

NIMS GUIDE TO THE C20 ORBIT

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Foreword to the Revised Edition

This document was originally published by the NIMS team as a preview to data acquisition for one orbit. It has 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 C20 Orbit for the NIMS Team. The aim of this guide is to provide detailed information on the various NIMS C20 observations and calibrations. Also included in this document is background information on the C20 orbit. This guide was produced before the start of the C20 orbit. After analysis of the NIMS C20 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 C20 orbit. Chapter 2 gives an overview of the C20 orbit and summarizes the NIMS science objectives for the C20 orbit using tables, spreadsheets and timelines. Chapter 3 contains diagrams of various aspects of spacecraft geometry for the C20 orbit. Chapter 4 summarizes the NIMS C20 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 C20 orbit.

For more information on the C20 orbit, please refer to the Galileo Orbit Planning guide and the Galileo Orbit Activity Plan for the C20 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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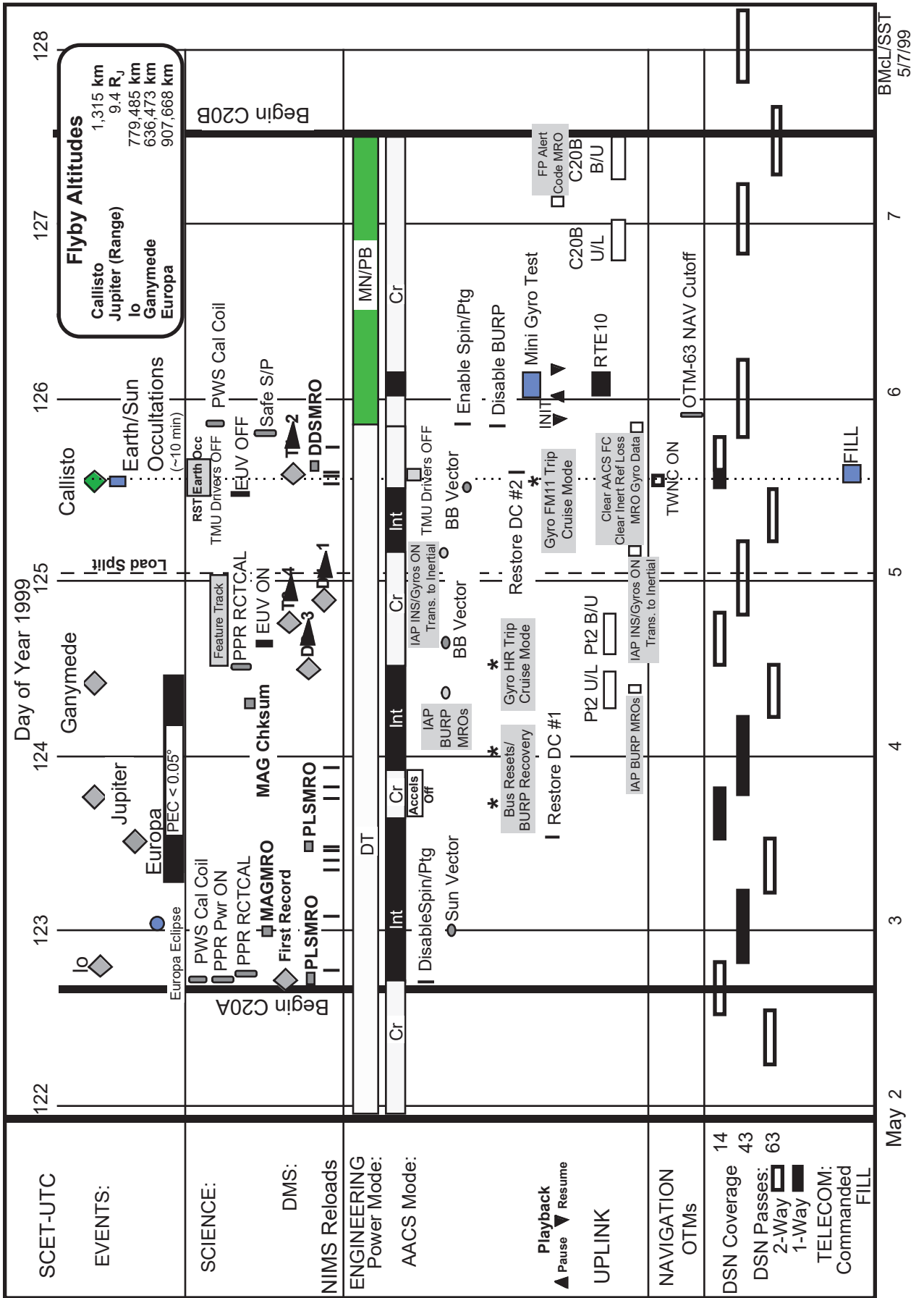
Introduction

This C20 orbit is the twentieth of twenty-five orbits in Galileo's Tour of the Jovian system and the ninth orbit in the Galileo Europa Mission (GEM). C20 starts the perijove reduction part of the GEM. This orbit has a targetted satellite flyby of Callisto. NIMS will also make observations of Jupiter and Io in this orbit.

There are 14 autonomous reloads of the NIMS RAM code from CDS planned during the C20A 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 monitor the NIMS engineering telemetry data on a regular schedule to track the instrument's status.

The C20 orbit is divided into 2 sequence loads: one Encounter Load (C20A) and one Orbital Cruise Load (C20B). The C20A load begins on D122 (05/02/99) and ends on D127 (05/07/99). This load contains the flybys of Jupiter and Callisto. The Cruise Load C20B runs from D127 to D180. Playback of the recorded data takes place during the Cruise phase, C20B. A high-level overview timeline of the C20 orbit can be found on the following two pages.

C20A Sequence Overview



Introduction

The following table lists the major events during C20, including NIMS Real Time observations, in UTC.

05/02/99	99-122/17:00:00	C20 Encounter Start
05/02/99	99-122/19:47:48	NIMS RAM Reload 01
05/02/99	99-122/19:48:37	Io Closest Approach
05/03/99	99-123/01:01:14	NIMS RAM Reload 02
05/03/99	99-123/04:28:31	NIMS RAM Reload 03
05/03/99	99-123/04:35:25	NIMS R/T Jupiter 01
05/03/99	99-123/06:30:52	NIMS RAM Reload 04
05/03/99	99-123/06:36:45	NIMS R/T Jupiter 02
05/03/99	99-123/09:57:11	NIMS RAM Reload 05
05/03/99	99-123/10:55:52	NIMS RAM Reload 06
05/03/99	99-123/11:55:29	NIMS RAM Reload 07
05/03/99	99-123/12:31:53	NIMS RAM Reload 08
05/03/99	99-123/17:12:24	PJ-20 Jupiter Closest Approach
05/03/99	99-123/17:57:00	CDS BUS Reset 01
05/03/99	99-123/22:57:38	NIMS RAM Reload 09
05/03/99	99-123/23:04:36	NIMS R/T Jupiter 03
05/04/99	99-124/00:08:00	CDS BUS Reset 02
05/04/99	99-124/00:08:00	NIMS Processor Halt 01
05/05/99	99-125/14:07:24	C20 Callisto Closest Approach
05/05/99	99-125/14:21:37	NIMS RAM Reload 10
05/05/99	99-125/14:48:55	NIMS RAM Reload 11
05/05/99	99-125/15:27:20	NIMS RAM Reload 12
05/05/99	99-125/15:57:40	NIMS RAM Reload 13
05/05/99	99-125/19:43:09	NIMS RAM Reload 14
05/07/99	99-127/12:06:36	Start C20 Playback
05/19/99	99-139/00:58:28	NIMS R/T PCT CAL
06/07/99	99-158/00:33:51	NIMS R/T RCT CAL
06/29/99	99-180/06:24:29	End C20 Playback

Chapter 2 - Orbit Overview

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Introduction to Chapter 2

This chapter gives an overview of the NIMS observations in the C20 Orbit.

The text on page 3 summarizes the NIMS science objectives for C20. The NIMS calibrations are discussed on page 3. Early data return and C20 playback are also discussed on page 3.

The table on page 4 is a time-ordered listing of the NIMS Oapels for C20.

The plot on page 5 shows the geometry of the NIMS C20 observations using a north trajectory pole view projection. The plot on page 6 shows the geometry of the NIMS C20 calibrations.

The spreadsheet on page 7 summarizes the various inputs for the NIMS C20 Observations. The spreadsheet on pages 8 and 9 summarizes the resource usage for the NIMS C20 observations.

The table on page 10 lists various NIMS C20 observing parameters: target latitude/longitude, range, cone angle, incidence angle (light), emission angle (view) and phase angle.

The timeline on page 11 shows the placement of the C20 observations for all instruments during the C20 Encounter Period.

The tapemap on page 12 shows the placement of the C20 observations on the spacecraft's tape recorder.

The timeline on pages 13 through 21 shows the preliminary C20 playback schedule.

The NIMS C20 mosaic designs are summarized on page 22 and 23 in time-order.

NIMS C20 SCIENCE OVERVIEW

Jupiter Science

There are eight Jupiter observations in C20. Three are realtime and five are recorded. The first and third realtime observations look at the Northern Temperate Belt (NTB) and the second looks at the southern auroal region. Two recorded observations (JNHOTMAP01 and 02) map the same +7 degree latitude hotspot region at different viewing geometries, 1 nightside and 1 dayside. Three other observations (JNGRWAKE01, 02 and 03) map the same turbulent wake region downstream of the Great Red Spot at different viewing geometries, 1 nightside and 2 dayside.

Io Science

INHRSPEC01 maps the 1/3 daylit disk. This observation has the best nightside coverage of the Prometheus Hemisphere to date.

Europa Science

There is a single distant Europa eclipse observation in C20.

Ganymede Science

Ganymede was not observed in C20.

Callisto Science

There are six observations of Callisto in C20. CNCATMOS01 is a near-equatorial limb-scan to look for carbon dioxide molecules and other constituents in Callisto's tenuous atmosphere. CNFEATRE01, 02 and 03 are regional maps to determine minor surface constituents on the trailing hemisphere of Callisto. CNBRANCR01 maps the region surrounding the Bran crater. CNGLOBAL01 is a global map of the daylit-disk in three swaths, from 180 to 280 degrees West longitude.

Calibration

There are five NIMS calibration observations planned for C20: one PCT cal, one RCT cal, three OPCALs. OPCAL_02 and 03 are tacked on to the end of recorded observations.

Early Data Return

There are six realtime observations in C20: Three 408 wavelength Jupiter observations (JUPRTS), one PCT calibration, one RCT calibration and one OPCAL.

C20 Playback

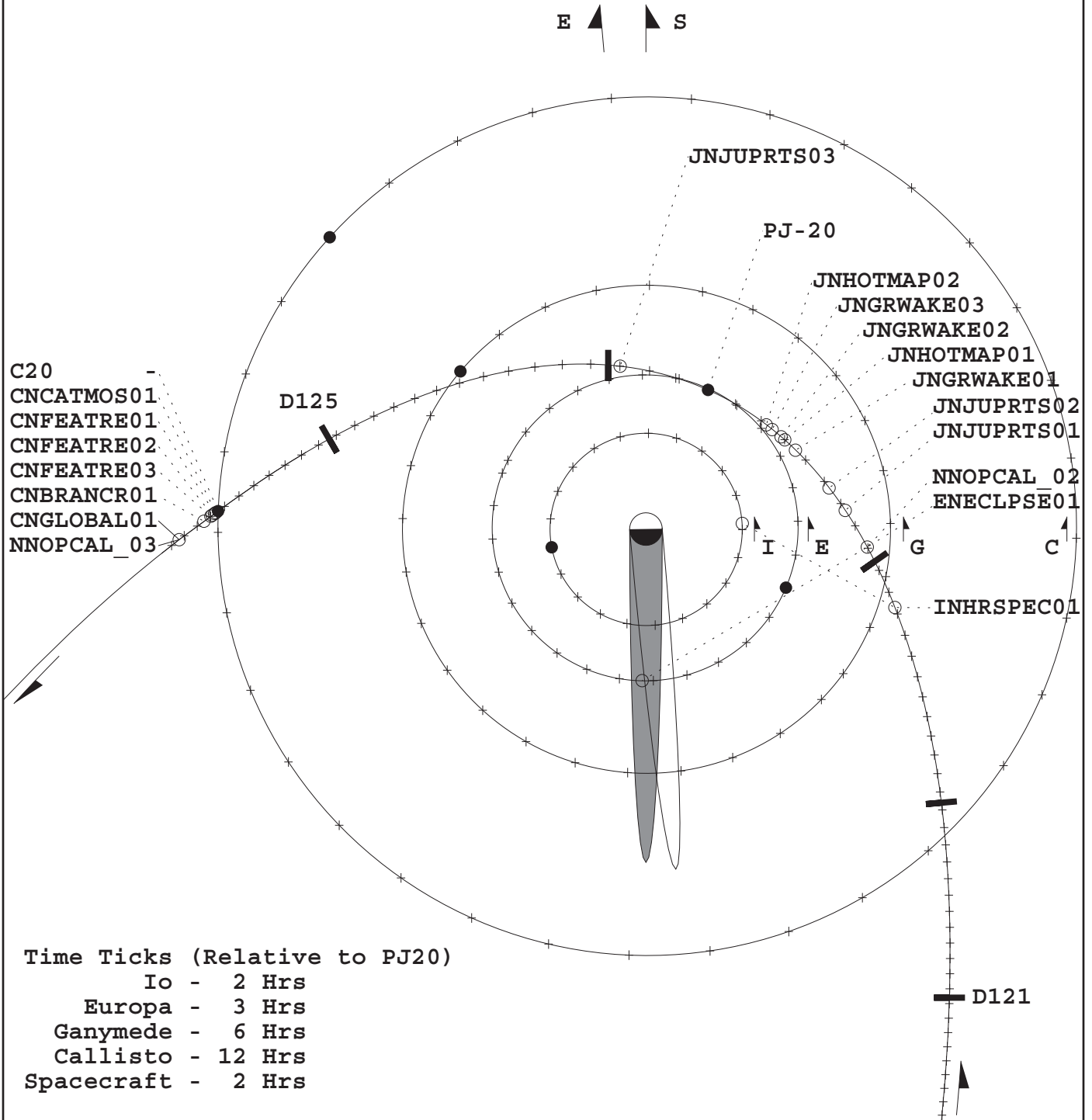
C20 playback is split into two passes through the tape.

C20 Time-Ordered Listing

OAPEL	Start (UTC)	End (UTC)	Duration
20NNHRSPEC01-	99-122/19:49:38	99-122/19:51:40	000/00:02:01
20INHRSPEC01*	99-122/19:52:40	99-122/19:59:45	000/00:07:04
20NNECLPSE01-	99-123/01:08:08	99-123/01:10:10	000/00:02:01
20ENECLPSE01*	99-123/01:11:10	99-123/01:18:15	000/00:07:04
20NNJUPRTS01-	99-123/04:28:20	99-123/04:30:22	000/00:02:01
20JNJUPRTS01*	99-123/04:31:22	99-123/04:45:32	000/00:14:09
20NNJUPRTS02-	99-123/06:30:41	99-123/06:32:42	000/00:02:01
20JNJUPRTS02*	99-123/06:33:43	99-123/06:47:52	000/00:14:09
20NNGRWAKE01-	99-123/09:56:57	99-123/09:58:58	000/00:02:01
20JNGRWAKE01-	99-123/09:58:58	99-123/10:19:12	000/00:20:13
20NNHOTMAP01-	99-123/10:57:37	99-123/10:59:38	000/00:02:01
20JNHOTMAP01-	99-123/11:00:39	99-123/11:19:52	000/00:19:12
20JNGRWAKE02-	99-123/11:19:52	99-123/11:39:04	000/00:19:12
20NNGRWAKE03-	99-123/11:54:14	99-123/11:57:16	000/00:03:02
20JNGRWAKE03-	99-123/11:57:16	99-123/12:12:26	000/00:15:10
20NNHOTMAP02-	99-123/12:30:38	99-123/12:33:40	000/00:03:02
20JNHOTMAP02-	99-123/12:35:42	99-123/12:54:54	000/00:19:12
20NNJUPRTS03-	99-123/22:57:32	99-123/22:59:33	000/00:02:01
20JNJUPRTS03*	99-123/23:00:34	99-123/23:14:43	000/00:14:09
20NNCATMOS01-	99-125/14:21:30	99-125/14:23:32	000/00:02:01
20CNCATMOS01-	99-125/14:24:32	99-125/14:37:41	000/00:13:08
20CNFEATRE01-	99-125/14:37:41	99-125/14:48:48	000/00:11:07
20NNFEATRE02-	99-125/14:51:50	99-125/14:53:52	000/00:02:01
20CNFEATRE02-	99-125/14:54:52	99-125/15:09:02	000/00:14:09
20NNFEATRE03-	99-125/15:27:14	99-125/15:29:15	000/00:02:01
20CNFEATRE03-	99-125/15:29:15	99-125/15:43:24	000/00:14:09
20NNBRANCR01-	99-125/15:59:35	99-125/16:01:36	000/00:02:01
20CNBRANCR01-	99-125/16:02:37	99-125/17:03:17	000/01:00:40
20NNGLOBAL02-	99-125/19:47:05	99-125/19:49:06	000/00:02:01
20CNGLOBAL01-	99-125/19:50:07	99-125/20:22:28	000/00:32:21
20NNCHOPOF01-	99-125/20:38:39	99-125/20:48:46	000/00:10:06
20NNPCTRLT01-	99-138/18:29:56	99-139/02:20:06	000/07:50:10
20NNRCTRLT01-	99-157/12:00:00	99-158/01:15:44	000/13:15:44

NIMS C20 OBSERVATIONS

Bold - Returned
 Gray - Not Returned



Time Ticks (Relative to PJ20)
 Io - 2 Hrs
 Europa - 3 Hrs
 Ganymede - 6 Hrs
 Callisto - 12 Hrs
 Spacecraft - 2 Hrs

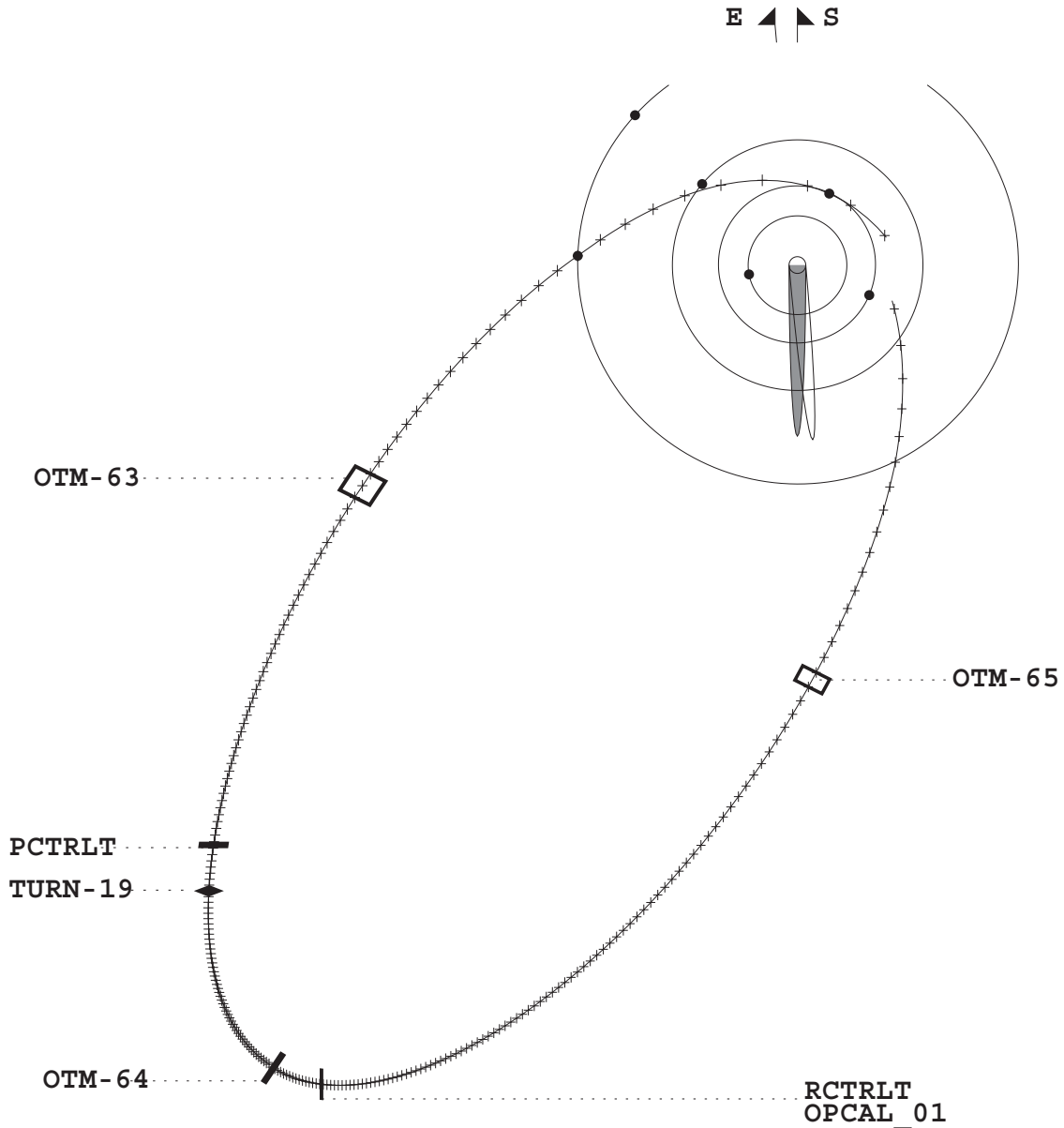
Callisto Flyby (C20): 05-MAY-1999 (D125) 14:07:24 UTC
 Perijove (PJ20): 03-MAY-1999 (D123) 17:12:24 UTC

C20 North Trajectory Pole View

NIMS C20 CRUISE CALIBRATIONS

Callisto Flyby (C20): 05-MAY-1999 (D125) 14:07:24 UTC
Perijove (PJ20): 03-MAY-1999 (D123) 17:12:24 UTC
Apojove (AJ20): 02-JUN-1999 (D153) 16:00:00 UTC

Time Ticks (Relative to C20)
Spacecraft - 6 Hours



C20 North Trajectory Pole View, Perijove to Perijove

C20 NIMS INPUTS

Activity ID	Observation Title	NIMS Edit Table	NIMS PB Table	Mode	Gain	Grating Start	Grating Offset	Record Format	PSID
20NNHRSPEC01-	NIMS Software Reload								
20INHRSPEC01*	Io Monitoring at High Spectral Resolution	C20ILMDK243D	C20ILMDK228D	LM	4	0	4	LPU	DA
20NNECLPSE01-	NIMS Software Reload								
20ENECPLPSE01*	Europa Eclipse Obs	C20ELM442	C20ELM360	LM	4	0	4	MPW	DB
20NNECLPSE01-	Europa Eclipse Obs(O)	C20PCT252	C20OPCAL48	LM	4	0	4	MPW	EB
20NNJUPRTS01-	NIMS Software Reload								
20JNJUPRTS01*	Jupiter Realtime Observation	C20JLM442/MB	R/T	LM	2	0	4	R/T	DH
20NNJUPRTS02-	NIMS Software Reload								
20JNJUPRTS02*	Jupiter Realtime Observation	C20JRT204A/MB	R/T	LM	2	0	4	R/T	DI
20NNGRWAKE01-	NIMS Software Reload								
20JNGRWAKE01-	GRWAKE01	C20JHT253A	C20JHT100A	LM	4	0	4	LPU	DC
20NNHOTMAP01-	NIMS Software Reload								
20JNHOTMAP01-	NIMS Jupiter HotMap	C20JHT253A	C20JHT100A	LM	4	0	4	LPU	DD
20JNGRWAKE02-	GRWAKE02	C20JSB253C	C20JSB140C	LM	2	0	4	LPU	DE
20NNGRWAKE03-	NIMS Software Reload								
20JNGRWAKE03-	GRWAKE03	C20JSB253C	C20JSB140C	LM	2	0	4	LPU	DF
20NNHOTMAP02-	NIMS Software Reload								
20JNHOTMAP02-	NIMS Jupiter HotMap	C20JSB253C	C20JSB140C	LM	2	0	4	LPU	DG
20NNJUPRTS03-	NIMS Software Reload								
20JNJUPRTS03*	Jupiter Realtime Observation	C20JLM442/MB	R/T	LM	2	0	4	R/T	DJ
20NNATMOS01-	NIMS Software Reload								
20CNCATMOS01-	Callisto Limb Scan	C20CLM247L	C20CLM228L	LM	4	0	4	LPU	DL
20CNFEATRE01-	Callisto Feature	C20CLM442	C20CLM228D_1	LM	4	0	4	MPW	DK
20NNFEATRE02-	NIMS Software Reload								
20CNFEATRE02-	Callisto Feature	C20CLM442	C20CLM228D_1	LM	4	0	4	MPW	DM
20NNFEATRE03-	NIMS Software Reload								
20CNFEATRE03-	Callisto Feature Observation	C20CLM442	C20CLM228D_1	LM	4	0	4	MPW	DN
20NNBRANCR01-	NIMS Software Reload								
20CNBRANCR01-	Bran Crater	C20CLM442	C20CLM228D_1	LM	4	0	4	MPW	DP
20NNGLOBAL02-	NIMS Software Reload								
20CNGLOBAL01-	Callisto Global Map	C20CLM243D	C20CLM228D_0	LM	4	0	4	LPU	DO
20CNGLOBAL01-	Callisto Global Map(O)	C20PCT252	C20OPCAL48	LM	4	0	4	LPU	FB
20NNPCTRLT01-	NIMS Real-Time PCT Calibration	C20PCT252	R/T	LM	4	0	4	R/T	FB
20NNRCTRLT01-	NIMS RCT Real Time Calibration	C20PCT252	R/T	LM	1	0	4	R/T	XE
20NNROPAL01	NIMS OPAL	C20OPCAL48	R/T	LM	4	0	4	R/T	DC

C20 RESOURCES

Activity ID	Mode	Record Format	Obs. Cost (tracks)	Obs. Cost (ticks)	Number Returned	Obs Record (sec.)	Obs PB (sec.)	Selected		Bits to		Mode Cycle time (sec)
								sBOT (MBITS)	MBOT (Mbit)	Tape	Tape	
20INHRSEPC01	LM	LPU	0.0100	58	228	240	180	1.11	1.48	1.48	1.48	8.667
20ENECLPSE01	LM	MPW	0.0457	266	360	300	182	2.10	3.46	3.46	3.46	8.667
20ENECLPSE01 O	LM	MPW	0.0185	108	48	120	61	0.70	1.38	1.38	1.38	8.667
20JNJUPRTS01	LM	R/T			360							
20JNJUPRTS02	LM	R/T			204							
20JNGRWAKE01	LM	LPU	0.0239	139	100	585	585	3.61	3.61	3.61	3.61	8.667
20JNHOTWAP01	LM	LPU	0.0359	209	100	885	423	2.61	5.46	5.46	5.46	8.667
20JNGRWAKE02	LM	LPU	0.0239	139	140	585	585	3.61	3.61	3.61	3.61	8.667
20JNGRWAKE03	LM	LPU	0.0239	139	140	585	585	3.61	3.61	3.61	3.61	8.667
20JNHOTWAP02	LM	LPU	0.0359	209	140	885	423	2.61	5.46	5.46	5.46	8.667
20JNJUPRTS03	LM	R/T			360							
20CNCATMOS01	LM	LPU	0.0245	143	228	600	600	3.70	3.70	3.70	3.70	8.667
20CNFEATRE01	LM	MPW	0.0909	530	228	600	548	6.31	6.91	6.91	6.91	8.667
20CNFEATRE02	LM	MPW	0.1666	971	228	1102	1092	12.58	12.70	12.70	12.70	8.667
20CNFEATRE03	LM	MPW	0.0909	530	228	600	595	6.85	6.91	6.91	6.91	8.667
20CNBRANCR01	LM	MPW	0.1240	722	228	819	747	8.61	9.43	9.43	9.43	8.667
20CNGLOBAL01	LM	LPU	0.0687	400	228	1700	1379	8.51	10.49	10.49	10.49	8.667
20CNGLOBAL01 O	LM	LPU	0.0052	30	48	120	120	0.74	0.74	0.74	0.74	8.667
Total			0.7786	4537								
Allocated												

C20 RESOURCES

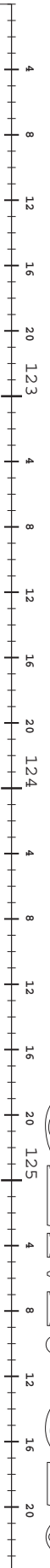
Activity ID	AACS Mbits	Comp	RT	Total BTG Mbits (4% ahead)	Data Reduction Factor (sBOT/BTG)	Pass
	c 2.5		BTG Mbits			
20INHRSPEC01	0.01	1.20		0.8208	1.4	1
20ENECPLPSE01	0.01	1.60		0.9828	2.1	2
20ENECPLPSE01 O	0.00	1.60		0.0439	16.0	1
20JNJUPRTS01			0.16			
20JNJUPRTS02			0.16			
20JNGRWAKE01	0.03	1.30		1.0800	3.3	2
20JNHOTMAP01	0.02	1.30		0.7809	3.3	1
20JNGRWAKE02	0.03	1.60		1.2285	2.9	2
20JNGRWAKE03	0.03	1.60		1.2285	2.9	1
20JNHOTMAP02	0.02	1.60		0.8883	2.9	2
20JNJUPRTS03			0.16			
20CNCATMOS01	0.03	1.90		1.7279	2.1	2
20CNFEATRE01	0.03	1.90		1.5782	4.0	1
20CNFEATRE02	0.06	1.90		3.1448	4.0	1
20CNFEATRE03	0.03	1.90		1.7135	4.0	1
20CNERANCRO1	0.04	1.90		2.1513	4.0	2
20CNGLOBAL01	0.08	2.00		3.7728	2.3	1,2
20CNGLOBAL01 O	0.01	2.00		0.0691	10.7	1
Total				21.2112		
Allocated				22.0180		

NIMS C20 OBSERVING GEOMETRY

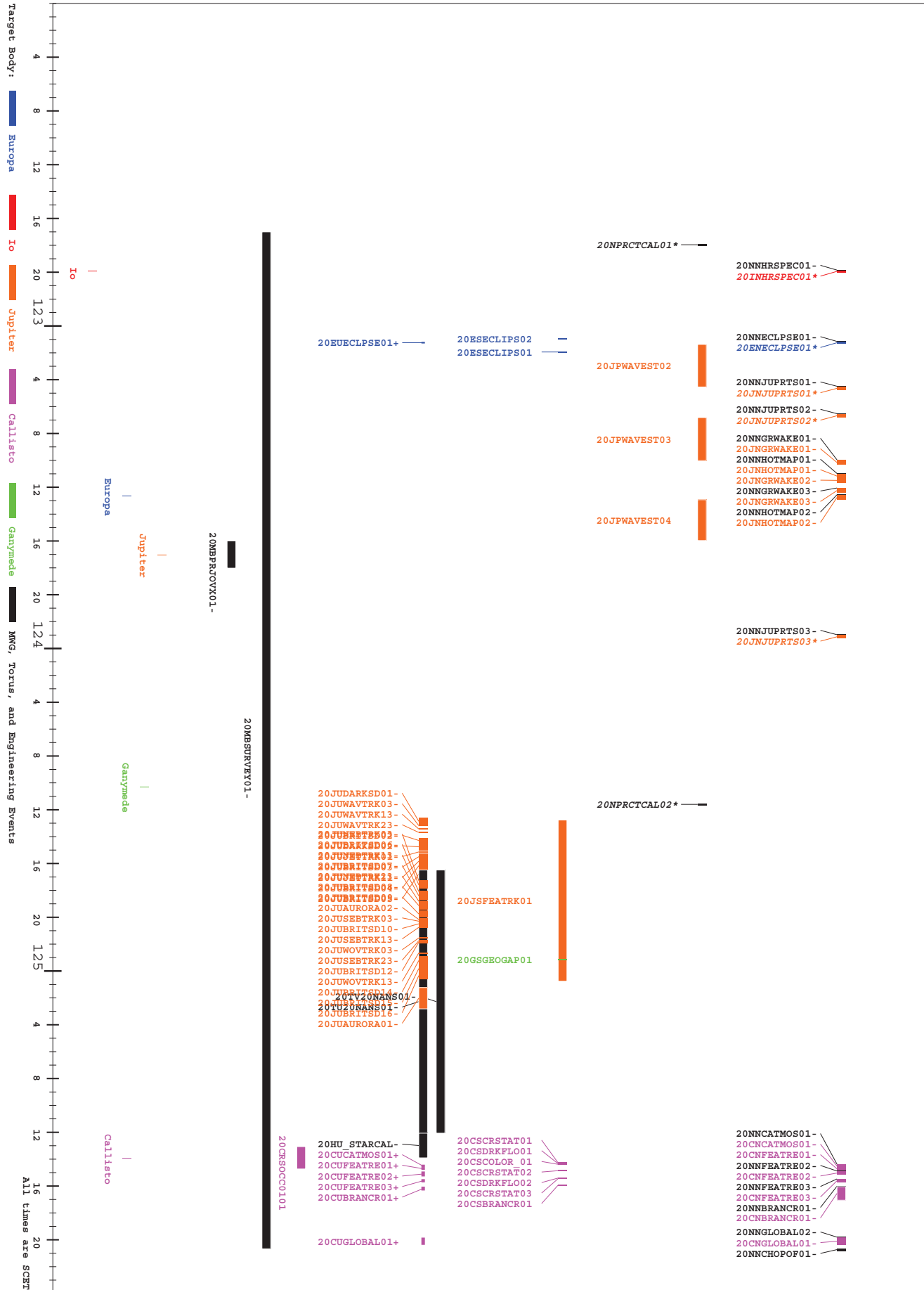
OAPEL	Latitude (deg)	Longitude (deg)	Range (km)	Cone (deg)	Light (deg)	View (deg)	Phase (deg)
20INHRSPEC01	-90 to +90	156 to 287	780K	54	55 to 172	1 to 63	121
20ENECLPSE01	-90 to +90	340 to 149	1145K	116	13 to 149	7 to 90	59
20JNJUPRTS01	0 to +7	22 to 46	804K	90	56 to 85	1 to 29	84
20JNJUPRTS02	-80 to -70	77 to 185	808K	99	81 to 101	82 to 91	75
20JNGRWAKE01	-20 to -12	254 to 276	690K	118	90 to 116	35 to 62	58
20JNHOTMAP01	+4 to +12	299 to 324	690K	123	96 to 126	45 to 77	51
20JNGRWAKE02	-20 to -12	257 to 269	649K	120	46 to 64	17 to 21	55
20JNGRWAKE03	-20 to -12	243 to 261	654K	121	23 to 38	32 to 51	55
20JNHOTMAP02	+4 to +12	308 to 321	629K	128	49 to 63	9 to 21	47
20JNJUPRTS03	-7 to +0	288 to 300	668K	170	14 to 29	24 to 41	13
20CNCATMOS01	+5 to +6	252 to 268	18K	89	3 to 15	81 to 94	96
20CNFEATRE01	-5 to +5	210 to 216	22K	98	53 to 58	27 to 34	86
20CNFEATRE02	+25 to +35	189 to 225	34K	102	49 to 78	28 to 50	81
20CNFEATRE03	+5 to +15	192 to 215	50K	105	54 to 76	9 to 28	79
20CNBRANCR01	-45 to -12	192 to 215	68K	107	61 to 79	20 to 38	78
20CNGLOBAL01	-90 to +90	178 to 288	1880K	108	0 to 94	2 to 90	75

C20 ENCOUNTER
Plot Time: 99-122/00:00:00.000 to 99-126/00:00:00.000
Date of Plot: 15-Mar-99 14:34: 0

GEM: C20



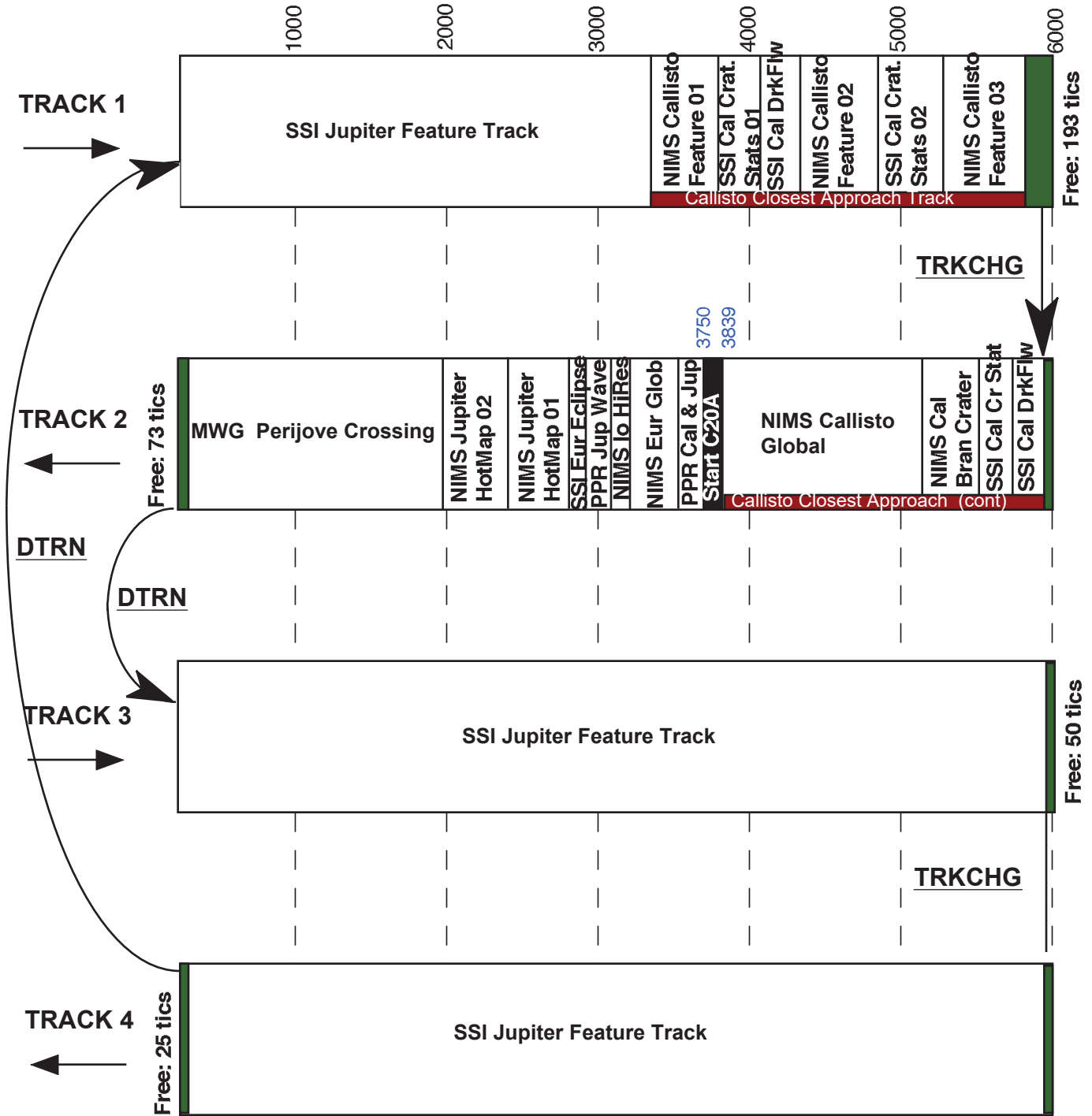
Geometric Events MWG Observations RS UVS/EUV Observations SSI Observations PPR Observations NIMS Observations



Target Body: Europa Io Jupiter Callisto Ganymede MWG, Torus, and Engineering Events

All times are SCET

C20 HIGH-LEVEL TAPEMAP

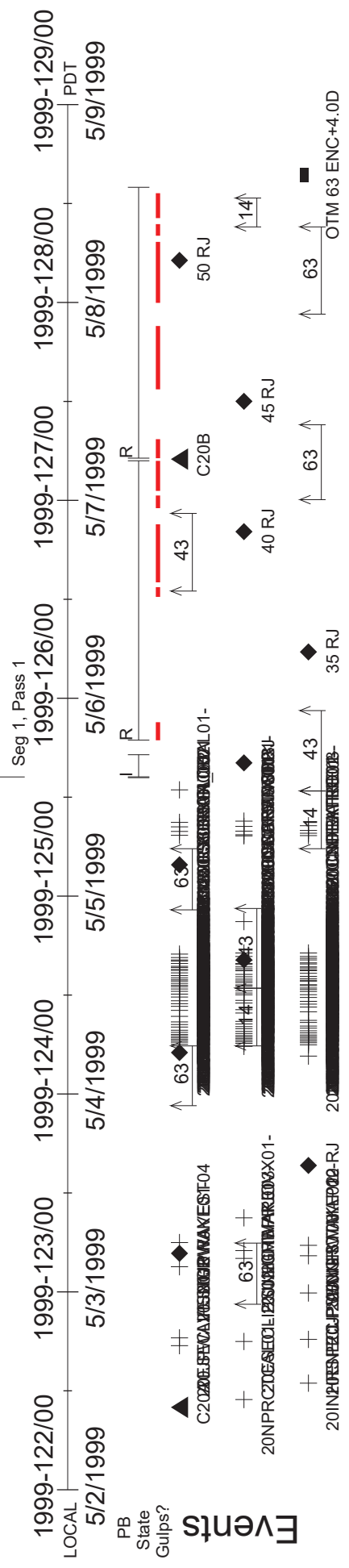


J. Gross, 8/13/97

C20PDB

- 3700/2 3698/2 20NPRCTCAL01-
- 3699/2 3640/2 20INHRSPEC-
- 3636/2 3541/2 20ESECLIPS01
- 3536/2 3439/2 20ESECLIPS02
- 3438/2 3172/2 20ENECLPSE01-
- 3171/2 20JPWAVEST02

Playback / Date Returned



C20PDB

3062/2
20JPWAVEST02

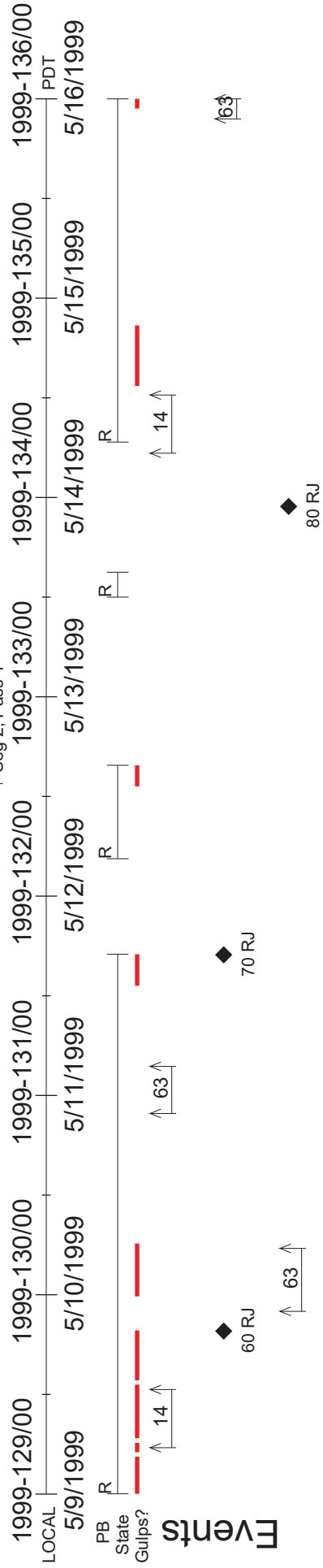
3062/2
20JPWAVEST03

2816/2

2953/2
20JINHOTMAP01-

Playback / Date Returned

Seg 2, Pass 1

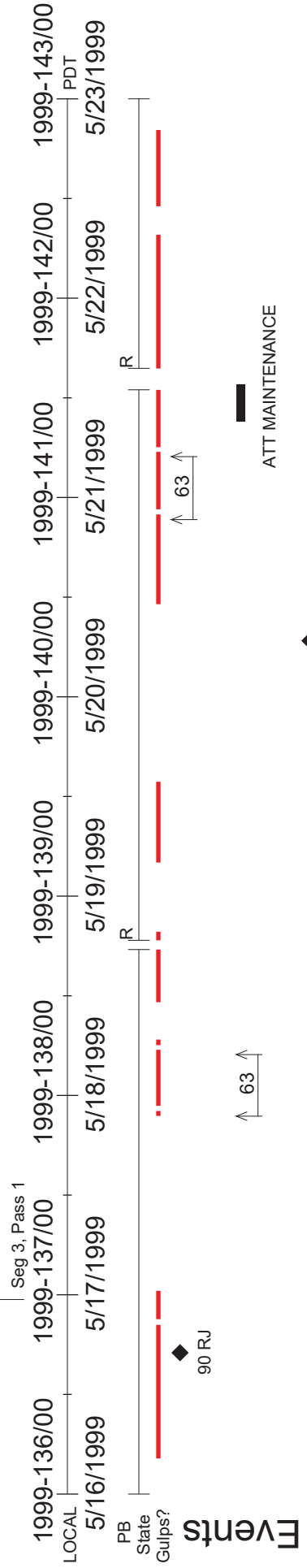


C20PDB

2606/2
 20JNHOTMAP01-
 2469/2 2330/2
 20JNGRWAKE03-
 2121/2 2013/2
 20JPWAVEST04
 2015/2

Playback / Date Returned

20MBPRJOVX01-

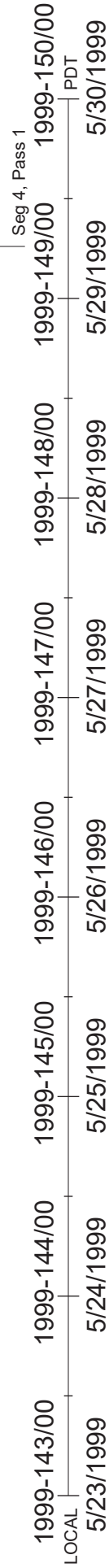


C20PDB

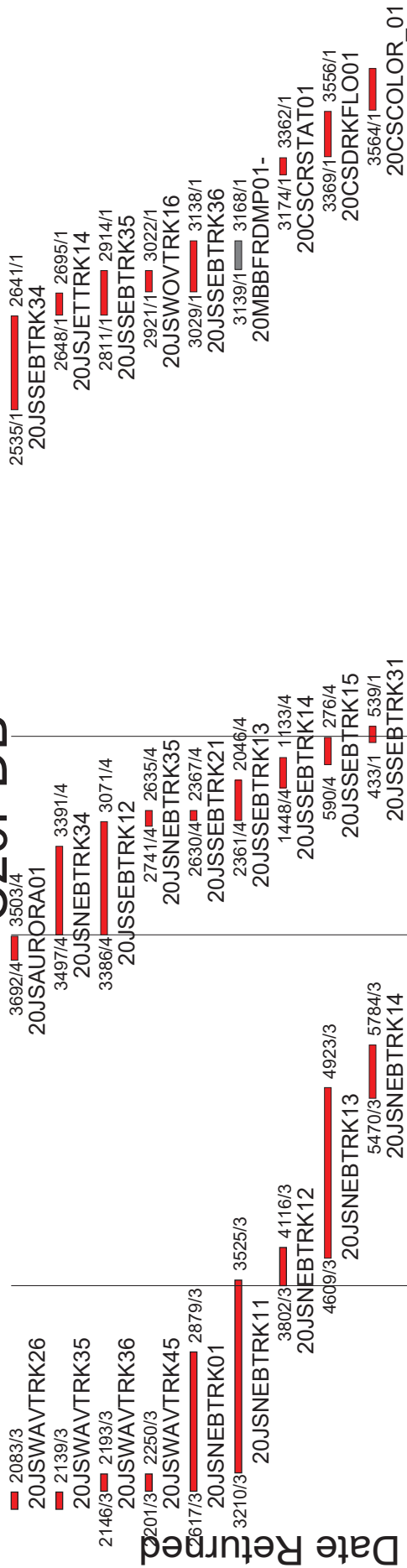
20MBPRJOVX01-

- 1305/23 ■ 1834/3
- 20JSWAVTRK25
- 305/2 ■ 303/23 ■ 2028/3
- 20NPRC000SU02-TRK01
- 249/3 ■ 290036/3 ■
- 20JSWAVTRK26
- 524/3 ■ 3709/3 ■
- 20JSWAVTRK35
- 579/3 ■ 625/3
- 20JSWAVTRK04
- 687/3 ■ 736/3
- 20JSWAVTRK22
- 743/3 ■ 790/3
- 20JSWAVTRK31
- 798/3 ■ 844/3
- 20JSWAVTRK14
- 852/3 ■ 899/3
- 20JSWAVTRK23
- 906/3 ■ 955/3
- 20JSWAVTRK32
- 962/3 ■ 1009/3
- 20JSWAVTRK41
- 1017/3 ■ 1063/3
- 20JSWAVTRK24
- 1071/3 ■ 1118/3
- 20JSWAVTRK33
- 1125/3 ■ 1174/3
- 20JSWAVTRK42
- 1236/3 ■ 1283/3
- 20JSWAVTRK34
- 1290/3 ■ 1337/3
- 20JSWAVTRK43

