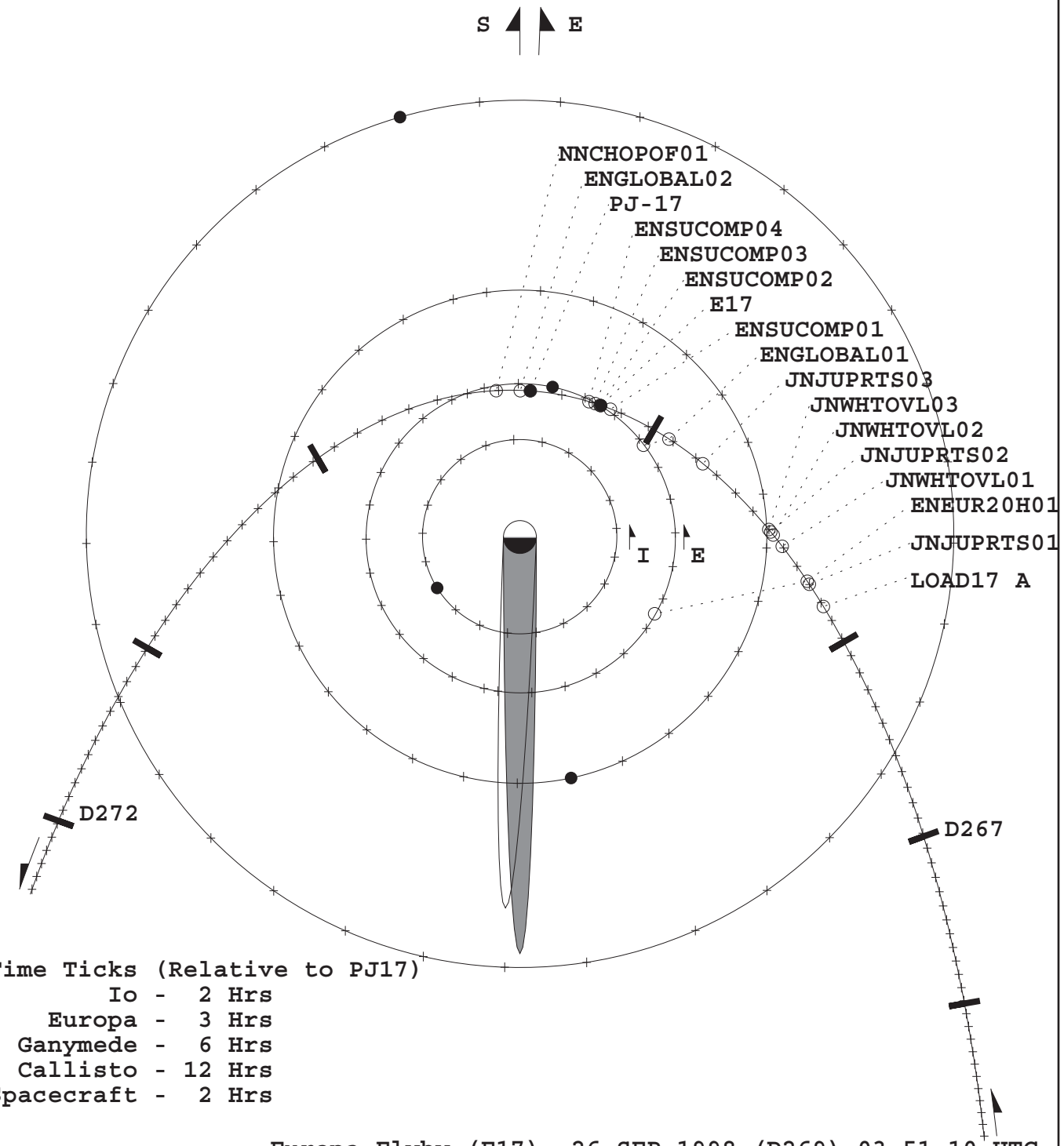
The text on page 15 describes the E17 NIMS and Spacecraft Anomalies.

The text on page 16 gives a brief discussion of the NIMS data files. Additional information about NIMS data formats, data types, data labels and data access is given on pages 17 and 18.

The text on page 19 is a guide to understanding the NIMS MASK.