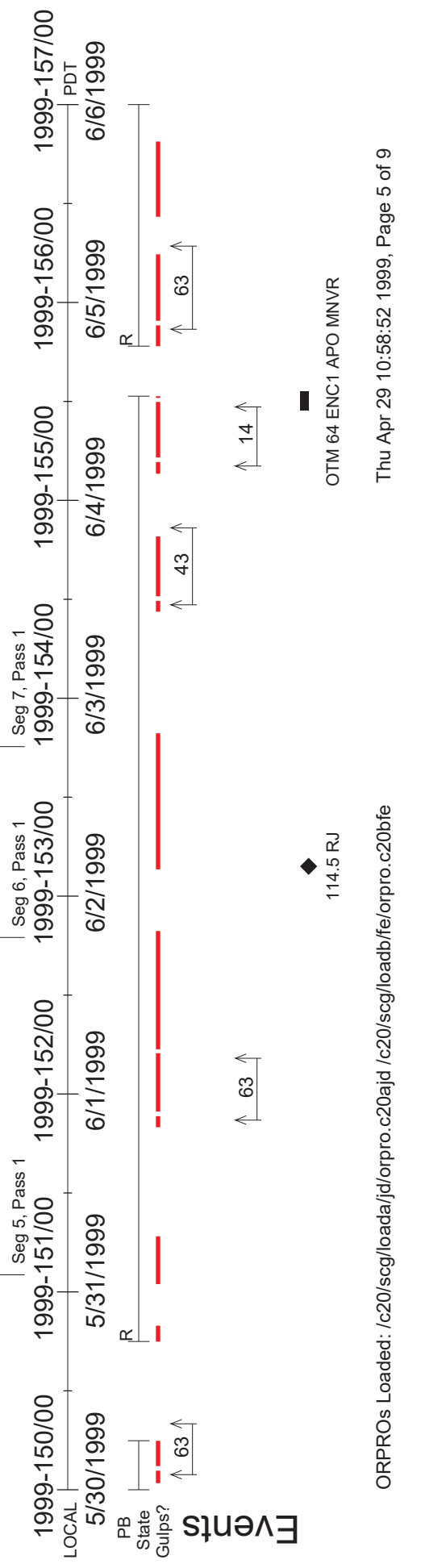
Playback / Date Returned



C20PDB



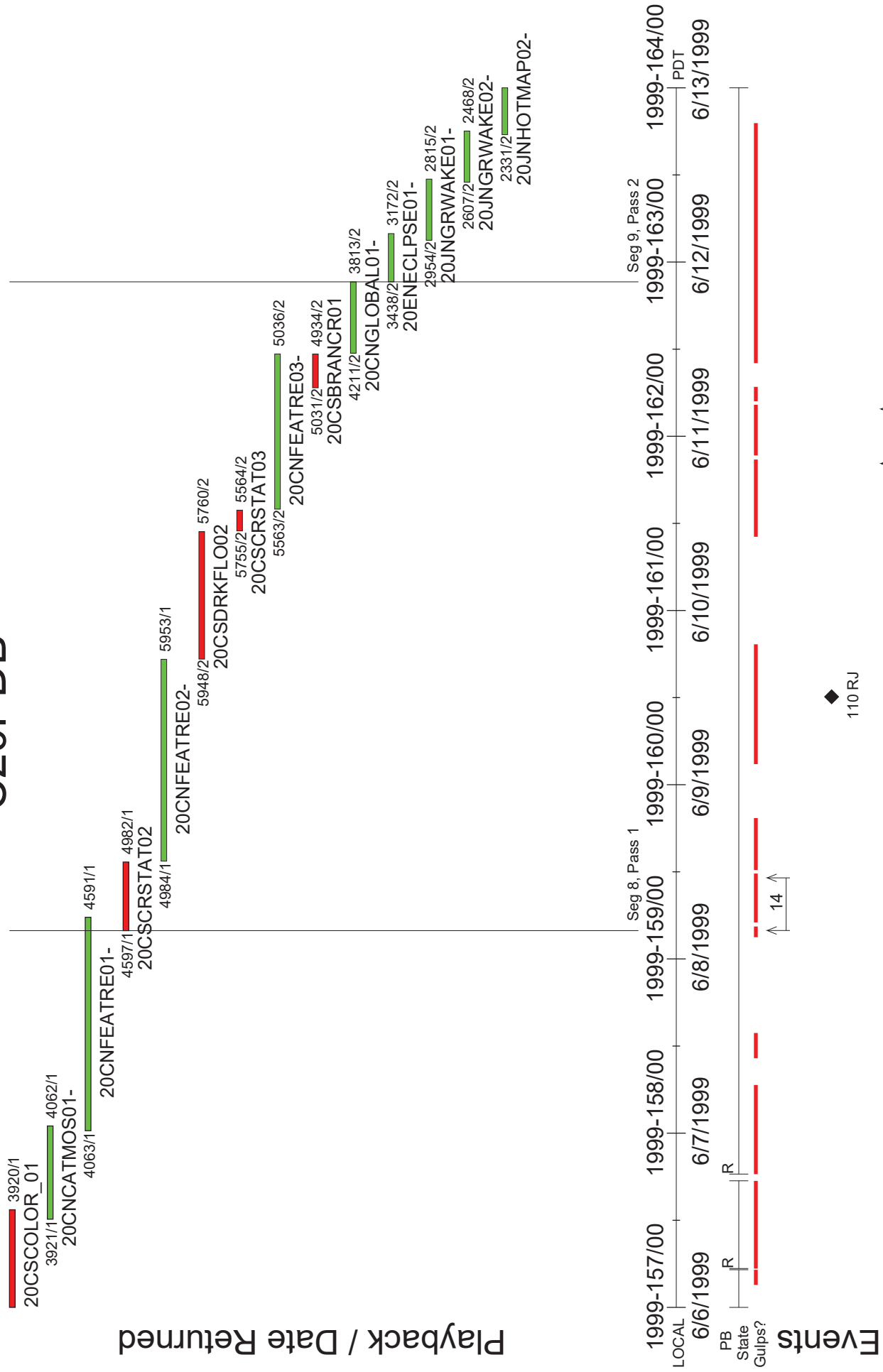
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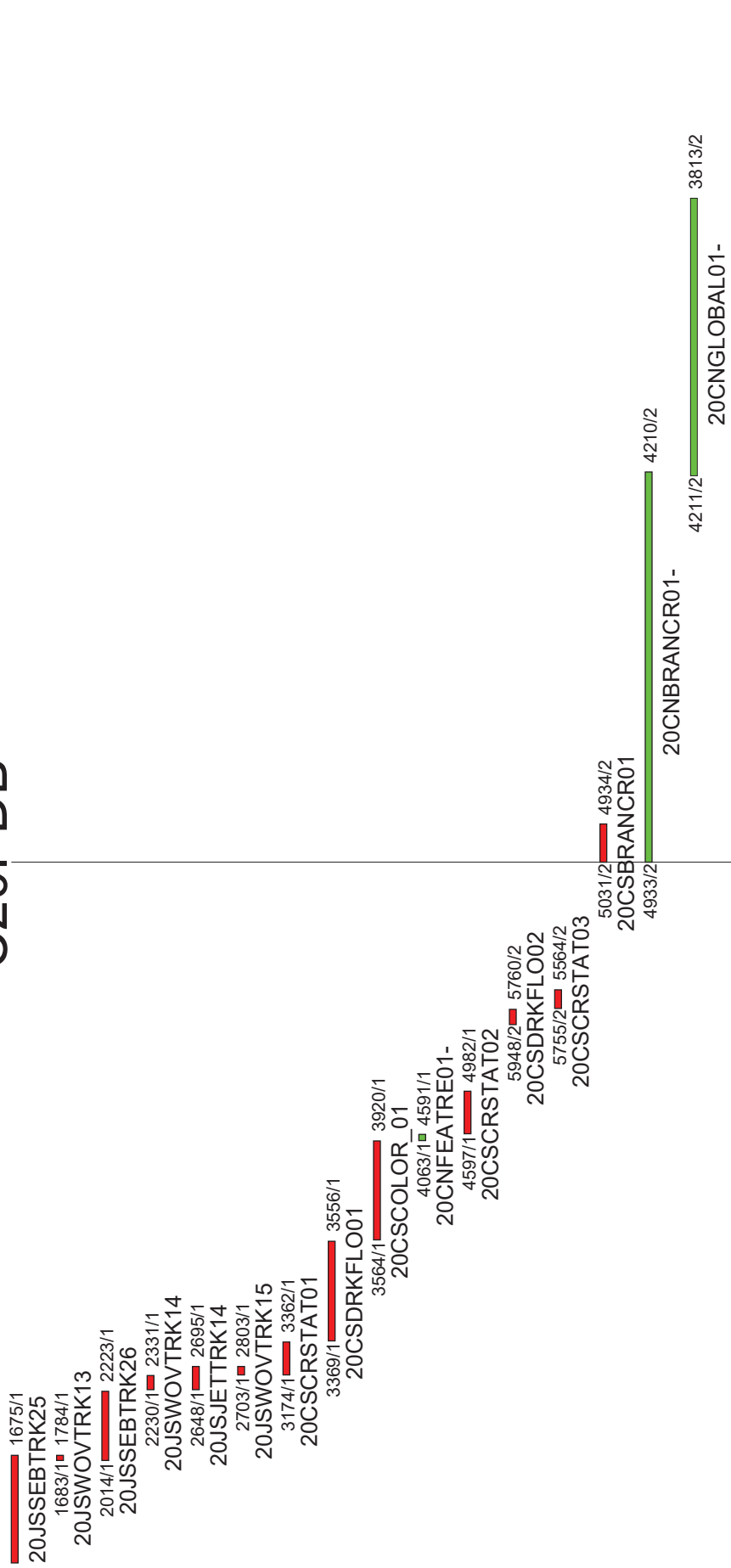
Events

OTM 64 ENC1 APO MNVR

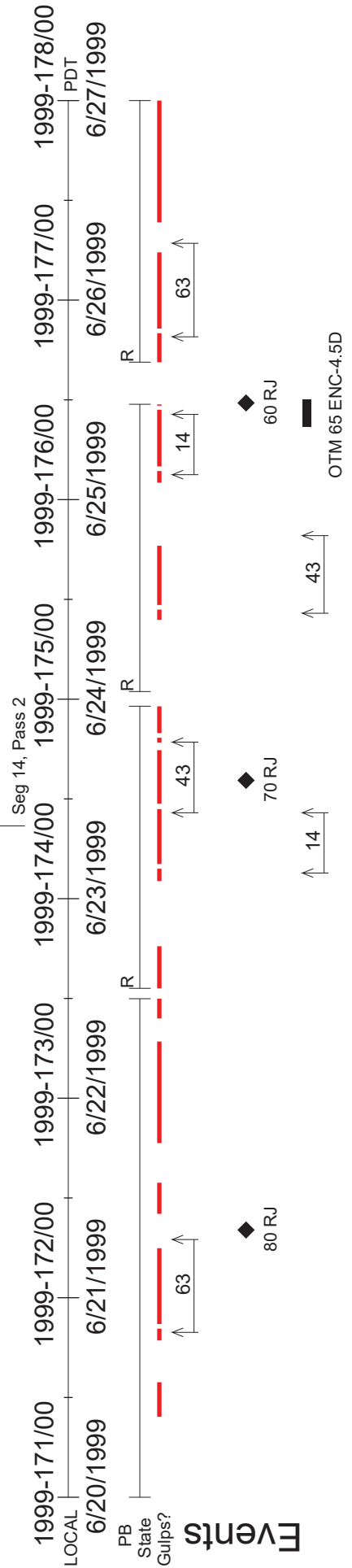
C20PDB



C20PDB



Playback / Date Returned



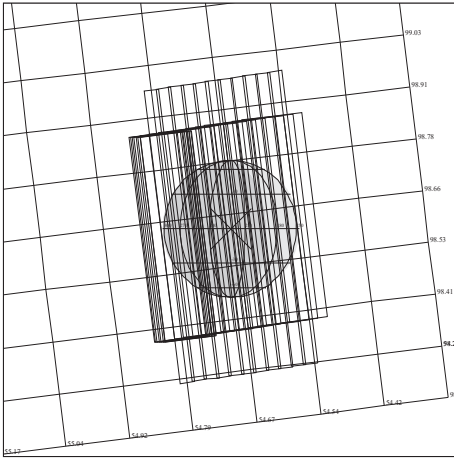
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Playback / Date Returned

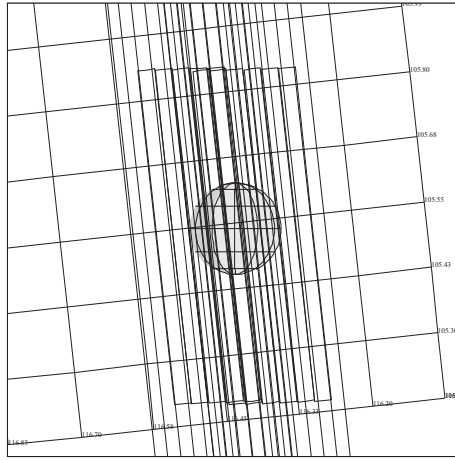
2-21



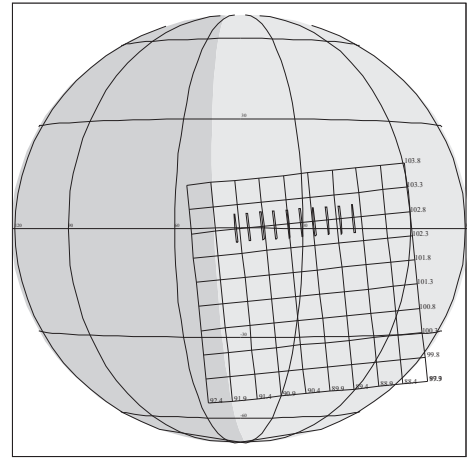
C20 NIMS A



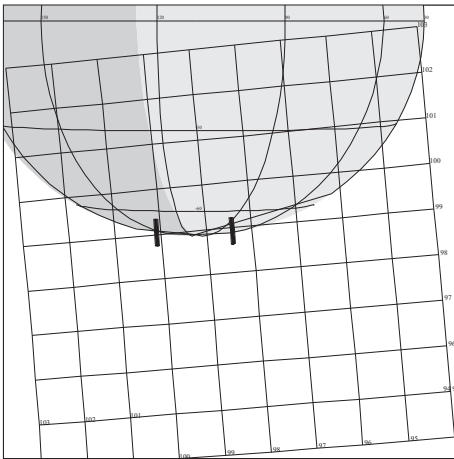
20INHRSPEC01
99-122/19:52:40



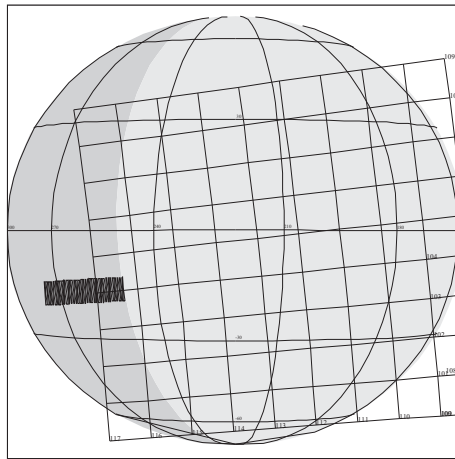
20ENECLPSE01
99-123/01:11:10



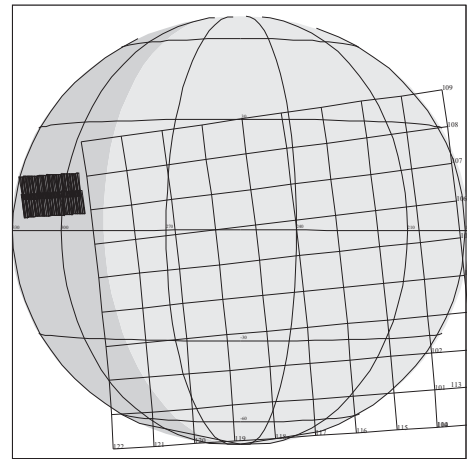
20JNJUPRTS01
99-123/04:31:22



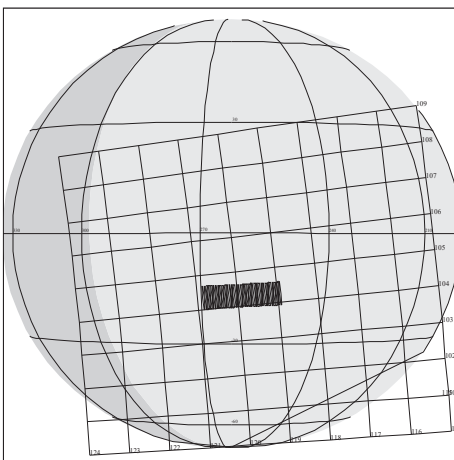
20JNJUPRTS02
99-123/06:33:43



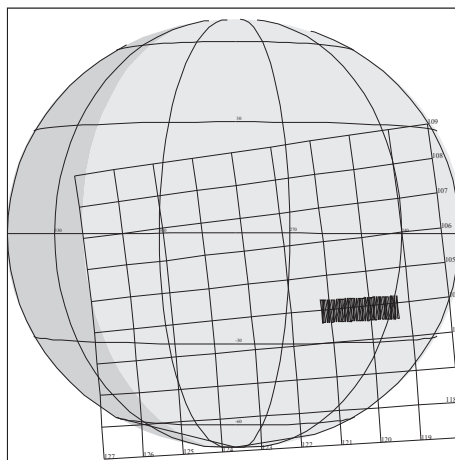
20JNGRWAKE01
99-123/09:58:58



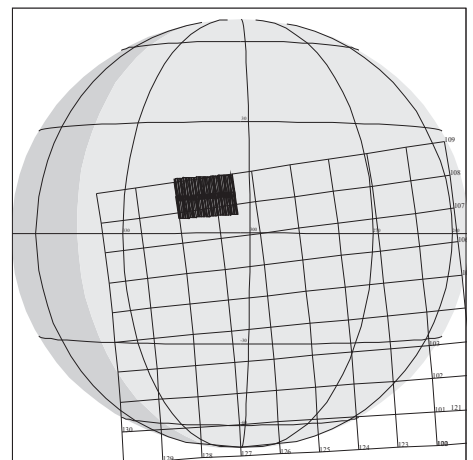
20JNHOTMAP01
99-123/11:00:39



20JNGRWAKE02
99-123/11:19:52

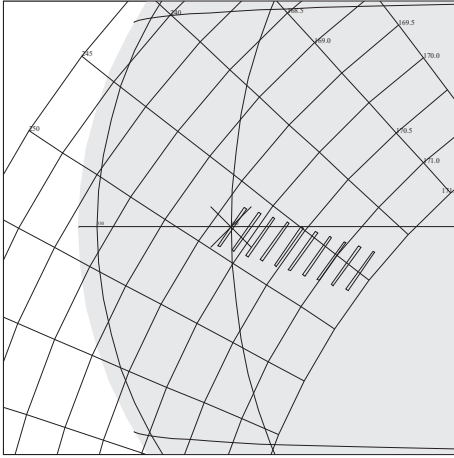


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99-123/11:57:16

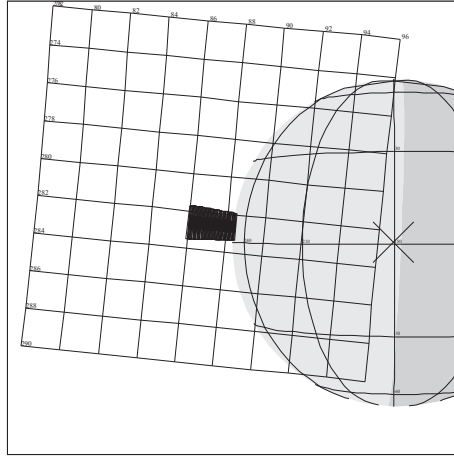


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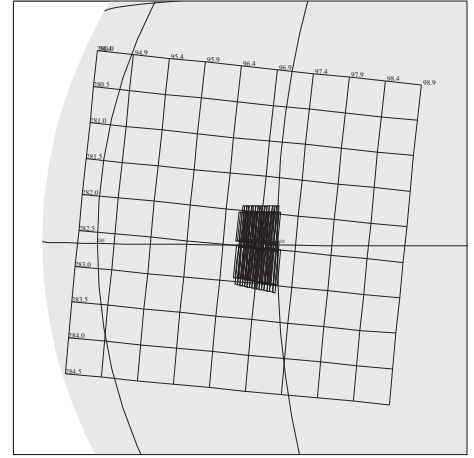
C20 NIMS B



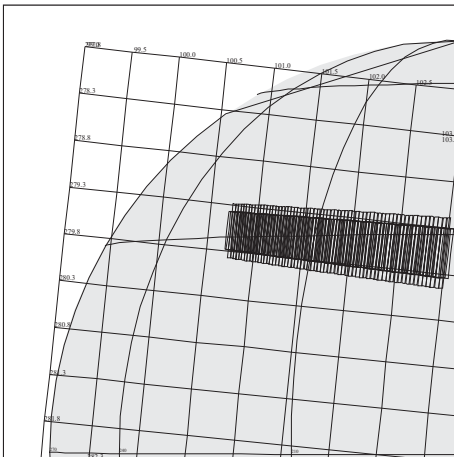
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99-123/23:00:34



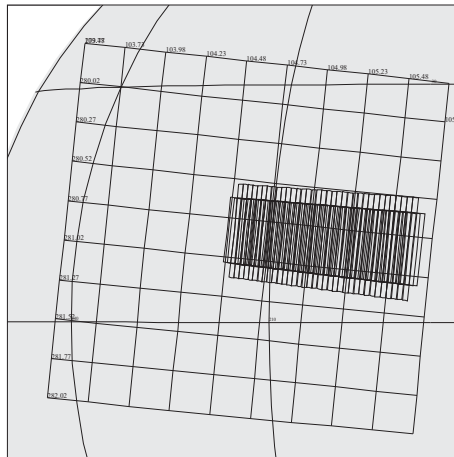
20CNCATMOS01
99-125/14:24:32



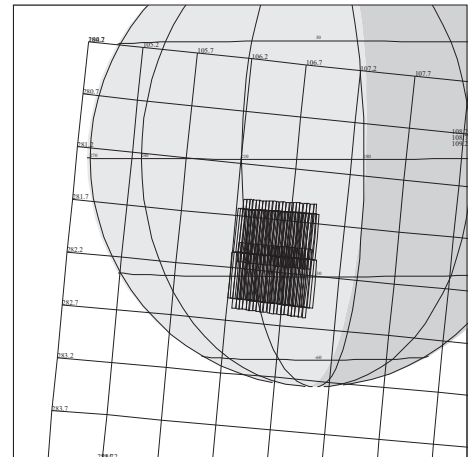
20CNFEATRE01
99-125/14:37:41



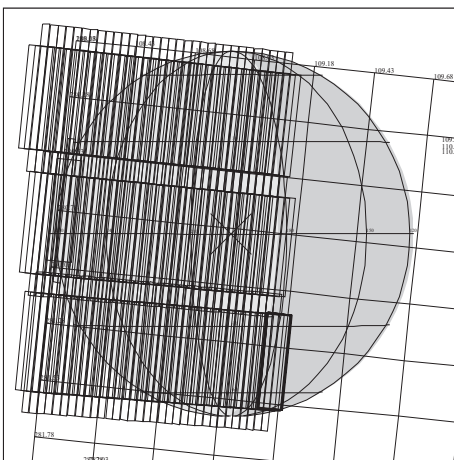
20CNFEATRE02
99-125/14:54:52



20CNFEATRE03
99-125/15:29:15



20CNBRANCR01
99-125/16:02:37



20CNGLOBAL01
99-125/19:50:07

Chapter 3 - Orbit Geometries

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3.5	C20 North Trajectory Pole View (+/- 1 day) ...	6
3.7	Callisto North Trajectory Pole View (+/- 6 hours)	7
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Introduction to Chapter 3

This chapter contains diagrams of various aspects of geometry for the C20 Orbit.

The figure on page 3 is a North Trajectory Pole View of the C20 Orbit from apoapsis to apoapsis.

The figure on page 4 is a North Trajectory Pole View of the C20 Orbit from +/- 5 days of Callisto closest approach.

The figure on page 5 is a North Trajectory Pole View of the C20 Orbit from +/- 2 days of Callisto closest approach.

The figure on page 6 is a North Trajectory Pole View of the C20 Orbit from +/- 1 day of Callisto closest approach.

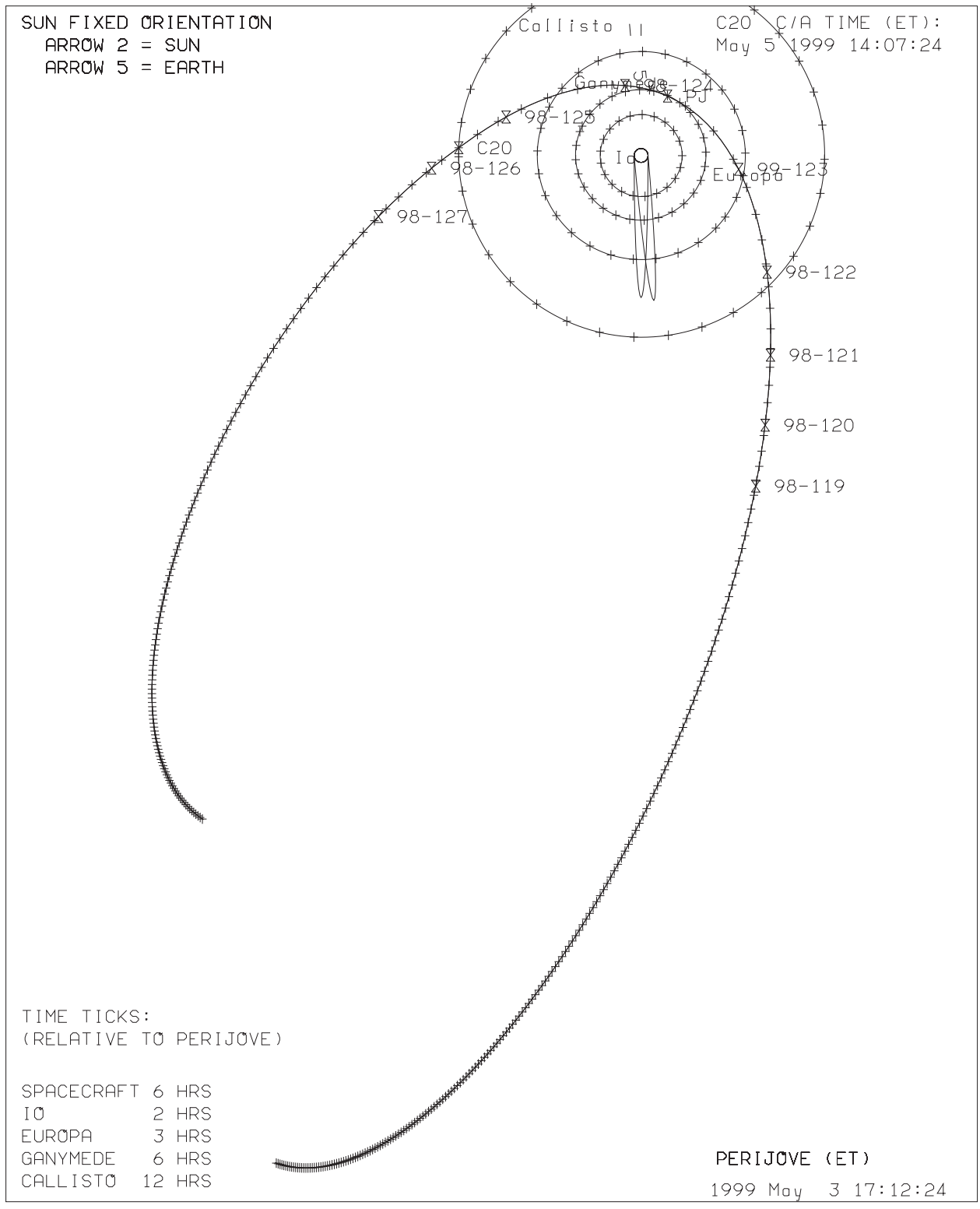
The figure on page 7 is a North Trajectory Pole View of the C20 Orbit from +/- 6 hours of Callisto closest approach.

The figure on page 8 is a North Trajectory Pole View of the C20 Orbit from +/- 1 hour of Callisto closest approach.

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

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

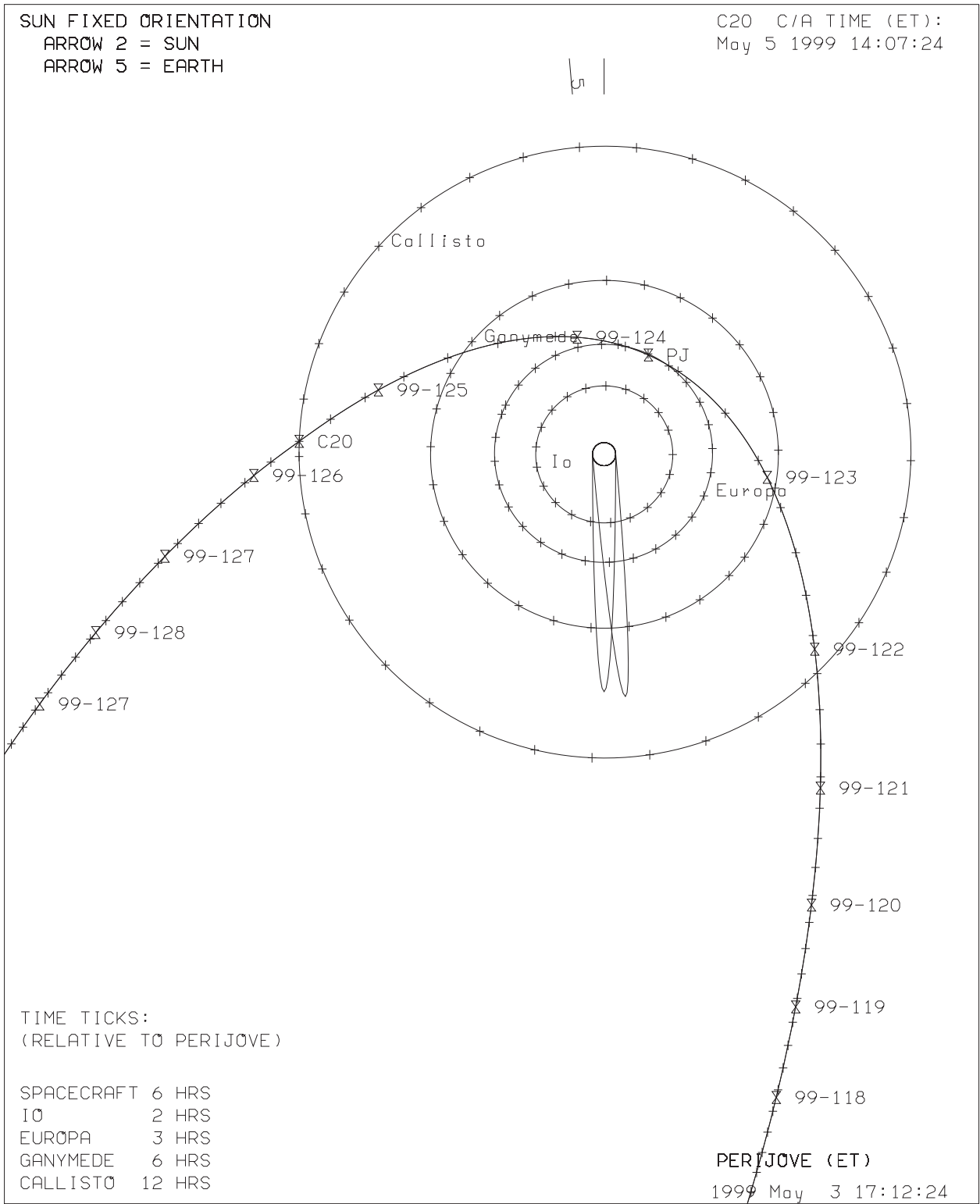
JUPITER 20: N. TRAJ. POLE VIEW (APO TO APO)



GEM-970401

NAV Apr 24, 1997

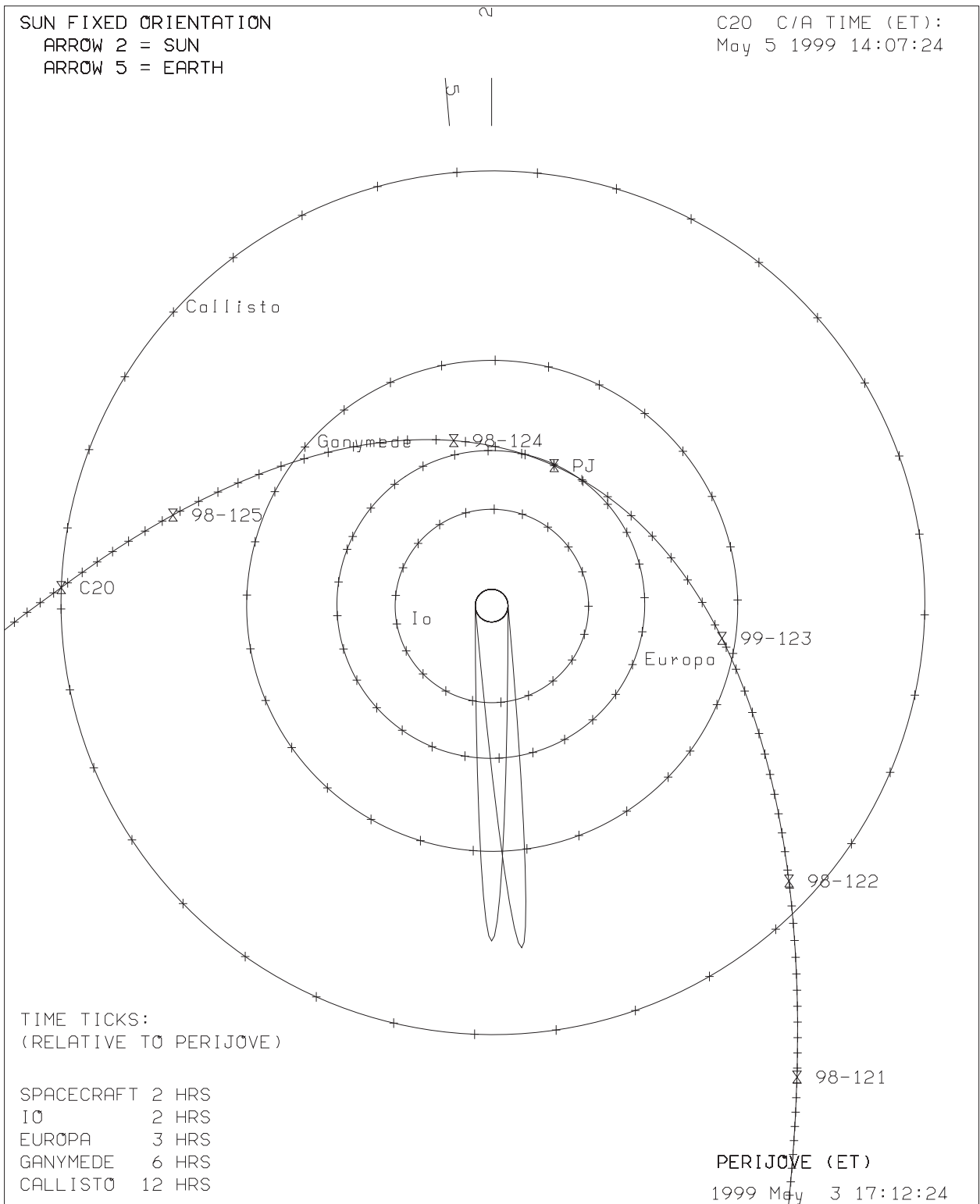
JUPITER 20: N. TRAJ. POLE VIEW (+/- 5 DAYS)



GEM-970401

NAV Apr 24, 1997

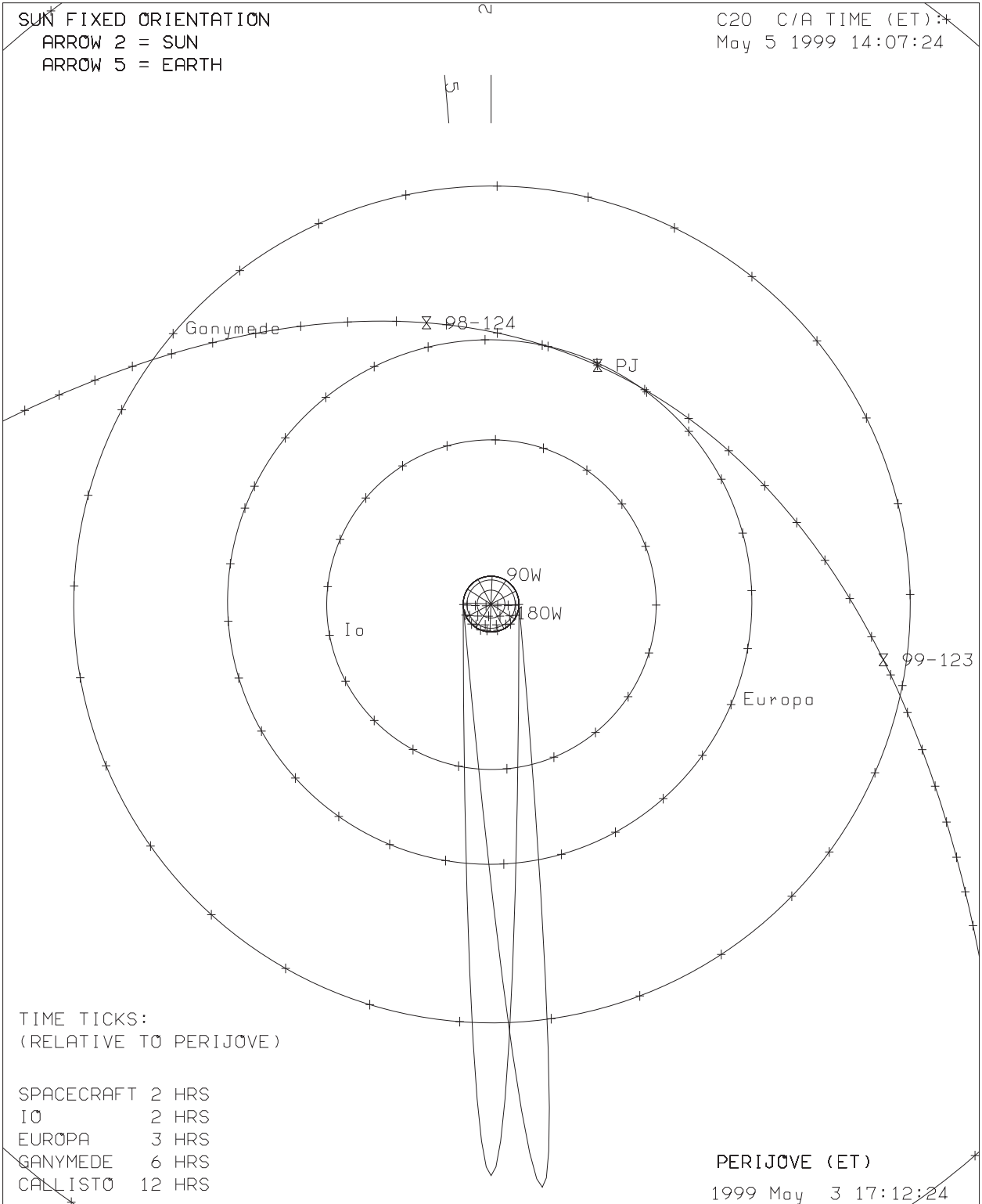
JUPITER 20: N. TRAJ. POLE VIEW (+/- 2 DAYS)



GEM-970401

NAV Apr 24, 1997

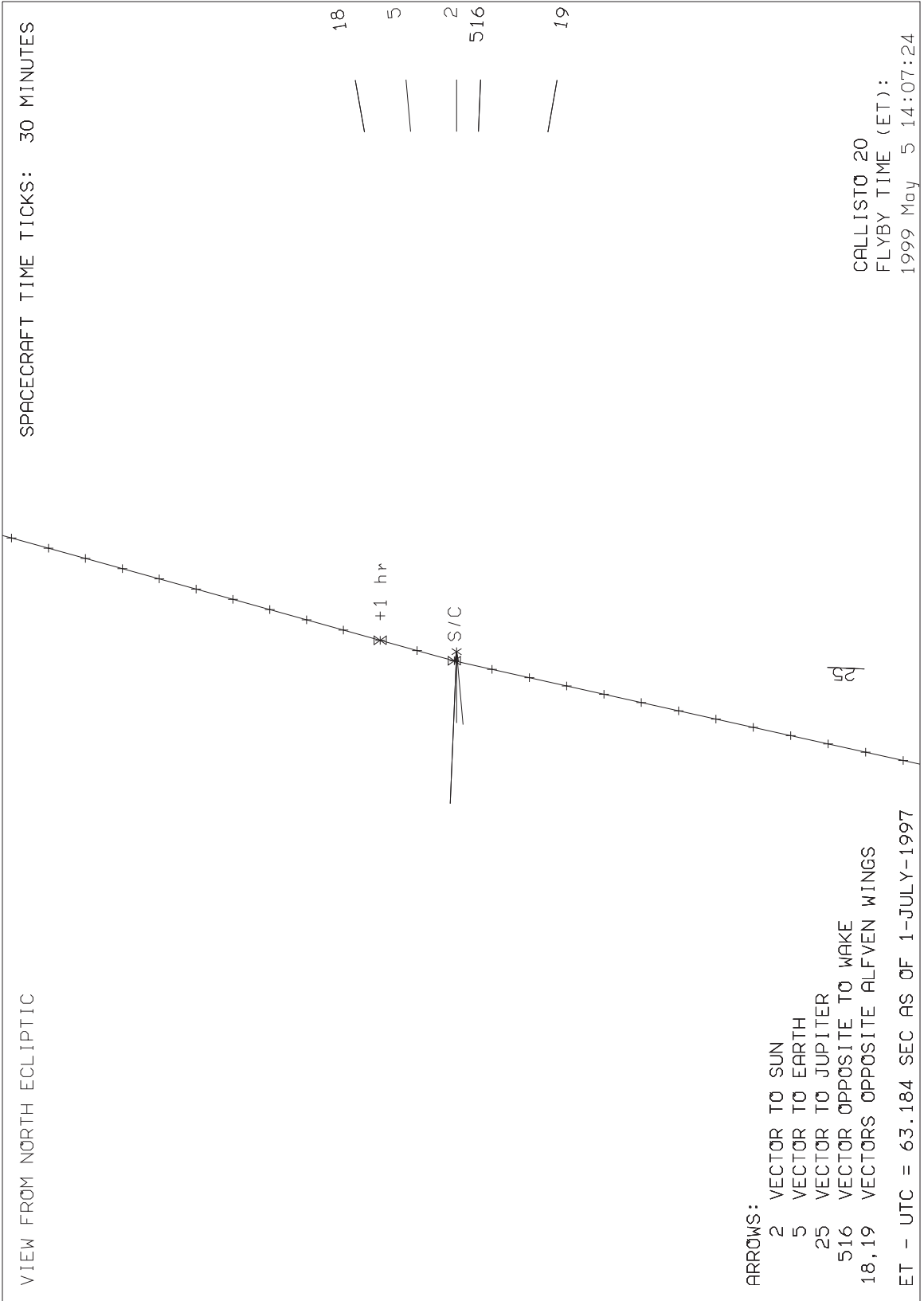
JUPITER 20: N. TRAJ. POLE VIEW (+/- 1 DAY)



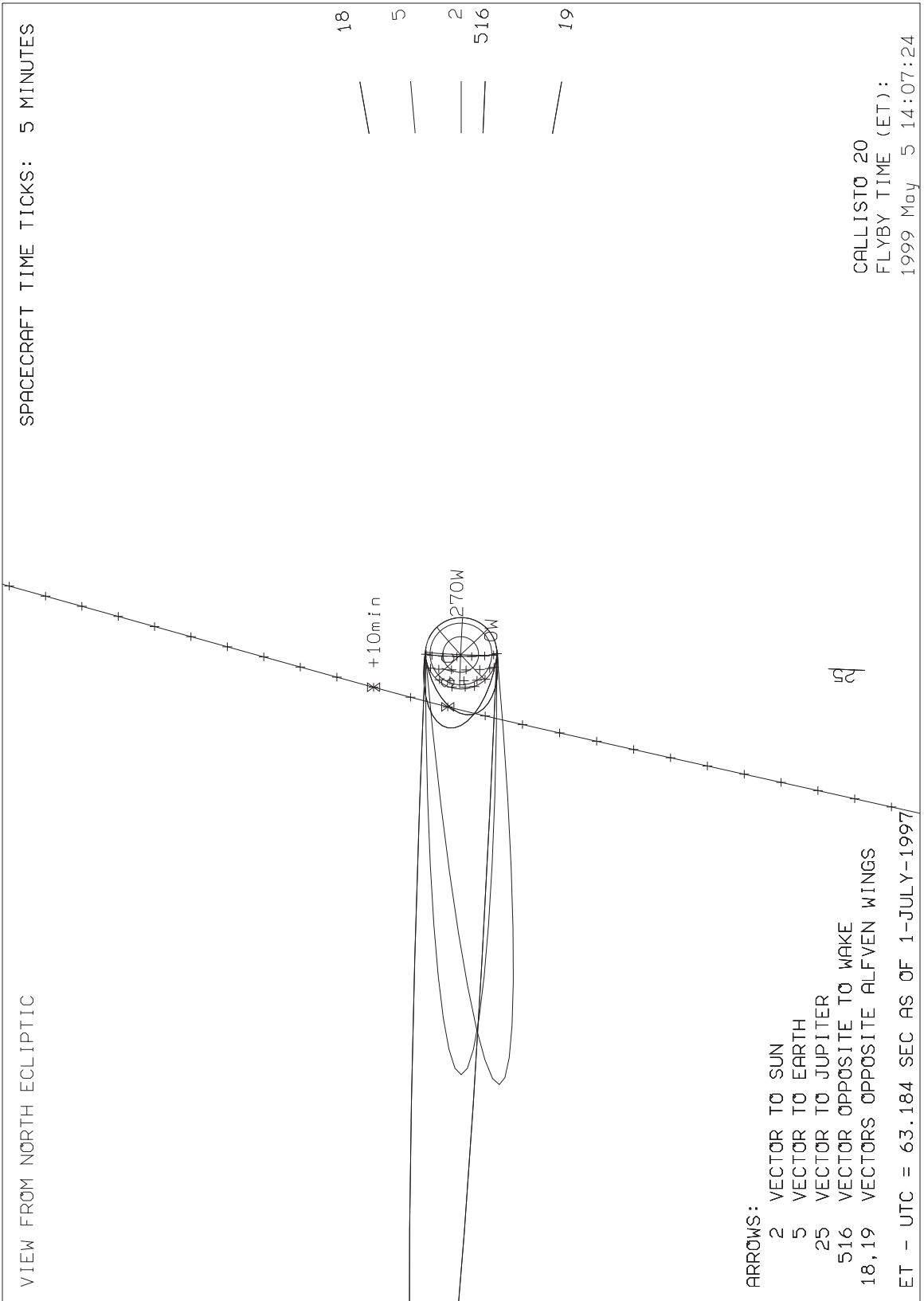
GEM-970401

NAV Apr 24, 1997

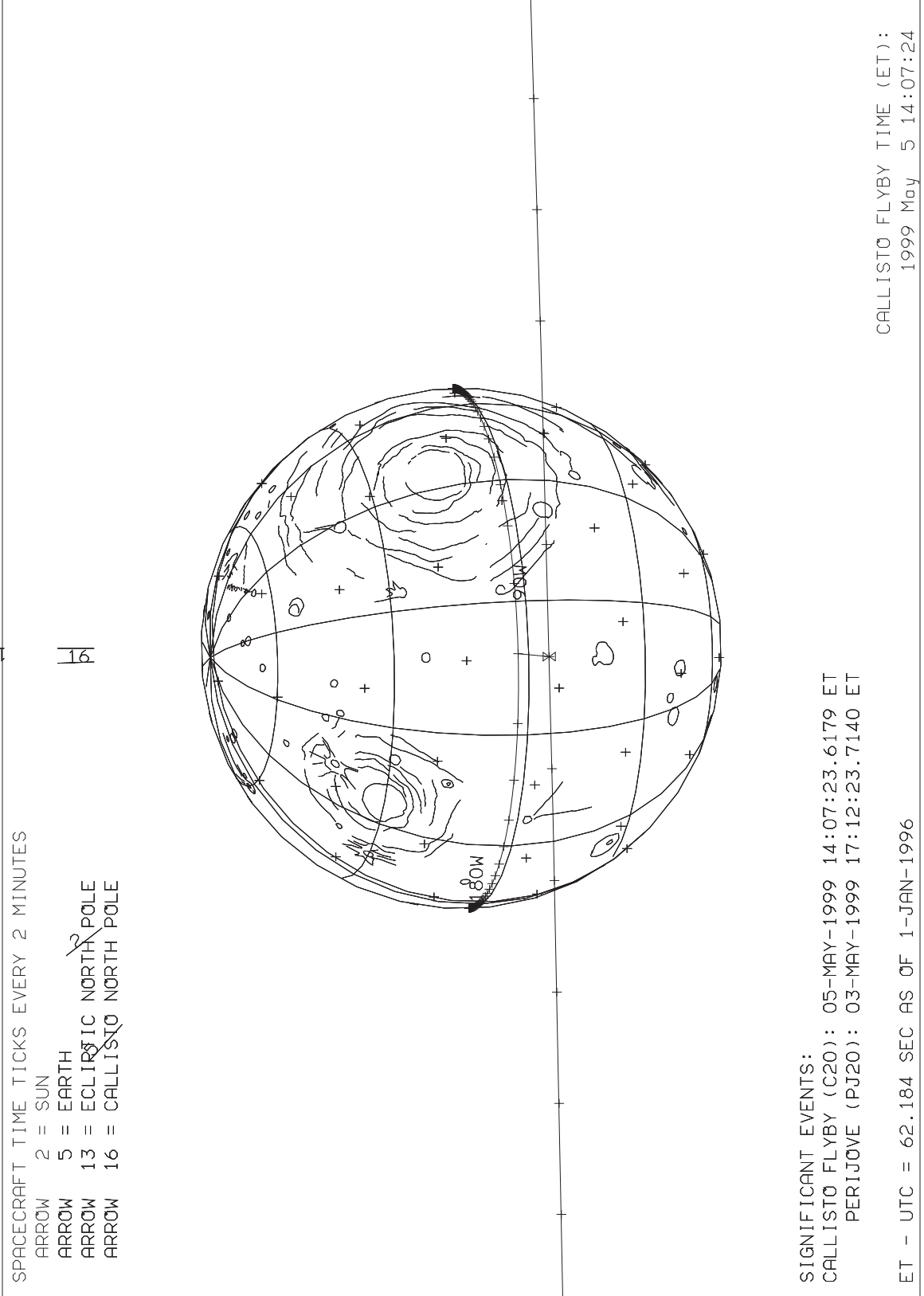
CALLISTO 20: S. TRAJ POLE VIEW (+/- 6 HRS)



CALLISTO 20: S. TRAJ POLE VIEW (+/- 1 HR)



CALLISTO 20: GROUNDTRACK AT CLOSEST APPROACH



Chapter 4 - NIMS Observation Summaries

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4.0	Contents	1
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4.3	NIMS Individual Obstab Summaries	68-113
4.4	NIMS OBSTAB (Returned)	114-119

Introduction to Chapter 4

This chapter summarizes the NIMS C20 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 C20 Sequence. The information in this summary is derived from the C20 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 (Opel) to bracket the commands which affect each NIMS Observation. The NIMS Playback Select and DeSelect times are also inserted into this table to correlate the playback requests with the observations.

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

The NIMS Obstab (Observation Table) is a time-ordered listing of the NIMS obsrvation parameters for use by downlink data processing of the NIMS C20 data. It is also derived from the C20 SEFs and PBTs. Each Obstab entry is 512 bytes long but is presented here as 4 lines of 128 characters per entry.