NIMS E17 OBSERVATIONS

Bold - Returned
Gray - Not Returned



Time Ticks (Relative to PJ17)

Io -	2 Hrs
Europa -	3 Hrs
Ganymede -	6 Hrs
Callisto -	12 Hrs
Spacecraft -	2 Hrs

Europa Flyby (E17): 26-SEP-1998 (D269) 03:51:10 UTC
Perijove (PJ17): 26-SEP-1998 (D269) 08:26:11 UTC

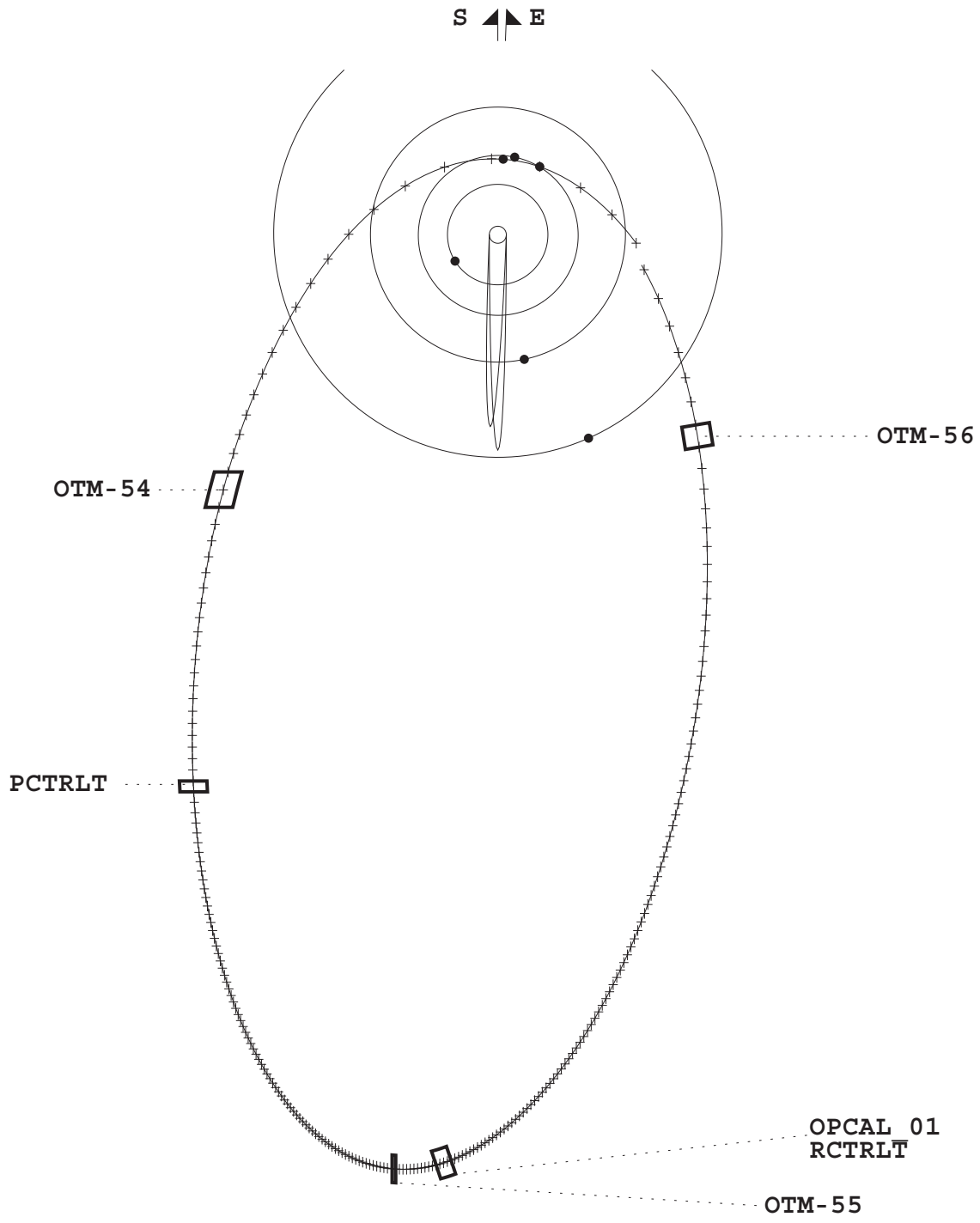
E17 North Trajectory Pole View

NIMS - FEL - 12/06/99

NIMS E17 CRUISE CALIBRATIONS

Europa Flyby (E17): 26-SEP-1998 (D269) 03:51:10 UTC
Perijove (PJ17): 26-SEP-1998 (D269) 08:26:11 UTC
Apojove (AJ17): 24-OCT-1998 (D297) 16:00:00 UTC