Sequence:		C20A-AR		Created: 11/5/99		Begin: 99-122/17:00:00		Finish: 99-127/12:00:00				
Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1	99	122	17:00:00.000	20A3FB	37F2PR	Initial Condition	Shield Flash Heater OFF (primary relay)	400	4	0	4,977,953:25:8	
2	99	122	17:00:00.000	20A3FF	40T2R	Initial Condition	PCT Heater 2 OFF	400	4	0	4,977,953:25:8	
3	99	122	17:00:00.000	20A3FE	40T1PR	Initial Condition	PCT Heater 1 OFF (primary relay)	400	4	0	4,977,953:25:8	
4	99	122	17:00:00.000	20A3FD	40HRPR	Initial Condition	PCT Heater OFF (primary relay)	400	4	0	4,977,953:25:8	
5	99	122	17:00:00.000	20A3EW	37A	Initial Condition	NIMS Power ON	400	4	0	4,977,953:25:8	
6	99	122	17:00:00.000	20A3EX	37HR	Initial Condition	Replacement Heaters OFF	400	4	0	4,977,953:25:8	
7	99	122	17:00:00.000	20A3EY	37C1PR	Initial Condition	Optics Heater 1 OFF (primary relay)	400	4	0	4,977,953:25:8	
8	99	122	17:00:00.000	20A3EZ	37C2PR	Initial Condition	Optics Heater 2 OFF (primary relay)	400	4	0	4,977,953:25:8	
9	99	122	17:00:00.000	20A3FA	37F1PR	Initial Condition	Radiator Flash Heater OFF (primary relay)	400	4	0	4,977,953:25:8	
10	99	122	17:00:00.133		DMS:	: READY	RDY, TRACK 1, FWD, TIC 3698.00 +/-	400	4	0	4,977,953:26:0	
11	99	122	17:00:42.133	432JA6B	6RTDS2	NIMDSL,AACNCG,RT	NIMS R/T DESELECT	400	4	0	4,977,953:89:0	
12	99	122	17:00:42.800	432JA431A6A	6RCDL	DDSNCG,PLSDS,LEP	Record Deselect (DDS o	400	4	0	4,977,953:90:0	
13	99	122	17:00:43.466	432JA6D	6RTSL2	NIMNCG,AACSEL,RT	AACS SELECT	400	4	0	4,977,954:00:0	
14	99	122	17:00:43.466	432JA6C	6RTSL1		R/T Select of DDS and	400	4	0	4,977,954:00:0	
15	99	122	17:00:51.466	488AA6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	4,977,954:12:0	
16	99	122	17:02:30.133	200A6A	6HICON			400	4	0	4,977,955:69:0	
17	99	122	17:46:13.466		DMS:	: READY	RDY, TRACK *2, *REV, TIC 3698.00 +/-	400	4	0	4,977,999:00:0	
18	99	122	17:46:13.466	465KG6A	6DMSC	RDY,2	DMS Control Tape stop	400	4	0	4,977,999:00:0	
19	99	122	17:53:18.133	192GA4A	7CONE	17.4,0.0	Check S/P Position	400	4	0	4,978,006:00:0	
20	99	122	17:56:20.133	176GA6A	6TMREC	BPT	7.68 KBPS PPR BURST TO TAPE Record Mode C	400	4	0	4,978,009:00:0	
21	99	122	17:58:34.800	176GA6B	6TMREC	NRC	NO RECORD Record Mode Change	400	4	0	4,978,011:20:0	
22	99	122	17:58:36.800		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 3698.00 +/-	400	4	0	4,978,011:23:0	
23	99	122	17:58:38.200		DMS:	: *US, AT_SP	P7, TRACK 1, FWD, TIC *3698.12 +/-	400	4	0	4,978,011:25:1	
24	99	122	17:58:38.200	50ZZ6XX	6DMSC	R7,0	P7, TRACK 1, FWD, TIC *3699.35 +/-	400	4	0	4,978,011:33:0	
25	99	122	17:58:43.466		DMS:	: *US RD	P7, TRACK *2, *REV, TIC *3699.41 +/-	400	4	0	4,978,011:34:8	
26	99	122	17:58:44.666		DMS:	: *RUNUP	P7, TRACK 2, *REV, TIC *3699.29 +/-	400	4	0	4,978,011:36:9	
27	99	122	17:58:46.066		DMS:	: *AT_SPD	P7, TRACK 2, *REV, TIC *3699.12 +/-	400	4	0	4,978,011:38:0	
28	99	122	17:58:46.800		DMS:	: *RECORD	DMS Control Tape stop	400	4	0	4,978,011:55:0	
29	99	122	17:58:58.133	50ZZ6RD	6DMSC	RDY,0	P7, TRACK 2, *REV, TIC *3696.47 +/-	400	4	0	4,978,011:56:8	
30	99	122	17:58:58.133		DMS:	: *RUNDOWN	Check S/P Position	400	4	0	4,978,011:90:0	
31	99	122	17:58:59.333		DMS:	: *READY	Sci, Eng, and D/L Chan	400	4	0	4,978,065:87:0	
32	99	122	17:59:21.466	165UC4A	7SCAN	NORM,250.946999,	Sci, Eng, and D/L Chan	400	4	0	4,978,099:65:0	
33	99	122	18:31:00.133	444UA443A4B	7MODE	INT	NO RECORD Record Mode Change	400	4	0	4,978,104:87:0	
34	99	122	18:53:55.466	488AA6B	6TMSED	NORM,AL3	Program Load (halts microprocessor & unwri	260	4	0	4,978,119:22:0	
35	99	122	19:28:03.466	488AA6C	6TMSED	NORM,AL4	Memory Realocate (software operates from R	260	4	0	4,978,119:24:0	
36	99	122	19:33:21.466	176DA6A	6TMREC	NRC	NIMS,1000,LLM1A,7300,77F7	260	4	0	4,978,119:27:0	
37	99	122	19:47:48.133	20DA5A	37PL		NIMS,1598,LLM1A,77F8,781D	260	4	0	4,978,119:42:0	
38	99	122	19:47:49.466	20DA5B	37MRL		Instrument Reset (goes into POR state)	260	4	0	4,978,119:62:0	
39	99	122	19:47:51.466	20DA6A	6MCPY	NIMS	Memory Normal (software operates from ROM)	260	4	0	4,978,119:67:0	
40	99	122	19:48:01.466	20DA6B	6MCPY	NIMS	Chopper ON, Sync, Chopper (Ref)	2R0	4	0	4,978,120:23:0	
41	99	122	19:48:14.800	20DA5C	37IRT		##### GROUP START INIT	2R0	4	0	:	:
42	99	122	19:48:18.133	20DA5D	37MN		Gain State 4	4R0	4	0	4,978,121:84:0	
43	99	122	19:48:49.466	20DA4A	37IST	1,2,0,OFF,0,0,0	##### GROUP END INIT	4R0	4	0	4,978,122:84:0	
44	99	122	19:49:38.800	20NHRSPREC01-		-----START-----	Selects mirror (spatial) edit table	4R0	4	0	4,978,122:84:0	
45	99	122	19:50:30.800	125DA	NIMSINIT	GS	Long Map, Grating Start Position =00	4R3	4	0	4,978,123:84:0	
46	99	122	19:50:30.800	125DA4A	37IST	0,2,0,OFF,0,1,1	%%%% GROUP START TAB	4R3	4	0	4,978,123:84:0	
47	99	122	19:51:31.466	125DA11A	NIMSINIT	GE	Loads wavelength edit table	4R3	4	0	4,978,123:85:0	
48	99	122	19:51:31.466	125DA4B	37MB	0,0,0,0,0,0	Check S/P Position	4R3	4	0	4,978,123:90:0	
49	99	122	19:51:40.133	20NHRSPREC01-		-----STOP-----						
50	99	122	19:52:32.133	127DA4A	37IOP	3,0						
51	99	122	19:52:32.133	127DA	NIMSTAB	GS						
52	99	122	19:52:32.800	127DA4B	37ETB	07,C7,03,A1,00,0						
53	99	122	19:52:36.133	165DA4A	7SCAN	NORM,250.807999,						

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
54	99	122	19:52:40.800	127DA11A	NIMSTAB	GE	%%%GROUP END TAB	4R3	4	0	4,978,124:06:0	
55	99	122	19:52:40.800	20INHRSPREC01*		-----START-----		4R3	4	0	:	
56	99	122	19:56:27.466	175DA422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	4,978,127:73:0	
57	99	122	19:56:27.466		DMS:	:*US-RUNUP	P7, TRACK *1,*FWD, TIC 3696.41 +/-	4R3	4	0	4,978,127:73:0	
58	99	122	19:56:28.866		DMS:	:*US_AT_SP	P7, TRACK 1, FWD, TIC *3696.53 +/-	4R3	4	0	4,978,127:75:1	
59	99	122	19:56:30.133	117DA	CSMOS	GS	***** GROUP START CSMOS	4R3	4	0	4,978,127:77:0	
60	99	122	19:56:34.133		DMS:	:*US_RD	P7, TRACK 1, FWD, TIC *3697.76 +/-	4R3	4	0	4,978,127:83:0	
61	99	122	19:56:35.333		DMS:	:*RUNUP	R7, TRACK *2,*REV, TIC *3697.82 +/-	4R3	4	0	4,978,127:84:8	
62	99	122	19:56:36.133	175DA176A6A	6TMREC	LPU	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	4R3	4	0	4,978,127:86:0	
63	99	122	19:56:36.733		DMS:	:*AT_SPD	R7, TRACK 2, REV, TIC 3697.70 +/-	4R3	4	0	4,978,127:86:9	
64	99	122	19:56:36.733		DMS:	:*RECORD	R7, TRACK 2, REV, TIC *3697.70 +/-	4R3	4	0	4,978,127:86:9	
65	99	122	19:56:39.466	117DA105A106A4A	7STRP	-0.00543,0.0,0.0	Slew = 0.03	4R3	4	0	4,978,128:00:0	
66	99	122	19:56:39.466	20INHRSPREC01-	NIMPBK	301DA	IO MONITORING	4R3	4	0	:	
67	99	122	19:56:42.800	20INHRSPREC01-	NIMPBK	301ED	IO MONITORING	4R3	4	0	:	
68	99	122	19:59:10.133	20INHRSPREC01-	DESELC	300ED	IO MONITORING	4R3	4	0	:	
69	99	122	19:59:41.466	18 INHRSPREC01	DESELC	300DA	IO MONITORING	4R3	4	0	:	
70	99	122	19:59:41.466	117DA11A	CSMOS	GE	***** GROUP END CSMOS	4R3	4	0	4,978,131:00:0	
71	99	122	19:59:45.466	20INHRSPREC01*		-----STOP-----		4R3	4	0	:	
72	99	122	20:00:46.800	175DA6A	6TMREC	NRC	NO RECORD Record Mode Change	4R3	4	0	4,978,132:07:0	
73	99	122	20:00:46.800		DMS:	:*RUNDOWN	R7, TRACK 2, REV, TIC *3639.09 +/-	4R3	4	0	4,978,132:07:0	
74	99	122	20:00:46.800	175DA422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,978,132:07:0	
75	99	122	20:00:48.000		DMS:	:*READY	RDY, TRACK 2, REV, TIC *3639.03 +/-	4R3	4	0	4,978,132:08:8	
76	99	122	20:30:26.133	488AA6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4R3	4	0	4,978,161:37:0	
77	99	122	21:04:05.466	488AA6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4R3	4	0	4,978,194:63:0	
78	99	123	00:01:00.133	481UC4A	7VECT		Inert vect update UTC	4R3	4	0	4,978,369:00:0	
79	99	123	00:18:31.466	165IZ4A	7SCAN	NORM,314.073997,	Check S/P Position	4R3	4	0	4,978,386:90:0	
80	99	123	00:28:37.466	165IZ4B	7VECT		Inert vect update UTC	4R3	4	0	4,978,396:89:0	
81	99	123	00:29:00.800		DMS:	:*US-RUNUP	P7, TRACK *1,*FWD, TIC 3639.03 +/-	4R3	4	0	4,978,397:33:0	
82	99	123	00:29:00.800	175IZ422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	4R3	4	0	4,978,397:33:0	
83	99	123	00:29:02.200		DMS:	:*US_AT_SP	P7, TRACK 1, FWD, TIC *3639.15 +/-	4R3	4	0	4,978,397:35:1	
84	99	123	00:29:07.466		DMS:	:*US_RD	P7, TRACK 1, FWD, TIC *3640.39 +/-	4R3	4	0	4,978,397:43:0	
85	99	123	00:29:08.666		DMS:	:*RUNUP	R115, TRACK *2,*REV, TIC *3640.45 +/-	4R3	4	0	4,978,397:44:8	
86	99	123	00:29:12.133	175IZ176A6A	6TMREC	HMA	115.2 KBPS IMAGE(1-400)RECORD Record Mode	4R3	4	0	4,978,397:50:0	
87	99	123	00:29:12.666		DMS:	:*AT_SPD	R115, TRACK 2, REV, TIC 3634.15 +/-	4R3	4	0	4,978,397:50:8	
88	99	123	00:29:12.666		DMS:	:*RECORD	R115, TRACK 2, REV, TIC *3634.15 +/-	4R3	4	0	4,978,397:50:8	
89	99	123	00:29:39.466		DMS:	:*RUNDOWN	R115, TRACK 2, REV, TIC *3539.93 +/-	4R3	4	0	4,978,398:00:0	
90	99	123	00:29:39.466	175IZ422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,978,398:00:0	
91	99	123	00:29:40.666		DMS:	:*READY	RDY, TRACK 2, REV, TIC *3538.93 +/-	4R3	4	0	4,978,398:01:8	
92	99	123	00:48:20.800	165JZ4A	7SCAN	NORM,316.061996,	Check S/P Position	4R3	4	0	4,978,416:44:0	
93	99	123	00:58:26.800	165JZ4B	7VECT		Inert vect update UTC	4R3	4	0	4,978,426:43:0	
94	99	123	00:59:20.800		DMS:	:*US-RUNUP	P7, TRACK *1,*FWD, TIC 3538.93 +/-	4R3	4	0	4,978,427:33:0	
95	99	123	00:59:20.800	175JZ422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	4R3	4	0	4,978,427:33:0	
96	99	123	00:59:22.200		DMS:	:*US_AT_SP	P7, TRACK 1, FWD, TIC *3539.05 +/-	4R3	4	0	4,978,427:35:1	
97	99	123	00:59:27.466		DMS:	:*US_RD	P7, TRACK 1, FWD, TIC *3540.28 +/-	4R3	4	0	4,978,427:43:0	
98	99	123	00:59:28.666		DMS:	:*RUNUP	R115, TRACK *2,*REV, TIC *3540.34 +/-	4R3	4	0	4,978,427:44:8	
99	99	123	00:59:32.133	175JZ176A6A	6TMREC	HMA	115.2 KBPS IMAGE(1-400)RECORD Record Mode	4R3	4	0	4,978,427:50:0	
100	99	123	00:59:32.666		DMS:	:*AT_SPD	R115, TRACK 2, REV, TIC 3534.04 +/-	4R3	4	0	4,978,427:50:8	
101	99	123	00:59:32.666		DMS:	:*RECORD	R115, TRACK 2, REV, TIC *3534.04 +/-	4R3	4	0	4,978,427:50:8	
102	99	123	01:00:00.133		DMS:	:*RUNDOWN	R115, TRACK 2, REV, TIC *3437.48 +/-	4R3	4	0	4,978,428:01:0	
103	99	123	01:00:00.133	175JZ422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,978,428:01:0	
104	99	123	01:00:01.333		DMS:	:*READY	RDY, TRACK 2, REV, TIC *3436.48 +/-	4R3	4	0	4,978,428:02:8	
105	99	123	01:01:14.800	20DB5A	37PL		Program Load (halts microprocessor & unwri	4R3	4	0	4,978,429:22:0	
106	99	123	01:01:16.133	20DB5B	37MRL		Memory Realocate (software operates from R	4R3	4	0	4,978,429:24:0	
107	99	123	01:01:18.133	20DB6A	6MCPY	NIMS	NIMS,1000,LLM1A,7300,77F7	4R3	4	0	4,978,429:27:0	
108	99	123	01:01:28.133	20DB6B	6MCPY	NIMS	NIMS,1598,LLM1A,77F8,781D	4R3	4	0	4,978,429:42:0	

Line	YR	DOY	SCET - GMT	PSID	Command Parameters	Description	GCM	GO	GS	RIM	MF I
109	99	123	01:01:41.466	20DB5C	37IRT	Instrument Reset (goes into POR state)	260	4	0	4,978,429:62:0	
110	99	123	01:01:44.800	20DB5D	37MN	Memory Normal (software operates from ROM)	260	4	0	4,978,429:67:0	
111	99	123	01:02:16.133	20DB4A	37IST 1,2,0,OFF,0,0,0	Chopper ON, Sync, Chopper (Ref)	2R0	4	0	4,978,430:23:0	
112	99	123	01:04:58.133	125DB4A	37IST 0,2,0,OFF,0,1,1	Gain State 4	4R0	4	0	4,978,432:84:0	
113	99	123	01:04:58.133	125DB	NIMSINIT GS	##### GROUP START INIT	4R0	4	0	4,978,432:84:0	
114	99	123	01:04:58.133	125DB11A	NIMSINIT GE	##### GROUP END INIT	4R0	4	0	4,978,432:84:0	
115	99	123	01:06:59.466	127DB	NIMSTAB GS	%%%%%%%%% GROUP START TAB	4R0	4	0	4,978,434:84:0	
116	99	123	01:06:59.466	127DB4A	37IOP 3,0	Long Map, Grating Start Position =00	4R3	4	0	4,978,434:84:0	
117	99	123	01:07:00.133	127DB4B	37ETB 04,C4,35,FF,FF	Loads wavelength edit table	4R3	4	0	4,978,434:85:0	
118	99	123	01:07:08.133	127DB11A	NIMSTAB GE	%%%%%%%%% GROUP END TAB	4R3	4	0	4,978,435:06:0	
119	99	123	01:08:08.800	20NNECLPSE01-	-----START-----		4R3	4	0	0	
120	99	123	01:10:10.133	20NNECLPSE01-	-----STOP-----		4R3	4	0	0	
121	99	123	01:11:06.133	165DB4A	7SCAN NORM,317,344997,	Check S/P Position	4R3	4	0	4,978,438:90:0	
122	99	123	01:11:10.800	20NNECLPSE01*	-----START-----		4R3	4	0	0	
123	99	123	01:14:54.800	175DB422A6A	6DMSC R28:0	DMS Control Tape runup 28.8kbp	4R3	4	0	4,978,442:69:0	
124	99	123	01:14:54.800		DMS: :*US-RUNUP	P7, TRACK *1,*FWD,TIC 3436.48 +/-	4R3	4	0	4,978,442:69:0	
125	99	123	01:14:56.200		DMS: :*US_AT_SP	P7, TRACK 1, FWD,TIC *3436.60 +/-	4R3	4	0	4,978,442:71:1	
126	99	123	01:15:00.133	117DB	CSMOS GS	***** GROUP START CSMOS	4R3	4	0	4,978,442:77:0	
127	99	123	01:15:01.466		DMS: :*US_RD	P7, TRACK 1, FWD,TIC *3437.83 +/-	4R3	4	0	4,978,442:79:0	
128	99	123	01:15:02.666		DMS: :*RUNUP	R28, TRACK *2,*REV,TIC *3437.89 +/-	4R3	4	0	4,978,442:80:8	
129	99	123	01:15:06.133	175DB176A6A	6TMREC MPW	28.8 KBPS PWS + NIMS RECORD Record Mode C	4R3	4	0	4,978,442:86:0	
130	99	123	01:15:06.666		DMS: :*AT_SPD	R28, TRACK 2, REV,TIC 3436.39 +/-	4R3	4	0	4,978,442:86:8	
131	99	123	01:15:06.666		DMS: :*RECORD	R28, TRACK 2, REV,TIC *3436.39 +/-	4R3	4	0	4,978,442:86:8	
132	99	123	01:15:09.466	20NNECLPSE01-,	NIMPBK 301DB	EUROPA ECLIPSE OBSERVATION	4R3	4	0	0	
133	99	123	01:15:09.466	117DB105A106A4A	7STRP -0.00085,0,0,0,0	Slew =0.01	4R3	4	0	4,978,443:00:0	
134	99	123	01:16:36.800	117DB105A106A4B	7STRP 0.0009,0,0,0,0,0	Slew =12.01	4R3	4	0	4,978,444:40:0	
135	99	123	01:16:43.466	117DB105A106A4C	7STRP -0.00085,0,0,0,0	Slew =0.01	4R3	4	0	4,978,444:50:0	
136	99	123	01:18:06.800	127EB	NIMSTAB GS	%%%%%%%%% GROUP START TAB	4R3	4	0	4,978,445:84:0	
137	99	123	01:18:06.800	125EB4A	37IST 0,2,1,OFF,1,0,1	OPCAL	4R3	4	0	4,978,445:84:0	
138	99	123	01:18:06.800	125EB11A	NIMSINIT GE	##### GROUP END INIT	4R3	4	0	4,978,445:84:0	
139	99	123	01:18:06.800	125EB	NIMSINIT GS	##### GROUP START INIT	4R3	4	0	4,978,445:84:0	
140	99	123	01:18:07.466	127EB4A	37ETB 0A,CA,19,FF,C0,1	Loads wavelength edit table	4R3	4	0	4,978,445:85:0	
141	99	123	01:18:08.800	20NNECLPSE01-,	NIMPBK 301EZ	EUROPA ECLIPSE OBSERVATION	4R3	4	0	0	
142	99	123	01:18:10.800	20NNECLPSE01-,	DESELC 300DB	EUROPA ECLIPSE OBSERVATION	4R3	4	0	0	
143	99	123	01:18:10.800	117DB11A	CSMOS GE	***** GROUP END CSMOS	4R3	4	0	4,978,445:90:0	
144	99	123	01:18:15.466	20NNECLPSE01*	-----STOP-----		4R3	4	0	0	
145	99	123	01:18:15.466	127EB11A	NIMSTAB GE	%%%%%%%%% GROUP END TAB	4R3	4	0	4,978,446:06:0	
146	99	123	01:19:09.466	20NNECLPSE01-,	DESELC 300EZ	EUROPA ECLIPSE OBSERVATION	4R3	4	0	0	
147	99	123	01:20:09.466	175DB422A6B	6DMSC RDY,0	DMS Control Tape stop	4R3	4	0	4,978,447:86:0	
148	99	123	01:20:09.466		DMS: :*RUNDOWN	R28, TRACK 2, REV,TIC *3170.26 +/-	4R3	4	0	4,978,447:86:0	
149	99	123	01:20:10.666		DMS: :*READY	R28, TRACK 2, REV,TIC *3169.96 +/-	4R3	4	0	4,978,447:87:8	
150	99	123	01:22:13.466	165GC4A	7SCAN NORM,277.787998,	Check S/P Position	4R3	4	0	4,978,449:90:0	
151	99	123	01:25:16.133	176GC6A	6TMREC BPT	7.68 KBPS PPR BURST TO TAPE Record Mode C	4R3	4	0	4,978,453:00:0	
152	99	123	01:26:07.466	117GC	CSMOS GS	***** GROUP START CSMOS	4R3	4	0	4,978,453:77:0	
153	99	123	01:26:16.800	117GC105A106A4A	7STRP 0.005,-0.035015,	Slew = 0.34	4R3	4	0	4,978,454:00:0	
154	99	123	01:28:05.466	117GC105A106A4B	7STRP -0.0034,0.035165	Slew =12.01	4R3	4	0	4,978,455:72:0	
155	99	123	01:28:16.800	117GC105A106A4C	7STRP 0.005,-0.035015,	Slew = 0.34	4R3	4	0	4,978,455:89:0	
156	99	123	01:30:05.466	117GC105A106A4D	7STRP -0.0034,0.035165	Slew =12.01	4R3	4	0	4,978,457:70:0	
157	99	123	01:30:16.800	117GC105A106A4E	7STRP 0.005,-0.035015,	Slew = 0.34	4R3	4	0	4,978,457:87:0	
158	99	123	01:32:05.466	117GC105A106A4F	7STRP -0.0034,0.035165	Slew =12.01	4R3	4	0	4,978,459:68:0	
159	99	123	01:32:16.800	117GC105A106A4G	7STRP 0.005,-0.035015,	Slew = 0.34	4R3	4	0	4,978,459:85:0	
160	99	123	01:34:05.466	117GC105A106A4H	7STRP -0.0034,0.035165	Slew =12.01	4R3	4	0	4,978,461:66:0	
161	99	123	01:34:16.800	117GC105A106A4I	7STRP 0.005,-0.035015,	Slew = 0.34	4R3	4	0	4,978,461:83:0	
162	99	123	01:36:05.466	117GC105A106A4J	7STRP -0.0034,0.035165	Slew =12.01	4R3	4	0	4,978,463:64:0	
163	99	123	01:36:16.800	117GC105A106A4K	7STRP 0.005,-0.035015,	Slew = 0.34	4R3	4	0	4,978,463:81:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
164	99	123	01:38:05.466	117GC105A106A4L	7STRP	-0.0034,0.035165	Slew =12.01	4R3	4	0	4,978,465:62:0	
165	99	123	01:38:16.800	117GC105A106A4M	7STRP	0.005,-0.035015,	Slew = 0.34	4R3	4	0	4,978,465:79:0	
166	99	123	01:39:10.133	50ZZ6XX	6DMSC	R7,0	DMS Control	4R3	4	0	4,978,466:68:0	
167	99	123	01:39:10.133		DMS:	: *US-RUNUP	P7, TRACK *1,*FWD, TIC 3169.96 +/-	4R3	4	0	4,978,466:68:0	
168	99	123	01:39:11.533		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *3170.08 +/-	4R3	4	0	4,978,466:70:1	
169	99	123	01:39:16.800		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *3171.31 +/-	4R3	4	0	4,978,466:78:0	
170	99	123	01:39:18.000		DMS:	: *RUNUP	R7, TRACK *2,*REV, TIC *3171.37 +/-	4R3	4	0	4,978,466:79:8	
171	99	123	01:39:19.400		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *3171.25 +/-	4R3	4	0	4,978,466:81:9	
172	99	123	01:39:38.133		DMS:	: *RECORD	R7, TRACK 2, REV, TIC *3166.86 +/-	4R3	4	0	4,978,467:19:0	
173	99	123	01:40:00.800		DMS:	: *RUNDOWN	R7, TRACK 2, REV, TIC *3161.55 +/-	4R3	4	0	4,978,467:53:0	
174	99	123	01:40:00.800	50ZZ6RE	6DMSC	RDY,0	DMS Control	4R3	4	0	4,978,467:53:0	
175	99	123	01:40:02.000		DMS:	: *READY	RDY, TRACK 2, REV, TIC *3161.49 +/-	4R3	4	0	4,978,467:54:8	
176	99	123	01:40:05.466	117GC105A106A4N	7STRP	-0.0034,0.035165	Slew =12.01	4R3	4	0	4,978,467:60:0	
177	99	123	01:40:16.800	117GC105A106A4O	7STRP	0.005,-0.035015,	Slew = 0.34	4R3	4	0	4,978,467:77:0	
178	99	123	01:42:05.466	117GC105A106A4P	7STRP	-0.0034,0.035165	Slew =12.01	4R3	4	0	4,978,469:58:0	
179	99	123	01:42:16.800	117GC105A106A4Q	7STRP	0.005,-0.035015,	Slew = 0.34	4R3	4	0	4,978,469:75:0	
180	99	123	01:44:05.466	117GC105A106A4R	7STRP	-0.0034,0.035165	Slew =12.01	4R3	4	0	4,978,471:56:0	
181	99	123	01:44:16.800	117GC105A106A4S	7STRP	0.005,-0.035015,	Slew = 0.34	4R3	4	0	4,978,471:73:0	
182	99	123	01:46:05.466	117GC105A106A4T	7STRP	-0.0034,0.035165	Slew =12.01	4R3	4	0	4,978,473:54:0	
183	99	123	01:46:16.800	117GC105A106A4U	7STRP	0.005,-0.035015,	Slew = 0.34	4R3	4	0	4,978,473:71:0	
184	99	123	01:48:05.466	117GC105A106A4V	7STRP	-0.0034,0.035165	Slew =12.01	4R3	4	0	4,978,475:52:0	
185	99	123	01:48:16.800	117GC105A106A4W	7STRP	0.005,-0.035015,	Slew = 0.34	4R3	4	0	4,978,475:69:0	
186	99	123	01:50:05.466	117GC105A106A4X	7STRP	-0.0034,0.035165	Slew =12.01	4R3	4	0	4,978,477:50:0	
187	99	123	01:50:16.800	117GC105A106A4Y	7STRP	0.005,-0.035015,	Slew = 0.34	4R3	4	0	4,978,477:67:0	
188	99	123	01:52:05.466	117GC105A106A4Z	7STRP	-0.0034,0.035165	Slew =12.01	4R3	4	0	4,978,479:48:0	
189	99	123	01:52:16.800	117GC105A106A4AA	7STRP	0.005,-0.035015,	Slew = 0.34	4R3	4	0	4,978,479:65:0	
190	99	123	01:53:34.133		DMS:	: *US-RUNUP	P7, TRACK *1,*FWD, TIC 3161.49 +/-	4R3	4	0	4,978,480:90:0	
191	99	123	01:53:34.133	50ZZ6XX	6DMSC	R7,0	DMS Control	4R3	4	0	4,978,480:90:0	
192	99	123	01:53:35.533		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *3161.61 +/-	4R3	4	0	4,978,481:01:1	
193	99	123	01:53:40.800		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *3162.85 +/-	4R3	4	0	4,978,481:09:0	
194	99	123	01:53:42.000		DMS:	: *RUNUP	R7, TRACK *2,*REV, TIC *3162.91 +/-	4R3	4	0	4,978,481:10:8	
195	99	123	01:53:43.400		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *3162.79 +/-	4R3	4	0	4,978,481:12:9	
196	99	123	01:54:02.133		DMS:	: *RECORD	R7, TRACK 2, REV, TIC *3158.40 +/-	4R3	4	0	4,978,481:41:0	
197	99	123	01:54:05.466	117GC105A106A4AB	7STRP	-0.0034,0.035165	Slew =12.01	4R3	4	0	4,978,481:46:0	
198	99	123	01:54:16.800	117GC105A106A4AC	7STRP	0.005,-0.035015,	Slew = 0.34	4R3	4	0	4,978,481:63:0	
199	99	123	01:54:24.800	50ZZ6RD	6DMSC	RDY,0	DMS Control	4R3	4	0	4,978,481:75:0	
200	99	123	01:54:24.800		DMS:	: *RUNDOWN	R7, TRACK 2, REV, TIC *3153.08 +/-	4R3	4	0	4,978,481:75:0	
201	99	123	01:54:26.000		DMS:	: *READY	RDY, TRACK 2, REV, TIC *3153.02 +/-	4R3	4	0	4,978,481:76:8	
202	99	123	01:56:05.466	117GC105A106A4AD	7STRP	-0.0034,0.035165	Slew =12.01	4R3	4	0	4,978,483:44:0	
203	99	123	01:56:16.800	117GC105A106A4AE	7STRP	0.005,-0.035015,	Slew = 0.34	4R3	4	0	4,978,483:61:0	
204	99	123	01:58:05.466	117GC105A106A4AF	7STRP	-0.0034,0.035165	Slew =12.01	4R3	4	0	4,978,485:42:0	
205	99	123	01:58:16.800	117GC105A106A4AG	7STRP	0.005,-0.035015,	Slew = 0.34	4R3	4	0	4,978,485:59:0	
206	99	123	02:00:05.466	117GC105A106A4AH	7STRP	-0.0034,0.035165	Slew =12.01	4R3	4	0	4,978,487:40:0	
207	99	123	02:00:16.800	117GC105A106A4AI	7STRP	0.005,-0.035015,	Slew = 0.34	4R3	4	0	4,978,487:57:0	
208	99	123	02:02:05.466	117GC105A106A4AJ	7STRP	-0.0034,0.035165	Slew =12.01	4R3	4	0	4,978,489:38:0	
209	99	123	02:02:16.800	117GC105A106A4AK	7STRP	0.005,-0.035015,	Slew = 0.34	4R3	4	0	4,978,489:55:0	
210	99	123	02:04:05.466	117GC105A106A4AL	7STRP	-0.0034,0.035165	Slew =12.01	4R3	4	0	4,978,491:36:0	
211	99	123	02:04:16.800	117GC105A106A4AM	7STRP	0.005,-0.035015,	Slew = 0.34	4R3	4	0	4,978,491:53:0	
212	99	123	02:06:05.466	117GC105A106A4AN	7STRP	-0.0034,0.035165	Slew =12.01	4R3	4	0	4,978,493:34:0	
213	99	123	02:06:16.800	117GC105A106A4AO	7STRP	0.005,-0.035015,	Slew = 0.34	4R3	4	0	4,978,493:51:0	
214	99	123	02:07:58.800	50ZZ6XX	6DMSC	R7,0	DMS Control	4R3	4	0	4,978,495:22:0	
215	99	123	02:07:58.800		DMS:	: *US-RUNUP	P7, TRACK *1,*FWD, TIC 3153.02 +/-	4R3	4	0	4,978,495:22:0	
216	99	123	02:08:00.200		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *3153.14 +/-	4R3	4	0	4,978,495:24:1	
217	99	123	02:08:05.466	117GC105A106A4AP	7STRP	-0.0034,0.035165	Slew =12.01	4R3	4	0	4,978,495:32:0	
218	99	123	02:08:05.466		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *3154.38 +/-	4R3	4	0	4,978,495:32:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
219	99	123	02:08:06.666		DMS:	: *RUNUP	R7, TRACK 2, *REV, TIC *3154.44 +/-	4R3	4	0	4,978,495:33:8	
220	99	123	02:08:08.066		DMS:	: *AT SPD	R7, TRACK 2, REV, TIC *3154.32 +/-	4R3	4	0	4,978,495:35:9	
221	99	123	02:08:16.800	117GC105A106A4AQ	7STRP	0.005,-0.035015,	Slew = 0.34	4R3	4	0	4,978,495:49:0	
222	99	123	02:08:26.800		DMS:	: *RECORD	R7, TRACK 2, REV, TIC *3149.93 +/-	4R3	4	0	4,978,495:64:0	
223	99	123	02:08:49.466	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,978,496:07:0	
224	99	123	02:08:49.466		DMS:	: *RUNDOWN	R7, TRACK 2, REV, TIC *3144.61 +/-	4R3	4	0	4,978,496:07:0	
225	99	123	02:08:50.666		DMS:	: *READY	RDY, TRACK 2, REV, TIC *3144.55 +/-	4R3	4	0	4,978,496:08:8	
226	99	123	02:10:05.466	117GC105A106A4AR	7STRP	-0.0034,0.035165	Slew = 12.01	4R3	4	0	4,978,497:30:0	
227	99	123	02:10:16.800	117GC105A106A4AS	7STRP	0.005,-0.035015,	Slew = 0.34	4R3	4	0	4,978,497:47:0	
228	99	123	02:12:05.466	117GC105A106A4AT	7STRP	-0.0034,0.035165	Slew = 12.01	4R3	4	0	4,978,499:28:0	
229	99	123	02:12:16.800	117GC105A106A4AU	7STRP	0.005,-0.035015,	Slew = 0.34	4R3	4	0	4,978,499:45:0	
230	99	123	02:14:05.466	117GC105A106A4AV	7STRP	-0.0034,0.035165	Slew = 12.01	4R3	4	0	4,978,501:26:0	
231	99	123	02:14:16.800	117GC105A106A4AW	7STRP	0.005,-0.035015,	Slew = 0.34	4R3	4	0	4,978,501:43:0	
232	99	123	02:16:05.466	117GC105A106A4AX	7STRP	-0.0034,0.035165	Slew = 12.01	4R3	4	0	4,978,503:24:0	
233	99	123	02:16:16.800	117GC105A106A4AY	7STRP	0.005,-0.035015,	Slew = 0.34	4R3	4	0	4,978,503:41:0	
234	99	123	02:18:05.466	117GC105A106A4AZ	7STRP	-0.0034,0.035165	Slew = 12.01	4R3	4	0	4,978,505:22:0	
235	99	123	02:18:16.800	117GC105A106A4BA	7STRP	0.005,-0.035015,	Slew = 0.34	4R3	4	0	4,978,505:39:0	
236	99	123	02:20:05.466	117GC105A106A4BB	7STRP	-0.0034,0.035165	Slew = 12.01	4R3	4	0	4,978,507:20:0	
237	99	123	02:20:16.800	117GC105A106A4BC	7STRP	0.005,-0.035015,	Slew = 0.34	4R3	4	0	4,978,507:37:0	
238	99	123	02:22:05.466	117GC105A106A4BD	7STRP	-0.0034,0.035165	Slew = 12.01	4R3	4	0	4,978,509:18:0	
239	99	123	02:22:16.800	117GC105A106A4BE	7STRP	0.005,-0.035015,	Slew = 0.34	4R3	4	0	4,978,509:35:0	
240	99	123	02:22:23.466	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	4,978,509:45:0	
241	99	123	02:22:23.466		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 3144.55 +/-	4R3	4	0	4,978,509:45:0	
242	99	123	02:22:24.866		DMS:	: *US AT SP	P7, TRACK 1, FWD, TIC *3144.67 +/-	4R3	4	0	4,978,509:47:1	
243	99	123	02:22:30.133		DMS:	: *US RD	P7, TRACK 1, FWD, TIC *3145.91 +/-	4R3	4	0	4,978,509:55:0	
244	99	123	02:22:31.333		DMS:	: *RUNUP	R7, TRACK *2, REV, TIC *3145.97 +/-	4R3	4	0	4,978,509:56:8	
245	99	123	02:22:32.733		DMS:	: *AT SPD	R7, TRACK 2, REV, TIC *3145.85 +/-	4R3	4	0	4,978,509:58:9	
246	99	123	02:22:51.466		DMS:	: *RECORD	R7, TRACK 2, REV, TIC *3141.46 +/-	4R3	4	0	4,978,509:87:0	
247	99	123	02:23:14.133		DMS:	: *RUNDOWN	R7, TRACK 2, REV, TIC *3136.15 +/-	4R3	4	0	4,978,510:30:0	
248	99	123	02:23:14.133	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,978,510:30:0	
249	99	123	02:23:15.333		DMS:	: *READY	RDY, TRACK 2, REV, TIC *3136.09 +/-	4R3	4	0	4,978,510:31:8	
250	99	123	02:24:05.466	117GC105A106A4BF	7STRP	-0.0034,0.035165	Slew = 12.01	4R3	4	0	4,978,511:16:0	
251	99	123	02:24:16.800	117GC105A106A4BG	7STRP	0.005,-0.035015,	Slew = 0.34	4R3	4	0	4,978,511:33:0	
252	99	123	02:26:05.466	117GC105A106A4BH	7STRP	-0.0034,0.035165	Slew = 12.01	4R3	4	0	4,978,513:14:0	
253	99	123	02:26:16.800	117GC105A106A4BI	7STRP	0.005,-0.035015,	Slew = 0.34	4R3	4	0	4,978,513:31:0	
254	99	123	02:28:05.466	117GC105A106A4BJ	7STRP	-0.0034,0.035165	Slew = 12.01	4R3	4	0	4,978,515:12:0	
255	99	123	02:28:16.800	117GC105A106A4BK	7STRP	0.005,-0.035015,	Slew = 0.34	4R3	4	0	4,978,515:29:0	
256	99	123	02:30:05.466	117GC105A106A4BL	7STRP	-0.0034,0.035165	Slew = 12.01	4R3	4	0	4,978,517:10:0	
257	99	123	02:30:16.800	117GC105A106A4BM	7STRP	0.005,-0.035015,	Slew = 0.34	4R3	4	0	4,978,517:27:0	
258	99	123	02:32:05.466	117GC105A106A4BN	7STRP	-0.0034,0.035165	Slew = 12.01	4R3	4	0	4,978,519:08:0	
259	99	123	02:32:16.800	117GC105A106A4BO	7STRP	0.005,-0.035015,	Slew = 0.34	4R3	4	0	4,978,519:25:0	
260	99	123	02:34:05.466	117GC105A106A4BP	7STRP	-0.0034,0.035165	Slew = 12.01	4R3	4	0	4,978,521:06:0	
261	99	123	02:34:16.800	117GC105A106A4BQ	7STRP	0.005,-0.035015,	Slew = 0.34	4R3	4	0	4,978,521:23:0	
262	99	123	02:36:05.466	117GC105A106A4BR	7STRP	-0.0034,0.035165	Slew = 12.01	4R3	4	0	4,978,523:04:0	
263	99	123	02:36:16.800	117GC105A106A4BS	7STRP	0.005,-0.035015,	Slew = 0.34	4R3	4	0	4,978,523:21:0	
264	99	123	02:36:48.133		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 3136.09 +/-	4R3	4	0	4,978,523:68:0	
265	99	123	02:36:48.133	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	4,978,523:68:0	
266	99	123	02:36:49.533		DMS:	: *US AT SP	P7, TRACK 1, FWD, TIC *3136.21 +/-	4R3	4	0	4,978,523:70:1	
267	99	123	02:36:54.800		DMS:	: *US RD	P7, TRACK 1, FWD, TIC *3137.44 +/-	4R3	4	0	4,978,523:78:0	
268	99	123	02:36:56.000		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *3137.50 +/-	4R3	4	0	4,978,523:79:8	
269	99	123	02:36:57.400		DMS:	: *AT SPD	R7, TRACK 2, REV, TIC *3137.38 +/-	4R3	4	0	4,978,523:81:9	
270	99	123	02:37:16.133		DMS:	: *RECORD	R7, TRACK 2, REV, TIC *3132.99 +/-	4R3	4	0	4,978,524:19:0	
271	99	123	02:37:38.800	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,978,524:53:0	
272	99	123	02:37:38.800		DMS:	: *RUNDOWN	R7, TRACK 2, REV, TIC *3127.68 +/-	4R3	4	0	4,978,524:53:0	
273	99	123	02:37:40.000		DMS:	: *READY	RDY, TRACK 2, REV, TIC *3127.62 +/-	4R3	4	0	4,978,524:54:8	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
274	99	123	02:38:05.466	117GC105A106A4BT	7STRP	-0.0034,0.035165	Slew =12.01	4R3	4	0	4,978,525:02:0	
275	99	123	02:38:16.800	117GC105A106A4BU	7STRP	0.005,-0.035015,	Slew = 0.34	4R3	4	0	4,978,525:19:0	
276	99	123	02:40:05.466	117GC105A106A4BV	7STRP	-0.0034,0.035165	Slew =12.01	4R3	4	0	4,978,527:00:0	
277	99	123	02:40:16.800	117GC105A106A4BW	7STRP	0.005,-0.035015,	Slew = 0.34	4R3	4	0	4,978,527:17:0	
278	99	123	02:42:05.466	117GC105A106A4BX	7STRP	-0.0034,0.035165	Slew =12.01	4R3	4	0	4,978,528:89:0	
279	99	123	02:42:16.800	117GC105A106A4BY	7STRP	0.005,-0.035015,	Slew = 0.34	4R3	4	0	4,978,529:15:0	
280	99	123	02:44:05.466	117GC105A106A4BZ	7STRP	-0.0034,0.035165	Slew =12.01	4R3	4	0	4,978,530:87:0	
281	99	123	02:44:16.800	117GC105A106A4CA	7STRP	0.005,-0.035015,	Slew = 0.34	4R3	4	0	4,978,531:13:0	
282	99	123	02:46:05.466	117GC105A106A4CB	7STRP	-0.0034,0.035165	Slew =12.01	4R3	4	0	4,978,532:85:0	
283	99	123	02:46:16.800	117GC105A106A4CC	7STRP	0.005,-0.035015,	Slew = 0.34	4R3	4	0	4,978,533:11:0	
284	99	123	02:48:05.466	117GC105A106A4CD	7STRP	-0.0034,0.035165	Slew =12.01	4R3	4	0	4,978,534:83:0	
285	99	123	02:48:16.800	117GC105A106A4CE	7STRP	0.005,-0.035015,	Slew = 0.34	4R3	4	0	4,978,535:09:0	
286	99	123	02:50:05.466	117GC105A106A4CF	7STRP	-0.0034,0.035165	Slew =12.01	4R3	4	0	4,978,536:81:0	
287	99	123	02:50:16.800	117GC105A106A4CG	7STRP	0.005,-0.035015,	Slew = 0.34	4R3	4	0	4,978,537:07:0	
288	99	123	02:51:12.800		DMS:	:*US-RUNUP	P7, TRACK *1, *FWD, TIC 3127.62 +/-	4R3	4	0	4,978,538:00:0	
289	99	123	02:51:12.800	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	4,978,538:02:1	
290	99	123	02:51:14.200		DMS:	:*US AT SP	P7, TRACK 1, FWD, TIC *3127.74 +/-	4R3	4	0	4,978,538:10:0	
291	99	123	02:51:19.466		DMS:	:*US RD	P7, TRACK 1, FWD, TIC *3128.97 +/-	4R3	4	0	4,978,538:11:8	
292	99	123	02:51:20.666		DMS:	:*RUNUP	R7, TRACK *2, *REV, TIC *3129.03 +/-	4R3	4	0	4,978,538:13:9	
293	99	123	02:51:22.066		DMS:	:*AT SPD	R7, TRACK 2, REV, TIC *3128.91 +/-	4R3	4	0	4,978,538:42:0	
294	99	123	02:51:40.800		DMS:	:*RECORD	R7, TRACK 2, REV, TIC *3124.52 +/-	4R3	4	0	4,978,538:76:0	
295	99	123	02:52:03.466	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,978,538:76:0	
296	99	123	02:52:03.466		DMS:	:*RUNDOWN	R7, TRACK 2, REV, TIC *3119.21 +/-	4R3	4	0	4,978,538:76:0	
297	99	123	02:52:04.666		DMS:	:*READY	RDY, TRACK 2, REV, TIC *3119.15 +/-	4R3	4	0	4,978,538:77:8	
298	99	123	02:52:05.466	117GC105A106A4CH	7STRP	-0.0034,0.035165	Slew =12.01	4R3	4	0	4,978,538:79:0	
299	99	123	02:52:16.800	117GC105A106A4CI	7STRP	0.005,-0.035015,	Slew = 0.34	4R3	4	0	4,978,539:05:0	
300	99	123	02:54:05.466	117GC105A106A4CJ	7STRP	-0.0034,0.035165	Slew =12.01	4R3	4	0	4,978,540:77:0	
301	99	123	02:54:16.800	117GC105A106A4CK	7STRP	0.005,-0.035015,	Slew = 0.34	4R3	4	0	4,978,541:03:0	
302	99	123	02:56:05.466	117GC105A106A4CL	7STRP	-0.0034,0.035165	Slew =12.01	4R3	4	0	4,978,542:75:0	
303	99	123	02:56:16.800	117GC105A106A4CM	7STRP	0.005,-0.035015,	Slew = 0.34	4R3	4	0	4,978,543:01:0	
304	99	123	02:58:05.466	117GC105A106A4CN	7STRP	-0.0034,0.035165	Slew =12.01	4R3	4	0	4,978,544:73:0	
305	99	123	02:58:16.800	117GC105A106A4CO	7STRP	0.005,-0.035015,	Slew = 0.34	4R3	4	0	4,978,544:90:0	
306	99	123	03:00:05.466	117GC105A106A4CP	7STRP	-0.0034,0.035165	Slew =12.01	4R3	4	0	4,978,546:71:0	
307	99	123	03:00:16.800	117GC105A106A4CQ	7STRP	0.005,-0.035015,	Slew = 0.34	4R3	4	0	4,978,546:88:0	
308	99	123	03:02:05.466	117GC105A106A4CR	7STRP	-0.0034,0.035165	Slew =12.01	4R3	4	0	4,978,548:69:0	
309	99	123	03:02:16.800	117GC105A106A4CS	7STRP	0.005,-0.035015,	Slew = 0.34	4R3	4	0	4,978,548:86:0	
310	99	123	03:04:05.466	117GC105A106A4CT	7STRP	-0.0034,0.035165	Slew =12.01	4R3	4	0	4,978,550:67:0	
311	99	123	03:04:16.800	117GC105A106A4CU	7STRP	0.005,-0.035015,	Slew = 0.34	4R3	4	0	4,978,550:84:0	
312	99	123	03:05:36.800		DMS:	:*US-RUNUP	P7, TRACK *1, *FWD, TIC 3119.15 +/-	4R3	4	0	4,978,552:22:0	
313	99	123	03:05:36.800	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	4,978,552:22:0	
314	99	123	03:05:38.200		DMS:	:*US AT SP	P7, TRACK 1, FWD, TIC *3119.27 +/-	4R3	4	0	4,978,552:24:1	
315	99	123	03:05:43.466		DMS:	:*US RD	P7, TRACK 1, FWD, TIC *3120.50 +/-	4R3	4	0	4,978,552:32:0	
316	99	123	03:05:44.666		DMS:	:*RUNUP	R7, TRACK *2, *REV, TIC *3120.56 +/-	4R3	4	0	4,978,552:33:8	
317	99	123	03:05:46.066		DMS:	:*AT SPD	R7, TRACK 2, REV, TIC *3120.44 +/-	4R3	4	0	4,978,552:35:9	
318	99	123	03:06:04.800		DMS:	:*RECORD	R7, TRACK 2, REV, TIC *3116.05 +/-	4R3	4	0	4,978,552:65:0	
319	99	123	03:06:05.466	117GC105A106A4CV	7STRP	-0.0034,0.035165	Slew =12.01	4R3	4	0	4,978,552:82:0	
320	99	123	03:06:16.800	117GC105A106A4CW	7STRP	0.005,-0.035015,	Slew = 0.34	4R3	4	0	4,978,552:82:0	
321	99	123	03:06:27.466	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,978,553:07:0	
322	99	123	03:06:27.466		DMS:	:*RUNDOWN	R7, TRACK 2, REV, TIC *3110.74 +/-	4R3	4	0	4,978,553:07:0	
323	99	123	03:06:28.666		DMS:	:*READY	RDY, TRACK 2, REV, TIC *3110.68 +/-	4R3	4	0	4,978,553:08:8	
324	99	123	03:08:05.466	117GC105A106A4CX	7STRP	-0.0034,0.035165	Slew =12.01	4R3	4	0	4,978,554:63:0	
325	99	123	03:08:16.800	117GC105A106A4CY	7STRP	0.005,-0.035015,	Slew = 0.34	4R3	4	0	4,978,554:80:0	
326	99	123	03:10:05.466	117GC105A106A4CZ	7STRP	-0.0034,0.035165	Slew =12.01	4R3	4	0	4,978,556:61:0	
327	99	123	03:10:16.800	117GC105A106A4DA	7STRP	0.005,-0.035015,	Slew = 0.34	4R3	4	0	4,978,556:78:0	
328	99	123	03:12:05.466	117GC105A106A4DB	7STRP	-0.0034,0.035165	Slew =12.01	4R3	4	0	4,978,558:59:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
329	99	123	03:12:16.800	117GC105A106A4DC	7STRP	0.005,-0.035015,	Slew = 0.34	4R3	4	0	4,978,558:76:0	
330	99	123	03:14:05.466	117GC105A106A4DD	7STRP	-0.0034,0.035165	Slew = 12.01	4R3	4	0	4,978,560:57:0	
331	99	123	03:14:16.800	117GC105A106A4DE	7STRP	0.005,-0.035015,	Slew = 0.34	4R3	4	0	4,978,560:74:0	
332	99	123	03:16:05.466	117GC105A106A4DF	7STRP	-0.0034,0.035165	Slew = 12.01	4R3	4	0	4,978,562:55:0	
333	99	123	03:16:16.800	117GC105A106A4DG	7STRP	0.005,-0.035015,	Slew = 0.34	4R3	4	0	4,978,562:72:0	
334	99	123	03:18:05.466	117GC105A106A4DH	7STRP	-0.0034,0.035165	Slew = 12.01	4R3	4	0	4,978,564:53:0	
335	99	123	03:18:16.800	117GC105A106A4DI	7STRP	0.005,-0.035015,	Slew = 0.34	4R3	4	0	4,978,564:70:0	
336	99	123	03:20:01.466		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 3110.68 +/-	4R3	4	0	4,978,566:45:0	
337	99	123	03:20:01.466	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	4,978,566:45:0	
338	99	123	03:20:02.866		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *3110.80 +/-	4R3	4	0	4,978,566:47:1	
339	99	123	03:20:05.466	117GC105A106A4DJ	7STRP	-0.0034,0.035165	Slew = 12.01	4R3	4	0	4,978,566:51:0	
340	99	123	03:20:08.133		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *3112.03 +/-	4R3	4	0	4,978,566:55:0	
341	99	123	03:20:09.333		DMS:	: *RUNUP	R7, TRACK *2, REV, TIC *3112.09 +/-	4R3	4	0	4,978,566:56:8	
342	99	123	03:20:10.733		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *3111.97 +/-	4R3	4	0	4,978,566:58:9	
343	99	123	03:20:16.800	117GC105A106A4DK	7STRP	0.005,-0.035015,	Slew = 0.34	4R3	4	0	4,978,566:68:0	
344	99	123	03:20:29.466		DMS:	: *RECORD	R7, TRACK 2, REV, TIC *3107.58 +/-	4R3	4	0	4,978,566:87:0	
345	99	123	03:20:52.133	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,978,567:30:0	
346	99	123	03:20:52.133		DMS:	: *RUNDOWN	R7, TRACK 2, REV, TIC *3102.27 +/-	4R3	4	0	4,978,567:30:0	
347	99	123	03:20:53.333		DMS:	: *READY	RDY, TRACK 2, REV, TIC *3102.21 +/-	4R3	4	0	4,978,567:31:8	
348	99	123	03:22:05.466	117GC105A106A4DL	7STRP	-0.0034,0.035165	Slew = 12.01	4R3	4	0	4,978,568:49:0	
349	99	123	03:22:16.800	117GC105A106A4DM	7STRP	0.005,-0.035015,	Slew = 0.34	4R3	4	0	4,978,568:66:0	
350	99	123	03:24:05.466	117GC105A106A4DN	7STRP	-0.0034,0.035165	Slew = 12.01	4R3	4	0	4,978,570:47:0	
351	99	123	03:24:16.800	117GC105A106A4DO	7STRP	0.005,-0.035015,	Slew = 0.34	4R3	4	0	4,978,570:64:0	
352	99	123	03:26:05.466	117GC105A106A4DP	7STRP	-0.0034,0.035165	Slew = 12.01	4R3	4	0	4,978,572:45:0	
353	99	123	03:26:16.800	117GC105A106A4DQ	7STRP	0.005,-0.035015,	Slew = 0.34	4R3	4	0	4,978,572:62:0	
354	99	123	03:28:05.466	117GC105A106A4DR	7STRP	-0.0034,0.035165	Slew = 12.01	4R3	4	0	4,978,574:43:0	
355	99	123	03:28:16.800	117GC105A106A4DS	7STRP	0.005,-0.035015,	Slew = 0.34	4R3	4	0	4,978,574:60:0	
356	99	123	03:30:05.466	117GC105A106A4DT	7STRP	-0.0034,0.035165	Slew = 12.01	4R3	4	0	4,978,576:41:0	
357	99	123	03:30:16.800	117GC105A106A4DU	7STRP	0.005,-0.035015,	Slew = 0.34	4R3	4	0	4,978,576:58:0	
358	99	123	03:32:05.466	117GC105A106A4DV	7STRP	-0.0034,0.035165	Slew = 12.01	4R3	4	0	4,978,578:39:0	
359	99	123	03:32:16.800	117GC105A106A4DW	7STRP	0.005,-0.035015,	Slew = 0.34	4R3	4	0	4,978,578:56:0	
360	99	123	03:34:05.466	117GC105A106A4DX	7STRP	-0.0034,0.035165	Slew = 12.01	4R3	4	0	4,978,580:37:0	
361	99	123	03:34:16.800	117GC105A106A4DY	7STRP	0.005,-0.035015,	Slew = 0.34	4R3	4	0	4,978,580:54:0	
362	99	123	03:34:26.133		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 3102.21 +/-	4R3	4	0	4,978,580:68:0	
363	99	123	03:34:26.133	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	4,978,580:68:0	
364	99	123	03:34:27.533		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *3102.33 +/-	4R3	4	0	4,978,580:70:1	
365	99	123	03:34:32.800		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *3103.56 +/-	4R3	4	0	4,978,580:78:0	
366	99	123	03:34:34.000		DMS:	: *RUNUP	R7, TRACK *2, REV, TIC *3103.62 +/-	4R3	4	0	4,978,580:79:8	
367	99	123	03:34:35.400		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *3103.50 +/-	4R3	4	0	4,978,580:81:9	
368	99	123	03:34:54.133		DMS:	: *RECORD	R7, TRACK 2, REV, TIC *3099.11 +/-	4R3	4	0	4,978,581:19:0	
369	99	123	03:35:16.800		DMS:	: *RUNDOWN	R7, TRACK 2, REV, TIC *3093.80 +/-	4R3	4	0	4,978,581:53:0	
370	99	123	03:35:16.800	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,978,581:53:0	
371	99	123	03:35:18.000		DMS:	: *READY	RDY, TRACK 2, REV, TIC *3093.74 +/-	4R3	4	0	4,978,581:54:8	
372	99	123	03:36:05.466	117GC105A106A4DZ	7STRP	-0.0034,0.035165	Slew = 12.01	4R3	4	0	4,978,582:35:0	
373	99	123	03:36:16.800	117GC105A106A4EA	7STRP	0.005,-0.035015,	Slew = 0.34	4R3	4	0	4,978,582:52:0	
374	99	123	03:38:05.466	117GC105A106A4EB	7STRP	-0.0034,0.035165	Slew = 12.01	4R3	4	0	4,978,584:33:0	
375	99	123	03:38:16.800	117GC105A106A4EC	7STRP	0.005,-0.035015,	Slew = 0.34	4R3	4	0	4,978,584:50:0	
376	99	123	03:40:05.466	117GC105A106A4ED	7STRP	-0.0034,0.035165	Slew = 12.01	4R3	4	0	4,978,586:31:0	
377	99	123	03:40:16.800	117GC105A106A4EE	7STRP	0.005,-0.035015,	Slew = 0.34	4R3	4	0	4,978,586:48:0	
378	99	123	03:42:05.466	117GC105A106A4EF	7STRP	-0.0034,0.035165	Slew = 12.01	4R3	4	0	4,978,588:29:0	
379	99	123	03:42:16.800	117GC105A106A4EG	7STRP	0.005,-0.035015,	Slew = 0.34	4R3	4	0	4,978,588:46:0	
380	99	123	03:44:05.466	117GC105A106A4EH	7STRP	-0.0034,0.035165	Slew = 12.01	4R3	4	0	4,978,590:27:0	
381	99	123	03:44:16.800	117GC105A106A4EI	7STRP	0.005,-0.035015,	Slew = 0.34	4R3	4	0	4,978,590:44:0	
382	99	123	03:46:05.466	117GC105A106A4EJ	7STRP	-0.0034,0.035165	Slew = 12.01	4R3	4	0	4,978,592:25:0	
383	99	123	03:46:16.800	117GC105A106A4EK	7STRP	0.005,-0.035015,	Slew = 0.34	4R3	4	0	4,978,592:42:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
384	99	123	03:48:05.466	117GC105A106A4EL	7STRP	-0.0034,0.035165	Slew =12.01	4R3	4	0	4,978,594:23:0	
385	99	123	03:48:16.800	117GC105A106A4EM	7STRP	0.005,-0.035015,	Slew = 0.34	4R3	4	0	4,978,594:40:0	
386	99	123	03:48:50.800	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	4,978,595:00:0	
387	99	123	03:48:50.800		DMS:	: *US-RUNUP	P7, TRACK *1,*FWD, TIC 3093.74 +/-	4R3	4	0	4,978,595:00:0	
388	99	123	03:48:52.200		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *3093.86 +/-	4R3	4	0	4,978,595:02:1	
389	99	123	03:48:57.466		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *3095.10 +/-	4R3	4	0	4,978,595:10:0	
390	99	123	03:48:58.666		DMS:	: *RUNUP	R7, TRACK *2,*REV, TIC *3095.16 +/-	4R3	4	0	4,978,595:11:8	
391	99	123	03:49:00.066		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *3095.04 +/-	4R3	4	0	4,978,595:13:9	
392	99	123	03:49:18.800		DMS:	: *RECORD	R7, TRACK 2, REV, TIC *3090.65 +/-	4R3	4	0	4,978,595:42:0	
393	99	123	03:49:41.466		DMS:	: *RUNDOWN	R7, TRACK 2, REV, TIC *3085.33 +/-	4R3	4	0	4,978,595:76:0	
394	99	123	03:49:41.466	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,978,595:76:0	
395	99	123	03:49:42.666		DMS:	: *READY	RDY, TRACK 2, REV, TIC *3085.27 +/-	4R3	4	0	4,978,595:77:8	
396	99	123	03:50:05.466	117GC105A106A4EN	7STRP	-0.0034,0.035165	Slew =12.01	4R3	4	0	4,978,596:21:0	
397	99	123	03:50:16.800	117GC105A106A4EO	7STRP	0.005,-0.035015,	Slew = 0.34	4R3	4	0	4,978,596:38:0	
398	99	123	03:52:05.466	117GC105A106A4EP	7STRP	-0.0034,0.035165	Slew =12.01	4R3	4	0	4,978,598:19:0	
399	99	123	03:52:16.800	117GC105A106A4EQ	7STRP	0.005,-0.035015,	Slew = 0.34	4R3	4	0	4,978,598:36:0	
400	99	123	03:54:05.466	117GC105A106A4ER	7STRP	-0.0034,0.035165	Slew =12.01	4R3	4	0	4,978,600:17:0	
401	99	123	03:54:16.800	117GC105A106A4ES	7STRP	0.005,-0.035015,	Slew = 0.34	4R3	4	0	4,978,600:34:0	
402	99	123	03:56:05.466	117GC105A106A4ET	7STRP	-0.0034,0.035165	Slew =12.01	4R3	4	0	4,978,602:15:0	
403	99	123	03:56:16.800	117GC105A106A4EU	7STRP	0.005,-0.035015,	Slew = 0.34	4R3	4	0	4,978,602:32:0	
404	99	123	03:58:05.466	117GC105A106A4EV	7STRP	-0.0034,0.035165	Slew =12.01	4R3	4	0	4,978,604:13:0	
405	99	123	03:58:16.800	117GC105A106A4EW	7STRP	0.005,-0.035015,	Slew = 0.34	4R3	4	0	4,978,604:30:0	
406	99	123	04:00:03.466	488AB6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4R3	4	0	4,978,606:08:0	
407	99	123	04:00:05.466	117GC105A106A4EX	7STRP	-0.0034,0.035165	Slew =12.01	4R3	4	0	4,978,606:11:0	
408	99	123	04:00:16.800	117GC105A106A4EY	7STRP	0.005,-0.035015,	Slew = 0.34	4R3	4	0	4,978,606:28:0	
409	99	123	04:02:05.466	117GC105A106A4EZ	7STRP	-0.0034,0.035165	Slew =12.01	4R3	4	0	4,978,608:09:0	
410	99	123	04:02:16.800	117GC105A106A4FA	7STRP	0.005,-0.035015,	Slew = 0.34	4R3	4	0	4,978,608:26:0	
411	99	123	04:03:15.466	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	4,978,609:23:0	
412	99	123	04:03:15.466		DMS:	: *US-RUNUP	P7, TRACK *1,*FWD, TIC 3085.27 +/-	4R3	4	0	4,978,609:23:0	
413	99	123	04:03:16.866		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *3085.39 +/-	4R3	4	0	4,978,609:25:1	
414	99	123	04:03:22.133		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *3086.63 +/-	4R3	4	0	4,978,609:33:0	
415	99	123	04:03:23.333		DMS:	: *RUNUP	R7, TRACK *2,*REV, TIC *3086.69 +/-	4R3	4	0	4,978,609:34:8	
416	99	123	04:03:24.733		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *3086.57 +/-	4R3	4	0	4,978,609:36:9	
417	99	123	04:03:43.466		DMS:	: *RECORD	R7, TRACK 2, REV, TIC *3082.18 +/-	4R3	4	0	4,978,609:65:0	
418	99	123	04:04:05.466	117GC105A106A4FB	7STRP	-0.0034,0.035165	Slew =12.01	4R3	4	0	4,978,610:07:0	
419	99	123	04:04:06.133	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,978,610:08:0	
420	99	123	04:04:06.133		DMS:	: *RUNDOWN	R7, TRACK 2, REV, TIC *3076.86 +/-	4R3	4	0	4,978,610:08:0	
421	99	123	04:04:07.333		DMS:	: *READY	RDY, TRACK 2, REV, TIC *3076.80 +/-	4R3	4	0	4,978,610:09:8	
422	99	123	04:04:16.800	117GC105A106A4FC	7STRP	0.005,-0.035015,	Slew = 0.34	4R3	4	0	4,978,610:24:0	
423	99	123	04:06:05.466	117GC105A106A4FD	7STRP	-0.0034,0.035165	Slew =12.01	4R3	4	0	4,978,612:05:0	
424	99	123	04:06:16.800	117GC105A106A4FE	7STRP	0.005,-0.035015,	Slew = 0.34	4R3	4	0	4,978,612:22:0	
425	99	123	04:08:05.466	117GC105A106A4FF	7STRP	-0.0034,0.035165	Slew =12.01	4R3	4	0	4,978,614:03:0	
426	99	123	04:08:16.800	117GC105A106A4FG	7STRP	0.005,-0.035015,	Slew = 0.34	4R3	4	0	4,978,614:20:0	
427	99	123	04:10:05.466	117GC105A106A4FH	7STRP	-0.0034,0.035165	Slew =12.01	4R3	4	0	4,978,616:01:0	
428	99	123	04:10:16.800	117GC105A106A4FI	7STRP	0.005,-0.035015,	Slew = 0.34	4R3	4	0	4,978,616:18:0	
429	99	123	04:12:05.466	117GC105A106A4FJ	7STRP	-0.0034,0.035165	Slew =12.01	4R3	4	0	4,978,617:90:0	
430	99	123	04:12:16.800	117GC105A106A4FK	7STRP	0.005,-0.035015,	Slew = 0.34	4R3	4	0	4,978,618:16:0	
431	99	123	04:14:05.466	117GC105A106A4FL	7STRP	-0.0034,0.035165	Slew =12.01	4R3	4	0	4,978,619:88:0	
432	99	123	04:14:16.800	117GC105A106A4FM	7STRP	0.005,-0.035015,	Slew = 0.34	4R3	4	0	4,978,620:14:0	
433	99	123	04:16:05.466	117GC105A106A4FN	7STRP	-0.0034,0.035165	Slew =12.01	4R3	4	0	4,978,621:86:0	
434	99	123	04:16:16.800	117GC105A106A4FO	7STRP	0.005,-0.035015,	Slew = 0.34	4R3	4	0	4,978,622:12:0	
435	99	123	04:17:39.466		DMS:	: *US-RUNUP	P7, TRACK *1,*FWD, TIC 3076.80 +/-	4R3	4	0	4,978,623:45:0	
436	99	123	04:17:39.466	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	4,978,623:45:0	
437	99	123	04:17:40.866		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *3076.92 +/-	4R3	4	0	4,978,623:47:1	
438	99	123	04:17:46.133		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *3078.16 +/-	4R3	4	0	4,978,623:55:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
439	99	123	04:17:47.333		DMS:	: *RUNUP	R7, TRACK 2, *REV, TIC *3078.22 +/-	4R3	4	0	4,978,623:56:8	
440	99	123	04:17:48.733		DMS:	: *AT SPD	R7, TRACK 2, REV, TIC *3078.10 +/-	4R3	4	0	4,978,623:58:9	
441	99	123	04:18:05.466	117GC105A106A4FP	7STRP	-0.0034,0.035165	Slew =12.01	4R3	4	0	4,978,623:84:0	
442	99	123	04:18:07.466		DMS:	: *RECORD	R7, TRACK 2, REV, TIC *3073.71 +/-	4R3	4	0	4,978,623:87:0	
443	99	123	04:18:16.800	117GC105A106A4FQ	7STRP	0.005,-0.035015,	Slew = 0.34	4R3	4	0	4,978,624:10:0	
444	99	123	04:18:30.133	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,978,624:30:0	
445	99	123	04:18:30.133		DMS:	: *RUNDOWN	R7, TRACK 2, REV, TIC *3068.40 +/-	4R3	4	0	4,978,624:30:0	
446	99	123	04:18:31.333		DMS:	: *READY	RDY, TRACK 2, REV, TIC *3068.34 +/-	4R3	4	0	4,978,624:31:8	
447	99	123	04:20:05.466	117GC105A106A4FR	7STRP	-0.0034,0.035165	Slew =12.01	4R3	4	0	4,978,625:82:0	
448	99	123	04:20:16.800	117GC105A106A4FS	7STRP	0.005,-0.035015,	Slew = 0.34	4R3	4	0	4,978,626:08:0	
449	99	123	04:22:05.466	117GC105A106A4FT	7STRP	-0.0034,0.035165	Slew =12.01	4R3	4	0	4,978,627:80:0	
450	99	123	04:22:16.800	117GC105A106A4FU	7STRP	0.005,-0.035015,	Slew = 0.34	4R3	4	0	4,978,628:06:0	
451	99	123	04:23:38.133	488AB6B	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4R3	4	0	4,978,629:37:0	
452	99	123	04:24:05.466	117GC105A106A4FV	7STRP	-0.0034,0.035165	Slew =12.01	4R3	4	0	4,978,629:78:0	
453	99	123	04:24:16.800	117GC105A106A4FW	7STRP	0.005,-0.035015,	Slew = 0.34	4R3	4	0	4,978,630:04:0	
454	99	123	04:26:05.466	117GC105A106A4FX	7STRP	-0.0034,0.035165	Slew =12.01	4R3	4	0	4,978,631:76:0	
455	99	123	04:26:16.800	117GC105A106A4FY	7STRP	0.005,-0.035015,	Slew = 0.34	4R3	4	0	4,978,632:02:0	
456	99	123	04:28:05.466	117GC105A106A4FZ	7STRP	-0.0034,0.035165	Slew =12.01	4R3	4	0	4,978,633:74:0	
457	99	123	04:28:16.800	117GC105A106A4GA	7STRP	0.005,-0.035015,	Slew = 0.34	4R3	4	0	4,978,634:00:0	
458	99	123	04:28:20.800	20NNJUPRTS01-		-----START-----		4R3	4	0	:	:
459	99	123	04:28:31.466	20DH5A	37PL		Program Load (halts microprocessor & unwri	4R3	4	0	4,978,634:22:0	
460	99	123	04:28:32.800	20DH5B	37MRL		Memory Realocate (software operates from R	4R3	4	0	4,978,634:24:0	
461	99	123	04:28:34.800	20DH6A	6MCPY	NIMS	NIMS,1000,LLM1A,7300,77F7	4R3	4	0	4,978,634:27:0	
462	99	123	04:28:44.800	20DH6B	6MCPY	NIMS	NIMS,1598,LLM1A,77F8,781D	4R3	4	0	4,978,634:42:0	
463	99	123	04:28:58.133	20DH5C	37IRT		Instrument Reset (goes into POR state)	260	4	0	4,978,634:62:0	
464	99	123	04:29:01.466	20DH5D	37MNI		Memory Normal (software operates from ROM)	260	4	0	4,978,634:67:0	
465	99	123	04:29:32.800	20DH4A	37IST	1,2,0,OFF,0,0,0	Chopper ON, Sync, Chopper (Ref)	2R0	4	0	4,978,635:23:0	
466	99	123	04:29:55.466	488AB6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	2R0	4	0	4,978,635:57:0	
467	99	123	04:30:05.466	117GC11A	CSMOS	GE	***** GROUP END CSMOS	2R0	4	0	4,978,635:72:0	
468	99	123	04:30:22.134	20NNJUPRTS01-		-----STOP-----		2R0	4	0	:	:
469	99	123	04:30:48.133	176GC6B	6TMREC	NRC	NO RECORD Record Mode Change	2R0	4	0	4,978,636:45:0	
470	99	123	04:30:50.133		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 3068.34 +/-	2R0	4	0	4,978,636:48:0	
471	99	123	04:30:50.133	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R0	4	0	4,978,636:48:0	
472	99	123	04:30:51.533		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *3068.46 +/-	2R0	4	0	4,978,636:50:1	
473	99	123	04:30:56.800		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *3069.69 +/-	2R0	4	0	4,978,636:58:0	
474	99	123	04:30:58.000		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *3069.75 +/-	2R0	4	0	4,978,636:59:8	
475	99	123	04:30:59.400		DMS:	: *AT SPD	R7, TRACK 2, REV, TIC *3069.63 +/-	2R0	4	0	4,978,636:61:9	
476	99	123	04:31:00.133		DMS:	: *RECORD	R7, TRACK 2, REV, TIC *3069.46 +/-	2R0	4	0	4,978,636:63:0	
477	99	123	04:31:14.133	125DH4A	37IST	0,2,0,OFF,0,1,0	Gain State 2	2R0	4	0	4,978,636:84:0	
478	99	123	04:31:14.133	125DH	NIMSINIT	GS	##### GROUP START INIT	2R0	4	0	4,978,636:84:0	
479	99	123	04:31:18.133	165DH4A	7SCAN	NORM,291.341999,	Check S/P Position	2R0	4	0	4,978,636:90:0	
480	99	123	04:31:20.800		DMS:	: *RUNDOWN	R7, TRACK 2, REV, TIC *3064.61 +/-	2R0	4	0	4,978,637:03:0	
481	99	123	04:31:20.800	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R0	4	0	4,978,637:03:0	
482	99	123	04:31:22.000		DMS:	: *READY	RDY, TRACK 2, REV, TIC *3064.55 +/-	2R0	4	0	4,978,637:04:8	
483	99	123	04:31:22.800	20NNJUPRTS01*		-----START-----		2R0	4	0	:	:
484	99	123	04:32:14.800	125DH11A	NIMSINIT	GE	##### GROUP END INIT	2R0	4	0	4,978,637:84:0	
485	99	123	04:32:14.800	125DH4B	37MB	1B,1B,0,0,0,0	Selects mirror (spatial) edit table	2R0	4	0	4,978,637:84:0	
486	99	123	04:33:15.466	127DH	NIMSTAB	GS	%%/%/% GROUP START TAB	2R0	4	0	4,978,638:84:0	
487	99	123	04:33:15.466	127DH4A	37IOP	3,0	Long Map, Grating Start Position =00	2R3	4	0	4,978,638:84:0	
488	99	123	04:33:16.133	127DH4B	37ETB	04,C4.35,FF,FF	Loads wavelength edit table	2R3	4	0	4,978,638:85:0	
489	99	123	04:33:24.133	127DH11A	NIMSTAB	GE	%%/%/% GROUP START TAB	2R3	4	0	4,978,639:06:0	
490	99	123	04:35:12.133	117DH	CSMOS	GS	***** GROUP START CSMOS	2R3	4	0	4,978,640:77:0	
491	99	123	04:35:21.466	117DH105A106A4A	7STRP	-0.036016,0,0,0,	Slew =.06	2R3	4	0	4,978,641:00:0	
492	99	123	04:35:25.466	432DH6A	6RTSL2	NIMSEL,AACNCG,RT	NIMS R/T SELECT	2R3	4	0	4,978,641:06:0	
493	99	123	04:45:28.133	117DH11A	CSMOS	GE	***** GROUP END CSMOS	2R3	4	0	4,978,651:00:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
494	99	123	04:45:30.800	432DX6A	6RTDS2	NIMDSL,AACNCG,RT	NIMS R/T DESELECT	2R3	4	0	4,978,651:04:0	
495	99	123	04:45:32.134	20JNJUPRTS01*		-----STOP-----		2R3	4	0	:	
496	99	123	04:51:58.133	488AB6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	2R3	4	0	4,978,657:39:0	
497	99	123	05:53:07.466	488AB6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2R3	4	0	4,978,717:83:0	
498	99	123	05:58:18.800	488AC6A	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	2R3	4	0	4,978,723:04:0	
499	99	123	06:30:41.467	20NNJUPRTS02-		-----START-----		2R3	4	0	:	
500	99	123	06:30:52.133	20DI5A	37PL		Program Load (halts microprocessor & unwri	2R3	4	0	4,978,755:22:0	
501	99	123	06:30:53.466	20DI5B	37MRL		Memory Realocate (software operates from R	2R3	4	0	4,978,755:24:0	
502	99	123	06:30:55.466	20DI6A	6MCOPI	NIMS	NIMS,1000,LLM1A,7300,77F7	2R3	4	0	4,978,755:27:0	
503	99	123	06:31:05.466	20DI6B	6MCOPI	NIMS	NIMS,1598,LLM1A,77F8,781D	2R3	4	0	4,978,755:42:0	
504	99	123	06:31:18.800	20DI5C	37IRT		Instrument Reset (goes into POR state)	260	4	0	4,978,755:62:0	
505	99	123	06:31:22.133	20DI5D	37MNI		Memory Normal (software operates from ROM)	260	4	0	4,978,755:67:0	
506	99	123	06:31:53.466	20DI4A	37IST	1,2,0,OFF,0,0,0	Chopper ON, Sync, Chopper (Ref)	2R0	4	0	4,978,756:23:0	
507	99	123	06:32:42.800	20NNJUPRTS02-		-----STOP-----		2R0	4	0	:	
508	99	123	06:33:34.800	125DI4A	37IST	0,2,0,OFF,0,1,1	Gain State 4	4R0	4	0	4,978,757:84:0	
509	99	123	06:33:34.800	125DI	NIMSINIT	GS	##### GROUP START INIT	4R0	4	0	4,978,757:84:0	
510	99	123	06:33:38.800	165DI4A	7SCAN	NORM,299.397999,	Check S/P Position	4R0	4	0	4,978,757:90:0	
511	99	123	06:33:43.467	20JNJUPRTS02*		-----START-----		4R0	4	0	:	
512	99	123	06:34:35.466	125DI11A	NIMSINIT	GE	##### GROUP END INIT	4R0	4	0	4,978,758:84:0	