Time Ticks (Relative to E17)
Spacecraft - 6 Hours



E17 North Trajectory Pole View, Perijove to Perijove

NIMS E17 DATA RETURN

Activity ID	Observation Title	NIMS Edit Table	NIMS PB Table	Mode	Gain	Grating Start	Grating Offset	Record Format	PSID
17JNJUPRTS01*	Jupiter Realtime Observation	E17JLM408/MB	R/T	LM	2	0	4	R/T	
17ENEUR20H01	Europa 20 Hour Map	E17B_ELM240T	E17B_ELM240T	LM	4	0	4	LPU	
17JNWHTOVL01-	Jupiter White Oval	E17JSB253B	E17JSB66B	LM	4	0	4	LPU	
17JNJUPRTS02*	Jupiter Realtime Observation	E17JLM408/MB	R/T	LM	2	0	4	R/T	
17JNWHTOVL03-	Jupiter White Oval	E17JSB253B	E17JSB253B	LM	2	0	4	LPU	
17JNJUPRTS03*	Jupiter Realtime Observation	E17JLM408/MB	R/T	LM	2	0	4	R/T	
17ENGLOBAL01-	Europa Global Observation	E17ELM442	E17B_ELM228C_1	LM	3	0	4	MPW	
17ENSUCOMP02-	Europa Surface Composition	E17ELM442	E17ELM360	LS	4	0	4	MPW	
17ENSUCOMP04-	Europa Surface Composition	E17ELM442	E17ELM360	LM	4	0	4	MPW	
17ENGLOBAL02-	Europa Global Observation	E17ELM442	E17ELM360	LM	3	0	4	MPW	
17NNPCTRLT01-	NIMS Real-Time PCT Claibration	E17PCT252	R/T	LM	4	0	4	R/T	
17NNRCTRLT01-	NIMS RCT Real-Time Calibration	E17RCT252	R/T	LM	1	0	4	R/T	
17NNROPCAL01-	NIMS OPCAL	E17OPCAL48	R/T	LM	4	0	4	R/T	
17ENEUR20H01	Europa 20 Hour Map	E17B_ELM240V	E17B_ELM240V	LM	3	0	4	LPU	
17JNWHTOVL02-	Jupiter White Oval	E17JSB253B	E17JSB66B	LM	4	0	4	LPU	
17ENGLOBAL01-	Europa Global Observation	E17ELM442	E17B_ELM228C_1	LM	3	0	4	MPW	
17ENSUCOMP01-	Europa Surface Composition	E17ELM442	E17ELM360	LM	4	0	4	MPW	
17ENSUCOMP02-gf	Europa Surface Composition	E17ELM442	E17ELM360	LS	4	0	4	MPW	
17ENSUCOMP03-	Europa Surface Composition	E17ELM442	E17ELM360	LM	4	0	4	MPW	
17ENGLOBAL02-	Europa Global Observation	E17ELM442	E17ELM360	LM	4,3,4	0	4	MPW	
gf = gap fill									
E18 Playback Period									
17ENSUCOMP01-gf	Europa Surface Composition	E17ELM442	E17ELM360	LM	4	0	4	MPW	
17ENSUCOMP02-gf	Europa Surface Composition	E17ELM442	E17ELM360	LS	4	0	4	MPW	
17ENSUCOMP03-gf	Europa Surface Composition	E17ELM442	E17ELM360	LM	4	0	4	MPW	

NIMS E17 DATA RETURN

Activity ID	Mode	Record Format	Wave-lengths Returned	Record Time (sec.)	PB Time (sec.)	Selected Bits of Tape sBOT (MBITS)	Total Bits of Tape (Mbit)	Mode Cycle (sec)	Comp	Thold	RT BTG Mbits	Total BTG Mbits (4% ohead)	Data Reduct Factor (sBOT/BTG)	Pass
17JNJUPRTS01	LM	R/T	408								0.16			
17ENEUR20H01	LM	LPU	240	219	219	1.35	1.35	8.667	1.65	0		0.764	1.77	1
17JNWHTOVL01	LM	LPU	66	602	600	3.70	3.71	8.667	1.91	0		0.498	7.44	1
17JNJUPRTS02	LM	R/T	408					8.667			0.16			
17JNWHTOVL03	LM	LPU	253	602	600	3.70	3.71	8.667	2.71	0		1.344	2.75	1
17JNJUPRTS03	LM	R/T	408					8.667			0.16			
17ENGLOBAL01	LM	MPW	228	2700	1321	15.22	31.10	8.667	1.53	0		4.724	3.22	1
17ENSUCOMP02	LM	MPW	360	1020	1018	11.73	11.75	8.667	1.46	0		6.024	1.95	1
17ENSUCOMP04	LM	MPW	360	600	590	6.80	6.91	8.667	1.61	0		3.166	2.15	1
17ENGLOBAL02	LM	MPW	360	1800	437	5.03	20.74	8.667	1.37	0		2.756	1.83	1
17NNPCTRLT01	LM	R/T	252								0.2			
17NNRCTRLT01	LM	R/T	252								0.14			
17NNOPCAL01-	LM	R/T	48											
17ENEUR20H01	LM	LPU	240	271	271	1.67	1.67	8.667	1.63	0		0.958	1.75	2
17JNWHTOVL02	LM	LPU	66	602	600	3.70	3.71	8.667	1.98	0		0.480	7.71	2
17ENGLOBAL01	LM	MPW	228	2700	1360	15.67	31.10	8.667	1.98	0		3.758	4.17	2
17ENSUCOMP01	LM	MPW	360	1200	1160	13.36	13.82	8.667	1.28	0		7.830	1.71	2
17ENSUCOMP02	LM	MPW	360	1020	66	0.76	11.75	8.667	1.46	0		0.391	1.95	2
17ENSUCOMP03	LM	MPW	360	1320	1313	15.13	15.21	8.667	1.29	0		8.794	1.72	2
17ENGLOBAL02	LM	MPW	360	1800	1310	15.09	20.74	8.667	1.4	0		8.084	1.87	2
Total Resources												49.57 Total		
												52.91 Allocated		
												-3.339 Over/Under		
17ENSUCOMP01	LM	MPW	360	1200	217	2.50	13.82	8.667	1.3	0		1.442	1.73	2
17ENSUCOMP02	LM	MPW	360	1020	66	0.76	11.75	8.667	1.46	0		0.391	1.95	2
17ENSUCOMP03	LM	MPW	360	1320	283	3.26	15.21	8.667	1.3	0		1.881	1.73	2
												3.714 E18 Total		

RECAP OF E17 PLAYBACK EVENTS

NIMS Data return in E17 was greater than for any other orbit of the Galileo Europa Mission (GEM). Just under 50 Megabits were brought down during the E17 cruise period, with an additional 3 Mbits coming down during E18 (see the E18 NIMS Guide).

At the beginning of the encounter sequence, a fault monitor tripped, indicating a problem with the spacecraft gyros. This caused the spacecraft to transition from inertial mode (preferred, for NIMS, since spacecraft wobble is compensated), to cruise mode. The sequence thereafter executed as planned.

Early in the sequence we received information that the NIMS software had crashed. No recorded observations were affected, as a routine software reload preceded our next observation.

We lost a significant quantity of our downlink capability late in the playback (cruise) period, as anomaly recovery activities on the Deep Space 1 and Voyager spacecraft required tracking by DSN stations during times that had been previously allocated to Galileo.

The following timeline details the most signifigant events of the E17 playback period. Most of the text below is excerpted from messages issued at the time.

E17 Playback Events Timeline (07-22-98: to 11-21-98:)

07-22-98: In light of the loss of E16 observations of Europa, SSI is considering reconfiguring some of their E17 observations to cover targets lost in E16. NIMS could do the same. There is not a great deal of time available to accomplish this, if we wish to. If you favor some particular lat/lon(s) as high priority target(s) here please let us know.

08-13-98: (J. Gross) NIMS playback allocation is 50.613 Mbits.

08-14-98: This is the first delivery of the E17 playback table. NIMS has four Europa surface composition observations and two large Europa global observations in this orbit. As a result of some brilliant negotiations by Marcia Segura we were able to add a pair of distant, leading side Europa observations, and three new observations of the newly-merged Jupiter white oval. In addition we have RCT and PCT calibrations and three Jupiter realtime observations.

08-20-98: The subject of the pointer designs and NIMS mode for 17ENSUCOMP02 and 03 was discussed in today's NIMS team meeting at noon. The decisions regarding pending design changes were:
17ENSUCOMP02: Retain current pointer design (8/6/98 version) but change mode to long spectrometer.
17ENSUCOMP03: We will NOT change from 1 scan to two scans for this observation; that is, the pointer design from 8/6/98 will be employed.
The reasons for these decisions are intertwined. The as-is, 1-scan design for 17ENSUCOMP03 includes brighter territory at longitudes 120-150 that encompasses the area imaged by 17ENSUCOMP02 (centered at 120 W, 65 S). This makes the two observations complementary, a benefit that would be lost in the 2-scan plan.

09-09-98: The NIMS E17 PBT is ready to fly. We have one more update (next week) before uplink.
A number of minor timing changes were made to complete the fine-tuning of the table, and correct playback wavelength tables were entered/verified.
17ENGLOBAL02 will be recorded at the end of the sequence, near perijove. To get information on compression for this observation we are bringing back the second scan (of 4) in the first pass over the tape. The pointer plot for this observation shows several scans of dark sky. We are retaining these to obtain dark values.
We presently have about 1 Mb of unused downlink allocation, after increasing playback of the visible part of 17ENEUR20HR01 to the full 240 wavelengths. The unused portion is being held to cover compression uncertainties.

E17 Playback Events Timeline (07-22-98: to 11-21-98:)

09-16-98: E17 playback will initiate in less than 2 weeks. The only significant change this week involved a modification to the plan for the two large Europa global observations. 17ENGLOBAL01 views longitudes we have already seen but will provide polar coverage we lack. 17ENGLOBAL02 views leading-side longitudes only seen in E15.
Unfortunately 17ENGLOBAL02 will have booms (cone angles about 75 degrees) and is taken near perijove in what may be a noisy environment. Compression for both is somewhat optimistically estimated at 1.5. If either compresses poorly, significant revisions to the playback plan will be required.
Logistically there is the potential problem that pass 1 17ENGLOBAL02 may not be down before decisions about pass 2 17ENGLOBAL01 have to be finalized. On the plus side, 17ENGLOBAL02 should be the last observation to be played back in pass 2, and may benefit from the release of margin bits.
The current strategy is to play back the two polar scans of 17ENGLOBAL01 in pass 1 (since these have highest priority). The two equatorial scans remain in the playback plan in pass 2. For 17ENGLOBAL02, we will return a single scan in pass 1 to evaluate the data quality and get compression values. Since we have sufficient allocation, we will command 360 wavelengths (rather than the standard 228) for this scan. The balance of the observation (pass 2) is currently planned with 228 wavelengths, but this is mutable.