513	99	123	06:34:35.466	125DI4B	37MB	13,19,0,0,0,0	Selects mirror (spatial) edit table	4R0	4	0	4,978,758:84:0	
514	99	123	06:35:22.800	488AC6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4R0	4	0	4,978,759:64:0	
515	99	123	06:35:36.133	127DI	NIMSTAB	GS	##### GROUP START TAB	4R0	4	0	4,978,759:84:0	
516	99	123	06:35:36.133	127DI4A	37IOP	3,0	Long Map, Grating Start Position =00	4R3	4	0	4,978,759:84:0	
517	99	123	06:35:36.800	127DI4B	37ETB	0A,CA,18,00,FF,1	Loads wavelength edit table	4R3	4	0	4,978,759:85:0	
518	99	123	06:35:44.800	127DI11A	NIMSTAB	GE	##### GROUP END TAB	4R3	4	0	4,978,760:06:0	
519	99	123	06:36:45.466	432DI6A	6RTSL2	NIMSEL,AACNCG,RT	NIMS R/T SELECT	4R3	4	0	4,978,761:06:0	
520	99	123	06:37:32.800	117DI	CSMOS	GS	##### GROUP START CSMOS	4R3	4	0	4,978,761:77:0	
521	99	123	06:37:40.800	165DI4B	7VECT		Inert vect update UTC	4R3	4	0	4,978,761:89:0	
522	99	123	06:37:42.133	117DI105A106A4A	7STRP	0,0,0,0,0,0,0,0	Slew = 0.06	4R3	4	0	4,978,762:00:0	
523	99	123	06:42:32.133	117DI105A106A4B	7STRP	0,030009,0,002,0	Slew = 12.01	4R3	4	0	4,978,766:71:0	
524	99	123	06:42:44.133	117DI105A106A4C	7STRP	0,0,0,0,0,0,0,0	Slew = 0.06	4R3	4	0	4,978,766:89:0	
525	99	123	06:46:50.800	432EY6A	6RTDS2	NIMDSL,AACNCG,RT	NIMS R/T DESELECT	4R3	4	0	4,978,771:04:0	
526	99	123	06:47:34.133	117DI11A	CSMOS	GE	##### GROUP END CSMOS	4R3	4	0	4,978,771:69:0	
527	99	123	06:47:52.800	20JNJUPRTS02*		-----STOP-----		4R3	4	0	:	
528	99	123	06:48:48.800	165GD4A	7SCAN	NORM,301.315998,	Check S/P Position	4R3	4	0	4,978,772:90:0	
529	99	123	06:51:51.466	176GD6A	6TMREC	BPT	7.68 KBPS PPR BURST TO TAPE Record Mode C	4R3	4	0	4,978,776:00:0	
530	99	123	06:52:42.800	117GD	CSMOS	GS	##### GROUP START CSMOS	4R3	4	0	4,978,776:77:0	
531	99	123	06:52:52.133	117GD105A106A4A	7STRP	0,004,-0,042026,	Slew = 0.32	4R3	4	0	4,978,777:00:0	
532	99	123	06:55:15.466	117GD105A106A4B	7STRP	-0,0018,0,042226	Slew = 12.01	4R3	4	0	4,978,779:33:0	
533	99	123	06:55:26.800	117GD105A106A4C	7STRP	0,004,-0,042026,	Slew = 0.32	4R3	4	0	4,978,779:50:0	
534	99	123	06:57:50.133	117GD105A106A4D	7STRP	-0,0018,0,042226	Slew = 12.01	4R3	4	0	4,978,781:83:0	
535	99	123	06:58:01.466	117GD105A106A4E	7STRP	0,004,-0,042026,	Slew = 0.32	4R3	4	0	4,978,782:09:0	
536	99	123	07:00:24.800	117GD105A106A4F	7STRP	-0,0018,0,042226	Slew = 12.01	4R3	4	0	4,978,784:42:0	
537	99	123	07:00:36.133	117GD105A106A4G	7STRP	0,004,-0,042026,	Slew = 0.32	4R3	4	0	4,978,784:59:0	
538	99	123	07:02:59.466	117GD105A106A4H	7STRP	-0,0018,0,042226	Slew = 12.01	4R3	4	0	4,978,787:01:0	
539	99	123	07:03:10.800	117GD105A106A4I	7STRP	0,004,-0,042026,	Slew = 0.32	4R3	4	0	4,978,787:18:0	
540	99	123	07:05:34.133	117GD105A106A4J	7STRP	-0,0018,0,042226	Slew = 12.01	4R3	4	0	4,978,789:51:0	
541	99	123	07:05:45.466		DMS:	:*US-RUNUP	P7, TRACK *1, *FWD, TIC 3064.55 +/-	4R3	4	0	4,978,789:68:0	
542	99	123	07:05:45.466	117GD105A106A4K	7STRP	0,004,-0,042026,	Slew = 0.32	4R3	4	0	4,978,789:68:0	
543	99	123	07:05:45.466	6DMSC	R7,0		DMS Control Tape runup 7.68kps	4R3	4	0	4,978,789:68:0	
544	99	123	07:05:46.866		DMS:	:*US_AT_SP	P7, TRACK 1, FWD, TIC *3064.67 +/-	4R3	4	0	4,978,789:70:1	
545	99	123	07:05:52.133		DMS:	:*US_RD	P7, TRACK 1, FWD, TIC *3065.91 +/-	4R3	4	0	4,978,789:78:0	
546	99	123	07:05:53.333		DMS:	:*RUNUP	R7, TRACK *2, REV, TIC *3065.97 +/-	4R3	4	0	4,978,789:79:8	
547	99	123	07:05:54.733		DMS:	:*AT_SPD	R7, TRACK 2, REV, TIC *3065.85 +/-	4R3	4	0	4,978,789:81:9	
548	99	123	07:06:13.466		DMS:	:*RECORD	R7, TRACK 2, REV, TIC *3061.46 +/-	4R3	4	0	4,978,790:19:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
549	99	123	07:06:36.133	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,978,790:53:0	
550	99	123	07:06:36.133		DMS:	: *RUNDOWN	R7, TRACK 2, REV, TIC *3056.15 +/-	4R3	4	0	4,978,790:53:0	
551	99	123	07:06:37.333		DMS:	: *READY	RDY, TRACK 2, REV, TIC *3056.09 +/-	4R3	4	0	4,978,790:54:8	
552	99	123	07:08:08.800	117GD105A106A4L	7STRP	-0.0018,0.042226	Slew =12.01	4R3	4	0	4,978,792:10:0	
553	99	123	07:08:20.133	117GD105A106A4M	7STRP	0.004,-0.042026,	Slew =0.32	4R3	4	0	4,978,792:27:0	
554	99	123	07:10:43.466	117GD105A106A4N	7STRP	-0.0018,0.042226	Slew =12.01	4R3	4	0	4,978,794:60:0	
555	99	123	07:10:54.800	117GD105A106A4O	7STRP	0.004,-0.042026,	Slew =0.32	4R3	4	0	4,978,794:77:0	
556	99	123	07:13:18.133	117GD105A106A4P	7STRP	-0.0018,0.042226	Slew =12.01	4R3	4	0	4,978,797:19:0	
557	99	123	07:13:29.466	117GD105A106A4Q	7STRP	0.004,-0.042026,	Slew =0.32	4R3	4	0	4,978,797:36:0	
558	99	123	07:15:52.800	117GD105A106A4R	7STRP	-0.0018,0.042226	Slew =12.01	4R3	4	0	4,978,799:69:0	
559	99	123	07:16:04.133	117GD105A106A4S	7STRP	0.004,-0.042026,	Slew =0.32	4R3	4	0	4,978,799:86:0	
560	99	123	07:18:27.466	117GD105A106A4T	7STRP	-0.0018,0.042226	Slew =12.01	4R3	4	0	4,978,802:28:0	
561	99	123	07:18:38.800	117GD105A106A4U	7STRP	0.004,-0.042026,	Slew =0.32	4R3	4	0	4,978,802:45:0	
562	99	123	07:20:09.466	50ZZ6XX	6DMSC	RDY,0	DMS Control Tape runup 7.68kps	4R3	4	0	4,978,803:90:0	
563	99	123	07:20:09.466		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC *3056.09 +/-	4R3	4	0	4,978,803:90:0	
564	99	123	07:20:10.866		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *3056.21 +/-	4R3	4	0	4,978,804:01:1	
565	99	123	07:20:16.133		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *3057.44 +/-	4R3	4	0	4,978,804:09:0	
566	99	123	07:20:17.333		DMS:	: *RUNUP	R7, TRACK *2, REV, TIC *3057.50 +/-	4R3	4	0	4,978,804:10:8	
567	99	123	07:20:18.733		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *3057.38 +/-	4R3	4	0	4,978,804:12:9	
568	99	123	07:20:37.466		DMS:	: *RECORD	R7, TRACK 2, REV, TIC *3052.99 +/-	4R3	4	0	4,978,804:41:0	
569	99	123	07:21:00.133		DMS:	: *RUNDOWN	R7, TRACK 2, REV, TIC *3047.68 +/-	4R3	4	0	4,978,804:75:0	
570	99	123	07:21:00.133	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,978,804:75:0	
571	99	123	07:21:01.333		DMS:	: *READY	RDY, TRACK 2, REV, TIC *3047.62 +/-	4R3	4	0	4,978,804:76:8	
572	99	123	07:21:02.133	117GD105A106A4V	7STRP	-0.0018,0.042226	Slew =12.01	4R3	4	0	4,978,804:78:0	
573	99	123	07:21:13.466	117GD105A106A4W	7STRP	0.004,-0.042026,	Slew =0.32	4R3	4	0	4,978,805:04:0	
574	99	123	07:23:36.800	117GD105A106A4X	7STRP	-0.0018,0.042226	Slew =12.01	4R3	4	0	4,978,807:37:0	
575	99	123	07:23:48.133	117GD105A106A4Y	7STRP	0.004,-0.042026,	Slew =0.32	4R3	4	0	4,978,807:54:0	
576	99	123	07:26:11.466	117GD105A106A4Z	7STRP	-0.0018,0.042226	Slew =12.01	4R3	4	0	4,978,809:87:0	
577	99	123	07:26:22.800	117GD105A106A4AA	7STRP	0.004,-0.042026,	Slew =0.32	4R3	4	0	4,978,810:13:0	
578	99	123	07:28:46.133	117GD105A106A4AB	7STRP	-0.0018,0.042226	Slew =12.01	4R3	4	0	4,978,812:46:0	
579	99	123	07:28:57.466	117GD105A106A4AC	7STRP	0.004,-0.042026,	Slew =0.32	4R3	4	0	4,978,812:63:0	
580	99	123	07:31:20.800	117GD105A106A4AD	7STRP	-0.0018,0.042226	Slew =12.01	4R3	4	0	4,978,815:05:0	
581	99	123	07:31:32.133	117GD105A106A4AE	7STRP	0.004,-0.042026,	Slew =0.32	4R3	4	0	4,978,815:22:0	
582	99	123	07:33:55.466	117GD105A106A4AF	7STRP	-0.0018,0.042226	Slew =12.01	4R3	4	0	4,978,817:55:0	
583	99	123	07:34:06.800	117GD105A106A4AG	7STRP	0.004,-0.042026,	Slew =0.32	4R3	4	0	4,978,817:72:0	
584	99	123	07:34:34.133	50ZZ6XX	6DMSC	RDY,0	DMS Control Tape runup 7.68kps	4R3	4	0	4,978,818:22:0	
585	99	123	07:34:34.133		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC *3047.62 +/-	4R3	4	0	4,978,818:22:0	
586	99	123	07:34:35.533		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *3047.74 +/-	4R3	4	0	4,978,818:24:1	
587	99	123	07:34:40.800		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *3048.97 +/-	4R3	4	0	4,978,818:32:0	
588	99	123	07:34:42.000		DMS:	: *RUNUP	R7, TRACK *2, REV, TIC *3049.03 +/-	4R3	4	0	4,978,818:33:8	
589	99	123	07:34:43.400		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *3048.91 +/-	4R3	4	0	4,978,818:35:9	
590	99	123	07:35:02.133		DMS:	: *RECORD	R7, TRACK 2, REV, TIC *3044.52 +/-	4R3	4	0	4,978,818:64:0	
591	99	123	07:35:24.800	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,978,819:07:0	
592	99	123	07:35:24.800		DMS:	: *RUNDOWN	R7, TRACK 2, REV, TIC *3039.21 +/-	4R3	4	0	4,978,819:07:0	
593	99	123	07:35:26.000		DMS:	: *READY	RDY, TRACK 2, REV, TIC *3039.15 +/-	4R3	4	0	4,978,819:08:8	
594	99	123	07:36:30.133	117GD105A106A4AH	7STRP	-0.0018,0.042226	Slew =12.01	4R3	4	0	4,978,820:14:0	
595	99	123	07:36:41.466	117GD105A106A4AI	7STRP	0.004,-0.042026,	Slew =0.32	4R3	4	0	4,978,820:31:0	
596	99	123	07:39:04.800	117GD105A106A4AJ	7STRP	-0.0018,0.042226	Slew =12.01	4R3	4	0	4,978,822:64:0	
597	99	123	07:39:16.133	117GD105A106A4AK	7STRP	0.004,-0.042026,	Slew =0.32	4R3	4	0	4,978,822:81:0	
598	99	123	07:41:39.466	117GD105A106A4AL	7STRP	-0.0018,0.042226	Slew =12.01	4R3	4	0	4,978,825:23:0	
599	99	123	07:41:50.800	117GD105A106A4AM	7STRP	0.004,-0.042026,	Slew =0.32	4R3	4	0	4,978,825:40:0	
600	99	123	07:44:14.133	117GD105A106A4AN	7STRP	-0.0018,0.042226	Slew =12.01	4R3	4	0	4,978,827:73:0	
601	99	123	07:44:25.466	117GD105A106A4AO	7STRP	0.004,-0.042026,	Slew =0.32	4R3	4	0	4,978,827:90:0	
602	99	123	07:46:48.800	117GD105A106A4AP	7STRP	-0.0018,0.042226	Slew =12.01	4R3	4	0	4,978,830:32:0	
603	99	123	07:47:00.133	117GD105A106A4AQ	7STRP	0.004,-0.042026,	Slew =0.32	4R3	4	0	4,978,830:49:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
604	99	123	07:48:58.800		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 3039.15 +/-	4R3	4	0	4,978,832:45:0	
605	99	123	07:48:58.800	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	4,978,832:45:0	
606	99	123	07:49:00.200		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *3039.27 +/-	4R3	4	0	4,978,832:47:1	
607	99	123	07:49:05.466		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *3040.50 +/-	4R3	4	0	4,978,832:55:0	
608	99	123	07:49:06.666		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *3040.56 +/-	4R3	4	0	4,978,832:56:8	
609	99	123	07:49:08.066		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *3040.44 +/-	4R3	4	0	4,978,832:58:9	
610	99	123	07:49:23.466	117GD105A106A4AR	7STRP	-0.0018,0.042226	Slew =12.01	4R3	4	0	4,978,832:82:0	
611	99	123	07:49:26.800		DMS:	: *RECORD	R7, TRACK 2, REV, TIC *3036.05 +/-	4R3	4	0	4,978,832:87:0	
612	99	123	07:49:34.800	117GD105A106A4AS	7STRP	0.004,-0.042026,	Slew = 0.32	4R3	4	0	4,978,833:08:0	
613	99	123	07:49:49.466	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,978,833:30:0	
614	99	123	07:49:49.466		DMS:	: *RUNDOWN	R7, TRACK 2, REV, TIC *3030.74 +/-	4R3	4	0	4,978,833:30:0	
615	99	123	07:49:50.666		DMS:	: *READY	RDY, TRACK 2, REV, TIC *3030.68 +/-	4R3	4	0	4,978,833:31:8	
616	99	123	07:51:58.133	117GD105A106A4AT	7STRP	-0.0018,0.042226	Slew =12.01	4R3	4	0	4,978,835:41:0	
617	99	123	07:52:09.466	117GD105A106A4AU	7STRP	0.004,-0.042026,	Slew = 0.32	4R3	4	0	4,978,835:58:0	
618	99	123	07:54:32.800	117GD105A106A4AV	7STRP	-0.0018,0.042226	Slew =12.01	4R3	4	0	4,978,838:00:0	
619	99	123	07:54:44.133	117GD105A106A4AW	7STRP	0.004,-0.042026,	Slew = 0.32	4R3	4	0	4,978,838:17:0	
620	99	123	07:57:07.466	117GD105A106A4AX	7STRP	-0.0018,0.042226	Slew =12.01	4R3	4	0	4,978,840:50:0	
621	99	123	07:57:18.800	117GD105A106A4AY	7STRP	0.004,-0.042026,	Slew = 0.32	4R3	4	0	4,978,840:67:0	
622	99	123	07:59:42.133	117GD105A106A4AZ	7STRP	-0.0018,0.042226	Slew =12.01	4R3	4	0	4,978,843:09:0	
623	99	123	07:59:53.466	117GD105A106A4BA	7STRP	0.004,-0.042026,	Slew = 0.32	4R3	4	0	4,978,843:26:0	
624	99	123	08:02:16.800	117GD105A106A4BB	7STRP	-0.0018,0.042226	Slew =12.01	4R3	4	0	4,978,845:59:0	
625	99	123	08:02:28.133	117GD105A106A4BC	7STRP	0.004,-0.042026,	Slew = 0.32	4R3	4	0	4,978,845:76:0	
626	99	123	08:03:23.466		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 3030.68 +/-	4R3	4	0	4,978,846:68:0	
627	99	123	08:03:23.466	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	4,978,846:68:0	
628	99	123	08:03:24.866		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *3030.80 +/-	4R3	4	0	4,978,846:70:1	
629	99	123	08:03:30.133		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *3032.03 +/-	4R3	4	0	4,978,846:78:0	
630	99	123	08:03:31.333		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *3032.09 +/-	4R3	4	0	4,978,846:79:8	
631	99	123	08:03:32.733		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *3031.97 +/-	4R3	4	0	4,978,846:81:9	
632	99	123	08:03:51.466		DMS:	: *RECORD	R7, TRACK 2, REV, TIC *3027.58 +/-	4R3	4	0	4,978,847:19:0	
633	99	123	08:04:14.133		DMS:	: *RUNDOWN	R7, TRACK 2, REV, TIC *3022.27 +/-	4R3	4	0	4,978,847:53:0	
634	99	123	08:04:14.133	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,978,847:53:0	
635	99	123	08:04:15.333		DMS:	: *READY	RDY, TRACK 2, REV, TIC *3022.21 +/-	4R3	4	0	4,978,847:54:8	
636	99	123	08:04:51.466	117GD105A106A4BD	7STRP	-0.0018,0.042226	Slew =12.01	4R3	4	0	4,978,848:18:0	
637	99	123	08:05:02.800	117GD105A106A4BE	7STRP	0.004,-0.042026,	Slew = 0.32	4R3	4	0	4,978,848:35:0	
638	99	123	08:07:26.133	117GD105A106A4BF	7STRP	-0.0018,0.042226	Slew =12.01	4R3	4	0	4,978,850:68:0	
639	99	123	08:07:37.466	117GD105A106A4BG	7STRP	0.004,-0.042026,	Slew = 0.32	4R3	4	0	4,978,850:85:0	
640	99	123	08:10:00.800	117GD105A106A4BH	7STRP	-0.0018,0.042226	Slew =12.01	4R3	4	0	4,978,853:27:0	
641	99	123	08:10:12.133	117GD105A106A4BI	7STRP	0.004,-0.042026,	Slew = 0.32	4R3	4	0	4,978,853:44:0	
642	99	123	08:12:35.466	117GD105A106A4BJ	7STRP	-0.0018,0.042226	Slew =12.01	4R3	4	0	4,978,855:77:0	
643	99	123	08:12:46.800	117GD105A106A4BK	7STRP	0.004,-0.042026,	Slew = 0.32	4R3	4	0	4,978,856:03:0	
644	99	123	08:15:10.133	117GD105A106A4BL	7STRP	-0.0018,0.042226	Slew =12.01	4R3	4	0	4,978,858:36:0	
645	99	123	08:15:21.466	117GD105A106A4BM	7STRP	0.004,-0.042026,	Slew = 0.32	4R3	4	0	4,978,858:53:0	
646	99	123	08:17:44.800	117GD105A106A4BN	7STRP	-0.0018,0.042226	Slew =12.01	4R3	4	0	4,978,860:86:0	
647	99	123	08:17:48.133		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 3022.21 +/-	4R3	4	0	4,978,861:00:0	
648	99	123	08:17:48.133	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	4,978,861:00:0	
649	99	123	08:17:49.533		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *3022.33 +/-	4R3	4	0	4,978,861:02:1	
650	99	123	08:17:54.800		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *3023.56 +/-	4R3	4	0	4,978,861:10:0	
651	99	123	08:17:56.000		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *3023.62 +/-	4R3	4	0	4,978,861:11:8	
652	99	123	08:17:56.133	117GD105A106A4BO	7STRP	0.004,-0.042026,	Slew = 0.32	4R3	4	0	4,978,861:12:0	
653	99	123	08:17:57.400		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *3019.11 +/-	4R3	4	0	4,978,861:13:9	
654	99	123	08:18:16.133		DMS:	: *RECORD	R7, TRACK 2, REV, TIC *3013.80 +/-	4R3	4	0	4,978,861:76:0	
655	99	123	08:18:38.800	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,978,861:76:0	
656	99	123	08:18:38.800		DMS:	: *RUNDOWN	R7, TRACK 2, REV, TIC *3013.80 +/-	4R3	4	0	4,978,861:76:0	
657	99	123	08:18:40.000		DMS:	: *READY	RDY, TRACK 2, REV, TIC *3013.74 +/-	4R3	4	0	4,978,861:77:8	
658	99	123	08:20:19.466	117GD105A106A4BP	7STRP	-0.0018,0.042226	Slew =12.01	4R3	4	0	4,978,863:45:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
659	99	123	08:20:30.800	117GD105A106A4BQ	7STRP	0.004,-0.042026,	Slew = 0.32	4R3	4	0	4,978,863:62:0	
660	99	123	08:22:54.133	117GD105A106A4BR	7STRP	-0.0018,0.042226	Slew = 12.01	4R3	4	0	4,978,866:04:0	
661	99	123	08:23:05.466	117GD105A106A4BS	7STRP	0.004,-0.042026,	Slew = 0.32	4R3	4	0	4,978,866:21:0	
662	99	123	08:25:28.800	117GD105A106A4BT	7STRP	-0.0018,0.042226	Slew = 12.01	4R3	4	0	4,978,868:54:0	
663	99	123	08:25:40.133	117GD105A106A4BU	7STRP	0.004,-0.042026,	Slew = 0.32	4R3	4	0	4,978,868:71:0	
664	99	123	08:28:03.466	117GD105A106A4BV	7STRP	-0.0018,0.042226	Slew = 12.01	4R3	4	0	4,978,871:13:0	
665	99	123	08:28:14.800	117GD105A106A4BW	7STRP	0.004,-0.042026,	Slew = 0.32	4R3	4	0	4,978,871:30:0	
666	99	123	08:30:38.133	117GD105A106A4BX	7STRP	-0.0018,0.042226	Slew = 12.01	4R3	4	0	4,978,873:63:0	
667	99	123	08:30:49.466	117GD105A106A4BY	7STRP	0.004,-0.042026,	Slew = 0.32	4R3	4	0	4,978,873:80:0	
668	99	123	08:32:12.133	50ZZ6XX	DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 3013.74 +/-	4R3	4	0	4,978,875:22:0	
670	99	123	08:32:13.533	50ZZ6XX	DMS:	: *US_AT_SP	DMS Control Tape runup 7.68kps	4R3	4	0	4,978,875:22:0	
671	99	123	08:32:18.800		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *3013.86 +/-	4R3	4	0	4,978,875:24:1	
672	99	123	08:32:20.000		DMS:	: *RUNUP	P7, TRACK 1, FWD, TIC *3015.10 +/-	4R3	4	0	4,978,875:32:0	
673	99	123	08:32:21.400		DMS:	: *AT_SPD	R7, TRACK *2, *REV, TIC *3015.16 +/-	4R3	4	0	4,978,875:33:8	
674	99	123	08:32:40.133		DMS:	: *RECORD	R7, TRACK 2, REV, TIC *3015.04 +/-	4R3	4	0	4,978,875:35:9	
675	99	123	08:33:02.800		DMS:	: *RUNDOWN	R7, TRACK 2, REV, TIC *3010.65 +/-	4R3	4	0	4,978,875:64:0	
676	99	123	08:33:02.800	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,978,876:07:0	
677	99	123	08:33:04.000		DMS:	: *READY	RDY, TRACK 2, REV, TIC *3005.27 +/-	4R3	4	0	4,978,876:08:8	
678	99	123	08:33:12.800	117GD105A106A4BZ	7STRP	-0.0018,0.042226	Slew = 12.01	4R3	4	0	4,978,876:22:0	
679	99	123	08:33:24.133	117GD105A106A4CA	7STRP	0.004,-0.042026,	Slew = 0.32	4R3	4	0	4,978,876:39:0	
680	99	123	08:35:47.466	117GD105A106A4CB	7STRP	-0.0018,0.042226	Slew = 12.01	4R3	4	0	4,978,878:72:0	
681	99	123	08:35:58.800	117GD105A106A4CC	7STRP	0.004,-0.042026,	Slew = 0.32	4R3	4	0	4,978,878:89:0	
682	99	123	08:38:22.133	117GD105A106A4CD	7STRP	-0.0018,0.042226	Slew = 12.01	4R3	4	0	4,978,881:31:0	
683	99	123	08:38:33.466	117GD105A106A4CE	7STRP	0.004,-0.042026,	Slew = 0.32	4R3	4	0	4,978,881:48:0	
684	99	123	08:40:56.800	117GD105A106A4CF	7STRP	-0.0018,0.042226	Slew = 12.01	4R3	4	0	4,978,883:81:0	
685	99	123	08:41:08.133	117GD105A106A4CG	7STRP	0.004,-0.042026,	Slew = 0.32	4R3	4	0	4,978,884:07:0	
686	99	123	08:43:31.466	117GD105A106A4CH	7STRP	-0.0018,0.042226	Slew = 12.01	4R3	4	0	4,978,886:40:0	
687	99	123	08:43:42.800	117GD105A106A4CI	7STRP	0.004,-0.042026,	Slew = 0.32	4R3	4	0	4,978,886:57:0	
688	99	123	08:46:06.133	117GD105A106A4CJ	7STRP	-0.0018,0.042226	Slew = 12.01	4R3	4	0	4,978,888:90:0	
689	99	123	08:46:17.466	117GD105A106A4CK	7STRP	0.004,-0.042026,	Slew = 0.32	4R3	4	0	4,978,889:16:0	
690	99	123	08:46:36.800	50ZZ6XX	6DMSC	RDY,0	DMS Control Tape runup 7.68kps	4R3	4	0	4,978,889:45:0	
691	99	123	08:46:36.800		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 3005.27 +/-	4R3	4	0	4,978,889:45:0	
692	99	123	08:46:38.200		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *3005.39 +/-	4R3	4	0	4,978,889:47:1	
693	99	123	08:46:43.466		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *3006.63 +/-	4R3	4	0	4,978,889:55:0	
694	99	123	08:46:44.666		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *3006.69 +/-	4R3	4	0	4,978,889:56:8	
695	99	123	08:46:46.066		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *3006.57 +/-	4R3	4	0	4,978,889:58:9	
696	99	123	08:47:04.800		DMS:	: *RECORD	R7, TRACK 2, REV, TIC *3002.18 +/-	4R3	4	0	4,978,889:87:0	
697	99	123	08:47:27.466	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,978,890:30:0	
698	99	123	08:47:27.466		DMS:	: *RUNDOWN	R7, TRACK 2, REV, TIC *2996.86 +/-	4R3	4	0	4,978,890:30:0	
699	99	123	08:47:28.666		DMS:	: *READY	RDY, TRACK 2, REV, TIC *2996.80 +/-	4R3	4	0	4,978,890:31:8	
700	99	123	08:48:40.800	117GD105A106A4CL	7STRP	-0.0018,0.042226	Slew = 12.01	4R3	4	0	4,978,891:49:0	
701	99	123	08:48:52.133	117GD105A106A4CM	7STRP	0.004,-0.042026,	Slew = 0.32	4R3	4	0	4,978,891:66:0	
702	99	123	08:51:15.466	117GD105A106A4CN	7STRP	-0.0018,0.042226	Slew = 12.01	4R3	4	0	4,978,894:08:0	
703	99	123	08:51:26.800	117GD105A106A4CO	7STRP	0.004,-0.042026,	Slew = 0.32	4R3	4	0	4,978,894:25:0	
704	99	123	08:53:50.133	117GD105A106A4CP	7STRP	-0.0018,0.042226	Slew = 12.01	4R3	4	0	4,978,896:58:0	
705	99	123	08:54:01.466	117GD105A106A4CQ	7STRP	0.004,-0.042026,	Slew = 0.32	4R3	4	0	4,978,896:75:0	
706	99	123	08:56:24.800	117GD105A106A4CR	7STRP	-0.0018,0.042226	Slew = 12.01	4R3	4	0	4,978,899:17:0	
707	99	123	08:56:36.133	117GD105A106A4CS	7STRP	0.004,-0.042026,	Slew = 0.32	4R3	4	0	4,978,899:34:0	
708	99	123	08:58:59.466	117GD105A106A4CT	7STRP	-0.0018,0.042226	Slew = 12.01	4R3	4	0	4,978,901:67:0	
709	99	123	08:59:10.800	117GD105A106A4CU	7STRP	0.004,-0.042026,	Slew = 0.32	4R3	4	0	4,978,901:84:0	
710	99	123	09:01:01.466	50ZZ6XX	6DMSC	RDY,0	DMS Control Tape runup 7.68kps	4R3	4	0	4,978,903:68:0	
711	99	123	09:01:01.466		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 2996.80 +/-	4R3	4	0	4,978,903:68:0	
712	99	123	09:01:02.866		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *2996.92 +/-	4R3	4	0	4,978,903:70:1	
713	99	123	09:01:08.133		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *2998.16 +/-	4R3	4	0	4,978,903:78:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
714	99	123	09:01:09.333		DMS:	: *RUNUP	R7, TRACK 2, *REV, TIC *2988.22 +/-	4R3	4	0	4,978,903:79:8	
715	99	123	09:01:10.733		DMS:	: *AT SPD	R7, TRACK 2, REV, TIC *2988.10 +/-	4R3	4	0	4,978,903:81:9	
716	99	123	09:01:29.466		DMS:	: *RECORD	R7, TRACK 2, REV, TIC *2988.71 +/-	4R3	4	0	4,978,904:19:0	
717	99	123	09:01:34.133	117GD105A106A4CV	7STRP	-0.0018,0.042226	Slew = 12.01	4R3	4	0	4,978,904:26:0	
718	99	123	09:01:45.466	117GD105A106A4CW	7STRP	0.004,-0.042026,	Slew = 0.32	4R3	4	0	4,978,904:43:0	
719	99	123	09:01:52.133	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,978,904:53:0	
720	99	123	09:01:52.133		DMS:	: *RUNDOWN	R7, TRACK 2, REV, TIC *2988.40 +/-	4R3	4	0	4,978,904:53:0	
721	99	123	09:01:53.333		DMS:	: *READY	RDY, TRACK 2, REV, TIC *2988.34 +/-	4R3	4	0	4,978,904:54:8	
722	99	123	09:04:08.800	117GD105A106A4CX	7STRP	-0.0018,0.042226	Slew = 12.01	4R3	4	0	4,978,906:76:0	
723	99	123	09:04:20.133	117GD105A106A4CY	7STRP	0.004,-0.042026,	Slew = 0.32	4R3	4	0	4,978,907:02:0	
724	99	123	09:06:43.466	117GD105A106A4CZ	7STRP	-0.0018,0.042226	Slew = 12.01	4R3	4	0	4,978,909:35:0	
725	99	123	09:06:54.800	117GD105A106A4DA	7STRP	0.004,-0.042026,	Slew = 0.32	4R3	4	0	4,978,909:52:0	
726	99	123	09:09:18.133	117GD105A106A4DB	7STRP	-0.0018,0.042226	Slew = 12.01	4R3	4	0	4,978,911:85:0	
727	99	123	09:09:29.466	117GD105A106A4DC	7STRP	0.004,-0.042026,	Slew = 0.32	4R3	4	0	4,978,912:11:0	
728	99	123	09:11:52.800	117GD105A106A4DD	7STRP	-0.0018,0.042226	Slew = 12.01	4R3	4	0	4,978,914:44:0	
729	99	123	09:12:04.133	117GD105A106A4DE	7STRP	0.004,-0.042026,	Slew = 0.32	4R3	4	0	4,978,914:61:0	
730	99	123	09:14:27.466	117GD105A106A4DF	7STRP	-0.0018,0.042226	Slew = 12.01	4R3	4	0	4,978,917:03:0	
731	99	123	09:14:38.800	117GD105A106A4DG	7STRP	0.004,-0.042026,	Slew = 0.32	4R3	4	0	4,978,917:20:0	
732	99	123	09:15:26.133		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 2988.34 +/-	4R3	4	0	4,978,918:00:0	
733	99	123	09:15:26.133	50ZZ6XX	6DMSC	RDY,0	DMS Control Tape runup 7.68kps	4R3	4	0	4,978,918:00:0	
734	99	123	09:15:27.533		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *2988.46 +/-	4R3	4	0	4,978,918:02:1	
735	99	123	09:15:32.800		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *2989.69 +/-	4R3	4	0	4,978,918:10:0	
736	99	123	09:15:34.000		DMS:	: *RUNUP	R7, TRACK *2, REV, TIC *2989.75 +/-	4R3	4	0	4,978,918:11:8	
737	99	123	09:15:35.400		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *2989.63 +/-	4R3	4	0	4,978,918:13:9	
738	99	123	09:15:54.133		DMS:	: *RECORD	R7, TRACK 2, REV, TIC *2985.24 +/-	4R3	4	0	4,978,918:42:0	
739	99	123	09:16:16.800		DMS:	: *RUNDOWN	R7, TRACK 2, REV, TIC *2979.93 +/-	4R3	4	0	4,978,918:76:0	
740	99	123	09:16:16.800	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,978,918:76:0	
741	99	123	09:16:18.000		DMS:	: *READY	RDY, TRACK 2, REV, TIC *2979.87 +/-	4R3	4	0	4,978,918:77:8	
742	99	123	09:17:02.133	117GD105A106A4DH	7STRP	-0.0018,0.042226	Slew = 12.01	4R3	4	0	4,978,919:53:0	
743	99	123	09:17:13.466	117GD105A106A4DI	7STRP	0.004,-0.042026,	Slew = 0.32	4R3	4	0	4,978,919:70:0	
744	99	123	09:19:36.800	117GD105A106A4DJ	7STRP	-0.0018,0.042226	Slew = 12.01	4R3	4	0	4,978,922:12:0	
745	99	123	09:19:48.133	117GD105A106A4DK	7STRP	0.004,-0.042026,	Slew = 0.32	4R3	4	0	4,978,922:29:0	
746	99	123	09:22:11.466	117GD105A106A4DL	7STRP	-0.0018,0.042226	Slew = 12.01	4R3	4	0	4,978,924:62:0	
747	99	123	09:22:22.800	117GD105A106A4DM	7STRP	0.004,-0.042026,	Slew = 0.32	4R3	4	0	4,978,924:79:0	
748	99	123	09:24:46.133	117GD105A106A4DN	7STRP	-0.0018,0.042226	Slew = 12.01	4R3	4	0	4,978,927:21:0	
749	99	123	09:24:57.466	117GD105A106A4DO	7STRP	0.004,-0.042026,	Slew = 0.32	4R3	4	0	4,978,927:38:0	
750	99	123	09:27:20.800	117GD105A106A4DP	7STRP	-0.0018,0.042226	Slew = 12.01	4R3	4	0	4,978,929:71:0	
751	99	123	09:27:32.133	117GD105A106A4DQ	7STRP	0.004,-0.042026,	Slew = 0.32	4R3	4	0	4,978,929:88:0	
752	99	123	09:29:50.800		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 2979.87 +/-	4R3	4	0	4,978,932:23:0	
753	99	123	09:29:50.800	50ZZ6XX	6DMSC	RDY,0	DMS Control Tape runup 7.68kps	4R3	4	0	4,978,932:23:0	
754	99	123	09:29:52.200		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *2979.99 +/-	4R3	4	0	4,978,932:25:1	
755	99	123	09:29:55.466	117GD105A106A4DR	7STRP	-0.0018,0.042226	Slew = 12.01	4R3	4	0	4,978,932:30:0	
756	99	123	09:29:57.466		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *2981.22 +/-	4R3	4	0	4,978,932:33:0	
757	99	123	09:29:58.666		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *2981.28 +/-	4R3	4	0	4,978,932:34:8	
758	99	123	09:30:00.066		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *2981.16 +/-	4R3	4	0	4,978,932:36:9	
759	99	123	09:30:06.800	117GD105A106A4DS	7STRP	0.004,-0.042026,	Slew = 0.32	4R3	4	0	4,978,932:47:0	
760	99	123	09:30:18.800		DMS:	: *RECORD	R7, TRACK 2, REV, TIC *2976.77 +/-	4R3	4	0	4,978,932:65:0	
761	99	123	09:30:41.466		DMS:	: *RUNDOWN	R7, TRACK 2, REV, TIC *2971.46 +/-	4R3	4	0	4,978,933:08:0	
762	99	123	09:30:41.466	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,978,933:08:0	
763	99	123	09:30:42.666		DMS:	: *READY	RDY, TRACK 2, REV, TIC *2971.40 +/-	4R3	4	0	4,978,933:09:8	
764	99	123	09:32:30.133	117GD105A106A4DT	7STRP	-0.0018,0.042226	Slew = 12.01	4R3	4	0	4,978,934:80:0	
765	99	123	09:32:41.466	117GD105A106A4DU	7STRP	0.004,-0.042026,	Slew = 0.32	4R3	4	0	4,978,935:06:0	
766	99	123	09:35:04.800	117GD105A106A4DV	7STRP	-0.0018,0.042226	Slew = 12.01	4R3	4	0	4,978,937:39:0	
767	99	123	09:35:16.133	117GD105A106A4DW	7STRP	0.004,-0.042026,	Slew = 0.32	4R3	4	0	4,978,937:56:0	
768	99	123	09:37:39.466	117GD105A106A4DX	7STRP	-0.0018,0.042226	Slew = 12.01	4R3	4	0	4,978,939:89:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
769	99	123	09:37:50.800	117GD105A106A4DY	7STRP	0.004,-0.042026,	Slew = 0.32	4R3	4	0	4,978,940:	15:0
770	99	123	09:40:14.133	117GD105A106A4DZ	7STRP	-0.0018,0.042226	Slew = 12.01	4R3	4	0	4,978,942:	48:0
771	99	123	09:40:25.466	117GD105A106A4EA	7STRP	0.004,-0.042026,	Slew = 0.32	4R3	4	0	4,978,942:	65:0
772	99	123	09:42:48.800	117GD105A106A4EB	7STRP	-0.0018,0.042226	Slew = 12.01	4R3	4	0	4,978,945:	07:0
773	99	123	09:43:00.133	117GD105A106A4EC	7STRP	0.004,-0.042026,	Slew = 0.32	4R3	4	0	4,978,945:	24:0
774	99	123	09:44:14.800	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	4,978,946:	45:0
775	99	123	09:44:14.800		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 2971.40 +/-	4R3	4	0	4,978,946:	45:0
776	99	123	09:44:16.200		DMS:	: *US AT SP	P7, TRACK 1, FWD, TIC *2971.52 +/-	4R3	4	0	4,978,946:	47:1
777	99	123	09:44:21.466		DMS:	: *US RD	P7, TRACK 1, FWD, TIC *2972.75 +/-	4R3	4	0	4,978,946:	55:0
778	99	123	09:44:22.666		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *2972.81 +/-	4R3	4	0	4,978,946:	56:8
779	99	123	09:44:24.066		DMS:	: *AT SPD	R7, TRACK 2, REV, TIC *2972.69 +/-	4R3	4	0	4,978,946:	58:9
780	99	123	09:44:42.800		DMS:	: *RECORD	R7, TRACK 2, REV, TIC *2968.30 +/-	4R3	4	0	4,978,946:	87:0
781	99	123	09:45:05.466	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,978,947:	30:0
782	99	123	09:45:05.466		DMS:	: *RUNDOWN	R7, TRACK 2, REV, TIC *2962.99 +/-	4R3	4	0	4,978,947:	30:0
783	99	123	09:45:06.666		DMS:	: *READY	RDY, TRACK 2, REV, TIC *2962.93 +/-	4R3	4	0	4,978,947:	31:8
784	99	123	09:45:23.466	117GD105A106A4ED	7STRP	-0.0018,0.042226	Slew = 12.01	4R3	4	0	4,978,947:	57:0
785	99	123	09:45:34.800	117GD105A106A4EE	7STRP	0.004,-0.042026,	Slew = 0.32	4R3	4	0	4,978,947:	74:0
786	99	123	09:47:58.133	117GD105A106A4EF	7STRP	-0.0018,0.042226	Slew = 12.01	4R3	4	0	4,978,950:	16:0
787	99	123	09:48:09.466	117GD105A106A4EG	7STRP	0.004,-0.042026,	Slew = 0.32	4R3	4	0	4,978,950:	33:0
788	99	123	09:50:32.800	117GD105A106A4EH	7STRP	-0.0018,0.042226	Slew = 12.01	4R3	4	0	4,978,952:	66:0
789	99	123	09:50:44.133	117GD105A106A4EI	7STRP	0.004,-0.042026,	Slew = 0.32	4R3	4	0	4,978,952:	83:0
790	99	123	09:53:07.466	117GD105A106A4EJ	7STRP	-0.0018,0.042226	Slew = 12.01	4R3	4	0	4,978,955:	25:0
791	99	123	09:53:18.800	117GD105A106A4EK	7STRP	0.004,-0.042026,	Slew = 0.32	4R3	4	0	4,978,955:	42:0
792	99	123	09:55:42.133	117GD105A106A4EL	7STRP	-0.0018,0.042226	Slew = 12.01	4R3	4	0	4,978,957:	75:0
793	99	123	09:55:53.466	117GD105A106A4EM	7STRP	0.004,-0.042026,	Slew = 0.32	4R3	4	0	4,978,958:	01:0
794	99	123	09:56:57.467	20NNGRWAKE01-		-----START-----		4R3	4	0	:	:
795	99	123	09:57:11.466	20DC5A	37PL		Program Load (halts microprocessor & unwri	4R3	4	0	4,978,959:	27:0
796	99	123	09:57:12.800	20DC5B	37MRL		Memory Realocate (software operates from R	4R3	4	0	4,978,959:	29:0
797	99	123	09:57:14.133	20DC6A	6MCOPI	NIMS	NIMS,1000,LLM1A,7300,77F7	4R3	4	0	4,978,959:	31:0
798	99	123	09:57:24.133	20DC6B	6MCOPI	NIMS	NIMS,1598,LLM1A,77F8,781D	4R3	4	0	4,978,959:	46:0
799	99	123	09:57:34.133	20DC5C	37IRT		Instrument Reset (goes into POR state)	260	4	0	4,978,959:	61:0
800	99	123	09:57:54.133	20DC5D	37MN		Memory Normal (software operates from ROM)	260	4	0	4,978,960:	00:0
801	99	123	09:58:09.466	20DC4A	37IST	1,2,0,OFF,0,0,0	Chopper ON, Sync, Chopper (Ref)	2R0	4	0	4,978,960:	23:0
802	99	123	09:58:16.800	117GD11A	CSMOS	GE	***** GROUP END CSMOS	2R0	4	0	4,978,960:	34:0
803	99	123	09:58:39.466		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 2962.93 +/-	2R0	4	0	4,978,960:	68:0
804	99	123	09:58:39.466	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R0	4	0	4,978,960:	68:0
805	99	123	09:58:40.866		DMS:	: *US AT SP	P7, TRACK 1, FWD, TIC *2963.05 +/-	2R0	4	0	4,978,960:	70:1
806	99	123	09:58:46.133		DMS:	: *US RD	P7, TRACK 1, FWD, TIC *2964.28 +/-	2R0	4	0	4,978,960:	78:0
807	99	123	09:58:47.333		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *2964.34 +/-	2R0	4	0	4,978,960:	79:8
808	99	123	09:58:48.733		DMS:	: *AT SPD	R7, TRACK 2, REV, TIC *2964.22 +/-	2R0	4	0	4,978,960:	81:9
809	99	123	09:58:58.800	20JNGRWAKE01-		-----START-----		2R0	4	0	:	:
810	99	123	09:58:58.800	20NNGRWAKE01-		-----STOP-----		2R0	4	0	:	:
811	99	123	09:59:07.466		DMS:	: *RECORD	R7, TRACK 2, REV, TIC *2959.83 +/-	2R0	4	0	4,978,961:	19:0
812	99	123	09:59:24.800	176GD6B	6TMREC	NRC	NO RECORD Record Mode Change	2R0	4	0	4,978,961:	45:0
813	99	123	09:59:26.800	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R0	4	0	4,978,961:	48:0
814	99	123	09:59:30.133		DMS:	: *RUNDOWN	R7, TRACK 2, REV, TIC *2954.52 +/-	2R0	4	0	4,978,961:	53:0
815	99	123	09:59:30.133	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R0	4	0	4,978,961:	53:0
816	99	123	09:59:31.333		DMS:	: *READY	RDY, TRACK 2, REV, TIC *2954.46 +/-	2R0	4	0	4,978,961:	54:8
817	99	123	09:59:36.800		DMS:	: *RECORD	RDY, TRACK 2, REV, TIC *2953.18 +/-	2R0	4	0	4,978,961:	63:0
818	99	123	09:59:46.133	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R0	4	0	4,978,961:	77:0
819	99	123	09:59:54.800	165DC4A	7SCAN	NORM,319,378998,	DMS Control Tape stop	2R0	4	0	4,978,961:	90:0
820	99	123	10:01:52.133	125DC4A	37IST	0,2,0,OFF,0,1,1	Gain State 4	4R0	4	0	4,978,963:	84:0
821	99	123	10:01:52.133	125DC	NIMSINIT	GS	##### GROUP START INIT	4R0	4	0	4,978,963:	84:0
822	99	123	10:01:52.133	125DC11A	NIMSINIT	GE	##### GROUP END INIT	4R0	4	0	4,978,963:	84:0
823	99	123	10:02:52.800	127DC4A	37IOP	3,0	Long Map, Grating Start Position =00	4R3	4	0	4,978,964:	84:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
824	99	123	10:02:52.800	127DC	NIMSTAB	GS	%%%%% GROUP START TAB	4R3	4	0	4,978,964:84:0	
825	99	123	10:02:53.466	127DC4B	37ETB	0A,CA,16,05,FF,1	Loads wavelength edit table	4R3	4	0	4,978,964:85:0	
826	99	123	10:03:01.466	127DC11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	4,978,965:06:0	
827	99	123	10:03:46.133	175DC422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	4,978,965:73:0	
828	99	123	10:03:46.133		DMS:	:*US-RUNUP	P7, TRACK *1, *FWD, TIC *2953.18 +/-	4R3	4	0	4,978,965:73:0	
829	99	123	10:03:47.533		DMS:	:*US_AT_SP	P7, TRACK 1, FWD, TIC *2953.30 +/-	4R3	4	0	4,978,965:75:1	
830	99	123	10:03:48.800	117DC	CSMOS	GS	**** GROUP START CSMOS	4R3	4	0	4,978,965:77:0	
831	99	123	10:03:52.800		DMS:	:*US_RD	P7, TRACK 1, FWD, TIC *2954.53 +/-	4R3	4	0	4,978,965:83:0	
832	99	123	10:03:54.000		DMS:	:*RUNUP	P7, TRACK *2, *REV, TIC *2954.59 +/-	4R3	4	0	4,978,965:84:8	
833	99	123	10:03:54.800	175DC176A6A	6TMREC	LPU	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	4R3	4	0	4,978,965:86:0	
834	99	123	10:03:55.400		DMS:	:*RECORD	R7, TRACK 2, REV, TIC *2954.47 +/-	4R3	4	0	4,978,965:86:9	
835	99	123	10:03:55.400		DMS:	:*AT_SPD	R7, TRACK 2, REV, TIC 2954.47 +/-	4R3	4	0	4,978,965:86:9	
836	99	123	10:03:58.133	117DC105A106A4A	7STRP	-0.018002,0.0,0.0,	Slew =.0.03	4R3	4	0	4,978,966:00:0	
837	99	123	10:06:14.800	20JNGRWAKE01-	NIMPBK	301DC	JUPITER GRA WAKE OBS	4R3	4	0	:	
838	99	123	10:13:40.800	20JNGRWAKE01-	DESELC	300DC	JUPITER GRS WAKE OBS	4R3	4	0	:	
839	99	123	10:13:50.800	175DC422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,978,975:70:0	
840	99	123	10:13:50.800	175DC6A	6TMREC	NRC	NO RECORD Record Mode Change	4R3	4	0	4,978,975:70:0	
841	99	123	10:13:50.800		DMS:	:*RUNDOWN	R7, TRACK 2, REV, TIC *2814.93 +/-	4R3	4	0	4,978,975:70:0	
842	99	123	10:13:52.000		DMS:	:*READY	RDY, TRACK 2, REV, TIC *2814.87 +/-	4R3	4	0	4,978,975:71:8	
843	99	123	10:14:04.800	117DC11A	CSMOS	GE	**** GROUP END CSMOS	4R3	4	0	4,978,976:00:0	
844	99	123	10:19:12.134	20JNGRWAKE01-			-----STOP-----	4R3	4	0	:	
845	99	123	10:57:37.467	20NNHOTMAP01-			-----START-----	4R3	4	0	:	
846	99	123	10:58:52.133	20DD5A	37PL		Program Load (halts microprocessor & unwri	4R3	4	0	4,979,020:27:0	
847	99	123	10:58:53.466	20DD5B	37MRL		Memory Realocate (software operates from R	4R3	4	0	4,979,020:29:0	
848	99	123	10:58:54.800	20DD6A	6MCOPI	NIMS	NIMS,1000,LLM1A,7300,77F7	4R3	4	0	4,979,020:31:0	
849	99	123	10:59:04.800	20DD6B	6MCOPI	NIMS	NIMS,1598,LLM1A,77F8,781D	4R3	4	0	4,979,020:46:0	
850	99	123	10:59:14.800	20DD5C	37IRT		Instrument Reset (goes into POR state)	260	4	0	4,979,020:61:0	
851	99	123	10:59:34.800	20DD5D	37MN		Memory Normal (software operates from ROM)	260	4	0	4,979,021:00:0	
852	99	123	10:59:38.800	20NNHOTMAP01-			-----STOP-----	260	4	0	:	
853	99	123	10:59:50.133	20DD4A	37IST	1,2,0,OFF,0,0,0	Chopper ON, Sync, Chopper (Ref)	2R0	4	0	4,979,021:23:0	
854	99	123	11:00:34.800	165DD4A	7SCAN	NORM,324.059998,	Check S/P Position	2R0	4	0	4,979,021:90:0	
855	99	123	11:00:39.467	20JNHOTMAP01-			-----START-----	2R0	4	0	:	
856	99	123	11:02:32.133	125DD4A	37IST	0,2,0,OFF,0,1,1	Gain State 4	4R0	4	0	4,979,023:84:0	
857	99	123	11:02:32.133	125DD	NIMSINIT	GS	##### GROUP START INIT	4R0	4	0	4,979,023:84:0	
858	99	123	11:02:32.133	125DD11A	NIMSINIT	GE	##### GROUP END INIT	4R0	4	0	4,979,023:84:0	
859	99	123	11:04:26.133	175DD422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R0	4	0	4,979,025:73:0	
860	99	123	11:04:26.133		DMS:	:*US-RUNUP	P7, TRACK *1, *FWD, TIC *2814.87 +/-	4R0	4	0	4,979,025:73:0	
861	99	123	11:04:27.533		DMS:	:*US_AT_SP	P7, TRACK 1, FWD, TIC *2814.99 +/-	4R0	4	0	4,979,025:75:1	
862	99	123	11:04:28.800	117DD	CSMOS	GS	**** GROUP START CSMOS	4R0	4	0	4,979,025:77:0	
863	99	123	11:04:32.800		DMS:	:*US_RD	P7, TRACK 1, FWD, TIC *2816.22 +/-	4R0	4	0	4,979,025:83:0	
864	99	123	11:04:33.466	127DD4A	37IOP	3,0	Long Map, Grating Start Position =00	4R3	4	0	4,979,025:84:0	
865	99	123	11:04:33.466	127DD	NIMSTAB	GS	%%%%% GROUP START TAB	4R3	4	0	4,979,025:84:0	
866	99	123	11:04:34.000		DMS:	:*RUNUP	R7, TRACK *2, *REV, TIC *2816.28 +/-	4R3	4	0	4,979,025:84:8	
867	99	123	11:04:34.133	127DD4B	37ETB	0A,CA,16,05,FF,1	Loads wavelength edit table	4R3	4	0	4,979,025:85:0	
868	99	123	11:04:34.800	175DD176A6A	6TMREC	LPU	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	4R3	4	0	4,979,025:86:0	
869	99	123	11:04:35.400		DMS:	:*RECORD	R7, TRACK 2, REV, TIC *2816.16 +/-	4R3	4	0	4,979,025:86:9	
870	99	123	11:04:35.400		DMS:	:*AT_SPD	R7, TRACK 2, REV, TIC 2816.16 +/-	4R3	4	0	4,979,025:86:9	
871	99	123	11:04:38.133	117DD105A106A4A	7STRP	-0.013401,0.0,0.0,	Slew =.0.03	4R3	4	0	4,979,026:00:0	
872	99	123	11:04:42.133	127DD11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	4,979,026:06:0	
873	99	123	11:12:06.133	117DD105A106A4B	7STRP	0.025005,-0.006,	Slew =12.01	4R3	4	0	4,979,026:06:0	
874	99	123	11:12:17.466	20JNHOTMAP01-	NIMPBK	301DD	JUPITER HOT MAP OBS	4R3	4	0	:	
875	99	123	11:12:19.466	117DD105A106A4C	7STRP	-0.013401,0.0,0.0,	Slew =.0.03	4R3	4	0	4,979,033:55:0	
876	99	123	11:14:26.133	20JNHOTMAP01-	NIMPBK	301EE	JUPITER HOT MAP OBS	4R3	4	0	:	
877	99	123	11:14:48.133	20JNHOTMAP01-	DESELC	300EE	JUPITER HOT MAP OBS	4R3	4	0	:	
878	99	123	11:19:20.800	20JNHOTMAP01-	DESELC	300DD	JUPITER HOT MAP OBS	4R3	4	0	:	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
879	99	123	11:19:30.800		DMS:	:*RUNDOWN	R7, TRACK 2, REV, TIC *2606.30 +/-	4R3	4	0	4,979,040:65:0	
880	99	123	11:19:30.800	175DD422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,979,040:65:0	
881	99	123	11:19:30.800	175DD6A	6TMREC	NRC	NO RECORD Record Mode Change	4R3	4	0	4,979,040:65:0	
882	99	123	11:19:32.000		DMS:	:*READY	RDY, TRACK 2, REV, TIC *2606.24 +/-	4R3	4	0	4,979,040:66:8	
883	99	123	11:19:47.466	165DE4A	7SCAN	NORM,322.014999,	Check S/P Position	4R3	4	0	4,979,040:90:0	
884	99	123	11:19:47.466	117DD11A	CSMOS	GE	***** GROUP END CSMOS	4R3	4	0	4,979,040:90:0	
885	99	123	11:19:52.134	20JNGRWAKE02-		*****START*****		4R3	4	0	:	
886	99	123	11:19:52.134	20JNHOTMAP01-		*****STOP*****		4R3	4	0	:	
887	99	123	11:21:44.800	125DE	NIMSINIT	GS	##### GROUP START INIT	4R3	4	0	4,979,042:84:0	
888	99	123	11:21:44.800	125DE4A	37IST	0,2,0,OFF,0,1,0	Gain State 2	2R3	4	0	4,979,042:84:0	
889	99	123	11:21:44.800	125DE11A	NIMSINIT	GE	##### GROUP END INIT	2R3	4	0	4,979,042:84:0	
890	99	123	11:23:38.800		DMS:	:*US-RUNUP	P7, TRACK *1, *FWD, TIC 2606.24 +/-	2R3	4	0	4,979,044:73:0	
891	99	123	11:23:38.800	175DE422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	4,979,044:73:0	
892	99	123	11:23:40.200		DMS:	:*US_AT_SP	P7, TRACK 1, FWD, TIC *2606.36 +/-	2R3	4	0	4,979,044:75:1	
893	99	123	11:23:41.466	117DE	CSMOS	GS	***** GROUP START CSMOS	2R3	4	0	4,979,044:77:0	
894	99	123	11:23:45.466		DMS:	:*US_RD	P7, TRACK 1, FWD, TIC *2607.60 +/-	2R3	4	0	4,979,044:83:0	
895	99	123	11:23:46.133	127DE	NIMSTAB	GS	%%%%%%%%% GROUP START TAB	2R3	4	0	4,979,044:84:0	
896	99	123	11:23:46.133	127DE4A	37IOP	3,0	Long Map, Grating Start Position =00	2R3	4	0	4,979,044:84:0	
897	99	123	11:23:46.666		DMS:	:*RUNUP	R7, TRACK *2, *REV, TIC *2607.66 +/-	2R3	4	0	4,979,044:84:8	
898	99	123	11:23:47.466	175DE176A6A	6TMREC	LPU	Loads wavelength edit table	2R3	4	0	4,979,044:86:0	
900	99	123	11:23:48.066		DMS:	:*RECORD	7.68 KBPS NIMS-JVS-PPR RECORD Record Mode	2R3	4	0	4,979,044:86:0	
901	99	123	11:23:48.066		DMS:	:*AT_SPD	R7, TRACK 2, REV, TIC 2607.54 +/-	2R3	4	0	4,979,044:86:9	
902	99	123	11:23:50.800	117DE105A106A4A	75TRP	-0.018002,0,0,0,	Slew = 0.03	2R3	4	0	4,979,045:00:0	
903	99	123	11:23:54.800	127DE11A	NIMSTAB	GE	%%%%%%%%% GROUP END TAB	2R3	4	0	4,979,045:06:0	
904	99	123	11:26:26.133	20JNGRWAKE02-	NIMPBK	301DE	JUPITER GRS WAKE OBS	2R3	4	0	:	
905	99	123	11:33:33.466	20JNGRWAKE02-	DESEL	300DE	JUPITER GRS WAKE OBS	2R3	4	0	:	
906	99	123	11:33:43.466	175DE422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,979,054:70:0	
907	99	123	11:33:43.466	175DE6A	6TMREC	NRC	NO RECORD Record Mode Change	2R3	4	0	4,979,054:70:0	
908	99	123	11:33:43.466		DMS:	:*RUNDOWN	R7, TRACK 2, REV, TIC *2467.99 +/-	2R3	4	0	4,979,054:70:0	
909	99	123	11:33:44.666		DMS:	:*READY	RDY, TRACK 2, REV, TIC *2467.93 +/-	2R3	4	0	4,979,054:71:8	
910	99	123	11:33:57.466	117DE11A	CSMOS	GE	***** GROUP END CSMOS	2R3	4	0	4,979,055:00:0	
911	99	123	11:39:04.800	20JNGRWAKE02-		*****STOP*****		2R3	4	0	:	
912	99	123	11:45:07.466	488AC6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	2R3	4	0	4,979,066:04:0	
913	99	123	11:54:14.800	20NNGRWAKE03-		*****START*****		2R3	4	0	:	
914	99	123	11:55:29.466	20DF5A	37PL		Program Load (halts microprocessor & unwri	2R3	4	0	4,979,076:27:0	
915	99	123	11:55:30.800	20DF5B	37MRL		Memory Realocate (software operates from R	2R3	4	0	4,979,076:29:0	
916	99	123	11:55:32.133	20DF6A	6MCPY	NIMS	NIMS,1000,LLM1A,7300,77F7	2R3	4	0	4,979,076:31:0	
917	99	123	11:55:42.133	20DF6B	6MCPY	NIMS	NIMS,1598,LLM1A,77F8,781D	2R3	4	0	4,979,076:46:0	
918	99	123	11:55:52.133	20DF5C	37IRT		Instrument Reset (goes into POR state)	260	4	0	4,979,076:61:0	