09-25-98: (R. Lineaweaver) ** E17 encounter activities **
Gyros tripped off, aborted to cruise 6 seconds after first 7SCAN command in E17A. Scan Platform safed at that time but since sequence continues, subsequent scan platform cmds executed. Commands were sent to MRO the gyro data and AACS fault max counter array, re-enable data compression for PWS, and Clear the fault code & sysfault. Unless AACS sees something obvious in the MRO's that explains the anomaly, we will not transition back to inertial mode.

09-25-98: (J. Erickson) Late in the evening of September 24, an AACS fault changed the spacecraft configuration from operating the scan platform in inertial mode (which allows gyro correction of any spacecraft wobble present) to a mode where the star scanner is the primary attitude reference.
The cause of this anomaly is under investigation, and it is expected that the encounter will be performed with the star scanner as the primary attitude reference. The lack of gyro correction will primarily affect the Near Infrared Mapping Spectrometer's observations, degrading their resolution.

E17 Playback Events Timeline (07-22-98: to 11-21-98:)

09-25-98: (R. Mehlman) According to SCLK monitor data returned at 16:09 today (268/23:09 ERT) the NIMS instrument software halted at SCLK 4666170 (~268/19:00 SCET, reported to CDS at 4666390, 22:35 SCET).
The halt is 4 hours before the beginning of the 17ENGLOBAL01 observation, which is preceded by a software reload. It is also 9 hours before Europa closest approach and 13 1/2 hours before Jupiter closest approach, which makes it perhaps the earliest halt yet, and therefore not a particularly good sign.

09-26-98: Europa close approach occurs at 03:51:10 UTC.

09-26-98: (R. Mehlman) Three samples of the NIMS SCLK monitor have been received since the observed (but harmless) halt. Two of these were between 17ENGLOBAL01 and 17ENSUCOMP01, the third was right after 17ENSUCOMP04. All that remains in the NIMS encounter is 17ENGLOBAL02, immediately following the closest approach to Jupiter.

09-26-98: Perijove occurs at 08:26:11 UTC, followed at 09:12:03 by 17ENGLOBAL02.

10-06-98: E17 playback is progressing as planned. For the next 2+ weeks only SSI data will be played back. The newest schedule shows our next observation, 17ENSUCOMP02, coming down on 22 October (Thursday). Compression has been somewhat better than predicted, suggesting a relatively low noise environment for the inbound observations. A first look at the polar scans of 17ENGLOBAL01 reveals no obvious "torque spikes". These were painfully plentiful in the global observation in E15. As anticipated we will not receive data from 17ENGLOBAL02 early enough to enable us to make changes to our pass 2 playback of 17ENGLOBAL01, should we wish to. This means that if 17ENGLOBAL02 is ratty or noisy, we cannot shift resources to the other observation. Currently we expect to get all of 17ENGLOBAL01 at 228 wavelengths (nothing wrong with that), and we should get most or all of 17ENGLOBAL02 at 360 wavelengths.

10-23-98: (J. Gross) After analyzing the inefficiency we've received and what we expect from here 'til Terminate, we have decided to release 4.0 MB of inefficiency margin. This leaves us 5.24 MB to cover our worst-case inefficiency the rest of the way. Since MWG has no recorded data, the 4.0 MB was divided up among remote-sensing teams. The increases by team, according to OPG percentages, are:

SSI	2.98 MB
NIMS	0.90 MB
PPR	0.06 MB
UVS	0.06 MB

Additionally, we are releasing the remaining office margin to the team with the last observation on the tape, NIMS. Since we only have about 3.5 weeks of PB left, and at most three updates, we decided this was the appropriate time to give NIMS these bits. Originally there 2.0 MB of office margin being held. The addition of the AACS slew-test on DOY 311 and the early Resume Playback after OTM-55 result in a net loss of 0.3 MB. That leaves 1.7 MB of office margin for NIMS. Therefore the new allocations by teams are:

TEAM	NEW PB ALLOC	OLD PB ALLOC
SSI	173.182	170.202
NIMS	52.848	50.248
PPR	3.442	3.382
UVS	2.891	2.831

10-26-98: (J. Gross) As you're probably aware of by now, we entered a limited search yesterday morning after resuming PB following the scheduled DMS Conditioning. The total period of time for which we were without playback was 20.5 hours.
The first 6.5 hours is how long it would have taken the DMS to slew from Track 1, Tinc 200 (the normal post-DMS conditioning location) to Track 3, Tinc 5636 (the location of the DMS when we paused for the conditioning). There is nothing we could do about losing this 6.5 hours. There is also no way to account for it ahead of time because it is impossible to know where the tape will be located when we pause playback.
The next 14 hours is the amount of time the DMS slewed while looking for data in the active time window. We slewed to the end of track 3, all the way down track 4, transitioned back up to track 3, and slewed down to Tinc 5636 before PB resumed.
The cost of this 20.5 hours of slewing is 2.75 MB. So, remember that 4.0 MB of inefficiency margin that I released on Friday? Well, I'm taking back 2.75 MB of it. The new PB allocations by team are as follows:

TEAM	NEW ALLOC	OLD ALLOC
SSI	171.133	173.182
NIMS	52.229	52.848
PPR	3.401	3.442
UVS	2.850	2.891

10-28-98: Today's update affects data to be played back in the second pass over the tape. Several new developments have contributed to the changes made. First, the office decided to release margin held for slewing inefficiency. Over the weekend, however, following the DMS (tape recorder) conditioning exercise, the recorder failed to find the data it expected, and went into limited search mode. After 20.5 hours of slewing, it arrived at the proper time /observation, and began playing back data.

This event cost us about 2.75 Mb of capability, consuming a large part of the 4.0 Mb that had been released. We received a small increase in allocation as a result of these events. More significantly, the playback coordinator released the 1.7 Mb of margin that was being held to protect our last observation (17ENGLOBAL02) to us.
As a result we have been able to increase playback wavelengths for the remaining 3/4 of 17ENGLOBAL02 from 228 to 360. (We had previously hoped to do so, and the first portion of the observation is presently coming down with 360 wavelengths as well).
In addition we have added commands to fill a gap in 17ENSUCOMP02. This amounts to about .25 Mb. Following these changes, we still have about 0.7 Mb of unused capability to act as insurance that all of our data will come down.

10-28-98: The cause of the limited search was a buildup of uncertainty in the tape position estimate used by CDS. An unusually large number of data "gulps" (230) were commanded on Track 3, resulting in a large accumulated error in calculated tape position.

11-04-98: E17 playback was proceeding smoothly until our second pass playback of 17ENGLOBAL01. There are 7 significant gaps in the portion that has come down this week, some on the order of 20 packets in size. This is particularly unfortunate because 17ENGLOBAL01 was obtained under relatively low noise conditions, and is one of our few global observations where we are obtaining complete pole-to-pole coverage.
Two large higher-resolution Europa observations have come down with better-than-expected compression. These are 17ENSUCOMP02 and 04. Our present situation is that we have fully selected the NIMS data remaining on the tape through the end of pass 2, and we have > 1 Mbit of unused downlink allocation at the present time. This may grow a bit since we have two additional high-resolution SUCOMPs to come down soon. These may also overcompress.
As a result we are proposing a third pass over the tape to retrieve the data that was lost this week (17ENGLOBAL01). This would be quite painless to implement since the start of our 17ENGLOBAL01 data is only 1500 tics from the end of our current pass 2 playback, on the same track. Thus less than 2 hours of slewing will be required to position the tape for the pass 3 playback.
Changes to the playback table this week include a few changes in data reduction factors, to reflect our pass 1 knowledge of compressions, and the addition of 3 additional gap-fill singles pairs to complete our spatial and wavelength coverage of 17ENSUCOMP02. This long-spectrometer mode observation of high southern latitudes has good signal to noise. However, since we were in cruise mode while it was obtained, there is some spatial smearing of features due to the less-accurate pointing.

E17 Playback Events Timeline (07-22-98: to 11-21-98:)

11-08-98: (W. Currie) The AACS Slew Test to recreate E17A executed nominally, E17A was successfully recreated. A gyro high rate fault trip caused FM 28 to trip 6 seconds into the slew. Analysis of the flood mode and high rate telemetry data is underway. Playback resumed after the test as expected since data compression was re-enabled in the RBS. Several cleanup commands will need to be sent real time in the next few days.

11-09-98: (J. Gross) Well, we're down to the very end of playback. We have less than two weeks to go, and our final update is this Wednesday. So this seems to be the right time to give out our remaining margin. Factored into this release is the amount of inefficiency we've received since the limited search on Oct 24-25, the undercompression of UVS data, and an estimate of our remaining inefficiency. That leaves 3.0 MB to give out today. PPR indicated that they have no need for more BTG, so the 3.0 gets split among SSI, NIMS, and UVS.

11-11-98: This is the final update for E17. Playback will terminate next Friday. The Project graciously agreed to let us have a 3rd pass over the tape in order to best utilize our downlink bits.

The main problem addressed in this update derives from the many hardware problems currently being experienced by the DSN. Performance has been particularly bad this week. As a result ten new sets of playback commands were added to fill the 14 gaps in pass 2 playback of 17ENSUCOMP01. In addition, as noted last week, there are also 6 significant gaps in 17ENGLOBAL01, which are being handled with 4 new sets of playback singles.