919	99	123	11:56:12.133	20DF5D	37MN		Memory Normal (software operates from ROM)	260	4	0	4,979,077:00:0	
920	99	123	11:56:27.466	20DF4A	37IST	1,2,0,OFF,0,0,0	Chopper ON, Sync, Chopper (Ref)	2R0	4	0	4,979,077:23:0	
921	99	123	11:57:12.133	165DF4A	7SCAN	NORM,322.448997,	Check S/P Position	2R0	4	0	4,979,077:90:0	
922	99	123	11:57:16.800	20NNGRWAKE03-		*****STOP*****		2R0	4	0	:	
923	99	123	11:57:16.800	20JNGRWAKE03-		*****START*****		2R0	4	0	:	
924	99	123	11:58:08.800	125DF	NIMSINIT	GS	##### GROUP START INIT	2R0	4	0	4,979,078:84:0	
925	99	123	11:58:08.800	125DF4A	37IST	0,2,0,OFF,0,1,0	Gain State 2	2R0	4	0	4,979,078:84:0	
926	99	123	11:58:08.800	125DF11A	NIMSINIT	GE	##### GROUP END INIT	2R0	4	0	4,979,078:84:0	
927	99	123	12:00:10.133	127DF4A	37IOP	3,0	Long Map, Grating Start Position =00	2R3	4	0	4,979,080:84:0	
928	99	123	12:00:10.133	127DF	NIMSTAB	GS	%%%%%%%%% GROUP START TAB	2R3	4	0	4,979,080:84:0	
929	99	123	12:00:10.800	127DF4B	37ETB		Loads wavelength edit table	2R3	4	0	4,979,080:85:0	
930	99	123	12:00:18.800	127DF11A	NIMSTAB	GE	%%%%%%%%% GROUP END TAB	2R3	4	0	4,979,081:06:0	
931	99	123	12:01:03.466	175DF422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	4,979,081:73:0	
932	99	123	12:01:03.466		DMS:	:*US-RUNUP	P7, TRACK *1, *FWD, TIC 2467.93 +/-	2R3	4	0	4,979,081:73:0	
933	99	123	12:01:04.866		DMS:	:*US_AT_SP	P7, TRACK 1, FWD, TIC *2468.05 +/-	2R3	4	0	4,979,081:75:1	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
934	99	123	12:01:06.133	117DF	CSMOS	GS	**** GROUP START CSMOS	2R3	4	0	4,979,081:77:0	
935	99	123	12:01:10.133		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *2469.28 +/-	2R3	4	0	4,979,081:83:0	
936	99	123	12:01:11.333		DMS:	: *RUNUP	R7, TRACK *2, REV, TIC *2469.34 +/-	2R3	4	0	4,979,081:84:8	
937	99	123	12:01:12.133	175DF176A6A	6TMREC	LPU	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R3	4	0	4,979,081:86:0	
938	99	123	12:01:12.733		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *2469.22 +/-	2R3	4	0	4,979,081:86:9	
939	99	123	12:01:12.733		DMS:	: *RECORD	R7, TRACK 2, REV, TIC *2469.22 +/-	2R3	4	0	4,979,081:86:9	
940	99	123	12:01:15.466	20JNGRWAKE03-	NIMPBK	301DF	JUPITER GRA WAKE OBS	2R3	4	0	:	
941	99	123	12:01:15.466	117DF105A106A4A	7STRP	-0.018002,0.0,0.0,	Slew =,0.03	2R3	4	0	4,979,082:00:0	
942	99	123	12:02:40.133	20JNGRWAKE03-	NIMPBK	301EF	JUPITER GRA WAKE OBS	2R3	4	0	:	
943	99	123	12:04:24.133	20JNGRWAKE03-	DESELC	300EF	JUPITER GRS WAKE OBS	2R3	4	0	:	
944	99	123	12:04:42.133	20JNGRWAKE03-	NIMPBK	301EG	JUPITER GRA WAKE OBS	2R3	4	0	:	
945	99	123	12:04:56.133	20JNGRWAKE03-	DESELC	300EG	JUPITER GRS WAKE OBS	2R3	4	0	:	
946	99	123	12:05:16.133	20JNGRWAKE03-	NIMPBK	301EH	JUPITER GRA WAKE OBS	2R3	4	0	:	
947	99	123	12:05:44.133	20JNGRWAKE03-	DESELC	300EH	JUPITER GRS WAKE OBS	2R3	4	0	:	
948	99	123	12:06:42.133	20JNGRWAKE03-	NIMPBK	301EI	JUPITER GRA WAKE OBS	2R3	4	0	:	
949	99	123	12:07:06.133	20JNGRWAKE03-	DESELC	300EI	JUPITER GRS WAKE OBS	2R3	4	0	:	
950	99	123	12:10:58.133	20JNGRWAKE03-	DESELC	300DF	JUPITER GRS WAKE OBS	2R3	4	0	:	
951	99	123	12:11:08.133		DMS:	: *RUNDOWN	R7, TRACK 2, REV, TIC *2329.68 +/-	2R3	4	0	4,979,091:70:0	
952	99	123	12:11:08.133	175DF6A	6TMREC	NRC	NO RECORD Record Mode Change	2R3	4	0	4,979,091:70:0	
953	99	123	12:11:08.133	175DF422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,979,091:70:0	
954	99	123	12:11:09.333		DMS:	: *READY	RDY, TRACK 2, REV, TIC *2329.62 +/-	2R3	4	0	4,979,091:71:8	
955	99	123	12:11:22.133	117DF11A	CSMOS	GE	**** GROUP END CSMOS	2R3	4	0	4,979,092:00:0	
956	99	123	12:12:26.800	20JNGRWAKE03-	-----STOP	-----		2R3	4	0	:	
957	99	123	12:17:07.466	488AD6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2R3	4	0	4,979,097:63:0	
958	99	123	12:30:38.800	20NHNHOTMAP02-	-----START	-----		2R3	4	0	:	
959	99	123	12:31:53.466	20DG5A	37PL		Program Load (halts microprocessor & unwri	2R3	4	0	4,979,112:27:0	
960	99	123	12:31:54.800	20DG5B	37MRL		Memory Realocate (software operates from R	2R3	4	0	4,979,112:29:0	
961	99	123	12:31:56.133	20DG6A	6MCPY	NIMS	NIMS,1000,LLM1A,7300,77F7	2R3	4	0	4,979,112:31:0	
962	99	123	12:32:06.133	20DG6B	6MCPY	NIMS	NIMS,1598,LLM1A,77F8,781D	2R3	4	0	4,979,112:46:0	
963	99	123	12:32:16.133	20DG5C	37IRT		Instrument Reset (goes into POR state)	260	4	0	4,979,112:61:0	
964	99	123	12:32:36.133	20DG5D	37MNI		Memory Normal (software operates from ROM)	260	4	0	4,979,113:00:0	
965	99	123	12:32:51.466	20DG4A	37IST	1,2,0,OFF,0,0,0	Chopper ON, Sync, Chopper (Ref)	2R0	4	0	4,979,113:23:0	
966	99	123	12:33:40.800	20NHNHOTMAP02-	-----STOP	-----		2R0	4	0	:	
967	99	123	12:35:37.466	165DG4A	7SCAN	NORM,328,247997,	Check S/P Position	2R0	4	0	4,979,115:90:0	
968	99	123	12:35:42.134	20JNHNHOTMAP02-	-----START	-----		2R0	4	0	:	
969	99	123	12:36:34.133	125DG	NIMSINIT	GS	##### GROUP START INIT	2R0	4	0	4,979,116:84:0	
970	99	123	12:36:34.133	125DG4A	37IST	0,2,0,OFF,0,1,0	Gain State 2	2R0	4	0	4,979,116:84:0	
971	99	123	12:36:34.133	125DG11A	NIMSINIT	GE	##### GROUP END INIT	2R0	4	0	4,979,116:84:0	
972	99	123	12:38:35.466	127DG	NIMSTAB	GS	%%%% GROUP START TAB	2R0	4	0	4,979,118:84:0	
973	99	123	12:38:35.466	127DG4A	37IOP	3,0	Long Map, Grating Start Position =00	2R3	4	0	4,979,118:84:0	
974	99	123	12:38:36.133	127DG4B	37ETB		Loads wavelength edit table	2R3	4	0	4,979,118:85:0	
975	99	123	12:38:44.133	127DG11A	NIMSTAB	GE	%%%% GROUP END TAB	2R3	4	0	4,979,119:06:0	
976	99	123	12:39:28.800		DMS:	: *US-RUNUP	P7, TRACK *1, FWD, TIC 2329.62 +/-	2R3	4	0	4,979,119:73:0	
977	99	123	12:39:28.800	175DG422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	4,979,119:73:0	
978	99	123	12:39:30.200		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *2329.74 +/-	2R3	4	0	4,979,119:75:1	
979	99	123	12:39:31.466	117DG	CSMOS	GS	**** GROUP START CSMOS	2R3	4	0	4,979,119:77:0	
980	99	123	12:39:35.466		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *2330.97 +/-	2R3	4	0	4,979,119:83:0	
981	99	123	12:39:36.666		DMS:	: *RUNUP	R7, TRACK *2, REV, TIC *2331.03 +/-	2R3	4	0	4,979,119:84:8	
982	99	123	12:39:37.466	175DG176A6A	6TMREC	LPU	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R3	4	0	4,979,119:86:0	
983	99	123	12:39:38.066		DMS:	: *RECORD	R7, TRACK 2, REV, TIC *2330.91 +/-	2R3	4	0	4,979,119:86:9	
984	99	123	12:39:38.066		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC 2330.91 +/-	2R3	4	0	4,979,119:86:9	
985	99	123	12:39:40.800	117DG105A106A4A	7STRP	-0.013401,0.0,0.0,	Slew =,0.03	2R3	4	0	4,979,120:00:0	
986	99	123	12:47:08.800	117DG105A106A4B	7STRP	0.026506,-0.006,	Slew =12.01	2R3	4	0	4,979,127:35:0	
987	99	123	12:47:20.133	20JNHNHOTMAP02-	NIMPBK	301DG	JUPITER HOT MAP OBS	2R3	4	0	:	
988	99	123	12:47:22.133	117DG105A106A4C	7STRP	-0.013401,0.0,0.0,	Slew =,0.03	2R3	4	0	4,979,127:55:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
989	99	123	12:54:23.466	20JNHOTMAP02-175D6A	DESEL	300DG	JUPITER HOT MAP OBS	2R3	4	0	:	
990	99	123	12:54:33.466	175D6A	6TMREC	NRC	NO RECORD Record Mode Change	2R3	4	0	:	4,979,134:65:0
991	99	123	12:54:33.466	175D6A22A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	:	4,979,134:65:0
992	99	123	12:54:33.466		DMS:	:*RUNDOWN	R7, TRACK 2, REV, TIC *2121.05 +/-	2R3	4	0	:	4,979,134:65:0
993	99	123	12:54:34.666		DMS:	:*READY	RDY, TRACK 2, REV, TIC *2120.99 +/-	2R3	4	0	:	4,979,134:66:8
994	99	123	12:54:50.133	117DG11A	CSMOS	GE	***** GROUP END CSMOS	2R3	4	0	:	4,979,134:90:0
995	99	123	12:54:54.800	20JNHOTMAP02-165GE4A	*****STOP			2R3	4	0	:	
996	99	123	12:55:50.800	165GE4A	7SCAN	NORM,330.911999,	Check S/P Position	2R3	4	0	:	4,979,135:90:0
997	99	123	12:58:53.466	176GE6A	6TMREC	BPT	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R3	4	0	:	4,979,139:00:0
998	99	123	12:59:44.800	117GE	CSMOS	GS	***** GROUP START CSMOS	2R3	4	0	:	4,979,139:77:0
999	99	123	12:59:54.133	117GE105A106A4A	7STRP	0.005,-0.050072,	Slew = 0.41	2R3	4	0	:	4,979,140:00:0
1000	99	123	13:03:25.466	117GE105A106A4B	7STRP	-0.00075,0.05062	Slew = 12.01	2R3	4	0	:	4,979,143:44:0
1001	99	123	13:03:39.466	117GE105A106A4C	7STRP	0.005,-0.050072,	Slew = 0.41	2R3	4	0	:	4,979,143:65:0
1002	99	123	13:07:10.800	117GE105A106A4D	7STRP	-0.00075,0.05062	Slew = 12.01	2R3	4	0	:	4,979,147:18:0
1003	99	123	13:07:24.800	117GE105A106A4E	7STRP	0.005,-0.050072,	Slew = 0.41	2R3	4	0	:	4,979,147:39:0
1004	99	123	13:08:19.466	488AD6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2R3	4	0	:	4,979,148:30:0
1005	99	123	13:10:56.133	117GE105A106A4F	7STRP	-0.00075,0.05062	Slew = 12.01	2R3	4	0	:	4,979,150:83:0
1006	99	123	13:11:10.133	117GE105A106A4G	7STRP	0.005,-0.050072,	Slew = 0.41	2R3	4	0	:	4,979,151:13:0
1007	99	123	13:12:47.466	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	:	4,979,152:68:0
1008	99	123	13:12:48.866		DMS:	:*US-RUNUP	P7, TRACK *1, *FWD, TIC 2120.99 +/-	2R3	4	0	:	4,979,152:68:0
1009	99	123	13:12:48.866		DMS:	:*US_AT_SP	P7, TRACK 1, FWD, TIC *2121.11 +/-	2R3	4	0	:	4,979,152:70:1
1010	99	123	13:12:54.133		DMS:	:*US_RD	P7, TRACK 1, FWD, TIC *2122.35 +/-	2R3	4	0	:	4,979,152:78:0
1011	99	123	13:12:55.333		DMS:	:*RUNUP	R7, TRACK *2, REV, TIC *2122.41 +/-	2R3	4	0	:	4,979,152:79:8
1012	99	123	13:12:56.733		DMS:	:*AT_SPD	R7, TRACK 2, REV, TIC *2122.29 +/-	2R3	4	0	:	4,979,152:81:9
1013	99	123	13:13:15.466		DMS:	:*RECORD	R7, TRACK 2, REV, TIC *2117.90 +/-	2R3	4	0	:	4,979,153:19:0
1014	99	123	13:13:38.133	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	:	4,979,153:53:0
1015	99	123	13:13:38.133		DMS:	:*RUNDOWN	R7, TRACK 2, REV, TIC *2112.58 +/-	2R3	4	0	:	4,979,153:53:0
1016	99	123	13:13:39.333		DMS:	:*READY	RDY, TRACK 2, REV, TIC *2112.52 +/-	2R3	4	0	:	4,979,153:54:8
1017	99	123	13:14:41.466	117GE105A106A4H	7STRP	-0.00075,0.05062	Slew = 12.01	2R3	4	0	:	4,979,154:57:0
1018	99	123	13:14:55.466	117GE105A106A4I	7STRP	0.005,-0.050072,	Slew = 0.41	2R3	4	0	:	4,979,154:78:0
1019	99	123	13:18:26.800	117GE105A106A4J	7STRP	-0.00075,0.05062	Slew = 12.01	2R3	4	0	:	4,979,158:31:0
1020	99	123	13:18:40.800	117GE105A106A4K	7STRP	0.005,-0.050072,	Slew = 0.41	2R3	4	0	:	4,979,158:52:0
1021	99	123	13:22:12.133	117GE105A106A4L	7STRP	-0.00075,0.05062	Slew = 12.01	2R3	4	0	:	4,979,162:05:0
1022	99	123	13:22:26.133	117GE105A106A4M	7STRP	0.005,-0.050072,	Slew = 0.41	2R3	4	0	:	4,979,162:26:0
1023	99	123	13:25:57.466	117GE105A106A4N	7STRP	-0.00075,0.05062	Slew = 12.01	2R3	4	0	:	4,979,165:70:0
1024	99	123	13:26:11.466	117GE105A106A4O	7STRP	0.005,-0.050072,	Slew = 0.41	2R3	4	0	:	4,979,166:00:0
1025	99	123	13:27:11.466		DMS:	:*US-RUNUP	P7, TRACK *1, *FWD, TIC 2112.52 +/-	2R3	4	0	:	4,979,166:90:0
1026	99	123	13:27:11.466	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	:	4,979,166:90:0
1027	99	123	13:27:12.866		DMS:	:*US_AT_SP	P7, TRACK 1, FWD, TIC *2112.64 +/-	2R3	4	0	:	4,979,167:01:1
1028	99	123	13:27:18.133		DMS:	:*US_RD	P7, TRACK 1, FWD, TIC *2113.88 +/-	2R3	4	0	:	4,979,167:09:0
1029	99	123	13:27:19.333		DMS:	:*RUNUP	R7, TRACK *2, REV, TIC *2113.94 +/-	2R3	4	0	:	4,979,167:10:8
1030	99	123	13:27:20.733		DMS:	:*AT_SPD	R7, TRACK 2, REV, TIC *2113.82 +/-	2R3	4	0	:	4,979,167:12:9
1031	99	123	13:27:39.466		DMS:	:*RECORD	R7, TRACK 2, REV, TIC *2109.43 +/-	2R3	4	0	:	4,979,167:41:0
1032	99	123	13:28:02.133		DMS:	:*RUNDOWN	R7, TRACK 2, REV, TIC *2104.11 +/-	2R3	4	0	:	4,979,167:75:0
1033	99	123	13:28:02.133	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	:	4,979,167:75:0
1034	99	123	13:28:03.333		DMS:	:*READY	RDY, TRACK 2, REV, TIC *2104.05 +/-	2R3	4	0	:	4,979,167:76:8
1035	99	123	13:29:42.800	117GE105A106A4P	7STRP	-0.00075,0.05062	Slew = 12.01	2R3	4	0	:	4,979,169:44:0
1036	99	123	13:29:56.800	117GE105A106A4Q	7STRP	0.005,-0.050072,	Slew = 0.41	2R3	4	0	:	4,979,169:65:0
1037	99	123	13:30:21.466	488AD6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2R3	4	0	:	4,979,170:11:0
1038	99	123	13:33:28.133	117GE105A106A4R	7STRP	0.005,-0.050072,	Slew = 12.01	2R3	4	0	:	4,979,173:18:0
1039	99	123	13:33:42.133	117GE105A106A4S	7STRP	-0.00075,0.05062	Slew = 0.41	2R3	4	0	:	4,979,173:39:0
1040	99	123	13:37:13.466	117GE105A106A4T	7STRP	-0.00075,0.05062	Slew = 12.01	2R3	4	0	:	4,979,176:83:0
1041	99	123	13:37:27.466	117GE105A106A4U	7STRP	0.005,-0.050072,	Slew = 0.41	2R3	4	0	:	4,979,177:13:0
1042	99	123	13:40:58.800	117GE105A106A4V	7STRP	-0.00075,0.05062	Slew = 12.01	2R3	4	0	:	4,979,180:57:0
1043	99	123	13:41:12.800	117GE105A106A4W	7STRP	0.005,-0.050072,	Slew = 0.41	2R3	4	0	:	4,979,180:78:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1044	99	123	13:41:36.133		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 2104.05 +/-	2R3	4	0	4,979,181:22:0	
1045	99	123	13:41:36.133	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	4,979,181:22:0	
1046	99	123	13:41:37.533		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *2104.17 +/-	2R3	4	0	4,979,181:24:1	
1047	99	123	13:41:42.800		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *2105.41 +/-	2R3	4	0	4,979,181:32:0	
1048	99	123	13:41:44.000		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *2105.47 +/-	2R3	4	0	4,979,181:33:8	
1049	99	123	13:41:45.400		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *2105.35 +/-	2R3	4	0	4,979,181:35:9	
1050	99	123	13:42:04.133		DMS:	: *RECORD	R7, TRACK 2, REV, TIC *2100.96 +/-	2R3	4	0	4,979,181:64:0	
1051	99	123	13:42:26.800		DMS:	: *RUNDOWN	R7, TRACK 2, REV, TIC *2095.65 +/-	2R3	4	0	4,979,182:07:0	
1052	99	123	13:42:26.800	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,979,182:07:0	
1053	99	123	13:42:28.000		DMS:	: *READY	RDY, TRACK 2, REV, TIC *2095.59 +/-	2R3	4	0	4,979,182:08:8	
1054	99	123	13:44:44.133	117GE105A106A4X	7STRP	-0.00075,0.05062	Slew =12.01	2R3	4	0	4,979,184:31:0	
1055	99	123	13:44:58.133	117GE105A106A4Y	7STRP	0.005,-0.050072,	Slew =0.41	2R3	4	0	4,979,184:52:0	
1056	99	123	13:48:29.466	117GE105A106A4Z	7STRP	-0.00075,0.05062	Slew =12.01	2R3	4	0	4,979,188:05:0	
1057	99	123	13:48:43.466	117GE105A106A4AA	7STRP	0.005,-0.050072,	Slew =0.41	2R3	4	0	4,979,188:26:0	
1058	99	123	13:52:14.800	117GE105A106A4AB	7STRP	-0.00075,0.05062	Slew =12.01	2R3	4	0	4,979,191:70:0	
1059	99	123	13:52:28.800	117GE105A106A4AC	7STRP	0.005,-0.050072,	Slew =0.41	2R3	4	0	4,979,192:00:0	
1060	99	123	13:56:00.133	117GE105A106A4AD	7STRP	-0.00075,0.05062	Slew =12.01	2R3	4	0	4,979,195:44:0	
1061	99	123	13:56:00.800	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	4,979,195:45:0	
1062	99	123	13:56:00.800		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 2095.59 +/-	2R3	4	0	4,979,195:45:0	
1063	99	123	13:56:02.200		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *2095.71 +/-	2R3	4	0	4,979,195:47:1	
1064	99	123	13:56:07.466		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *2096.94 +/-	2R3	4	0	4,979,195:55:0	
1065	99	123	13:56:08.666		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *2097.00 +/-	2R3	4	0	4,979,195:56:8	
1066	99	123	13:56:10.066		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *2096.88 +/-	2R3	4	0	4,979,195:58:9	
1067	99	123	13:56:14.133	117GE105A106A4AE	7STRP	0.005,-0.050072,	Slew =0.41	2R3	4	0	4,979,195:65:0	
1068	99	123	13:56:28.800		DMS:	: *RECORD	R7, TRACK 2, REV, TIC *2092.49 +/-	2R3	4	0	4,979,195:87:0	
1069	99	123	13:56:51.466	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,979,196:30:0	
1070	99	123	13:56:51.466		DMS:	: *RUNDOWN	R7, TRACK 2, REV, TIC *2087.18 +/-	2R3	4	0	4,979,196:30:0	
1071	99	123	13:56:52.666		DMS:	: *READY	RDY, TRACK 2, REV, TIC *2087.12 +/-	2R3	4	0	4,979,196:31:8	
1072	99	123	13:59:45.466	117GE105A106A4AF	7STRP	-0.00075,0.05062	Slew =12.01	2R3	4	0	4,979,199:18:0	
1073	99	123	13:59:59.466	117GE105A106A4AG	7STRP	0.005,-0.050072,	Slew =0.41	2R3	4	0	4,979,199:39:0	
1074	99	123	14:03:30.800	117GE105A106A4AH	7STRP	-0.00075,0.05062	Slew =12.01	2R3	4	0	4,979,202:83:0	
1075	99	123	14:03:44.800	117GE105A106A4AI	7STRP	0.005,-0.050072,	Slew =0.41	2R3	4	0	4,979,203:13:0	
1076	99	123	14:04:00.133	488AD6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2R3	4	0	4,979,203:36:0	
1077	99	123	14:07:16.133	117GE105A106A4AJ	7STRP	-0.00075,0.05062	Slew =12.01	2R3	4	0	4,979,206:57:0	
1078	99	123	14:07:30.133	117GE105A106A4AK	7STRP	0.005,-0.050072,	Slew =0.41	2R3	4	0	4,979,206:78:0	
1079	99	123	14:10:25.466	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	4,979,209:68:0	
1080	99	123	14:10:25.466		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 2087.12 +/-	2R3	4	0	4,979,209:68:0	
1081	99	123	14:10:26.866		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *2087.24 +/-	2R3	4	0	4,979,209:70:1	
1082	99	123	14:10:32.133		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *2088.47 +/-	2R3	4	0	4,979,209:78:0	
1083	99	123	14:10:33.333		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *2088.53 +/-	2R3	4	0	4,979,209:79:8	
1084	99	123	14:10:34.733		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *2088.41 +/-	2R3	4	0	4,979,209:81:9	
1085	99	123	14:10:53.466		DMS:	: *RECORD	R7, TRACK 2, REV, TIC *2084.02 +/-	2R3	4	0	4,979,210:19:0	
1086	99	123	14:11:01.466	117GE105A106A4AL	7STRP	-0.00075,0.05062	Slew =12.01	2R3	4	0	4,979,210:31:0	
1087	99	123	14:11:15.466	117GE105A106A4AM	7STRP	0.005,-0.050072,	Slew =0.41	2R3	4	0	4,979,210:52:0	
1088	99	123	14:11:16.133		DMS:	: *RUNDOWN	R7, TRACK 2, REV, TIC *2078.71 +/-	2R3	4	0	4,979,210:53:0	
1089	99	123	14:11:16.133	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,979,210:53:0	
1090	99	123	14:11:17.333		DMS:	: *READY	RDY, TRACK 2, REV, TIC *2078.65 +/-	2R3	4	0	4,979,210:54:8	
1091	99	123	14:14:46.800	117GE105A106A4AN	7STRP	-0.00075,0.05062	Slew =12.01	2R3	4	0	4,979,214:05:0	
1092	99	123	14:15:00.800	117GE105A106A4AO	7STRP	0.005,-0.050072,	Slew =0.41	2R3	4	0	4,979,214:26:0	
1093	99	123	14:18:32.133	117GE105A106A4AP	7STRP	-0.00075,0.05062	Slew =12.01	2R3	4	0	4,979,217:70:0	
1094	99	123	14:18:46.133	117GE105A106A4AQ	7STRP	0.005,-0.050072,	Slew =0.41	2R3	4	0	4,979,218:00:0	
1095	99	123	14:22:17.466	117GE105A106A4AR	7STRP	-0.00075,0.05062	Slew =12.01	2R3	4	0	4,979,221:44:0	
1096	99	123	14:22:31.466	117GE105A106A4AS	7STRP	0.005,-0.050072,	Slew =0.41	2R3	4	0	4,979,221:65:0	
1097	99	123	14:24:50.133		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 2078.65 +/-	2R3	4	0	4,979,224:00:0	
1098	99	123	14:24:50.133	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	4,979,224:00:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1099	99	123	14:24:51.533		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *2078.77 +/-	2R3	4	0	4,979,224:02:1	
1100	99	123	14:24:56.800		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *2080.00 +/-	2R3	4	0	4,979,224:10:0	
1101	99	123	14:24:58.000		DMS:	: *RUNUP	R7, TRACK *2, REV, TIC *2080.06 +/-	2R3	4	0	4,979,224:11:8	
1102	99	123	14:24:59.400		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *2079.94 +/-	2R3	4	0	4,979,224:13:9	
1103	99	123	14:25:18.133		DMS:	: *RECORD	R7, TRACK 2, REV, TIC *2075.55 +/-	2R3	4	0	4,979,224:42:0	
1104	99	123	14:25:40.800		DMS:	: *RUNDOWN	R7, TRACK 2, REV, TIC *2070.24 +/-	2R3	4	0	4,979,224:76:0	
1105	99	123	14:25:40.800	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,979,224:76:0	
1106	99	123	14:25:42.000		DMS:	: *READY	RDY, TRACK 2, REV, TIC *2070.18 +/-	2R3	4	0	4,979,224:77:8	
1107	99	123	14:26:02.800	117GE105A106A4AT	7STRP	-0.00075.0.05062	Slew =12.01	2R3	4	0	4,979,225:18:0	
1108	99	123	14:26:16.800	117GE105A106A4AU	7STRP	0.005-.0.050072,	Slew =0.41	2R3	4	0	4,979,225:39:0	
1109	99	123	14:29:48.133	117GE105A106A4AV	7STRP	-0.00075.0.05062	Slew =12.01	2R3	4	0	4,979,228:83:0	
1110	99	123	14:30:02.133	117GE105A106A4AW	7STRP	0.005-.0.050072,	Slew =0.41	2R3	4	0	4,979,229:13:0	
1111	99	123	14:33:33.466	117GE105A106A4AX	7STRP	-0.00075.0.05062	Slew =12.01	2R3	4	0	4,979,232:57:0	
1112	99	123	14:33:47.466	117GE105A106A4AY	7STRP	0.005-.0.050072,	Slew =0.41	2R3	4	0	4,979,232:78:0	
1113	99	123	14:37:18.800	117GE105A106A4AZ	7STRP	-0.00075.0.05062	Slew =12.01	2R3	4	0	4,979,236:31:0	
1114	99	123	14:37:32.800	117GE105A106A4BA	7STRP	0.005-.0.050072,	Slew =0.41	2R3	4	0	4,979,236:52:0	
1115	99	123	14:39:14.133	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	4,979,238:22:0	
1116	99	123	14:39:14.133		DMS:	: *US-RUNUP	P7, TRACK *1, FWD, TIC 2070.18 +/-	2R3	4	0	4,979,238:22:0	
1117	99	123	14:39:15.533		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *2070.30 +/-	2R3	4	0	4,979,238:24:1	
1118	99	123	14:39:20.800		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *2071.53 +/-	2R3	4	0	4,979,238:32:0	
1119	99	123	14:39:22.000		DMS:	: *RUNUP	R7, TRACK *2, REV, TIC *2071.59 +/-	2R3	4	0	4,979,238:33:8	
1120	99	123	14:39:23.400		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *2071.47 +/-	2R3	4	0	4,979,238:35:9	
1121	99	123	14:39:42.133		DMS:	: *RECORD	R7, TRACK 2, REV, TIC *2067.08 +/-	2R3	4	0	4,979,238:64:0	
1122	99	123	14:40:04.800	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,979,239:07:0	
1123	99	123	14:40:04.800		DMS:	: *RUNDOWN	R7, TRACK 2, REV, TIC *2061.77 +/-	2R3	4	0	4,979,239:07:0	
1124	99	123	14:40:06.000		DMS:	: *READY	RDY, TRACK 2, REV, TIC *2061.71 +/-	2R3	4	0	4,979,239:08:8	
1125	99	123	14:41:04.133	117GE105A106A4BB	7STRP	-0.00075.0.05062	Slew =12.01	2R3	4	0	4,979,240:05:0	
1126	99	123	14:41:18.133	117GE105A106A4BC	7STRP	0.005-.0.050072,	Slew =0.41	2R3	4	0	4,979,240:26:0	
1127	99	123	14:44:49.466	117GE105A106A4BD	7STRP	-0.00075.0.05062	Slew =12.01	2R3	4	0	4,979,243:70:0	
1128	99	123	14:45:03.466	117GE105A106A4BE	7STRP	0.005-.0.050072,	Slew =0.41	2R3	4	0	4,979,244:00:0	
1129	99	123	14:48:34.800	117GE105A106A4BF	7STRP	-0.00075.0.05062	Slew =12.01	2R3	4	0	4,979,247:44:0	
1130	99	123	14:48:48.800	117GE105A106A4BG	7STRP	0.005-.0.050072,	Slew =0.41	2R3	4	0	4,979,247:65:0	
1131	99	123	14:52:20.133	117GE105A106A4BH	7STRP	-0.00075.0.05062	Slew =12.01	2R3	4	0	4,979,251:18:0	
1132	99	123	14:52:34.133	117GE105A106A4BI	7STRP	0.005-.0.050072,	Slew =0.41	2R3	4	0	4,979,251:39:0	
1133	99	123	14:53:38.800	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	4,979,252:45:0	
1134	99	123	14:53:38.800		DMS:	: *US-RUNUP	P7, TRACK *1, FWD, TIC 2061.71 +/-	2R3	4	0	4,979,252:45:0	
1135	99	123	14:53:40.200		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *2061.83 +/-	2R3	4	0	4,979,252:47:1	
1136	99	123	14:53:45.466		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *2063.06 +/-	2R3	4	0	4,979,252:55:0	
1137	99	123	14:53:46.666		DMS:	: *RUNUP	R7, TRACK *2, REV, TIC *2063.12 +/-	2R3	4	0	4,979,252:56:8	
1138	99	123	14:53:48.066		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *2063.00 +/-	2R3	4	0	4,979,252:58:9	
1139	99	123	14:54:06.800		DMS:	: *RECORD	R7, TRACK 2, REV, TIC *2058.61 +/-	2R3	4	0	4,979,252:87:0	
1140	99	123	14:54:29.466	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,979,253:30:0	
1141	99	123	14:54:29.466		DMS:	: *RUNDOWN	R7, TRACK 2, REV, TIC *2053.30 +/-	2R3	4	0	4,979,253:30:0	
1142	99	123	14:54:30.666		DMS:	: *READY	RDY, TRACK 2, REV, TIC *2053.24 +/-	2R3	4	0	4,979,253:31:8	
1143	99	123	14:56:05.466	117GE105A106A4BJ	7STRP	-0.00075.0.05062	Slew =12.01	2R3	4	0	4,979,254:83:0	
1144	99	123	14:56:19.466	117GE105A106A4BK	7STRP	0.005-.0.050072,	Slew =0.41	2R3	4	0	4,979,255:13:0	
1145	99	123	14:59:50.800	117GE105A106A4BL	7STRP	-0.00075.0.05062	Slew =12.01	2R3	4	0	4,979,258:57:0	
1146	99	123	15:00:04.800	117GE105A106A4BM	7STRP	0.005-.0.050072,	Slew =0.41	2R3	4	0	4,979,258:78:0	
1147	99	123	15:03:36.133	117GE105A106A4BN	7STRP	-0.00075.0.05062	Slew =12.01	2R3	4	0	4,979,262:31:0	
1148	99	123	15:03:50.133	117GE105A106A4BO	7STRP	0.005-.0.050072,	Slew =0.41	2R3	4	0	4,979,262:52:0	
1149	99	123	15:07:21.466	117GE105A106A4BP	7STRP	-0.00075.0.05062	Slew =12.01	2R3	4	0	4,979,266:05:0	
1150	99	123	15:07:35.466	117GE105A106A4BQ	7STRP	0.005-.0.050072,	Slew =0.41	2R3	4	0	4,979,266:26:0	
1151	99	123	15:08:03.466		DMS:	: *US-RUNUP	P7, TRACK *1, FWD, TIC 2053.24 +/-	2R3	4	0	4,979,266:68:0	
1152	99	123	15:08:03.466	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	4,979,266:68:0	
1153	99	123	15:08:04.866		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *2053.36 +/-	2R3	4	0	4,979,266:70:1	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1154	99	123	15:08:10.133		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *2054.60 +/-	2R3	4	0	4,979,266.78:0	
1155	99	123	15:08:11.333		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *2054.66 +/-	2R3	4	0	4,979,266.79:8	
1156	99	123	15:08:12.733		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *2054.54 +/-	2R3	4	0	4,979,266.81:9	
1157	99	123	15:08:31.466		DMS:	: *RECORD	R7, TRACK 2, REV, TIC *2050.15 +/-	2R3	4	0	4,979,267.19:0	
1158	99	123	15:08:54.133		DMS:	: *RUNDOWN	R7, TRACK 2, REV, TIC *2044.83 +/-	2R3	4	0	4,979,267.53:0	
1159	99	123	15:08:54.133	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,979,267.53:0	
1160	99	123	15:08:55.333		DMS:	: *READY	RDY, TRACK 2, REV, TIC *2044.77 +/-	2R3	4	0	4,979,267.54:8	
1161	99	123	15:11:06.800	117GE105A106A4BR	7STRP	-0.00075.0.05062	Slew =12.01	2R3	4	0	4,979,269.70:0	
1162	99	123	15:11:20.800	117GE105A106A4BS	7STRP	0.005-.0.050072,	Slew =0.41	2R3	4	0	4,979,270.00:0	
1163	99	123	15:14:52.133	117GE105A106A4BT	7STRP	-0.00075.0.05062	Slew =12.01	2R3	4	0	4,979,273.44:0	
1164	99	123	15:15:06.133	117GE105A106A4BU	7STRP	0.005-.0.050072,	Slew =0.41	2R3	4	0	4,979,273.65:0	
1165	99	123	15:18:37.466	117GE105A106A4BV	7STRP	-0.00075.0.05062	Slew =12.01	2R3	4	0	4,979,277.18:0	
1166	99	123	15:18:51.466	117GE105A106A4BW	7STRP	0.005-.0.050072,	Slew =0.41	2R3	4	0	4,979,277.39:0	
1167	99	123	15:22:22.800	117GE105A106A4BX	7STRP	-0.00075.0.05062	Slew =12.01	2R3	4	0	4,979,280.83:0	
1168	99	123	15:22:28.133	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	4,979,281:00:0	
1169	99	123	15:22:28.133		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 2044.77 +/-	2R3	4	0	4,979,281:00:1	
1170	99	123	15:22:29.533		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *2044.89 +/-	2R3	4	0	4,979,281:00:1	
1171	99	123	15:22:34.800		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *2046.13 +/-	2R3	4	0	4,979,281:10:0	
1172	99	123	15:22:36.000		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *2046.19 +/-	2R3	4	0	4,979,281:11:8	
1173	99	123	15:22:36.800	117GE105A106A4BY	7STRP	0.005-.0.050072,	Slew =0.41	2R3	4	0	4,979,281:13:0	
1174	99	123	15:22:37.400		DMS:	: *RECORD	R7, TRACK 2, REV, TIC *2046.07 +/-	2R3	4	0	4,979,281:13:9	
1175	99	123	15:22:56.133		DMS:	: *RUNDOWN	R7, TRACK 2, REV, TIC *2041.68 +/-	2R3	4	0	4,979,281:42:0	
1176	99	123	15:23:18.800		DMS:	: *RUNDOWN	R7, TRACK 2, REV, TIC *2036.36 +/-	2R3	4	0	4,979,281:76:0	
1177	99	123	15:23:18.800	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,979,281:76:0	
1178	99	123	15:23:20.000		DMS:	: *READY	RDY, TRACK 2, REV, TIC *2036.30 +/-	2R3	4	0	4,979,281:77:8	
1179	99	123	15:26:08.133	117GE105A106A4BZ	7STRP	-0.00075.0.05062	Slew =12.01	2R3	4	0	4,979,284:78:0	
1180	99	123	15:26:22.133	117GE105A106A4CA	7STRP	0.005-.0.050072,	Slew =0.41	2R3	4	0	4,979,284:78:0	
1181	99	123	15:29:53.466	117GE105A106A4CB	7STRP	-0.00075.0.05062	Slew =12.01	2R3	4	0	4,979,288.31:0	
1182	99	123	15:30:07.466	117GE105A106A4CC	7STRP	0.005-.0.050072,	Slew =0.41	2R3	4	0	4,979,288.52:0	
1183	99	123	15:33:38.800	117GE105A106A4CD	7STRP	-0.00075.0.05062	Slew =12.01	2R3	4	0	4,979,292:05:0	
1184	99	123	15:33:52.800	117GE105A106A4CE	7STRP	0.005-.0.050072,	Slew =0.41	2R3	4	0	4,979,292:26:0	
1185	99	123	15:36:52.800	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	4,979,295:23:0	
1186	99	123	15:36:52.800		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 2036.30 +/-	2R3	4	0	4,979,295:23:0	
1187	99	123	15:36:54.200		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *2036.42 +/-	2R3	4	0	4,979,295:25:1	
1188	99	123	15:36:59.466		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *2037.66 +/-	2R3	4	0	4,979,295:33:0	
1189	99	123	15:37:00.666		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *2037.72 +/-	2R3	4	0	4,979,295:34:8	
1190	99	123	15:37:02.000		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *2037.60 +/-	2R3	4	0	4,979,295:36:9	
1191	99	123	15:37:20.800		DMS:	: *RECORD	R7, TRACK 2, REV, TIC *2033.21 +/-	2R3	4	0	4,979,295:65:0	
1192	99	123	15:37:24.133	117GE105A106A4CF	7STRP	-0.00075.0.05062	Slew =12.01	2R3	4	0	4,979,295:70:0	
1193	99	123	15:37:38.133	117GE105A106A4CG	7STRP	0.005-.0.050072,	Slew =0.41	2R3	4	0	4,979,296:00:0	
1194	99	123	15:37:43.466		DMS:	: *RUNDOWN	R7, TRACK 2, REV, TIC *2027.90 +/-	2R3	4	0	4,979,296:08:0	
1195	99	123	15:37:43.466	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,979,296:08:0	
1196	99	123	15:37:44.666		DMS:	: *READY	RDY, TRACK 2, REV, TIC *2027.84 +/-	2R3	4	0	4,979,296:09:8	
1197	99	123	15:41:09.466	117GE105A106A4CH	7STRP	-0.00075.0.05062	Slew =12.01	2R3	4	0	4,979,299:44:0	
1198	99	123	15:41:23.466	117GE105A106A4CI	7STRP	0.005-.0.050072,	Slew =0.41	2R3	4	0	4,979,299:65:0	
1199	99	123	15:44:54.800	117GE105A106A4CJ	7STRP	-0.00075.0.05062	Slew =12.01	2R3	4	0	4,979,303:18:0	
1200	99	123	15:45:08.800	117GE105A106A4CK	7STRP	0.005-.0.050072,	Slew =0.41	2R3	4	0	4,979,303:39:0	
1201	99	123	15:48:40.133	117GE105A106A4CL	7STRP	-0.00075.0.05062	Slew =12.01	2R3	4	0	4,979,306:83:0	
1202	99	123	15:48:54.133	117GE105A106A4CM	7STRP	0.005-.0.050072,	Slew =0.41	2R3	4	0	4,979,307:13:0	
1203	99	123	15:51:16.800		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 2027.84 +/-	2R3	4	0	4,979,309:45:0	
1204	99	123	15:51:16.800	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	4,979,309:47:1	
1205	99	123	15:51:18.200		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *2027.96 +/-	2R3	4	0	4,979,309:47:1	
1206	99	123	15:51:23.466		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *2029.19 +/-	2R3	4	0	4,979,309:55:0	
1207	99	123	15:51:24.666		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *2029.25 +/-	2R3	4	0	4,979,309:56:8	
1208	99	123	15:51:26.066		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *2029.13 +/-	2R3	4	0	4,979,309:58:9	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1209	99	123	15:51:44.800		DMS:	:*RECORD	R7, TRACK 2, REV, TIC *2024.74 +/-	2R3	4	0	4,979,309:87:0	
1210	99	123	15:52:07.466	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,979,310:30:0	
1211	99	123	15:52:07.466		DMS:	:*RUNDOWN	R7, TRACK 2, REV, TIC *2019.43 +/-	2R3	4	0	4,979,310:30:0	
1212	99	123	15:52:08.666		DMS:	:*READY	RDY, TRACK 2, REV, TIC *2019.37 +/-	2R3	4	0	4,979,310:31:8	
1213	99	123	15:52:25.466	117GE105A106A4CN	7STRP	-0.00075,0.05062	Slew =12.01	2R3	4	0	4,979,310:57:0	
1214	99	123	15:52:39.466	117GE105A106A4CO	7STRP	0.005,-0.050072,	Slew =,0.41	2R3	4	0	4,979,310:78:0	
1215	99	123	15:56:10.800	117GE11A	CSMOS	GE	***** GROUP END CSMOS	2R3	4	0	4,979,314:31:0	
1216	99	123	15:57:20.800	176GE6B	6TMREC	NRC	NO RECORD Record Mode Change	2R3	4	0	4,979,315:45:0	
1217	99	123	15:57:22.800		DMS:	:*US-RUNUP	P7, TRACK *1,*FWD, TIC 2019.37 +/-	2R3	4	0	4,979,315:48:0	
1218	99	123	15:57:22.800	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	4,979,315:48:0	
1219	99	123	15:57:24.200		DMS:	:*US_AT_SP	P7, TRACK 1, FWD, TIC *2019.49 +/-	2R3	4	0	4,979,315:50:1	
1220	99	123	15:57:29.466		DMS:	:*US_RD	P7, TRACK 1, FWD, TIC *2020.72 +/-	2R3	4	0	4,979,315:58:0	
1221	99	123	15:57:30.666		DMS:	:*RUNUP	R7, TRACK *2,*REV, TIC *2020.78 +/-	2R3	4	0	4,979,315:59:8	
1222	99	123	15:57:32.066		DMS:	:*AT_SPD	R7, TRACK 2, REV, TIC *2020.66 +/-	2R3	4	0	4,979,315:61:9	
1223	99	123	15:57:32.800		DMS:	:*RECORD	R7, TRACK 2, REV, TIC *2020.49 +/-	2R3	4	0	4,979,315:63:0	
1224	99	123	15:57:46.800	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,979,315:84:0	
1225	99	123	15:57:46.800		DMS:	:*RUNDOWN	R7, TRACK 2, REV, TIC *2017.21 +/-	2R3	4	0	4,979,315:84:0	
1226	99	123	15:57:48.000		DMS:	:*READY	RDY, TRACK 2, REV, TIC *2017.15 +/-	2R3	4	0	4,979,315:85:8	
1227	99	123	15:58:00.133	444UB443A4A	7MODE	CRU	AACS CRUISE MODE	2R3	4	0	4,979,316:13:0	
1228	99	123	15:59:41.466		DMS:	:*US-RUNUP	P7, TRACK *1,*FWD, TIC 2017.15 +/-	2R3	4	0	4,979,317:74:0	
1229	99	123	15:59:41.466	175NA422A6A	6DMSC	R7,2	DMS Control	2R3	4	0	4,979,317:74:0	
1230	99	123	15:59:42.866		DMS:	:*US_AT_SP	P7, TRACK 1, FWD, TIC *2017.27 +/-	2R3	4	0	4,979,317:76:1	
1231	99	123	15:59:48.133		DMS:	:*US_RD	P7, TRACK 1, FWD, TIC *2018.50 +/-	2R3	4	0	4,979,317:84:0	
1232	99	123	15:59:49.333		DMS:	:*RUNUP	R7, TRACK *2,*REV, TIC *2018.56 +/-	2R3	4	0	4,979,317:85:8	
1233	99	123	15:59:50.133	175NA176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	2R3	4	0	4,979,317:87:0	
1234	99	123	15:59:50.133	282NA431A6A	6RCSEL	DDSNCG,PLSSEL,EP	Record Select (DDS on)	2R3	4	0	4,979,317:87:0	
1235	99	123	15:59:50.733		DMS:	:*RECORD	R7, TRACK 2, REV, TIC *2018.44 +/-	2R3	4	0	4,979,317:87:9	
1236	99	123	15:59:50.733		DMS:	:*AT_SPD	R7, TRACK 2, REV, TIC 2018.44 +/-	2R3	4	0	4,979,317:87:9	
1237	99	123	15:59:52.800	431MA6A	6RCSEL	DDSNCG,PLSNCG,EP	Record Select (DDS on)	2R3	4	0	4,979,318:00:0	
1238	99	123	18:01:14.800	432OA431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	2R3	4	0	4,979,438:03:0	
1239	99	123	18:01:15.466	432OA6A	6RTSL1		R/T Select of DDS and	2R3	4	0	4,979,438:04:0	
1240	99	123	18:01:18.800	282NB431A6A	6RCDSL	DDSNCG,PLSDSL,EP	Record Deselect (DDS o	2R3	4	0	4,979,438:09:0	
1241	99	123	18:01:24.800		DMS:	:*RUNDOWN	R7, TRACK 2, REV, TIC *308.90 +/-	2R3	4	0	4,979,438:18:0	
1242	99	123	18:01:24.800	175NA422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,979,438:18:0	
1243	99	123	18:01:26.000		DMS:	:*READY	RDY, TRACK 2, REV, TIC *308.84 +/-	2R3	4	0	4,979,438:19:8	
1244	99	123	18:02:07.466	282NB432A431A6A	6RCDSL	DDSNCG,PLSDSL,EP	Record Deselect (DDS o	2R3	4	0	4,979,438:82:0	
1245	99	123	18:02:08.133	282NB432A6A	6RTSL1		R/T Select of DDS and	2R3	4	0	4,979,438:83:0	
1246	99	123	18:53:55.466	488AE6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2R3	4	0	4,979,490:12:0	
1247	99	123	19:32:19.466	488AE6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2R3	4	0	4,979,528:10:0	
1248	99	123	22:09:56.133	165UD4A	7SCAN	NORM,23.803,11.7	Check S/P Position	2R3	4	0	4,979,683:90:0	
1249	99	123	22:39:00.133	444UC443A4B	7MODE	INT	AACS INERTIAL MODE	2R3	4	0	4,979,712:67:0	
1250	99	123	22:57:32.133	20NNJUPRTS03-		*****START*****		2R3	4	0	:	
1251	99	123	22:57:38.800	20DJ5A	37PL		Program Load (halts microprocessor & unwri	2R3	4	0	4,979,731:16:0	
1252	99	123	22:57:42.133	20DJ5B	37MRL		Memory Realocate (software operates from R	2R3	4	0	4,979,731:21:0	
1253	99	123	22:57:52.133	20DJ6A	6MCOPY	NIMS	NIMS,1000,LLM1A,7300,77F7	2R3	4	0	4,979,731:36:0	
1254	99	123	22:58:02.133	20DJ6B	6MCOPY	NIMS	NIMS,1598,LLM1A,77F8,781D	2R3	4	0	4,979,731:51:0	
1255	99	123	22:58:12.133	20DJ5C	37IRT		Instrument Reset (goes into POR state)	260	4	0	4,979,731:66:0	
1256	99	123	22:58:15.466	20DJ5D	37MN		Memory Normal (software operates from ROM)	260	4	0	4,979,731:71:0	
1257	99	123	22:58:21.466	20DJ4A	37IST	1,2,0,OFF,0,0,0	Chopper ON, Sync, Chopper (Ref)	2R0	4	0	4,979,731:80:0	
1258	99	123	22:59:24.800	125DJ	NIMSINIT	GS	##### GROUP START INIT	2R0	4	0	4,979,732:84:0	
1259	99	123	22:59:24.800	125DJ4A	37IST	0,2,0,OFF,0,1,0	Gain State 2	2R0	4	0	4,979,732:84:0	
1260	99	123	22:59:33.466	20NNJUPRTS03-		*****STOP*****		2R0	4	0	:	
1261	99	123	23:00:25.466	125DJ4B	37MB	1B,1B,0,0,0,0	Selects mirror (spatial) edit table	2R0	4	0	4,979,733:84:0	
1262	99	123	23:00:25.466	125DJ11A	NIMSINIT	GE	##### GROUP END INIT	2R0	4	0	4,979,733:84:0	
1263	99	123	23:00:29.466	165DJ4A	7SCAN	NORM,23.804,11.7	Check S/P Position	2R0	4	0	4,979,733:90:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF	I
1264	99	123	23:00:34.133	20JNJUPRTS03*		-----START-----		2R0	4	0	0		
1265	99	123	23:02:26.800	127DJ4A	37IOP	3.0	Long Map, Grating Start Position =00	2R3	4	0	4,979,735:84:0		
1266	99	123	23:02:26.800	127DJ	NIMSTAB	GS	%%%GROUP START TAB	2R3	4	0	4,979,735:84:0		
1267	99	123	23:02:27.466	127DJ4B	37ETB	04,C,4,35,FF,FF	Loads wavelength edit table	2R3	4	0	4,979,735:85:0		
1268	99	123	23:02:35.466	127DJ11A	NIMSTAB	GE	%%%GROUP END TAB	2R3	4	0	4,979,736:06:0		
1269	99	123	23:04:23.466	117DJ	CSMOS	GS	****GROUP START CSMOS	2R3	4	0	4,979,737:77:0		
1270	99	123	23:04:32.800	117DJ105A106A4A	7STRP	0.018002,0.0,0.0	Slew =0.03	2R3	4	0	4,979,738:00:0		
1271	99	123	23:04:36.800	432DJ6A	6RTSL2	NIMSEL,AACNCG,RT	NIMS R/T SELECT	2R3	4	0	4,979,738:06:0		
1272	99	123	23:14:39.466	117DJ11A	CSMOS	GE	****GROUP END CSMOS	2R3	4	0	4,979,748:00:0		
1273	99	123	23:14:42.133	432DZ6A	6RTDS2	NIMDSL,AACNCG,RT	NIMS R/T DESELECT	2R3	4	0	4,979,748:04:0		
1274	99	123	23:14:43.466	20JNJUPRTS03*		-----STOP-----		2R3	4	0			
1275	99	124	03:49:23.400	488AF6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2R3	4	0	4,980,019:65:0		
1276	99	124	04:18:58.066	488AF6B	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	2R3	4	0	4,980,048:88:0		
1277	99	124	04:25:39.400	488AF6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	2R3	4	0	4,980,055:53:0		
1278	99	124	04:47:04.066	488AF6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	2R3	4	0	4,980,076:69:0		
1279	99	124	05:57:23.400	488AF6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2R3	4	0	4,980,146:28:0		
1280	99	124	06:03:13.400	488AG6A	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	2R3	4	0	4,980,152:07:0		
1281	99	124	06:40:17.400	488AG6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2R3	4	0	4,980,188:67:0		
1282	99	124	07:45:24.066	20MC6A	6CKSUM	MAG,4040,46F0		2R3	4	0	4,980,253:12:0		
1283	99	124	07:46:20.733	480MB6A	6MROH	12,2282,0,A2	read from LLM1A12,2282,0,A2	2R3	4	0	4,980,254:06:0		
1284	99	124	07:46:20.733	480MB6	6MROH	12,2282,0,A2	12 read from LLM1A12,2282,0,A2	2R3	4	0	4,980,254:06:0		
1285	99	124	11:28:43.400	192GB4A	7CONE	9.0,0.0	Check S/P Position	2R3	4	0	4,980,474:00:0		
1286	99	124	11:35:48.066	176GF6A	6TMREC	BPT	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R3	4	0	4,980,481:00:0		
1287	99	124	11:38:02.733	176GF6B	6TMREC	NRC	NO RECORD Record Mode Change	2R3	4	0	4,980,483:20:0		
1288	99	124	11:38:04.733	DMS:		:US-RUNUP	P7, TRACK *1, *FWD, TIC 308.84 +/-	2R3	4	0	4,980,483:23:0		
1289	99	124	11:38:04.733	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	4,980,483:23:0		
1290	99	124	11:38:06.133	DMS:		:US AT SP	P7, TRACK 1, FWD, TIC * 308.96 +/-	2R3	4	0	4,980,483:25:1		
1291	99	124	11:38:11.400	DMS:		:US RD	P7, TRACK 1, FWD, TIC * 310.19 +/-	2R3	4	0	4,980,483:33:0		
1292	99	124	11:38:12.600	DMS:		:RUNUP	R7, TRACK *2, *REV, TIC * 310.25 +/-	2R3	4	0	4,980,483:34:8		
1293	99	124	11:38:14.000	DMS:		:AT SPD	R7, TRACK 2, REV, TIC * 310.13 +/-	2R3	4	0	4,980,483:36:9		
1294	99	124	11:38:14.733	DMS:		:*RECORD	R7, TRACK 2, REV, TIC * 309.96 +/-	2R3	4	0	4,980,483:38:0		
1295	99	124	11:38:26.066	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,980,483:55:0		
1296	99	124	11:38:26.066	DMS:		:*RUNDOWN	R7, TRACK 2, REV, TIC * 307.30 +/-	2R3	4	0	4,980,483:55:0		
1297	99	124	11:38:27.266	DMS:		:*READY	RDY, TRACK 2, REV, TIC * 307.24 +/-	2R3	4	0	4,980,483:56:8		
1298	99	124	11:46:00.733	488AG6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	2R3	4	0	4,980,491:09:0		
1299	99	124	11:53:53.400	465KA6A	6DTRN	CMD,6DTRN,465KA6	DMS TRACK TURNAROUND	2R3	4	0	4,980,498:81:0		
1300	99	124	11:53:53.400	DMS:		:US-RUNUP	P7, TRACK *1, *FWD, TIC 307.24 +/-	2R3	4	0	4,980,498:81:0		
1301	99	124	11:53:53.400	DMS:		:DMS-TURN	P7, TRACK 2, REV, TIC 307.24 +/-	2R3	4	0	4,980,498:81:0		
1302	99	124	11:53:54.800	DMS:		:US AT SP	P7, TRACK 1, FWD, TIC * 307.36 +/-	2R3	4	0	4,980,498:83:1		
1303	99	124	11:54:00.066	DMS:		:US RD	P7, TRACK 1, FWD, TIC * 308.60 +/-	2R3	4	0	4,980,499:00:0		
1304	99	124	11:54:01.266	DMS:		:RUNUP	P7, TRACK *2, *REV, TIC * 308.66 +/-	2R3	4	0	4,980,499:01:8		
1305	99	124	11:54:02.666	DMS:		:AT SPD	P7, TRACK 2, REV, TIC * 308.54 +/-	2R3	4	0	4,980,499:03:9		
1306	99	124	12:01:46.266	DMS:		:*REVERSE	P7, TRACK 2, REV, TIC * 199.87 +/-	2R3	4	0	4,980,506:62:3		
1307	99	124	12:01:47.466	DMS:		:*TURNARND	P7, TRACK *3, *FWD, TIC * 199.81 +/-	2R3	4	0	4,980,506:64:1		
1308	99	124	12:01:47.466	DMS:		:RUNUP	P7, TRACK 3, FWD, TIC 199.81 +/-	2R3	4	0	4,980,506:64:1		
1309	99	124	12:01:48.866	DMS:		:*AT SPD	P7, TRACK 3, FWD, TIC * 199.93 +/-	2R3	4	0	4,980,506:66:2		
1310	99	124	12:02:00.866	DMS:		:*AUTOSTOP	P7, TRACK 3, FWD, TIC * 202.06 +/-	2R3	4	0	4,980,506:84:2		
1311	99	124	12:02:02.066	DMS:		:*READY	RDY, TRACK 3, FWD, TIC * 202.12 +/-	2R3	4	0	4,980,506:86:0		
1312	99	124	12:09:02.066	DMS:		:*E4-DELAY	RDY, TRACK *1, FWD, TIC 202.12 +/-	2R3	4	0	4,980,513:79:0		
1313	99	124	12:09:02.066	465KB6A	6DMSC	P7,3	DMS Control Tape P/B 7.68kps	2R3	4	0	4,980,513:79:0		
1314	99	124	12:09:08.733	DMS:		:RUNUP	P7, TRACK *3, FWD, TIC 202.12 +/-	2R3	4	0	4,980,514:00:1		
1315	99	124	12:09:10.133	DMS:		:P SLEW	P7, TRACK 3, FWD, TIC * 202.24 +/-	2R3	4	0	4,980,514:00:1		
1316	99	124	12:09:10.133	DMS:		:*AT SPD	P7, TRACK 3, FWD, TIC 202.24 +/-	2R3	4	0	4,980,514:00:1		
1317	99	124	12:12:12.066	DMS:		:*RUNDOWN	P7, TRACK 3, FWD, TIC * 244.88 +/-	2R3	4	0	4,980,517:00:0		
1318	99	124	12:12:12.066	465KB6B	6DMSC	RDY,3	DMS Control Tape stop	2R3	4	0	4,980,517:00:0		

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1319	99	124	12:12:13.266		DMS:	: *READY	RDY, TRACK 3, FWD, TIC * 244.94 +/-	2R3	4	0	4,980,517:01:8	
1320	99	124	12:34:26.066	165AA4A	7SCAN	NORM,63.54,23.35	Check S/P Position	2R3	4	0	4,980,538:90:0	
1321	99	124	12:46:18.733	165KW4A	7SCAN	NORM,69.813,24.2	Check S/P Position	2R3	4	0	4,980,550:67:0	
1322	99	124	12:47:11.400		DMS:	: *E4-DELAY	RDY, TRACK *1, FWD, TIC 244.94 +/-	2R3	4	0	4,980,551:55:0	
1323	99	124	12:47:11.400	175KW422A6A	6DMSC	R115,3	DMS Control	2R3	4	0	4,980,551:55:0	
1324	99	124	12:47:18.066		DMS:	: *RUNUP	R115, TRACK *3, FWD, TIC 244.94 +/-	2R3	4	0	4,980,551:65:0	
1325	99	124	12:47:21.400	175KW176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,980,551:70:0	
1326	99	124	12:47:22.066		DMS:	: *RECORD	R115, TRACK 3, FWD, TIC * 251.24 +/-	2R3	4	0	4,980,551:71:0	
1327	99	124	12:47:22.066		DMS:	: *AT_SPD	R115, TRACK 3, FWD, TIC 251.24 +/-	2R3	4	0	4,980,551:71:0	
1328	99	124	12:47:27.400	165AB4A	7SCAN	NORM,63.904,23.4	Check S/P Position	2R3	4	0	4,980,551:79:0	
1329	99	124	12:47:35.400		DMS:	: *RUNDOWN	R115, TRACK 3, FWD, TIC * 298.12 +/-	2R3	4	0	4,980,552:00:0	
1330	99	124	12:47:35.400	175KW422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,980,552:00:0	
1331	99	124	12:47:36.600		DMS:	: *READY	RDY, TRACK 3, FWD, TIC * 299.12 +/-	2R3	4	0	4,980,552:01:8	
1332	99	124	12:48:04.733	488AH6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2R3	4	0	4,980,552:44:0	
1333	99	124	12:57:46.733	165KX4A	7SCAN	NORM,70.238999,2	Check S/P Position	2R3	4	0	4,980,562:07:0	
1334	99	124	12:58:18.733	175KX422A6A	6DMSC	R115,3	DMS Control	2R3	4	0	4,980,562:55:0	
1335	99	124	12:58:18.733		DMS:	: *E4-DELAY	RDY, TRACK *1, FWD, TIC 299.12 +/-	2R3	4	0	4,980,562:55:0	
1336	99	124	12:58:25.400		DMS:	: *RUNUP	R115, TRACK *3, FWD, TIC 299.12 +/-	2R3	4	0	4,980,562:65:0	
1337	99	124	12:58:28.733	175KX176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,980,562:70:0	
1338	99	124	12:58:29.400		DMS:	: *AT_SPD	R115, TRACK 3, FWD, TIC 305.42 +/-	2R3	4	0	4,980,562:71:0	
1339	99	124	12:58:29.400		DMS:	: *RECORD	R115, TRACK 3, FWD, TIC * 305.42 +/-	2R3	4	0	4,980,562:71:0	
1340	99	124	12:58:34.733	165AC4A	7SCAN	NORM,64.334,23.4	Check S/P Position	2R3	4	0	4,980,562:79:0	
1341	99	124	12:58:42.733	175KX422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,980,563:00:0	
1342	99	124	12:58:42.733		DMS:	: *RUNDOWN	R115, TRACK 3, FWD, TIC * 352.29 +/-	2R3	4	0	4,980,563:00:0	
1343	99	124	12:58:43.933		DMS:	: *READY	RDY, TRACK 3, FWD, TIC * 353.29 +/-	2R3	4	0	4,980,563:01:8	
1344	99	124	13:01:49.400	165LW4A	7SCAN	NORM,69.863,24.2	Check S/P Position	2R3	4	0	4,980,566:07:0	
1345	99	124	13:02:21.400	175LW422A6A	6DMSC	R115,3	DMS Control	2R3	4	0	4,980,566:55:0	
1346	99	124	13:02:21.400		DMS:	: *E4-DELAY	RDY, TRACK *1, FWD, TIC 353.29 +/-	2R3	4	0	4,980,566:55:0	
1347	99	124	13:02:28.066		DMS:	: *RUNUP	R115, TRACK *3, FWD, TIC 353.29 +/-	2R3	4	0	4,980,566:65:0	
1348	99	124	13:02:31.400	175LW176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,980,566:70:0	
1349	99	124	13:02:32.066		DMS:	: *RECORD	R115, TRACK 3, FWD, TIC * 359.59 +/-	2R3	4	0	4,980,566:71:0	
1350	99	124	13:02:32.066		DMS:	: *AT_SPD	R115, TRACK 3, FWD, TIC 359.59 +/-	2R3	4	0	4,980,566:71:0	
1351	99	124	13:02:37.400	165AD4A	7SCAN	NORM,64.488999,2	Check S/P Position	2R3	4	0	4,980,566:79:0	
1352	99	124	13:02:45.400		DMS:	: *RUNDOWN	R115, TRACK 3, FWD, TIC * 406.47 +/-	2R3	4	0	4,980,567:00:0	
1353	99	124	13:02:45.400	175LW422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,980,567:00:0	
1354	99	124	13:02:46.600		DMS:	: *READY	RDY, TRACK 3, FWD, TIC * 407.47 +/-	2R3	4	0	4,980,567:01:8	
1355	99	124	13:08:54.066	165KY4A	7SCAN	NORM,70.655999,2	Check S/P Position	2R3	4	0	4,980,573:07:0	
1356	99	124	13:09:26.066		DMS:	: *E4-DELAY	RDY, TRACK *1, FWD, TIC 407.47 +/-	2R3	4	0	4,980,573:55:0	
1357	99	124	13:09:26.066	175KY422A6A	6DMSC	R115,3	DMS Control	2R3	4	0	4,980,573:55:0	
1358	99	124	13:09:32.733		DMS:	: *RUNUP	R115, TRACK *3, FWD, TIC 407.47 +/-	2R3	4	0	4,980,573:65:0	
1359	99	124	13:09:36.066	175KY176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,980,573:70:0	
1360	99	124	13:09:36.733		DMS:	: *RECORD	R115, TRACK 3, FWD, TIC * 413.77 +/-	2R3	4	0	4,980,573:71:0	
1361	99	124	13:09:36.733		DMS:	: *AT_SPD	R115, TRACK 3, FWD, TIC 413.77 +/-	2R3	4	0	4,980,573:71:0	
1362	99	124	13:09:50.066		DMS:	: *RUNDOWN	R115, TRACK 3, FWD, TIC * 460.64 +/-	2R3	4	0	4,980,574:00:0	
1363	99	124	13:09:50.066	175KY422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,980,574:00:0	
1364	99	124	13:09:51.266		DMS:	: *READY	RDY, TRACK 3, FWD, TIC * 461.64 +/-	2R3	4	0	4,980,574:01:8	
1365	99	124	13:12:56.733	165LX4A	7SCAN	NORM,70.285999,2	Check S/P Position	2R3	4	0	4,980,577:07:0	
1366	99	124	13:13:28.733	175LX422A6A	6DMSC	R115,3	DMS Control	2R3	4	0	4,980,577:55:0	
1367	99	124	13:13:28.733		DMS:	: *E4-DELAY	RDY, TRACK *1, FWD, TIC 461.64 +/-	2R3	4	0	4,980,577:55:0	
1368	99	124	13:13:35.400		DMS:	: *RUNUP	R115, TRACK *3, FWD, TIC 461.64 +/-	2R3	4	0	4,980,577:65:0	
1369	99	124	13:13:38.733	175LX176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,980,577:70:0	
1370	99	124	13:13:39.400		DMS:	: *RECORD	R115, TRACK 3, FWD, TIC * 467.94 +/-	2R3	4	0	4,980,577:71:0	
1371	99	124	13:13:39.400		DMS:	: *AT_SPD	R115, TRACK 3, FWD, TIC 467.94 +/-	2R3	4	0	4,980,577:71:0	
1372	99	124	13:13:52.733		DMS:	: *RUNDOWN	R115, TRACK 3, FWD, TIC * 514.82 +/-	2R3	4	0	4,980,578:00:0	
1373	99	124	13:13:52.733	175LX422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,980,578:00:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1374	99	124	13:13:53.933		DMS:	:*READY	RDY, TRACK 3, FWD, TIC * 515.82 +/-	2R3	4	0	4,980,578:01:8	
1375	99	124	13:16:59.400	165LB4A	7SCAN	NORM,69.855,24.2	Check S/P Position	2R3	4	0	4,980,581:07:0	
1376	99	124	13:17:31.400		DMS:	:*E4-DELAY	RDY, TRACK *1, FWD, TIC 515.82 +/-	2R3	4	0	4,980,581:55:0	
1377	99	124	13:17:31.400	175LB422A6A	6DMSC	R115,3	DMS Control	2R3	4	0	4,980,581:55:0	
1378	99	124	13:17:38.066		DMS:	:*RUNUP	R115, TRACK *3, FWD, TIC 515.82 +/-	2R3	4	0	4,980,581:65:0	
1379	99	124	13:17:41.400	175LB176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,980,581:70:0	
1380	99	124	13:17:42.066		DMS:	:*AT SPD	R115, TRACK 3, FWD, TIC 522.12 +/-	2R3	4	0	4,980,581:71:0	
1381	99	124	13:17:42.066		DMS:	:*RECORD	R115, TRACK 3, FWD, TIC * 522.12 +/-	2R3	4	0	4,980,581:71:0	
1382	99	124	13:17:55.400	175LB422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,980,582:00:0	
1383	99	124	13:17:55.400		DMS:	:*RUNDOWN	R115, TRACK 3, FWD, TIC * 568.99 +/-	2R3	4	0	4,980,582:00:0	
1384	99	124	13:17:56.600		DMS:	:*READY	RDY, TRACK 3, FWD, TIC * 569.99 +/-	2R3	4	0	4,980,582:01:8	
1385	99	124	13:18:12.733	488AH6B	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	2R3	4	0	4,980,582:26:0	
1386	99	124	13:20:01.400	165KZ4A	7SCAN	NORM,71.068,24.4	Check S/P Position	2R3	4	0	4,980,584:07:0	
1387	99	124	13:20:33.400		DMS:	:*E4-DELAY	RDY, TRACK *1, FWD, TIC 569.99 +/-	2R3	4	0	4,980,584:55:0	
1388	99	124	13:20:33.400	175KZ422A6A	6DMSC	R115,3	DMS Control	2R3	4	0	4,980,584:55:0	
1389	99	124	13:20:40.066		DMS:	:*RUNUP	R115, TRACK *3, FWD, TIC 569.99 +/-	2R3	4	0	4,980,584:65:0	
1390	99	124	13:20:43.400	175KZ176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,980,584:70:0	
1391	99	124	13:20:44.066		DMS:	:*RECORD	R115, TRACK 3, FWD, TIC * 576.29 +/-	2R3	4	0	4,980,584:71:0	
1392	99	124	13:20:44.066		DMS:	:*AT SPD	R115, TRACK 3, FWD, TIC 576.29 +/-	2R3	4	0	4,980,584:71:0	
1393	99	124	13:20:57.400	175KZ422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,980,585:00:0	
1394	99	124	13:20:57.400		DMS:	:*RUNDOWN	R115, TRACK 3, FWD, TIC * 623.17 +/-	2R3	4	0	4,980,585:00:0	
1395	99	124	13:20:58.600		DMS:	:*READY	RDY, TRACK 3, FWD, TIC * 624.17 +/-	2R3	4	0	4,980,585:01:8	
1396	99	124	13:24:04.066	165LY4A	7SCAN	NORM,70.698999,2	Check S/P Position	2R3	4	0	4,980,588:07:0	
1397	99	124	13:24:36.066	175LY422A6A	6DMSC	R115,3	DMS Control	2R3	4	0	4,980,588:55:0	
1398	99	124	13:24:36.066		DMS:	:*E4-DELAY	RDY, TRACK *1, FWD, TIC 624.17 +/-	2R3	4	0	4,980,588:55:0	
1399	99	124	13:24:42.733		DMS:	:*RUNUP	R115, TRACK *3, FWD, TIC 624.17 +/-	2R3	4	0	4,980,588:55:0	
1400	99	124	13:24:46.066	175LY176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,980,588:70:0	
1401	99	124	13:24:46.733		DMS:	:*AT SPD	R115, TRACK 3, FWD, TIC 630.47 +/-	2R3	4	0	4,980,588:71:0	
1402	99	124	13:24:46.733		DMS:	:*RECORD	R115, TRACK 3, FWD, TIC * 630.47 +/-	2R3	4	0	4,980,588:71:0	
1403	99	124	13:25:00.066	175LY422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,980,589:00:0	
1404	99	124	13:25:00.066		DMS:	:*RUNDOWN	R115, TRACK 3, FWD, TIC * 677.34 +/-	2R3	4	0	4,980,589:00:0	
1405	99	124	13:25:01.266		DMS:	:*READY	RDY, TRACK 3, FWD, TIC * 678.34 +/-	2R3	4	0	4,980,589:01:8	
1406	99	124	13:28:06.733	165LC4A	7SCAN	NORM,70.275999,2	Check S/P Position	2R3	4	0	4,980,592:07:0	
1407	99	124	13:28:38.733	175LC422A6A	6DMSC	R115,3	DMS Control	2R3	4	0	4,980,592:55:0	
1408	99	124	13:28:38.733		DMS:	:*E4-DELAY	RDY, TRACK *1, FWD, TIC 678.34 +/-	2R3	4	0	4,980,592:55:0	
1409	99	124	13:28:45.400		DMS:	:*RUNUP	R115, TRACK *3, FWD, TIC 678.34 +/-	2R3	4	0	4,980,592:65:0	
1410	99	124	13:28:48.733	175LC176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,980,592:70:0	
1411	99	124	13:28:49.400		DMS:	:*RECORD	R115, TRACK 3, FWD, TIC * 684.64 +/-	2R3	4	0	4,980,592:71:0	
1412	99	124	13:28:49.400		DMS:	:*AT SPD	R115, TRACK 3, FWD, TIC 684.64 +/-	2R3	4	0	4,980,592:71:0	
1413	99	124	13:29:02.733		DMS:	:*RUNDOWN	R115, TRACK 3, FWD, TIC * 731.52 +/-	2R3	4	0	4,980,593:00:0	
1414	99	124	13:29:02.733	175LC422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,980,593:00:0	
1415	99	124	13:29:03.933		DMS:	:*READY	RDY, TRACK 3, FWD, TIC * 732.52 +/-	2R3	4	0	4,980,593:01:8	
1416	99	124	13:32:09.400	165KD4A	7SCAN	NORM,69.806999,2	Check S/P Position	2R3	4	0	4,980,596:07:0	
1417	99	124	13:32:41.400		DMS:	:*E4-DELAY	RDY, TRACK *1, FWD, TIC 732.52 +/-	2R3	4	0	4,980,596:55:0	
1418	99	124	13:32:41.400	175KD422A6A	6DMSC	R115,3	DMS Control	2R3	4	0	4,980,596:55:0	
1419	99	124	13:32:48.066		DMS:	:*RUNUP	R115, TRACK *3, FWD, TIC 732.52 +/-	2R3	4	0	4,980,596:65:0	
1420	99	124	13:32:51.400	175KD176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,980,596:70:0	
1421	99	124	13:32:52.066		DMS:	:*AT SPD	R115, TRACK 3, FWD, TIC 738.82 +/-	2R3	4	0	4,980,596:71:0	
1422	99	124	13:32:52.066		DMS:	:*RECORD	R115, TRACK 3, FWD, TIC * 738.82 +/-	2R3	4	0	4,980,596:71:0	
1423	99	124	13:33:05.400		DMS:	:*RUNDOWN	R115, TRACK 3, FWD, TIC * 785.69 +/-	2R3	4	0	4,980,597:00:0	
1424	99	124	13:33:05.400	175KD422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,980,597:00:0	
1425	99	124	13:33:06.600		DMS:	:*READY	RDY, TRACK 3, FWD, TIC * 786.69 +/-	2R3	4	0	4,980,597:01:8	
1426	99	124	13:35:11.400	165LZ4A	7SCAN	NORM,71.106999,2	Check S/P Position	2R3	4	0	4,980,599:07:0	
1427	99	124	13:35:43.400	175LZ422A6A	6DMSC	R115,3	DMS Control	2R3	4	0	4,980,599:55:0	
1428	99	124	13:35:43.400		DMS:	:*E4-DELAY	RDY, TRACK *1, FWD, TIC 786.69 +/-	2R3	4	0	4,980,599:55:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1429	99	124	13:35:50.066		DMS:	:*RUNUP	R115, TRACK *3, FWD, TIC 786.69 +/-	2R3	4	0	4,980,599:65:0	
1430	99	124	13:35:53.400	175LZ176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,980,599:70:0	
1431	99	124	13:35:54.066		DMS:	:*AT_SPD	R115, TRACK 3, FWD, TIC 792.99 +/-	2R3	4	0	4,980,599:71:0	
1432	99	124	13:35:54.066		DMS:	:*RECORD	R115, TRACK 3, FWD, TIC *792.99 +/-	2R3	4	0	4,980,599:71:0	
1433	99	124	13:36:07.400		DMS:	:*RUNDOWN	R115, TRACK 3, FWD, TIC *839.87 +/-	2R3	4	0	4,980,600:00:0	
1434	99	124	13:36:07.400	175LZ422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,980,600:00:0	
1435	99	124	13:36:08.600		DMS:	:*READY	RDY, TRACK 3, FWD, TIC *840.87 +/-	2R3	4	0	4,980,600:01:8	
1436	99	124	13:39:14.066	165LD4A	7SCAN	NORM,70.684999,2	Check S/P Position	2R3	4	0	4,980,603:07:0	
1437	99	124	13:39:46.066	175LD422A6A	6DMSC	R115:3	DMS Control	2R3	4	0	4,980,603:55:0	
1438	99	124	13:39:46.066		DMS:	:*E4-DELAY	RDY, TRACK *1, FWD, TIC 840.87 +/-	2R3	4	0	4,980,603:55:0	
1439	99	124	13:39:52.733		DMS:	:*RUNUP	R115, TRACK *3, FWD, TIC 840.87 +/-	2R3	4	0	4,980,603:65:0	
1440	99	124	13:39:56.066	175LD176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,980,603:70:0	
1441	99	124	13:39:56.733		DMS:	:*RECORD	R115, TRACK 3, FWD, TIC *847.17 +/-	2R3	4	0	4,980,603:71:0	
1442	99	124	13:39:56.733		DMS:	:*AT_SPD	R115, TRACK 3, FWD, TIC 847.17 +/-	2R3	4	0	4,980,603:71:0	
1443	99	124	13:40:10.066		DMS:	:*RUNDOWN	R115, TRACK 3, FWD, TIC *894.04 +/-	2R3	4	0	4,980,604:00:0	
1444	99	124	13:40:10.066	175LD422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,980,604:00:0	
1445	99	124	13:40:11.266		DMS:	:*READY	RDY, TRACK 3, FWD, TIC *895.04 +/-	2R3	4	0	4,980,604:01:8	
1446	99	124	13:43:16.733	165QA4A	7SCAN	NORM,70.224,24.3	Check S/P Position	2R3	4	0	4,980,607:07:0	
1447	99	124	13:43:48.733		DMS:	:*E4-DELAY	RDY, TRACK *1, FWD, TIC 895.04 +/-	2R3	4	0	4,980,607:55:0	
1448	99	124	13:43:48.733	175QA422A6A	6DMSC	R115:3	DMS Control	2R3	4	0	4,980,607:55:0	
1449	99	124	13:43:55.400		DMS:	:*RUNUP	R115, TRACK *3, FWD, TIC 895.04 +/-	2R3	4	0	4,980,607:65:0	
1450	99	124	13:43:58.733	175QA176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,980,607:70:0	
1451	99	124	13:43:59.400		DMS:	:*RECORD	R115, TRACK 3, FWD, TIC *901.34 +/-	2R3	4	0	4,980,607:71:0	
1452	99	124	13:43:59.400		DMS:	:*AT_SPD	R115, TRACK 3, FWD, TIC 901.34 +/-	2R3	4	0	4,980,607:71:0	
1453	99	124	13:44:12.733		DMS:	:*RUNDOWN	R115, TRACK 3, FWD, TIC *948.22 +/-	2R3	4	0	4,980,608:00:0	
1454	99	124	13:44:12.733	175QA422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,980,608:00:0	
1455	99	124	13:44:13.933		DMS:	:*READY	RDY, TRACK 3, FWD, TIC *949.22 +/-	2R3	4	0	4,980,608:01:8	
1456	99	124	13:47:19.400	165QF4A	7SCAN	NORM,69.735,24.2	Check S/P Position	2R3	4	0	4,980,611:07:0	
1457	99	124	13:47:51.400		DMS:	:*E4-DELAY	RDY, TRACK *1, FWD, TIC 949.22 +/-	2R3	4	0	4,980,611:55:0	
1458	99	124	13:47:51.400	175QF422A6A	6DMSC	R115:3	DMS Control	2R3	4	0	4,980,611:55:0	
1459	99	124	13:47:58.066		DMS:	:*RUNUP	R115, TRACK *3, FWD, TIC 949.22 +/-	2R3	4	0	4,980,611:65:0	
1460	99	124	13:48:01.400	175QF176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,980,611:70:0	
1461	99	124	13:48:02.066		DMS:	:*AT_SPD	R115, TRACK 3, FWD, TIC 955.52 +/-	2R3	4	0	4,980,611:71:0	
1462	99	124	13:48:02.066		DMS:	:*RECORD	R115, TRACK 3, FWD, TIC *955.52 +/-	2R3	4	0	4,980,611:71:0	
1463	99	124	13:48:15.400	175QF422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,980,612:00:0	
1464	99	124	13:48:15.400		DMS:	:*RUNDOWN	R115, TRACK 3, FWD, TIC *1002.39 +/-	2R3	4	0	4,980,612:00:0	
1465	99	124	13:48:16.600		DMS:	:*READY	RDY, TRACK 3, FWD, TIC *1003.39 +/-	2R3	4	0	4,980,612:01:8	
1466	99	124	13:50:21.400	165LE4A	7SCAN	NORM,71.089999,2	Check S/P Position	2R3	4	0	4,980,614:07:0	
1467	99	124	13:50:53.400		DMS:	:*E4-DELAY	RDY, TRACK *1, FWD, TIC 1003.39 +/-	2R3	4	0	4,980,614:55:0	
1468	99	124	13:50:53.400	175LE422A6A	6DMSC	R115:3	DMS Control	2R3	4	0	4,980,614:55:0	
1469	99	124	13:51:00.066		DMS:	:*RUNUP	R115, TRACK *3, FWD, TIC 1003.39 +/-	2R3	4	0	4,980,614:65:0	
1470	99	124	13:51:03.400	175LE176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,980,614:70:0	
1471	99	124	13:51:04.066		DMS:	:*AT_SPD	R115, TRACK 3, FWD, TIC 1009.69 +/-	2R3	4	0	4,980,614:71:0	
1472	99	124	13:51:04.066		DMS:	:*RECORD	R115, TRACK 3, FWD, TIC *1009.69 +/-	2R3	4	0	4,980,614:71:0	
1473	99	124	13:51:17.400		DMS:	:*RUNDOWN	R115, TRACK 3, FWD, TIC *1056.57 +/-	2R3	4	0	4,980,615:00:0	
1474	99	124	13:51:17.400	175LE422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,980,615:00:0	
1475	99	124	13:51:18.600		DMS:	:*READY	RDY, TRACK 3, FWD, TIC *1057.57 +/-	2R3	4	0	4,980,615:01:8	
1476	99	124	13:54:24.066	165QB4A	7SCAN	NORM,70.631,24.3	Check S/P Position	2R3	4	0	4,980,618:07:0	
1477	99	124	13:54:56.066		DMS:	:*E4-DELAY	RDY, TRACK *1, FWD, TIC 1057.57 +/-	2R3	4	0	4,980,618:55:0	
1478	99	124	13:54:56.066	175QB422A6A	6DMSC	R115:3	DMS Control	2R3	4	0	4,980,618:55:0	
1479	99	124	13:55:02.733		DMS:	:*RUNUP	R115, TRACK *3, FWD, TIC 1057.57 +/-	2R3	4	0	4,980,618:65:0	
1480	99	124	13:55:06.066	175QB176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,980,618:70:0	
1481	99	124	13:55:06.733		DMS:	:*RECORD	R115, TRACK 3, FWD, TIC *1063.87 +/-	2R3	4	0	4,980,618:71:0	
1482	99	124	13:55:06.733		DMS:	:*AT_SPD	R115, TRACK 3, FWD, TIC 1063.87 +/-	2R3	4	0	4,980,618:71:0	
1483	99	124	13:55:20.066	175QB422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,980,619:00:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1484	99	124	13:55:20.066		DMS:	: *RUNDOWN	R115, TRACK 3, FWD, TIC *1110.74 +/- 1	2R3	4	0	4,980,619:00:0	
1485	99	124	13:55:21.266		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *1111.74 +/- 1	2R3	4	0	4,980,619:01:8	
1486	99	124	13:58:26.733	165QG4A	7SCAN	NORM,70.15,24.30	Check S/P Position	2R3	4	0	4,980,622:07:0	
1487	99	124	13:58:58.733		DMS:	: *E4-DELAY	RDY, TRACK *1, FWD, TIC 1111.74 +/- 1	2R3	4	0	4,980,622:55:0	
1488	99	124	13:58:58.733	175QG422A6A	6DMSC	R115:3	DMS Control	2R3	4	0	4,980,622:55:0	
1489	99	124	13:59:05.400		DMS:	: *RUNUP	R115, TRACK *3, FWD, TIC 1111.74 +/- 1	2R3	4	0	4,980,622:65:0	
1490	99	124	13:59:08.733	175QG176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,980,622:70:0	
1491	99	124	13:59:09.400		DMS:	: *RECORD	R115, TRACK 3, FWD, TIC *1118.04 +/- 1	2R3	4	0	4,980,622:71:0	
1492	99	124	13:59:09.400		DMS:	: *AT_SPD	R115, TRACK 3, FWD, TIC 1118.04 +/- 1	2R3	4	0	4,980,622:71:0	
1493	99	124	13:59:22.733		DMS:	: *RUNDOWN	R115, TRACK 3, FWD, TIC *1164.92 +/- 1	2R3	4	0	4,980,623:00:0	
1494	99	124	13:59:22.733	175QG422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,980,623:00:0	
1495	99	124	13:59:23.933		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *1165.92 +/- 1	2R3	4	0	4,980,623:01:8	
1496	99	124	14:00:16.733	488AH6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2R3	4	0	4,980,623:81:0	
1497	99	124	14:02:29.400	165QL4A	7SCAN	NORM,69.657,24.2	Check S/P Position	2R3	4	0	4,980,626:07:0	
1498	99	124	14:03:01.400	175QL422A6A	6DMSC	R115:3	DMS Control	2R3	4	0	4,980,626:55:0	
1499	99	124	14:03:01.400		DMS:	: *E4-DELAY	RDY, TRACK *1, FWD, TIC 1165.92 +/- 1	2R3	4	0	4,980,626:55:0	
1500	99	124	14:03:08.066		DMS:	: *RUNUP	R115, TRACK *3, FWD, TIC 1165.92 +/- 1	2R3	4	0	4,980,626:65:0	
1501	99	124	14:03:11.400	175QL176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,980,626:70:0	
1502	99	124	14:03:12.066		DMS:	: *AT_SPD	R115, TRACK 3, FWD, TIC 1172.22 +/- 1	2R3	4	0	4,980,626:71:0	
1503	99	124	14:03:12.066		DMS:	: *RECORD	R115, TRACK 3, FWD, TIC *1172.22 +/- 1	2R3	4	0	4,980,626:71:0	
1504	99	124	14:03:25.400		DMS:	: *RUNDOWN	R115, TRACK 3, FWD, TIC *1219.09 +/- 1	2R3	4	0	4,980,627:00:0	
1505	99	124	14:03:25.400	175QL422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,980,627:00:0	
1506	99	124	14:03:26.600		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *1220.09 +/- 1	2R3	4	0	4,980,627:01:8	
1507	99	124	14:05:31.400	165QC4A	7SCAN	NORM,71.033,24.4	Check S/P Position	2R3	4	0	4,980,629:07:0	
1508	99	124	14:06:03.400		DMS:	: *E4-DELAY	RDY, TRACK *1, FWD, TIC 1220.09 +/- 1	2R3	4	0	4,980,629:55:0	
1509	99	124	14:06:03.400	175QC422A6A	6DMSC	R115:3	DMS Control	2R3	4	0	4,980,629:55:0	
1510	99	124	14:06:10.066		DMS:	: *RUNUP	R115, TRACK *3, FWD, TIC 1220.09 +/- 1	2R3	4	0	4,980,629:65:0	
1511	99	124	14:06:13.400	175QC176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,980,629:70:0	
1512	99	124	14:06:14.066		DMS:	: *AT_SPD	R115, TRACK 3, FWD, TIC 1226.39 +/- 1	2R3	4	0	4,980,629:71:0	
1513	99	124	14:06:14.066		DMS:	: *RECORD	R115, TRACK 3, FWD, TIC *1226.39 +/- 1	2R3	4	0	4,980,629:71:0	
1514	99	124	14:06:15.400	165AQ4A	7SCAN	NORM,70.089,26.8	Check S/P Position	2R3	4	0	4,980,629:73:0	
1515	99	124	14:06:27.400		DMS:	: *RUNDOWN	R115, TRACK 3, FWD, TIC *1273.27 +/- 1	2R3	4	0	4,980,630:00:0	
1516	99	124	14:06:27.400	175QC422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,980,630:00:0	
1517	99	124	14:06:28.600		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *1274.27 +/- 1	2R3	4	0	4,980,630:01:8	
1518	99	124	14:09:34.066	165QH4A	7SCAN	NORM,70.552999,2	Check S/P Position	2R3	4	0	4,980,633:07:0	
1519	99	124	14:10:06.066		DMS:	: *E4-DELAY	RDY, TRACK *1, FWD, TIC 1274.27 +/- 1	2R3	4	0	4,980,633:55:0	
1520	99	124	14:10:06.066	175QH422A6A	6DMSC	R115:3	DMS Control	2R3	4	0	4,980,633:55:0	
1521	99	124	14:10:12.733		DMS:	: *RUNUP	R115, TRACK *3, FWD, TIC 1274.27 +/- 1	2R3	4	0	4,980,633:65:0	
1522	99	124	14:10:16.066	175QH176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,980,633:70:0	
1523	99	124	14:10:16.733		DMS:	: *RECORD	R115, TRACK 3, FWD, TIC *1280.57 +/- 1	2R3	4	0	4,980,633:71:0	
1524	99	124	14:10:16.733		DMS:	: *AT_SPD	R115, TRACK 3, FWD, TIC 1280.57 +/- 1	2R3	4	0	4,980,633:71:0	
1525	99	124	14:10:18.733	165AR4A	7SCAN	NORM,70.245,26.8	Check S/P Position	2R3	4	0	4,980,633:74:0	
1526	99	124	14:10:30.066		DMS:	: *RUNDOWN	R115, TRACK 3, FWD, TIC *1327.44 +/- 1	2R3	4	0	4,980,634:00:0	
1527	99	124	14:10:30.066	175QH422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,980,634:00:0	
1528	99	124	14:10:31.266		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *1328.44 +/- 1	2R3	4	0	4,980,634:01:8	
1529	99	124	14:13:36.733	165QM4A	7SCAN	NORM,70.068999,2	Check S/P Position	2R3	4	0	4,980,637:07:0	
1530	99	124	14:14:08.733	175QM422A6A	6DMSC	R115:3	DMS Control	2R3	4	0	4,980,637:55:0	
1531	99	124	14:14:08.733		DMS:	: *E4-DELAY	RDY, TRACK *1, FWD, TIC 1328.44 +/- 1	2R3	4	0	4,980,637:55:0	
1532	99	124	14:14:15.400		DMS:	: *RUNUP	R115, TRACK *3, FWD, TIC 1328.44 +/- 1	2R3	4	0	4,980,637:65:0	
1533	99	124	14:14:18.733	175QM176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,980,637:70:0	
1534	99	124	14:14:19.400		DMS:	: *RECORD	R115, TRACK 3, FWD, TIC *1334.74 +/- 1	2R3	4	0	4,980,637:71:0	
1535	99	124	14:14:19.400		DMS:	: *AT_SPD	R115, TRACK 3, FWD, TIC 1334.74 +/- 1	2R3	4	0	4,980,637:71:0	
1536	99	124	14:14:20.733	165AS4A	7SCAN	NORM,70.4,26.884	Check S/P Position	2R3	4	0	4,980,637:73:0	
1537	99	124	14:14:32.733		DMS:	: *RUNDOWN	R115, TRACK 3, FWD, TIC *1381.62 +/- 1	2R3	4	0	4,980,638:00:0	
1538	99	124	14:14:32.733	175QM422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,980,638:00:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1539	99	124	14:14:33.933		DMS:	:*READY	RDY, TRACK 3, FWD, TIC *1382.62 +/- 1	2R3	4	0	4,980,638	01:8
1540	99	124	14:15:24.066	117AS	CSMOS	GS	**** GROUP START CSMOS	2R3	4	0	4,980,638	77:0
1541	99	124	14:15:33.400	117AS105A106A4A	7STRP	-0.0021,0.0,0.0,	Slew = -0.02	2R3	4	0	4,980,639	00:0
1542	99	124	14:19:05.400	117AS11A	CSMOS	GE	**** GROUP END CSMOS	2R3	4	0	4,980,642	45:0
1543	99	124	14:20:41.400	165QI4A	7SCAN	NORM,70.952,24.3	Check S/P Position	2R3	4	0	4,980,644	07:0
1544	99	124	14:21:13.400		DMS:	:*E4-DELAY	RDY, TRACK *1, FWD, TIC 1382.62 +/- 1	2R3	4	0	4,980,644	55:0
1545	99	124	14:21:13.400	175QI422A6A	6DMSC	R115.3	DMS Control	2R3	4	0	4,980,644	55:0
1546	99	124	14:21:20.066		DMS:	:*RUNUP	R115, TRACK *3, FWD, TIC 1382.62 +/- 1	2R3	4	0	4,980,644	65:0
1547	99	124	14:21:23.400	175QI176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,980,644	70:0
1548	99	124	14:21:24.066		DMS:	:*RECORD	R115, TRACK 3, FWD, TIC *1388.92 +/- 1	2R3	4	0	4,980,644	71:0
1549	99	124	14:21:24.066		DMS:	:*AT_SPD	R115, TRACK 3, FWD, TIC 1388.92 +/- 1	2R3	4	0	4,980,644	71:0
1550	99	124	14:21:25.400	165AT4A	7SCAN	NORM,70.669999,2	Check S/P Position	2R3	4	0	4,980,644	73:0
1551	99	124	14:21:37.400		DMS:	:*RUNDOWN	R115, TRACK 3, FWD, TIC *1435.79 +/- 1	2R3	4	0	4,980,645	00:0
1552	99	124	14:21:37.400	175QI422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,980,645	00:0
1553	99	124	14:21:38.600		DMS:	:*READY	RDY, TRACK 3, FWD, TIC *1436.79 +/- 1	2R3	4	0	4,980,645	01:8
1554	99	124	14:24:44.066	165QN4A	7SCAN	NORM,70.469999,2	Check S/P Position	2R3	4	0	4,980,648	07:0
1555	99	124	14:25:16.066	175QN422A6A	6DMSC	R115.3	DMS Control	2R3	4	0	4,980,648	55:0
1556	99	124	14:25:16.066		DMS:	:*E4-DELAY	RDY, TRACK *1, FWD, TIC 1436.79 +/- 1	2R3	4	0	4,980,648	55:0
1557	99	124	14:25:22.733		DMS:	:*RUNUP	R115, TRACK *3, FWD, TIC 1436.79 +/- 1	2R3	4	0	4,980,648	65:0
1558	99	124	14:25:26.066	175QN176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,980,648	70:0
1559	99	124	14:25:26.733		DMS:	:*AT_SPD	R115, TRACK 3, FWD, TIC 1443.09 +/- 1	2R3	4	0	4,980,648	71:0
1560	99	124	14:25:26.733		DMS:	:*RECORD	R115, TRACK 3, FWD, TIC *1443.09 +/- 1	2R3	4	0	4,980,648	71:0
1561	99	124	14:25:28.066	165AU4A	7SCAN	NORM,70.823,26.9	Check S/P Position	2R3	4	0	4,980,648	73:0
1562	99	124	14:25:40.066		DMS:	:*RUNDOWN	R115, TRACK 3, FWD, TIC *1489.97 +/- 1	2R3	4	0	4,980,649	00:0
1563	99	124	14:25:40.066	175QN422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,980,649	00:0
1564	99	124	14:25:41.266		DMS:	:*READY	RDY, TRACK 3, FWD, TIC *1490.97 +/- 1	2R3	4	0	4,980,649	01:8
1565	99	124	14:28:46.733	165JM4A	7SCAN	NORM,73.98,24.71	Check S/P Position	2R3	4	0	4,980,652	07:0
1566	99	124	14:29:18.733	175JM422A6A	6DMSC	R115.3	DMS Control	2R3	4	0	4,980,652	55:0
1567	99	124	14:29:18.733		DMS:	:*E4-DELAY	RDY, TRACK *1, FWD, TIC 1490.97 +/- 1	2R3	4	0	4,980,652	55:0
1568	99	124	14:29:25.400		DMS:	:*RUNUP	R115, TRACK *3, FWD, TIC 1490.97 +/- 1	2R3	4	0	4,980,652	65:0
1569	99	124	14:29:28.733	175JM176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,980,652	70:0
1570	99	124	14:29:29.400		DMS:	:*RECORD	R115, TRACK 3, FWD, TIC *1497.27 +/- 1	2R3	4	0	4,980,652	71:0
1571	99	124	14:29:29.400		DMS:	:*AT_SPD	R115, TRACK 3, FWD, TIC 1497.27 +/- 1	2R3	4	0	4,980,652	71:0
1572	99	124	14:29:34.733	165AE4A	7SCAN	NORM,68.084,24.0	Check S/P Position	2R3	4	0	4,980,652	79:0
1573	99	124	14:29:42.733	175JM422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,980,653	00:0
1574	99	124	14:29:42.733		DMS:	:*RUNDOWN	R115, TRACK 3, FWD, TIC *1544.14 +/- 1	2R3	4	0	4,980,653	00:0
1575	99	124	14:29:43.933		DMS:	:*READY	RDY, TRACK 3, FWD, TIC *1545.14 +/- 1	2R3	4	0	4,980,653	01:8
1576	99	124	14:35:51.400	165QO4A	7SCAN	NORM,70.867,24.3	Check S/P Position	2R3	4	0	4,980,659	07:0
1577	99	124	14:36:23.400		DMS:	:*E4-DELAY	RDY, TRACK *1, FWD, TIC 1545.14 +/- 1	2R3	4	0	4,980,659	55:0
1578	99	124	14:36:23.400	175QO422A6A	6DMSC	R115.3	DMS Control	2R3	4	0	4,980,659	55:0
1579	99	124	14:36:30.066		DMS:	:*RUNUP	R115, TRACK *3, FWD, TIC 1545.14 +/- 1	2R3	4	0	4,980,659	65:0
1580	99	124	14:36:33.400	175QO176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,980,659	70:0
1581	99	124	14:36:34.066		DMS:	:*RECORD	R115, TRACK 3, FWD, TIC *1551.44 +/- 1	2R3	4	0	4,980,659	71:0
1582	99	124	14:36:34.066		DMS:	:*AT_SPD	R115, TRACK 3, FWD, TIC 1551.44 +/- 1	2R3	4	0	4,980,659	71:0
1583	99	124	14:36:39.400	165AF4A	7SCAN	NORM,68.335999,2	Check S/P Position	2R3	4	0	4,980,659	79:0
1584	99	124	14:36:47.400		DMS:	:*RUNDOWN	R115, TRACK 3, FWD, TIC *1598.32 +/- 1	2R3	4	0	4,980,660	00:0
1585	99	124	14:36:47.400	175QO422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,980,660	00:0
1586	99	124	14:36:48.600		DMS:	:*READY	RDY, TRACK 3, FWD, TIC *1599.32 +/- 1	2R3	4	0	4,980,660	01:8
1587	99	124	14:39:54.066	165JS4A	7SCAN	NORM,74.365,24.7	Check S/P Position	2R3	4	0	4,980,663	07:0
1588	99	124	14:40:26.066	175JS422A6A	6DMSC	R115.3	DMS Control	2R3	4	0	4,980,663	55:0
1589	99	124	14:40:26.066		DMS:	:*E4-DELAY	RDY, TRACK *1, FWD, TIC 1599.32 +/- 1	2R3	4	0	4,980,663	55:0
1590	99	124	14:40:32.733		DMS:	:*RUNUP	R115, TRACK *3, FWD, TIC 1599.32 +/- 1	2R3	4	0	4,980,663	65:0
1591	99	124	14:40:36.066	175JS176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,980,663	70:0
1592	99	124	14:40:36.733		DMS:	:*AT_SPD	R115, TRACK 3, FWD, TIC 1605.62 +/- 1	2R3	4	0	4,980,663	71:0
1593	99	124	14:40:36.733		DMS:	:*RECORD	R115, TRACK 3, FWD, TIC *1605.62 +/- 1	2R3	4	0	4,980,663	71:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1594	99	124	14:40:42.066	165AG4A	7SCAN	NORM,68.478999,2	Check S/P Position	2R3	4	0	4,980,663.79:0	
1595	99	124	14:40:50.066		DMS:	: *RUNDOWN	R115, TRACK 3, FWD, TIC *1652.49 +/- 1	2R3	4	0	4,980,664.00:0	
1596	99	124	14:40:50.066	175JS422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,980,664.00:0	
1597	99	124	14:40:51.266		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *1653.49 +/- 1	2R3	4	0	4,980,664.01:8	
1598	99	124	14:43:56.733	165JY4A	7SCAN	NORM,74.063999,2	Check S/P Position	2R3	4	0	4,980,667.07:0	
1599	99	124	14:44:28.733		DMS:	: *E4-DELAY	RDY, TRACK *1, FWD, TIC 1653.49 +/- 1	2R3	4	0	4,980,667.55:0	
1600	99	124	14:44:28.733	175JY422A6A	6DMSC	R115.3	DMS Control	2R3	4	0	4,980,667.55:0	
1601	99	124	14:44:35.400		DMS:	: *RUNUP	R115, TRACK *3, FWD, TIC 1653.49 +/- 1	2R3	4	0	4,980,667.65:0	
1602	99	124	14:44:38.733	175JY176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,980,667.70:0	
1603	99	124	14:44:39.400		DMS:	: *RECORD	R115, TRACK 3, FWD, TIC *1659.79 +/- 1	2R3	4	0	4,980,667.71:0	
1604	99	124	14:44:39.400		DMS:	: *AT_SPD	R115, TRACK 3, FWD, TIC 1659.79 +/- 1	2R3	4	0	4,980,667.71:0	
1605	99	124	14:44:42.066	165CC4A	7SCAN	NORM,68.62,24.11	Check S/P Position	2R3	4	0	4,980,667.75:0	
1606	99	124	14:44:52.733	175JY422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,980,668.00:0	
1607	99	124	14:44:52.733		DMS:	: *RUNDOWN	R115, TRACK 3, FWD, TIC *1706.67 +/- 1	2R3	4	0	4,980,668.00:0	
1608	99	124	14:44:53.933		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *1707.67 +/- 1	2R3	4	0	4,980,668.01:8	
1609	99	124	14:55:04.066	165LA4A	7SCAN	NORM,74.445999,2	Check S/P Position	2R3	4	0	4,980,678.07:0	
1610	99	124	14:55:36.066	175LA422A6A	6DMSC	R115.3	DMS Control	2R3	4	0	4,980,678.55:0	
1611	99	124	14:55:36.066		DMS:	: *E4-DELAY	RDY, TRACK *1, FWD, TIC 1707.67 +/- 1	2R3	4	0	4,980,678.55:0	
1612	99	124	14:55:42.733		DMS:	: *RUNUP	R115, TRACK *3, FWD, TIC 1707.67 +/- 1	2R3	4	0	4,980,678.65:0	
1613	99	124	14:55:46.066	175LA176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,980,678.70:0	
1614	99	124	14:55:46.733		DMS:	: *AT_SPD	R115, TRACK 3, FWD, TIC 1713.97 +/- 1	2R3	4	0	4,980,678.71:0	
1615	99	124	14:55:46.733		DMS:	: *RECORD	R115, TRACK 3, FWD, TIC *1713.97 +/- 1	2R3	4	0	4,980,678.71:0	
1616	99	124	14:55:49.400	165GX4A	7SCAN	NORM,69.009999,2	Check S/P Position	2R3	4	0	4,980,678.75:0	
1617	99	124	14:56:00.066	175LA422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,980,679.00:0	
1618	99	124	14:56:00.066		DMS:	: *RUNDOWN	R115, TRACK 3, FWD, TIC *1760.84 +/- 1	2R3	4	0	4,980,679.00:0	
1619	99	124	14:56:01.266		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *1761.84 +/- 2	2R3	4	0	4,980,679.01:8	
1620	99	124	14:59:06.733	165LF4A	7SCAN	NORM,74.08,24.72	Check S/P Position	2R3	4	0	4,980,682.07:0	
1621	99	124	14:59:38.733	175LF422A6A	6DMSC	R115.3	DMS Control	2R3	4	0	4,980,682.55:0	
1622	99	124	14:59:38.733		DMS:	: *E4-DELAY	RDY, TRACK *1, FWD, TIC 1761.84 +/- 2	2R3	4	0	4,980,682.55:0	
1623	99	124	14:59:45.400		DMS:	: *RUNUP	R115, TRACK *3, FWD, TIC 1761.84 +/- 2	2R3	4	0	4,980,682.65:0	
1624	99	124	14:59:48.733	175LF176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,980,682.70:0	
1625	99	124	14:59:49.400		DMS:	: *AT_SPD	R115, TRACK 3, FWD, TIC 1768.14 +/- 2	2R3	4	0	4,980,682.71:0	
1626	99	124	14:59:49.400		DMS:	: *RECORD	R115, TRACK 3, FWD, TIC *1768.14 +/- 2	2R3	4	0	4,980,682.71:0	
1627	99	124	14:59:52.066	165GW4A	7SCAN	NORM,69.150999,2	Check S/P Position	2R3	4	0	4,980,682.75:0	
1628	99	124	15:00:02.733	175LF422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,980,683.00:0	
1629	99	124	15:00:02.733		DMS:	: *RUNDOWN	R115, TRACK 3, FWD, TIC *1815.02 +/- 2	2R3	4	0	4,980,683.00:0	
1630	99	124	15:00:03.933		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *1816.02 +/- 2	2R3	4	0	4,980,683.01:8	
1631	99	124	15:03:31.400	488AH6D	6TMSED	NORM,AL4	Sci. Eng. and D/L Chan	2R3	4	0	4,980,686.40:0	
1632	99	124	15:06:26.733	165KS4A	7SCAN	NORM,73.398999,2	Check S/P Position	2R3	4	0	4,980,689.30:0	
1633	99	124	15:07:04.066	175KS422A6A	6DMSC	R115.3	DMS Control	2R3	4	0	4,980,689.86:0	
1634	99	124	15:07:04.066		DMS:	: *E4-DELAY	RDY, TRACK *1, FWD, TIC 1816.02 +/- 2	2R3	4	0	4,980,689.86:0	
1635	99	124	15:07:10.733		DMS:	: *RUNUP	R115, TRACK *3, FWD, TIC 1816.02 +/- 2	2R3	4	0	4,980,690.05:0	
1636	99	124	15:07:14.066	175KS176A6A	6TMREC	HIM	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,980,690.10:0	
1637	99	124	15:07:14.733		DMS:	: *AT_SPD	R115, TRACK 3, FWD, TIC 1822.32 +/- 2	2R3	4	0	4,980,690.11:0	
1638	99	124	15:07:14.733		DMS:	: *RECORD	R115, TRACK 3, FWD, TIC *1822.32 +/- 2	2R3	4	0	4,980,690.11:0	
1639	99	124	15:08:08.066		DMS:	: *RUNDOWN	R115, TRACK 3, FWD, TIC *2009.82 +/- 2	2R3	4	0	4,980,691.00:0	
1640	99	124	15:08:08.066	175KS422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,980,691.00:0	
1641	99	124	15:08:09.266		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *2010.82 +/- 2	2R3	4	0	4,980,691.01:8	
1642	99	124	15:10:14.066	165LG4A	7SCAN	NORM,74.459,24.7	Check S/P Position	2R3	4	0	4,980,693.07:0	
1643	99	124	15:10:46.066		DMS:	: *E4-DELAY	RDY, TRACK *1, FWD, TIC 2010.82 +/- 2	2R3	4	0	4,980,693.55:0	
1644	99	124	15:10:46.066	175LG422A6A	6DMSC	R115.3	DMS Control	2R3	4	0	4,980,693.55:0	
1645	99	124	15:10:52.733		DMS:	: *RUNUP	R115, TRACK *3, FWD, TIC 2010.82 +/- 2	2R3	4	0	4,980,693.65:0	
1646	99	124	15:10:56.066	175LG176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,980,693.70:0	
1647	99	124	15:10:56.733		DMS:	: *AT_SPD	R115, TRACK 3, FWD, TIC 2017.12 +/- 2	2R3	4	0	4,980,693.71:0	
1648	99	124	15:10:56.733		DMS:	: *RECORD	R115, TRACK 3, FWD, TIC *2017.12 +/- 2	2R3	4	0	4,980,693.71:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1649	99	124	15:11:10.066		DMS:	: *RUNDOWN	R115, TRACK 3, FWD, TIC *2063.99 +/- 2	2R3	4	0	4,980,694:00:0	
1650	99	124	15:11:10.066	175LG422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,980,694:00:0	
1651	99	124	15:11:11.266		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *2064.99 +/- 2	2R3	4	0	4,980,694:01:8	
1652	99	124	15:14:16.733	165QD4A	7SCAN	NORM,74.040999,2	Check S/P Position	2R3	4	0	4,980,697:07:0	
1653	99	124	15:14:48.733		DMS:	: *E4-DELAY	RDY, TRACK *1, FWD, TIC 2064.99 +/- 2	2R3	4	0	4,980,697:55:0	
1654	99	124	15:14:48.733	175QD422A6A	6DMSC	R115,3	DMS Control	2R3	4	0	4,980,697:55:0	
1655	99	124	15:14:55.400		DMS:	: *RUNUP	R115, TRACK *3, FWD, TIC 2064.99 +/- 2	2R3	4	0	4,980,697:65:0	
1656	99	124	15:14:58.733	175QD176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,980,697:70:0	
1657	99	124	15:14:59.400		DMS:	: *AT_SPD	R115, TRACK 3, FWD, TIC 2071.29 +/- 2	2R3	4	0	4,980,697:71:0	
1658	99	124	15:14:59.400		DMS:	: *RECORD	R115, TRACK 3, FWD, TIC *2071.29 +/- 2	2R3	4	0	4,980,697:71:0	
1659	99	124	15:15:00.733	165AW4A	7SCAN	NORM,72.698,27.0	Check S/P Position	2R3	4	0	4,980,697:73:0	
1660	99	124	15:15:12.733		DMS:	: *RUNDOWN	R115, TRACK 3, FWD, TIC *2118.17 +/- 2	2R3	4	0	4,980,698:00:0	
1661	99	124	15:15:12.733	175QD422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,980,698:00:0	
1662	99	124	15:15:13.933		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *2119.17 +/- 2	2R3	4	0	4,980,698:01:8	