We received an additional 0.68 Mb of downlink allocation with the release of the remaining margin. In our current model, we show about 1.0 Mb of downlink allocation remaining after we finish returning all our remaining observations and gap fills. In a perfect world we would be certain to get all our bits down. However, as of this afternoon, Deep Space 1 has taken over one of our DSN-63 passes to deal with an anomaly (reportedly with the ion engine). We do not know how much of our remaining downlink will be ceded to DS1. Thus there are no guarantees (not that there ever were).

I neglected to mention one additional category of new playback singles added to this week's table. The Playback Coordinator, Jerod Gross, and I think that the spacecraft is currently sending down our pass 2 gap fill singles for 17ENSUCOMP02, even though the DSN is listening elsewhere. Thus, at the end of the table, you will find a duplicate set of 4 playback singles commanding return of the same data selected in pass 2. (These have new PSIDs and pass numbers).

E17 Playback Events Timeline (07-22-98: to 11-21-98:)

11-20-98: **(J. Erickson) Playback will terminate on Friday afternoon. We have lost about 12.5 Mbits due to station reallocation to VGR2 and DS1. This represents about 5% of the total capability for this orbit. Even with these losses, we expect to just finish with Pass 2 playback by the time we terminate. Unfortunately, we will lose our Pass 3 playback to recover significant data gaps in our data.**
The spacecraft slew test was successful in recreating the E17A gyro high rate error. The telemetry gathered during the test is being analyzed but has not yet yielded a solution. Four seconds into the slew, the gyro rate accelerates quickly to greater than 2.5 degrees per second. The first conclusion from these data are that the problem is in the electronics and that the gyros are not physically seeing the high rates reported in the telemetry channels.

11-21-98: **Playback terminates prior to playback of pass 3 gap fills.**

NIMS Anomaly Report - E17 Sequence

There was no NIMS processor halts detected during the E17 Encounter. Detectors 3 and 8 are still not functioning and are expected to be lost for the rest of the mission.

Also, the spacecraft suffered an AACS gyro fault trip that put the spacecraft into Cruise mode. The entire E17 encounter was executed in Cruise mode, instead of Inertial mode.

E17 AACS Anomaly

Near the beginning of the E17 encounter, an AACS fault cause the spacecraft configuration to change from operating the scan platform in inertial mode (which compensates for spacecraft wobble) to Cruise mode where the star scanner is the primary attitude reference. Since the cause of the anomaly was unknown at the time, the project decided to let the entire E17 encounter execute in Cruise mode.

The gyros tripped off, safed the scan platform and aborted to Cruise mode 6 seconds after the first 7SCAN command in E17A. The rest of the encounter went smoothly without any more AACS upsets.

Analysis of the gryos during E17 cruise point to the gyro electronics as being the cause of the fault trip.

NIMS Archived EDRs and CUBEs

The NIMS data are stored in EDRs (Experimental Data Records) produced by JPL-MIPS (Multi-mission Image Processing System). The NIMS Phase2 EDR is described in the NIMS EDR SIS (Software Interface Specification) Number 232-08. The same information is available in both human and machine-readable form in the PDS (Planetary Data System) structure files EDRHDR.FMT and EDRDATA.FMT in the LABEL directory of the NIMS EDR CD-ROM. Each observation has at least one EDR. The EDR file name is derived from the 12 character observation name plus a single character which allows an observation to be broken up into multiple EDRs. The EDRs have a Vicar label, followed by a PDS/ISIS label, binary header records and the data records. For archiving on CD-ROM, the Vicar labels are detached from the EDR (but kept separately on CD) and the file is renamed so as to conform to the 8.3 DOS file-naming convention. The 8.3 EDR name consists of a 2 character orbit identifier, a single character target identifier, a 3 digit counter and the suffix EDR. For example, the MIPS EDR G1GNGLOBAL01A.1 becomes G1G001.EDR. More information about NIMS EDRs can be found in the VOLINFO.TXT file on the EDR CD-ROM.

NIMS EDR data typically require considerable processing before they are readily amenable to science analysis. Normally, the EDRs are processed into spectral image cubes by one of several sets of software. MIPS systematically processes the EDRs into CUBEs (band sequential image files) and MASKs (spatial/spectral summary images) which are distributed on the NIMS CUBE CD-ROMs. Information about the structure of the NIMS CUBEs can be found in the VOLINFO.TXT file on the CUBE CD-ROM. The name of the CUBE file is derived from the input EDR filename. For archiving on CD-ROM, the CUBE files are renamed so as to conform to the 8.3 DOS file-naming convention. The 8.3 CUBE name consists of a 2 character orbit identifier, a single character target identifier, a 3 digit counter, a single character cube-type identifier, a single character data unit-type (DN, radiance or IOF) and the suffix QUB. For example, the MIPS IOF radiance cube for the observation G1GNGLOBAL01A.1 (G1G001) becomes G1G001CR.EDR. The summary MASKs on the CD-ROM have the same 6 character name as the EDR name with the suffix JPG or GIF to denote its graphics format.

NIMS Data Format - Data types - Data Labels - Data Access

Data Format

All data files have PDS labels. The raw data (EDR) file contains time-sequential, 16 bit integers. Reduced data files (TUBES and CUBES) may be viewed as images or spectra. They contain VAX real numbers, are band sequential (BSQ - the images are stacked in band order) and have geometry information appended as backplanes after the last NIMS band.

Data Types

Mask files contain summary images (3 band BSQ) and spectra of up to six selected regions that provide a quick indication of data location, data quality and spectral content. A Guide to understanding the NIMS mask is available.

Cube files contain data that have been projected and resampled. The core data are BSQ - spatial in the first two dimensions, and spectral in the third. Cubes of the satellites are projected in point-of-view, and, with few exceptions have no photometric correction applied. Cubes of Jupiter are (generally) projected as simple cylindrical. Cubes of Europa, Ganymede, and Callisto have been despiked. The cubes are available both in radiance and I/F (intensity divided by flux) form.

Tube files contain data in (almost) time order and normally have a NIMS-related 20 pixel spatial dimension (20 x n or n x 20). Projection coordinates are contained in backplanes, but the data have not been resampled. The data are in units of radiance and no despiking has been applied. All data in cubes are also available in tube form. Some data (such as spatially undersampled data) appear in tube form only.

A spike file contains a list of pixels that have been identified as spikes, but not replaced, in the tube. Spike files can be used to remove spikes from both tube and EDR files.

EDR files contain the most primitive form of the data available. They should be used only for advanced data analysis. The format is complex and the files do not form images or spectra without prior processing.

Data Labels

A data label (PDS form) is attached to the front of each file (except masks, which have an attached VICAR label and a detached PDS label). The labels are in ASCII keyword=value format and contain pointers to various data objects in the file, descriptions of the data objects and descriptions of the observation associated with the file. A history object in similar format follows and describes the processing steps that produced the file. Much of this information is necessary for understanding and viewing the cube. In particular, the label contains the offset to the cube, the dimensions of the cube, axes labels, and explicit wavelength information.

Data Access

Software for processing this data is called ISIS and is available for DEC VAX VMS, SUN Solaris, DEC Alpha Digital Unix, Silicon Graphics Unix and PC LINUX systems. The Unix versions are available from the USGS Astrogeology team. Images from NIMS cubes and tubes can be viewed with any image display program which allows an offset from the beginning of the file to the selected image. Packages tested include ISIS, VICAR, ENVI, SAO IMAGE, and NASAVIEW. ISIS and ENVI (and soon NASAVIEW) additionally display spectra. The ISIS viewer is named CV (UNIX) or QL3 (VMS).

Labels may be displayed with some editors (eg DOS edit), and with most "type" and "search" functions. Some editors do not recognize the PDS line termination conventions. The label may be listed by the ISIS function LHLIST (VMS) or LABEL (UNIX).

Software for converting EDRs to cubes exist in both ISIS (DEC VAX VMS) and VICAR (DEC Alpha VMS) versions only. A primitive list of values in an EDR may be obtained with the program EDRDMP2.

Understanding the NIMS Mask

The NIMS mask is designed to provide a quick summary of the contents of a NIMS data cube (or tube). It displays a view of both the spatial and spectral content of the data.

The mask has four regions. Starting from the upper left and proceeding clockwise: a spatial display; six or fewer representative spectra; annotation; and a spectral histogram.

The spatial display of an observation which has been projected and resampled (a cube) has a maximum size of 600x600 pixels. This is overlaid with surface coordinates and is embedded in a 700x700 grid of pixel coordinates. It is accompanied by two 1-dimensional histograms describing the raw image and the image stretched for display. The data image can range from a simple combination of up to 3 NIMS bands displayed in the RGB planes, to complicated arithmetic functions of NIMS bands displayed in the RGB planes. (The formulas appear as annotation below the histograms.) The graphics directly below the image show the input and output data histograms for the three color planes. The "shortest" color for each bin displays in front. The image also contains from one to six numbered rectangles, which show the from which averaged spectra (displayed on the right) were taken.

The spatial display of an observation in time sequence (a tube) is a graphic showing a footprint of the observation over a grid of surface coordinates on the target body. Numerals 1-6 on the graphic mark the locations of the average spectra displayed on the right.

The spectra to the right of the image may display either BDRF or radiance (or both). If both are displayed, then a vertical "radiance fence" line will appear where the breakpoint occurs. This permits display of both atmospheric data, which have significant reflectance and thermal components, and I/F satellite surface data which have strong absorptions at longer wavelengths (such as water spectra.) The spectra are labelled with wavelength in microns and location in both pixel and latitude-longitude space.

The annotation provides information about the observation, including its name, a brief description, its geometry, instrument and projection parameters. TCA is the time from Galileo’s closest approach to the target body.

The 2-dimensional spectral histogram in the lower left corner shows the number of pixels at a given radiance for each wavelength. If a surface contains spatial mixtures with significantly different spatial fractions for several components, the spectra of the components will be evident in this display.