1663	99	124	15:16:04.066	117AW	CSMOS	GS	***** GROUP START CSMOS	2R3	4	0	4,980,698:77:0	
1664	99	124	15:16:13.400	117AW105A106A4A	7STRP	-0.0021,0.0,0.0,	Slew = 0.02	2R3	4	0	4,980,699:00:0	
1665	99	124	15:19:45.400	117AW105A106A4B	7STRP	0.00001,0.0,0.0,	Slew = 12.01	2R3	4	0	4,980,702:45:0	
1666	99	124	15:20:16.066	117AW105A106A4C	7STRP	-0.0021,0.0,0.0,	Slew = 0.02	2R3	4	0	4,980,703:00:0	
1667	99	124	15:23:48.066	117AW11A	CSMOS	GE	***** GROUP END CSMOS	2R3	4	0	4,980,706:45:0	
1668	99	124	15:25:24.066	165QE4A	7SCAN	NORM,74.417999,2	Check S/P Position	2R3	4	0	4,980,708:07:0	
1669	99	124	15:25:56.066	175QE422A6A	6DMSC	R115,3	DMS Control	2R3	4	0	4,980,708:55:0	
1670	99	124	15:25:56.066		DMS:	: *E4-DELAY	RDY, TRACK *1, FWD, TIC 2119.17 +/- 2	2R3	4	0	4,980,708:55:0	
1671	99	124	15:26:02.733		DMS:	: *RUNUP	R115, TRACK *3, FWD, TIC 2119.17 +/- 2	2R3	4	0	4,980,708:65:0	
1672	99	124	15:26:06.066	175QE176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,980,708:70:0	
1673	99	124	15:26:06.733		DMS:	: *AT_SPD	R115, TRACK 3, FWD, TIC 2125.47 +/- 2	2R3	4	0	4,980,708:71:0	
1674	99	124	15:26:06.733		DMS:	: *RECORD	R115, TRACK 3, FWD, TIC *2125.47 +/- 2	2R3	4	0	4,980,708:71:0	
1675	99	124	15:26:12.066	165AX4A	7SCAN	NORM,73.099,27.0	Check S/P Position	2R3	4	0	4,980,708:79:0	
1676	99	124	15:26:20.066		DMS:	: *RUNDOWN	R115, TRACK 3, FWD, TIC *2172.34 +/- 2	2R3	4	0	4,980,709:00:0	
1677	99	124	15:26:20.066	175QE422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,980,709:00:0	
1678	99	124	15:26:21.266		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *2173.34 +/- 2	2R3	4	0	4,980,709:01:8	
1679	99	124	15:29:26.733	165QJ4A	7SCAN	NORM,73.964,24.7	Check S/P Position	2R3	4	0	4,980,712:07:0	
1680	99	124	15:29:58.733	175QJ422A6A	6DMSC	R115,3	DMS Control	2R3	4	0	4,980,712:55:0	
1681	99	124	15:29:58.733		DMS:	: *E4-DELAY	RDY, TRACK *1, FWD, TIC 2173.34 +/- 2	2R3	4	0	4,980,712:55:0	
1682	99	124	15:30:05.400		DMS:	: *RUNUP	R115, TRACK *3, FWD, TIC 2173.34 +/- 2	2R3	4	0	4,980,712:65:0	
1683	99	124	15:30:08.733	175QJ176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,980,712:70:0	
1684	99	124	15:30:09.400		DMS:	: *RECORD	R115, TRACK 3, FWD, TIC *2179.64 +/- 2	2R3	4	0	4,980,712:71:0	
1685	99	124	15:30:09.400		DMS:	: *AT_SPD	R115, TRACK 3, FWD, TIC 2179.64 +/- 2	2R3	4	0	4,980,712:71:0	
1686	99	124	15:30:12.066	165AY4A	7SCAN	NORM,73.243999,2	Check S/P Position	2R3	4	0	4,980,712:75:0	
1687	99	124	15:30:22.733	175QJ422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,980,713:00:0	
1688	99	124	15:30:22.733		DMS:	: *RUNDOWN	R115, TRACK 3, FWD, TIC *2226.52 +/- 2	2R3	4	0	4,980,713:00:0	
1689	99	124	15:30:23.933		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *2227.52 +/- 2	2R3	4	0	4,980,713:01:8	
1690	99	124	15:31:14.066	117AY	CSMOS	GS	***** GROUP START CSMOS	2R3	4	0	4,980,713:77:0	
1691	99	124	15:31:23.400	117AY105A106A4A	7STRP	-0.0021,0.0,0.0,	Slew = 0.02	2R3	4	0	4,980,714:00:0	
1692	99	124	15:34:55.400	117AY105A106A4B	7STRP	0.00001,0.0,0.0,	Slew = 12.01	2R3	4	0	4,980,717:45:0	
1693	99	124	15:35:26.066	117AY105A106A4C	7STRP	-0.0021,0.0,0.0,	Slew = 0.02	2R3	4	0	4,980,718:00:0	
1694	99	124	15:38:58.066	117AY11A	CSMOS	GE	***** GROUP END CSMOS	2R3	4	0	4,980,721:45:0	
1695	99	124	15:40:34.066	165QK4A	7SCAN	NORM,74.339,24.7	Check S/P Position	2R3	4	0	4,980,723:07:0	
1696	99	124	15:41:06.066		DMS:	: *E4-DELAY	RDY, TRACK *1, FWD, TIC 2227.52 +/- 2	2R3	4	0	4,980,723:55:0	
1697	99	124	15:41:06.066	175QK422A6A	6DMSC	R115,3	DMS Control	2R3	4	0	4,980,723:55:0	
1698	99	124	15:41:12.733		DMS:	: *RUNUP	R115, TRACK *3, FWD, TIC 2227.52 +/- 2	2R3	4	0	4,980,723:65:0	
1699	99	124	15:41:16.066	175QK176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,980,723:70:0	
1700	99	124	15:41:16.733		DMS:	: *RECORD	R115, TRACK 3, FWD, TIC *2233.82 +/- 2	2R3	4	0	4,980,723:71:0	
1701	99	124	15:41:16.733		DMS:	: *AT_SPD	R115, TRACK 3, FWD, TIC 2233.82 +/- 2	2R3	4	0	4,980,723:71:0	
1702	99	124	15:41:19.400	165AZ4A	7SCAN	NORM,73.639,27.1	Check S/P Position	2R3	4	0	4,980,723:75:0	
1703	99	124	15:41:30.066		DMS:	: *RUNDOWN	R115, TRACK 3, FWD, TIC *2280.69 +/- 2	2R3	4	0	4,980,724:00:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1704	99	124	15:41:30.066	175QK422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,980,724:00:0	
1705	99	124	15:41:31.266		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *2281.69 +/- 2	2R3	4	0	4,980,724:01:8	
1706	99	124	15:44:36.733	165QP4A	7SCAN	NORM,73.865,24.6	Check S/P Position	2R3	4	0	4,980,727:07:0	
1707	99	124	15:45:08.733	175QP422A6A	6DMSC	R115.3	DMS Control	2R3	4	0	4,980,727:55:0	
1708	99	124	15:45:08.733		DMS:	: *E4-DELAY	RDY, TRACK *1, FWD, TIC 2281.69 +/- 2	2R3	4	0	4,980,727:55:0	
1709	99	124	15:45:15.400		DMS:	: *RUNUP	R115, TRACK *3, FWD, TIC 2281.69 +/- 2	2R3	4	0	4,980,727:65:0	
1710	99	124	15:45:18.733	175QP176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,980,727:70:0	
1711	99	124	15:45:19.400		DMS:	: *AT_SPD	R115, TRACK 3, FWD, TIC 2287.99 +/- 2	2R3	4	0	4,980,727:71:0	
1712	99	124	15:45:19.400		DMS:	: *RECORD	R115, TRACK 3, FWD, TIC *2287.99 +/- 2	2R3	4	0	4,980,727:71:0	
1713	99	124	15:45:32.733	175QP422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,980,728:00:0	
1714	99	124	15:45:32.733		DMS:	: *RUNDOWN	R115, TRACK 3, FWD, TIC *2334.87 +/- 2	2R3	4	0	4,980,728:00:0	
1715	99	124	15:45:33.933		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *2335.87 +/- 2	2R3	4	0	4,980,728:01:8	
1716	99	124	15:47:54.066	165LS4A	7SCAN	NORM,73.254,25.9	Check S/P Position	2R3	4	0	4,980,730:30:0	
1717	99	124	15:48:31.400	175LS422A6A	6DMSC	R115.3	DMS Control	2R3	4	0	4,980,730:86:0	
1718	99	124	15:48:31.400		DMS:	: *E4-DELAY	RDY, TRACK *1, FWD, TIC 2335.87 +/- 2	2R3	4	0	4,980,730:86:0	
1719	99	124	15:48:38.066		DMS:	: *RUNUP	R115, TRACK *3, FWD, TIC 2335.87 +/- 2	2R3	4	0	4,980,731:05:0	
1720	99	124	15:48:41.400	175LS176A6A	6TMREC	HIM	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,980,731:10:0	
1721	99	124	15:48:42.066		DMS:	: *RECORD	R115, TRACK 3, FWD, TIC *2342.17 +/- 2	2R3	4	0	4,980,731:11:0	
1722	99	124	15:48:42.066		DMS:	: *AT_SPD	R115, TRACK 3, FWD, TIC 2342.17 +/- 2	2R3	4	0	4,980,731:11:0	
1723	99	124	15:49:35.400		DMS:	: *RUNDOWN	R115, TRACK 3, FWD, TIC *2529.67 +/- 2	2R3	4	0	4,980,732:00:0	
1724	99	124	15:49:35.400	175LS422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,980,732:00:0	
1725	99	124	15:49:36.600		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *2530.67 +/- 2	2R3	4	0	4,980,732:01:8	
1726	99	124	15:55:44.066	165QQ4A	7SCAN	NORM,74.238,24.7	Check S/P Position	2R3	4	0	4,980,738:07:0	
1727	99	124	15:56:16.066	175QQ422A6A	6DMSC	R115.3	DMS Control	2R3	4	0	4,980,738:55:0	
1728	99	124	15:56:16.066		DMS:	: *E4-DELAY	RDY, TRACK *1, FWD, TIC 2530.67 +/- 2	2R3	4	0	4,980,738:55:0	
1729	99	124	15:56:22.733		DMS:	: *RUNUP	R115, TRACK *3, FWD, TIC 2530.67 +/- 2	2R3	4	0	4,980,738:55:0	
1730	99	124	15:56:26.066	175QQ176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,980,738:70:0	
1731	99	124	15:56:26.733		DMS:	: *AT_SPD	R115, TRACK 3, FWD, TIC 2536.97 +/- 2	2R3	4	0	4,980,738:71:0	
1732	99	124	15:56:26.733		DMS:	: *RECORD	R115, TRACK 3, FWD, TIC *2536.97 +/- 2	2R3	4	0	4,980,738:71:0	
1733	99	124	15:56:28.733	165CB4A	7SCAN	NORM,74.2,27.152	Check S/P Position	2R3	4	0	4,980,738:74:0	
1734	99	124	15:56:40.066		DMS:	: *RUNDOWN	R115, TRACK 3, FWD, TIC *2583.84 +/- 2	2R3	4	0	4,980,739:00:0	
1735	99	124	15:56:40.066	175QQ422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,980,739:00:0	
1736	99	124	15:56:41.266		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *2584.84 +/- 2	2R3	4	0	4,980,739:01:8	
1737	99	124	15:57:31.400	117CB	CSMOS	GS	***** GROUP START CSMOS	2R3	4	0	4,980,739:77:0	
1738	99	124	15:57:40.733	117CB105A106A4A	7STRP	-0.0023,0.0,0.0,	Slew = 0.02	2R3	4	0	4,980,740:00:0	
1739	99	124	16:00:00.066	481UA4A	7VECT	BB1	Inert vect update UTC	2R3	4	0	4,980,742:27:0	
1740	99	124	16:01:12.733	117CB105A106A4B	7STRP	0.00001,0.0,0.0,	Slew = 12.01	2R3	4	0	4,980,743:45:0	
1741	99	124	16:01:43.400	117CB105A106A4C	7STRP	-0.0023,0.0,0.0,	Slew = 0.02	2R3	4	0	4,980,744:00:0	
1742	99	124	16:05:15.400	117CB105A106A4D	7STRP	0.00001,0.0,0.0,	Slew = 12.01	2R3	4	0	4,980,747:45:0	
1743	99	124	16:05:46.066	117CB105A106A4E	7STRP	-0.0023,0.0,0.0,	Slew = 0.02	2R3	4	0	4,980,748:00:0	
1744	99	124	16:09:18.066	117CB105A106A4F	7STRP	0.00001,0.0,0.0,	Slew = 12.01	2R3	4	0	4,980,751:45:0	
1745	99	124	16:09:48.733	117CB105A106A4G	7STRP	-0.0023,0.0,0.0,	Slew = 0.02	2R3	4	0	4,980,752:00:0	
1746	99	124	16:13:20.733	117CB105A106A4H	7STRP	0.00001,0.0,0.0,	Slew = 12.01	2R3	4	0	4,980,755:45:0	
1747	99	124	16:13:51.400	117CB105A106A4I	7STRP	-0.0023,0.0,0.0,	Slew = 0.02	2R3	4	0	4,980,756:00:0	
1748	99	124	16:17:23.400	117CB105A106A4J	7STRP	0.00001,0.0,0.0,	Slew = 12.01	2R3	4	0	4,980,759:45:0	
1749	99	124	16:17:54.066	117CB105A106A4K	7STRP	-0.0023,0.0,0.0,	Slew = 0.02	2R3	4	0	4,980,760:00:0	
1750	99	124	16:21:26.066	117CB11A	CSMOS	GE	***** GROUP END CSMOS	2R3	4	0	4,980,763:45:0	
1751	99	124	16:24:18.066	165JH4A	7SCAN	NORM,77.974999,2	Check S/P Position	2R3	4	0	4,980,766:30:0	
1752	99	124	16:24:49.400	175JH422A6A	6DMSC	R115.3	DMS Control	2R3	4	0	4,980,766:77:0	
1753	99	124	16:24:49.400		DMS:	: *E4-DELAY	RDY, TRACK *1, FWD, TIC 2584.84 +/- 2	2R3	4	0	4,980,766:77:0	
1754	99	124	16:24:50.733	118JH	SMOS	GS		2R3	4	0	4,980,766:79:0	
1755	99	124	16:24:56.066		DMS:	: *RUNUP	R115, TRACK *3, FWD, TIC 2584.84 +/- 2	2R3	4	0	4,980,766:87:0	
1756	99	124	16:24:59.400	175JH176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,980,767:01:0	
1757	99	124	16:25:00.066		DMS:	: *AT_SPD	R115, TRACK 3, FWD, TIC 2591.14 +/- 2	2R3	4	0	4,980,767:02:0	
1758	99	124	16:25:00.066		DMS:	: *RECORD	R115, TRACK 3, FWD, TIC *2591.14 +/- 2	2R3	4	0	4,980,767:02:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1759	99	124	16:25:00.733	118JH110A111A4A	7STRP	0.00731,-0.0007,	Slew = -3.71	2R3	4	0	4,980,767:03:0	
1760	99	124	16:25:16.066	118JH110A111A4B	7STRP	-0.00731,0.0007,	Slew = 3.71	2R3	4	0	4,980,767:26:0	
1761	99	124	16:25:31.400	118JH110A111A4C	7STRP	0.00731,-0.0007,	Slew = -3.71	2R3	4	0	4,980,767:49:0	
1762	99	124	16:25:46.733	118JH11A	SMOS	GE		2R3	4	0	4,980,767:72:0	
1763	99	124	16:25:51.400	165CD4A	7SCAN	NORM,74.511,25.7	Check S/P Position	2R3	4	0	4,980,767:79:0	
1764	99	124	16:26:14.733	175JH422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,980,768:23:0	
1765	99	124	16:26:14.733		DMS:	: *RUNDOWN	R115, TRACK 3, FWD, TIC *2853.64 +/- 2	2R3	4	0	4,980,768:23:0	
1766	99	124	16:26:15.933		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *2854.64 +/- 2	2R3	4	0	4,980,768:24:8	
1767	99	124	16:26:50.733	117CD	CSMOS	GS	**** GROUP START CSMOS	2R3	4	0	4,980,768:77:0	
1768	99	124	16:27:00.066	117CD105A106A4A	7STRP	-0.0021,0.0,0.0,	Slew = 0.02	2R3	4	0	4,980,769:00:0	
1769	99	124	16:30:00.733	6RCD5L	DDSNCG,PLSNCG,EP		Record Deselect (DDS o	2R3	4	0	4,980,771:89:0	
1770	99	124	16:30:32.733	431ZL6A	7STRP	0.00001,0.0,0.0,	Slew = 12.01	2R3	4	0	4,980,772:46:0	
1771	99	124	16:31:03.400	117CD105A106A4C	7STRP	-0.0021,0.0,0.0,	Slew = 0.02	2R3	4	0	4,980,773:01:0	
1772	99	124	16:34:08.733	20ZM6A	6EUVON			2R3	4	0	4,980,776:06:0	
1773	99	124	16:34:36.066	117CD105A106A4D	7STRP	0.00001,0.0,0.0,	Slew = 12.01	2R3	4	0	4,980,776:47:0	
1774	99	124	16:35:05.400	6RCSEL	DDSNCG,PLSNCG,EP		Record Select (DDS onl	2R3	4	0	4,980,777:00:0	
1775	99	124	16:35:06.733	117CD105A106A4E	7STRP	-0.0021,0.0,0.0,	Slew = 0.02	2R3	4	0	4,980,777:02:0	
1776	99	124	16:38:39.400	117CD105A106A4F	7STRP	0.00001,0.0,0.0,	Slew = 12.01	2R3	4	0	4,980,780:48:0	
1777	99	124	16:39:10.066	117CD105A106A4G	7STRP	-0.0021,0.0,0.0,	Slew = 0.02	2R3	4	0	4,980,781:03:0	
1778	99	124	16:42:42.733	117CD105A106A4H	7STRP	0.00001,0.0,0.0,	Slew = 12.01	2R3	4	0	4,980,784:49:0	
1779	99	124	16:43:13.400	117CD105A106A4I	7STRP	-0.0021,0.0,0.0,	Slew = 0.02	2R3	4	0	4,980,785:04:0	
1780	99	124	16:46:46.066	117CD11A	CSMOS	GE	**** GROUP END CSMOS	2R3	4	0	4,980,788:50:0	
1781	99	124	16:48:34.066	165J4A	7SCAN	NORM,78.735999,2	Check S/P Position	2R3	4	0	4,980,790:30:0	
1782	99	124	16:49:05.400	175J422A6A	6DMSC	R115,3	DMS Control	2R3	4	0	4,980,790:77:0	
1783	99	124	16:49:05.400		DMS:	: *E4-DELAY	RDY, TRACK *1, FWD, TIC 2854.64 +/- 2	2R3	4	0	4,980,790:77:0	
1784	99	124	16:49:06.733	118J1	SMOS	GS		2R3	4	0	4,980,790:79:0	
1785	99	124	16:49:12.066		DMS:	: *RUNUP		2R3	4	0	4,980,790:87:0	
1786	99	124	16:49:15.400	175J1176A6A	6TMREC	HIS	R115, TRACK *3, FWD, TIC 2854.64 +/- 2	2R3	4	0	4,980,791:01:0	
1787	99	124	16:49:16.066		DMS:	: *AT_SPD	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,980,791:02:0	
1788	99	124	16:49:16.066		DMS:	: *RECORD	R115, TRACK 3, FWD, TIC 2860.94 +/- 2	2R3	4	0	4,980,791:02:0	
1789	99	124	16:49:16.733	118J110A111A4A	7STRP	0.00731,-0.0007,	Slew = -3.71	2R3	4	0	4,980,791:03:0	
1790	99	124	16:49:32.066	118J110A111A4B	7STRP	-0.00731,0.0007,	Slew = 3.71	2R3	4	0	4,980,791:26:0	
1791	99	124	16:49:47.400	118J110A111A4C	7STRP	0.00731,-0.0007,	Slew = -3.71	2R3	4	0	4,980,791:49:0	
1792	99	124	16:50:02.733	118J11A	SMOS	GE		2R3	4	0	4,980,791:72:0	
1793	99	124	16:50:30.733	175J422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,980,792:23:0	
1794	99	124	16:50:30.733		DMS:	: *RUNDOWN	R115, TRACK 3, FWD, TIC *3123.44 +/- 2	2R3	4	0	4,980,792:23:0	
1795	99	124	16:50:31.933		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *3124.44 +/- 2	2R3	4	0	4,980,792:24:8	
1796	99	124	16:51:01.400	165CE4A	7SCAN	NORM,75.379999,2	Check S/P Position	2R3	4	0	4,980,792:69:0	
1797	99	124	16:52:07.400	117CE	CSMOS	GS	**** GROUP START CSMOS	2R3	4	0	4,980,793:77:0	
1798	99	124	16:52:16.733	117CE105A106A4A	7STRP	-0.0021,0.0,0.0,	Slew = 0.02	2R3	4	0	4,980,794:00:0	
1799	99	124	16:55:49.400	117CE11A	CSMOS	GE	**** GROUP END CSMOS	2R3	4	0	4,980,797:46:0	
1800	99	124	16:58:25.400	165KT4A	7SCAN	NORM,78.365999,2	Check S/P Position	2R3	4	0	4,980,800:07:0	
1801	99	124	16:58:57.400	175KT422A6A	6DMSC	R115,3	DMS Control	2R3	4	0	4,980,800:55:0	
1802	99	124	16:58:57.400		DMS:	: *E4-DELAY	RDY, TRACK *1, FWD, TIC 3124.44 +/- 2	2R3	4	0	4,980,800:55:0	
1803	99	124	16:59:04.066		DMS:	: *RUNUP	R115, TRACK *3, FWD, TIC 3124.44 +/- 2	2R3	4	0	4,980,800:65:0	
1804	99	124	16:59:07.400	175KT176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,980,800:70:0	
1805	99	124	16:59:08.066		DMS:	: *AT_SPD	R115, TRACK 3, FWD, TIC 3130.74 +/- 2	2R3	4	0	4,980,800:71:0	
1806	99	124	16:59:08.066		DMS:	: *RECORD	R115, TRACK 3, FWD, TIC *3130.74 +/- 2	2R3	4	0	4,980,800:71:0	
1807	99	124	16:59:13.400	165CF4A	7SCAN	NORM,75.65,25.84	Check S/P Position	2R3	4	0	4,980,800:79:0	
1808	99	124	16:59:21.400	175KT422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,980,801:00:0	
1809	99	124	16:59:21.400		DMS:	: *RUNDOWN	R115, TRACK 3, FWD, TIC *3177.62 +/- 2	2R3	4	0	4,980,801:00:0	
1810	99	124	16:59:22.600		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *3178.62 +/- 2	2R3	4	0	4,980,801:01:8	
1811	99	124	17:01:13.400	117CF	CSMOS	GS	**** GROUP START CSMOS	2R3	4	0	4,980,802:77:0	
1812	99	124	17:01:22.733	117CF105A106A4A	7STRP	-0.0021,0.0,0.0,	Slew = 0.02	2R3	4	0	4,980,803:00:0	
1813	99	124	17:04:55.400	117CF11A	CSMOS	GE	**** GROUP END CSMOS	2R3	4	0	4,980,806:46:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1814	99	124	17:08:16.733	165JN4A	7SCAN	NORM,78.011999,2	Check S/P Position	2R3	4	0	4,980,809.75:0	
1815	99	124	17:08:31.400	118JN	SMOS	GS		2R3	4	0	4,980,810:06:0	
1816	99	124	17:08:48.733		DMS:	:*E4-DELAY	RDY, TRACK *1, FWD, TIC 3178.62 +/- 2	2R3	4	0	4,980,810:32:0	
1817	99	124	17:08:48.733	175JN422A6A	6DMSC	R115,3	DMS Control	2R3	4	0	4,980,810:32:0	
1818	99	124	17:08:55.400		DMS:	:*RUNUP	R115, TRACK *3, FWD, TIC 3178.62 +/- 2	2R3	4	0	4,980,810:42:0	
1819	99	124	17:08:58.733	175JN176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,980,810:47:0	
1820	99	124	17:08:59.400		DMS:	:*AT SPD	R115, TRACK 3, FWD, TIC 3184.92 +/- 2	2R3	4	0	4,980,810:48:0	
1821	99	124	17:08:59.400		DMS:	:*RECORD	R115, TRACK 3, FWD, TIC *3184.92 +/- 2	2R3	4	0	4,980,810:48:0	
1822	99	124	17:09:00.066	118JN110A11A4A	7STRP	0.00731,-0.0007,	Slew = 3.71	2R3	4	0	4,980,810:49:0	
1823	99	124	17:09:15.400	118JN110A11A4B	7STRP	-0.00731,0.0007,	Slew = 3.71	2R3	4	0	4,980,810:72:0	
1824	99	124	17:09:30.733	118JN110A11A4C	7STRP	0.00731,-0.0007,	Slew = 3.71	2R3	4	0	4,980,811:04:0	
1825	99	124	17:09:46.066	118JN110A11A4D	7STRP	-0.00731,0.0007,	Slew = 3.71	2R3	4	0	4,980,811:27:0	
1826	99	124	17:10:01.400	118JN110A11A4E	7STRP	0.00731,-0.0007,	Slew = 3.71	2R3	4	0	4,980,811:50:0	
1827	99	124	17:10:16.733	118JN11A	SMOS	GE		2R3	4	0	4,980,811:73:0	
1828	99	124	17:10:28.733		DMS:	:*RUNDOWN	R115, TRACK 3, FWD, TIC *3488.98 +/- 2	2R3	4	0	4,980,812:00:0	
1829	99	124	17:10:28.733	175JN422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,980,812:00:0	
1830	99	124	17:10:29.933		DMS:	:*READY	RDY, TRACK 3, FWD, TIC *3499.98 +/- 2	2R3	4	0	4,980,812:01:8	
1831	99	124	17:12:50.066	165J4A	7SCAN	NORM,79.476,25.6	Check S/P Position	2R3	4	0	4,980,814:30:0	
1832	99	124	17:13:21.400		DMS:	:*E4-DELAY	RDY, TRACK *1, FWD, TIC 3499.98 +/- 2	2R3	4	0	4,980,814:77:0	
1833	99	124	17:13:21.400	175J422A6A	6DMSC	R115,3	DMS Control	2R3	4	0	4,980,814:77:0	
1834	99	124	17:13:22.733	118JJ	SMOS	GS		2R3	4	0	4,980,814:79:0	
1835	99	124	17:13:28.066		DMS:	:*RUNUP	R115, TRACK *3, FWD, TIC 3499.98 +/- 2	2R3	4	0	4,980,814:87:0	
1836	99	124	17:13:31.400	175JJ176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,980,815:01:0	
1837	99	124	17:13:32.066		DMS:	:*AT SPD	R115, TRACK 3, FWD, TIC 3506.28 +/- 3	2R3	4	0	4,980,815:02:0	
1838	99	124	17:13:32.066		DMS:	:*RECORD	R115, TRACK 3, FWD, TIC *3506.28 +/- 2	2R3	4	0	4,980,815:03:0	
1839	99	124	17:13:32.733	118JJ110A11A4A	7STRP	0.00731,-0.0007,	Slew = 3.71	2R3	4	0	4,980,815:03:0	
1840	99	124	17:13:48.066	118JJ110A11A4B	7STRP	-0.00731,0.0007,	Slew = 3.71	2R3	4	0	4,980,815:26:0	
1841	99	124	17:14:03.400	118JJ110A11A4C	7STRP	0.00731,-0.0007,	Slew = 3.71	2R3	4	0	4,980,815:49:0	
1842	99	124	17:14:18.733	118JJ11A	SMOS	GE		2R3	4	0	4,980,815:72:0	
1843	99	124	17:14:46.733	175J422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,980,816:23:0	
1844	99	124	17:14:46.733		DMS:	:*RUNDOWN	R115, TRACK 3, FWD, TIC *3768.78 +/- 3	2R3	4	0	4,980,816:23:0	
1845	99	124	17:14:47.933		DMS:	:*READY	RDY, TRACK 3, FWD, TIC *3769.78 +/- 3	2R3	4	0	4,980,816:24:8	
1846	99	124	17:19:14.066	165CH4A	7SCAN	NORM,76.335999,2	Check S/P Position	2R3	4	0	4,980,820:60:0	
1847	99	124	17:20:26.066	117CH	CSMOS	GS	***** GROUP START CSMOS	2R3	4	0	4,980,821:77:0	
1848	99	124	17:20:35.400	117CH105A106A4A	7STRP	-0.002,0.0,0.0,0	Slew = 0.02	2R3	4	0	4,980,822:00:0	
1849	99	124	17:24:07.400	117CH105A106A4B	7STRP	0.0001,0.0,0.0,0	Slew = 12.01	2R3	4	0	4,980,825:45:0	
1850	99	124	17:24:38.066	117CH105A106A4C	7STRP	-0.002,0.0,0.0,0	Slew = 0.02	2R3	4	0	4,980,826:00:0	
1851	99	124	17:28:10.066	117CH11A	CSMOS	GE	***** GROUP END CSMOS	2R3	4	0	4,980,829:45:0	
1852	99	124	17:32:32.733	165JO4A	7SCAN	NORM,78.757,25.6	Check S/P Position	2R3	4	0	4,980,833:75:0	
1853	99	124	17:32:47.400	118JO	SMOS	GS		2R3	4	0	4,980,834:06:0	
1854	99	124	17:33:04.733	175JO422A6A	6DMSC	R115,3	DMS Control	2R3	4	0	4,980,834:32:0	
1855	99	124	17:33:04.733		DMS:	:*E4-DELAY	RDY, TRACK *1, FWD, TIC 3769.78 +/- 3	2R3	4	0	4,980,834:32:0	
1856	99	124	17:33:11.400		DMS:	:*RUNUP	R115, TRACK *3, FWD, TIC 3769.78 +/- 3	2R3	4	0	4,980,834:42:0	
1857	99	124	17:33:14.733	175JO176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,980,834:47:0	
1858	99	124	17:33:15.400		DMS:	:*RECORD	R115, TRACK 3, FWD, TIC *3776.08 +/- 3	2R3	4	0	4,980,834:48:0	
1859	99	124	17:33:15.400		DMS:	:*AT SPD	R115, TRACK 3, FWD, TIC 3776.08 +/- 3	2R3	4	0	4,980,834:48:0	
1860	99	124	17:33:16.066	118JO110A11A4A	7STRP	0.00731,-0.0007,	Slew = 3.71	2R3	4	0	4,980,834:49:0	
1861	99	124	17:33:31.400	118JO110A11A4B	7STRP	-0.00731,0.0007,	Slew = 3.71	2R3	4	0	4,980,834:72:0	
1862	99	124	17:33:46.733	118JO110A11A4C	7STRP	0.00731,-0.0007,	Slew = 3.71	2R3	4	0	4,980,835:04:0	
1863	99	124	17:34:02.066	118JO110A11A4D	7STRP	-0.00731,0.0007,	Slew = 3.71	2R3	4	0	4,980,835:27:0	
1864	99	124	17:34:17.400	118JO110A11A4E	7STRP	0.00731,-0.0007,	Slew = 3.71	2R3	4	0	4,980,835:50:0	
1865	99	124	17:34:32.733	118JO11A	SMOS	GE		2R3	4	0	4,980,835:73:0	
1866	99	124	17:34:36.733	165CI4A	7SCAN	NORM,76.839999,2	Check S/P Position	2R3	4	0	4,980,835:79:0	
1867	99	124	17:34:44.733		DMS:	:*RUNDOWN	R115, TRACK 3, FWD, TIC *4090.14 +/- 3	2R3	4	0	4,980,836:00:0	
1868	99	124	17:34:44.733	175JO422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,980,836:00:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1869	99	124	17:34:45.933		DMS:	:*READY	RDY, TRACK 3, FWD, TIC *4091.14 +/- 3	2R3	4	0	4,980,836:01:8	
1870	99	124	17:37:06.066	165JK4A	7SCAN	NORM,80.209,25.7	Check S/P Position	2R3	4	0	4,980,838:30:0	
1871	99	124	17:37:37.400	175JK422A6A	6DMSC	R115.3	DMS Control	2R3	4	0	4,980,838:77:0	
1872	99	124	17:37:37.400		DMS:	:*E4-DELAY	RDY, TRACK *1, FWD, TIC 4091.14 +/- 3	2R3	4	0	4,980,838:77:0	
1873	99	124	17:37:38.733	118JK	SMOS	GS		2R3	4	0	4,980,838:79:0	
1874	99	124	17:37:44.066		DMS:	:*RUNUP	R115, TRACK *3, FWD, TIC 4091.14 +/- 3	2R3	4	0	4,980,838:87:0	
1875	99	124	17:37:47.400	175JK176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,980,839:01:0	
1876	99	124	17:37:48.066		DMS:	:*RECORD	R115, TRACK 3, FWD, TIC *4097.44 +/- 3	2R3	4	0	4,980,839:02:0	
1877	99	124	17:37:48.066		DMS:	:*AT_SPD	R115, TRACK 3, FWD, TIC 4097.44 +/- 3	2R3	4	0	4,980,839:02:0	
1878	99	124	17:38:04.733	118JK110A11A4A	7STRP	0.00731,-0.0007,	Slew = -3.71	2R3	4	0	4,980,839:03:0	
1879	99	124	17:38:04.066	118JK110A11A4B	7STRP	-0.00731,0.0007,	Slew = -3.71	2R3	4	0	4,980,839:26:0	
1880	99	124	17:38:19.400	118JK110A11A4C	7STRP	0.00731,-0.0007,	Slew = -3.71	2R3	4	0	4,980,839:49:0	
1881	99	124	17:38:34.733	118JK11A	SMOS	GE		2R3	4	0	4,980,839:72:0	
1882	99	124	17:39:02.733		DMS:	:*RUNDOWN	R115, TRACK 3, FWD, TIC *4359.94 +/- 3	2R3	4	0	4,980,840:23:0	
1883	99	124	17:39:02.733	175JK422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,980,840:23:0	
1884	99	124	17:39:03.933		DMS:	:*READY	RDY, TRACK 3, FWD, TIC *4360.94 +/- 3	2R3	4	0	4,980,840:24:8	
1885	99	124	17:39:33.400	165CJ4A	7SCAN	NORM,77.002999,2	Check S/P Position	2R3	4	0	4,980,840:69:0	
1886	99	124	17:39:52.066	117CJ	CSMOS	GS	***** GROUP START CSMOS	2R3	4	0	4,980,841:06:0	
1887	99	124	17:40:18.066	117CJ105A106A4A	7STRP	-0.002,0.0,0.0,0	Slew = 0.02	2R3	4	0	4,980,841:45:0	
1888	99	124	17:43:50.066	117CJ105A106A4B	7STRP	0.00001,0.0,0.0,0	Slew = 12.01	2R3	4	0	4,980,844:90:0	
1889	99	124	17:44:20.733	117CJ105A106A4C	7STRP	-0.002,0.0,0.0,0	Slew = -0.02	2R3	4	0	4,980,845:45:0	
1890	99	124	17:47:52.733	117CJ105A106A4D	7STRP	0.00001,0.0,0.0,0	Slew = 12.01	2R3	4	0	4,980,848:90:0	
1891	99	124	17:48:23.400	117CJ105A106A4E	7STRP	-0.002,0.0,0.0,0	Slew = -0.02	2R3	4	0	4,980,849:45:0	
1892	99	124	17:51:55.400	117CJ11A	CSMOS	GE	***** GROUP END CSMOS	2R3	4	0	4,980,852:90:0	
1893	99	124	17:53:16.733	165JT4A	7SCAN	NORM,77.721,25.5	Check S/P Position	2R3	4	0	4,980,854:30:0	
1894	99	124	17:53:48.066		DMS:	:*E4-DELAY	RDY, TRACK *1, FWD, TIC 4360.94 +/- 3	2R3	4	0	4,980,854:77:0	
1895	99	124	17:53:48.066	175JT422A6A	6DMSC	R115.3	DMS Control	2R3	4	0	4,980,854:77:0	
1896	99	124	17:53:49.400	118JT	SMOS	GS		2R3	4	0	4,980,854:79:0	
1897	99	124	17:53:54.733		DMS:	:*RUNUP	R115, TRACK *3, FWD, TIC 4360.94 +/- 3	2R3	4	0	4,980,854:87:0	
1898	99	124	17:53:58.066	175JT176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,980,855:01:0	
1899	99	124	17:53:58.733		DMS:	:*RECORD	R115, TRACK 3, FWD, TIC *4367.24 +/- 3	2R3	4	0	4,980,855:02:0	
1900	99	124	17:53:58.733		DMS:	:*AT_SPD	R115, TRACK 3, FWD, TIC 4367.24 +/- 3	2R3	4	0	4,980,855:02:0	
1901	99	124	17:53:59.400	118JT110A11A4A	7STRP	0.00731,-0.0007,	Slew = -3.71	2R3	4	0	4,980,855:03:0	
1902	99	124	17:54:14.733	118JT110A11A4B	7STRP	-0.00731,0.0007,	Slew = -3.71	2R3	4	0	4,980,855:26:0	
1903	99	124	17:54:30.066	118JT110A11A4C	7STRP	0.00731,-0.0007,	Slew = -3.71	2R3	4	0	4,980,855:49:0	
1904	99	124	17:54:45.400	118JT11A	SMOS	GE		2R3	4	0	4,980,855:72:0	
1905	99	124	17:54:58.066	175JT422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,980,856:00:0	
1906	99	124	17:54:58.066		DMS:	:*RUNDOWN	R115, TRACK 3, FWD, TIC *4575.84 +/- 3	2R3	4	0	4,980,856:00:0	
1907	99	124	17:54:59.266		DMS:	:*READY	RDY, TRACK 3, FWD, TIC *4576.84 +/- 3	2R3	4	0	4,980,856:01:8	
1908	99	124	17:56:48.733	165JP4A	7SCAN	NORM,79.481,25.6	Check S/P Position	2R3	4	0	4,980,857:75:0	
1909	99	124	17:57:03.400	118JP	SMOS	GS		2R3	4	0	4,980,858:06:0	
1910	99	124	17:57:20.733	175JP422A6A	6DMSC	R115.3	DMS Control	2R3	4	0	4,980,858:32:0	
1911	99	124	17:57:20.733		DMS:	:*E4-DELAY	RDY, TRACK *1, FWD, TIC 4576.84 +/- 3	2R3	4	0	4,980,858:32:0	
1912	99	124	17:57:27.400		DMS:	:*RUNUP	R115, TRACK *3, FWD, TIC 4576.84 +/- 3	2R3	4	0	4,980,858:42:0	
1913	99	124	17:57:30.733	175JP176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,980,858:47:0	
1914	99	124	17:57:31.400		DMS:	:*RECORD	R115, TRACK 3, FWD, TIC *4583.14 +/- 3	2R3	4	0	4,980,858:48:0	
1915	99	124	17:57:31.400		DMS:	:*AT_SPD	R115, TRACK 3, FWD, TIC 4583.14 +/- 3	2R3	4	0	4,980,858:48:0	
1916	99	124	17:57:32.066	118JP110A11A4A	7STRP	0.00731,-0.0007,	Slew = -3.71	2R3	4	0	4,980,858:49:0	
1917	99	124	17:57:47.400	118JP110A11A4B	7STRP	-0.00731,0.0007,	Slew = -3.71	2R3	4	0	4,980,858:72:0	
1918	99	124	17:58:02.733	118JP110A11A4C	7STRP	0.00731,-0.0007,	Slew = -3.71	2R3	4	0	4,980,859:04:0	
1919	99	124	17:58:18.066	118JP110A11A4D	7STRP	-0.00731,0.0007,	Slew = -3.71	2R3	4	0	4,980,859:27:0	
1920	99	124	17:58:33.400	118JP110A11A4E	7STRP	0.00731,-0.0007,	Slew = -3.71	2R3	4	0	4,980,859:50:0	
1921	99	124	17:58:48.733	118JP11A	SMOS	GE		2R3	4	0	4,980,859:73:0	
1922	99	124	17:59:00.733	175JP422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,980,860:00:0	
1923	99	124	17:59:00.733		DMS:	:*RUNDOWN	R115, TRACK 3, FWD, TIC *4897.20 +/- 3	2R3	4	0	4,980,860:00:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1924	99	124	17:59:01.933		DMS:	:*READY	RDY, TRACK 3, FWD, TIC *4898.20 +/- 3	2R3	4	0	4,980,860:01:8	
1925	99	124	18:01:22.066	165JL4A	7SCAN	NORM,80.922999,2	Check S/P Position	2R3	4	0	4,980,862:30:0	
1926	99	124	18:01:53.400	175JL422A6A	6DMSC	R115.3	DMS Control	2R3	4	0	4,980,862:77:0	
1927	99	124	18:01:53.400		DMS:	:*E4-DELAY	RDY, TRACK *1, FWD, TIC 4898.20 +/- 3	2R3	4	0	4,980,862:77:0	
1928	99	124	18:01:54.733	118JL	SMOS	GS		2R3	4	0	4,980,862:79:0	
1929	99	124	18:02:00.066		DMS:	:*RUNUP	R115, TRACK *3, FWD, TIC 4898.20 +/- 3	2R3	4	0	4,980,862:87:0	
1930	99	124	18:02:03.400	175JL176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,980,863:01:0	
1931	99	124	18:02:04.066		DMS:	:*AT SPD	R115, TRACK 3, FWD, TIC 4904.50 +/- 3	2R3	4	0	4,980,863:02:0	
1932	99	124	18:02:04.066		DMS:	:*RECORD	R115, TRACK 3, FWD, TIC 4904.50 +/- 3	2R3	4	0	4,980,863:02:0	
1933	99	124	18:02:04.733	118JL110A111A4A	7STRP	0.00731,-0.0007,	Slew = -3.71	2R3	4	0	4,980,863:03:0	
1934	99	124	18:02:20.066	118JL110A111A4B	7STRP	-0.00731,0.0007,	Slew = -3.71	2R3	4	0	4,980,863:26:0	
1935	99	124	18:02:35.400	118JL110A111A4C	7STRP	0.00731,-0.0007,	Slew = -3.71	2R3	4	0	4,980,863:49:0	
1936	99	124	18:02:50.733	118JL11A	SMOS	GE		2R3	4	0	4,980,863:72:0	
1937	99	124	18:03:18.733	175JL422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,980,864:23:0	
1938	99	124	18:03:18.733		DMS:	:*RUNDOWN	R115, TRACK 3, FWD, TIC *5167.00 +/- 3	2R3	4	0	4,980,864:23:0	
1939	99	124	18:03:19.933		DMS:	:*READY	RDY, TRACK 3, FWD, TIC *5168.00 +/- 3	2R3	4	0	4,980,864:24:8	
1940	99	124	18:03:49.400	165CK4A	7SCAN	NORM,78.976999,2	Check S/P Position	2R3	4	0	4,980,864:69:0	
1941	99	124	18:07:46.066	165CL4A	7SCAN	NORM,77.919999,2	Check S/P Position	2R3	4	0	4,980,868:60:0	
1942	99	124	18:08:58.066	117CL	CSMOS	GS	***** GROUP START CSMOS	2R3	4	0	4,980,869:77:0	
1943	99	124	18:09:07.400	117CL105A106A4A	7STRP	GE	Slew = -0.02	2R3	4	0	4,980,870:00:0	
1944	99	124	18:12:39.400	117CL11A	CSMOS	GE	***** GROUP END CSMOS	2R3	4	0	4,980,873:45:0	
1945	99	124	18:14:15.400	165LT4A	7SCAN	NORM,78.205999,2	Check S/P Position	2R3	4	0	4,980,875:07:0	
1946	99	124	18:14:47.400	175LT422A6A	6DMSC	R115.3	DMS Control	2R3	4	0	4,980,875:55:0	
1947	99	124	18:14:47.400		DMS:	:*E4-DELAY	RDY, TRACK *1, FWD, TIC 5168.00 +/- 3	2R3	4	0	4,980,875:55:0	
1948	99	124	18:14:54.066		DMS:	:*RUNUP	R115, TRACK *3, FWD, TIC 5168.00 +/- 3	2R3	4	0	4,980,875:65:0	
1949	99	124	18:14:57.400	175LT176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,980,875:70:0	
1950	99	124	18:14:58.066		DMS:	:*AT SPD	R115, TRACK 3, FWD, TIC 5174.30 +/- 3	2R3	4	0	4,980,875:71:0	
1951	99	124	18:14:58.066		DMS:	:*RECORD	R115, TRACK 3, FWD, TIC *5174.30 +/- 3	2R3	4	0	4,980,875:71:0	
1952	99	124	18:15:03.400	165CM4A	7SCAN	NORM,78.139,25.9	Check S/P Position	2R3	4	0	4,980,875:79:0	
1953	99	124	18:15:11.400		DMS:	:*RUNDOWN	R115, TRACK 3, FWD, TIC *5221.17 +/- 3	2R3	4	0	4,980,876:00:0	
1954	99	124	18:15:11.400	175LT422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,980,876:00:0	
1955	99	124	18:15:12.600		DMS:	:*READY	RDY, TRACK 3, FWD, TIC *5222.17 +/- 3	2R3	4	0	4,980,876:01:8	
1956	99	124	18:17:32.733	165JU4A	7SCAN	NORM,78.455,25.6	Check S/P Position	2R3	4	0	4,980,878:30:0	
1957	99	124	18:18:04.066	175JU422A6A	6DMSC	R115.3	DMS Control	2R3	4	0	4,980,878:77:0	
1958	99	124	18:18:04.066		DMS:	:*E4-DELAY	RDY, TRACK *1, FWD, TIC 5222.17 +/- 3	2R3	4	0	4,980,878:77:0	
1959	99	124	18:18:05.400	118JU	SMOS	GS		2R3	4	0	4,980,878:79:0	
1960	99	124	18:18:10.733		DMS:	:*RUNUP	R115, TRACK *3, FWD, TIC 5222.17 +/- 3	2R3	4	0	4,980,878:87:0	
1961	99	124	18:18:14.066	175JU176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,980,879:01:0	
1962	99	124	18:18:14.733		DMS:	:*AT SPD	R115, TRACK 3, FWD, TIC 5228.47 +/- 3	2R3	4	0	4,980,879:02:0	
1963	99	124	18:18:14.733		DMS:	:*RECORD	R115, TRACK 3, FWD, TIC *5228.47 +/- 3	2R3	4	0	4,980,879:02:0	
1964	99	124	18:18:15.400	118JU110A111A4A	7STRP	0.00731,-0.0007,	Slew = -3.71	2R3	4	0	4,980,879:03:0	
1965	99	124	18:18:30.733	118JU110A111A4B	7STRP	-0.00731,0.0007,	Slew = -3.71	2R3	4	0	4,980,879:26:0	
1966	99	124	18:18:46.066	118JU110A111A4C	7STRP	0.00731,-0.0007,	Slew = -3.71	2R3	4	0	4,980,879:49:0	
1967	99	124	18:19:01.400	118JU11A	SMOS	GE		2R3	4	0	4,980,879:72:0	
1968	99	124	18:19:14.066	175JU422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,980,880:00:0	
1969	99	124	18:19:14.066		DMS:	:*RUNDOWN	R115, TRACK 3, FWD, TIC *5437.07 +/- 3	2R3	4	0	4,980,880:00:0	
1970	99	124	18:19:15.266		DMS:	:*READY	RDY, TRACK 3, FWD, TIC *5438.07 +/- 3	2R3	4	0	4,980,880:01:8	
1971	99	124	18:21:04.733	165JQ4A	7SCAN	NORM,80.200999,2	Check S/P Position	2R3	4	0	4,980,881:75:0	
1972	99	124	18:21:19.400	118JQ	SMOS	GS		2R3	4	0	4,980,882:06:0	
1973	99	124	18:21:36.733	175JQ422A6A	6DMSC	R115.3	DMS Control	2R3	4	0	4,980,882:32:0	
1974	99	124	18:21:36.733		DMS:	:*E4-DELAY	RDY, TRACK *1, FWD, TIC 5438.07 +/- 3	2R3	4	0	4,980,882:32:0	
1975	99	124	18:21:43.400		DMS:	:*RUNUP	R115, TRACK *3, FWD, TIC 5438.07 +/- 3	2R3	4	0	4,980,882:42:0	
1976	99	124	18:21:46.733	175JQ176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,980,882:47:0	
1977	99	124	18:21:47.400		DMS:	:*AT SPD	R115, TRACK 3, FWD, TIC 5444.37 +/- 3	2R3	4	0	4,980,882:48:0	
1978	99	124	18:21:47.400		DMS:	:*RECORD	R115, TRACK 3, FWD, TIC *5444.37 +/- 3	2R3	4	0	4,980,882:48:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1979	99	124	18:21:48.066	118JQ110A111A4A	7STRP	0.00731,-0.0007,	Slew = -3.71	2R3	4	0	4,980,882:49:0	
1980	99	124	18:22:03.400	118JQ110A111A4B	7STRP	-0.00731,0.0007,	Slew = 3.71	2R3	4	0	4,980,882:72:0	
1981	99	124	18:22:18.733	118JQ110A111A4C	7STRP	0.00731,-0.0007,	Slew = -3.71	2R3	4	0	4,980,883:04:0	
1982	99	124	18:22:34.066	118JQ110A111A4D	7STRP	-0.00731,0.0007,	Slew = 3.71	2R3	4	0	4,980,883:27:0	
1983	99	124	18:22:49.400	118JQ110A111A4E	7STRP	0.00731,-0.0007,	Slew = -3.71	2R3	4	0	4,980,883:50:0	
1984	99	124	18:23:04.733	118JQ11A	SMOS	GE		2R3	4	0	4,980,883:73:0	
1985	99	124	18:23:08.733	165CN4A	7SCAN	NORM,78.403,26.0	Check S/P Position	2R3	4	0	4,980,883:79:0	
1986	99	124	18:23:16.733		DMS:	: *RUNDOWN	R115, TRACK 3, FWD, TIC *5758.43 +/- 3	2R3	4	0	4,980,884:00:0	
1987	99	124	18:23:16.733	175JQ422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,980,884:00:0	
1988	99	124	18:23:17.933		DMS:	: *READY	R115, TRACK 3, FWD, TIC *5759.43 +/- 3	2R3	4	0	4,980,884:01:8	
1989	99	124	18:24:08.066	117CN	CSMOS	GS	**** GROUP START CSMOS	2R3	4	0	4,980,884:77:0	
1990	99	124	18:24:17.400	117CN105A106A4A	7STRP	-0.0019,0.0,0.0,	Slew = 0.02	2R3	4	0	4,980,885:00:0	
1991	99	124	18:27:49.400	117CN105A106A4B	7STRP	0.00001,0.0,0.0,	Slew = 12.01	2R3	4	0	4,980,888:45:0	
1992	99	124	18:28:20.066	117CN105A106A4C	7STRP	-0.0019,0.0,0.0,	Slew = 0.02	2R3	4	0	4,980,889:00:0	
1993	99	124	18:31:52.066	117CN105A106A4D	7STRP	0.00001,0.0,0.0,	Slew = 12.01	2R3	4	0	4,980,892:45:0	
1994	99	124	18:32:22.733	117CN105A106A4E	7STRP	-0.0019,0.0,0.0,	Slew = 0.02	2R3	4	0	4,980,893:00:0	
1995	99	124	18:35:54.733	117CN105A106A4F	7STRP	0.00001,0.0,0.0,	Slew = 12.01	2R3	4	0	4,980,896:45:0	
1996	99	124	18:36:25.400	117CN105A106A4G	7STRP	-0.0019,0.0,0.0,	Slew = 0.02	2R3	4	0	4,980,897:00:0	
1997	99	124	18:39:57.400	117CN11A	CSMOS	GE	**** GROUP END CSMOS	2R3	4	0	4,980,900:45:0	
1998	99	124	18:41:48.733	165JV4A	7SCAN	NORM,79.165999,2	Check S/P Position	2R3	4	0	4,980,902:30:0	
1999	99	124	18:42:20.066	175JV422A6A	6DMSC	R115.3	DMS Control	2R3	4	0	4,980,902:77:0	
2000	99	124	18:42:20.066		DMS:	: *E4-DELAY	RDY, TRACK *1, FWD, TIC 5759.43 +/- 3	2R3	4	0	4,980,902:77:0	
2001	99	124	18:42:21.400	118JV	SMOS	GS		2R3	4	0	4,980,902:79:0	
2002	99	124	18:42:26.733		DMS:	: *RUNUP	R115, TRACK *3, FWD, TIC 5759.43 +/- 3	2R3	4	0	4,980,902:87:0	
2003	99	124	18:42:30.066	175JV176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,980,903:01:0	
2004	99	124	18:42:30.733		DMS:	: *RECORD	R115, TRACK 3, FWD, TIC *5765.73 +/- 3	2R3	4	0	4,980,903:02:0	
2005	99	124	18:42:30.733		DMS:	: *AT SPD	R115, TRACK 3, FWD, TIC 5765.73 +/- 3	2R3	4	0	4,980,903:02:0	
2006	99	124	18:42:31.400	118JV110A111A4A	7STRP	0.00731,-0.0007,	Slew = -3.71	2R3	4	0	4,980,903:03:0	
2007	99	124	18:42:46.733	118JV110A111A4B	7STRP	-0.00731,0.0007,	Slew = 3.71	2R3	4	0	4,980,903:26:0	
2008	99	124	18:43:02.066	118JV110A111A4C	7STRP	0.00731,-0.0007,	Slew = -3.71	2R3	4	0	4,980,903:49:0	
2009	99	124	18:43:17.400	118JV11A	SMOS	GE		2R3	4	0	4,980,903:72:0	
2010	99	124	18:43:30.066		DMS:	: *RUNDOWN	R115, TRACK 3, FWD, TIC *5974.32 +/- 3	2R3	4	0	4,980,904:00:0	
2011	99	124	18:43:30.066	175JV422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,980,904:00:0	
2012	99	124	18:43:31.266		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *5975.32 +/- 3	2R3	4	0	4,980,904:01:8	
2013	99	124	18:44:47.400		DMS:	: *READY	RDY, TRACK *4, *REV, TIC 5975.32 +/- 3	2R3	4	0	4,980,905:25:0	
2014	99	124	18:44:47.400	465KC6A	6DMSC	RDY,4	DMS Control Tape stop	2R3	4	0	4,980,905:25:0	
2015	99	124	18:45:20.733	165JR4A	7SCAN	NORM,80.900999,2	Check S/P Position	2R3	4	0	4,980,905:75:0	
2016	99	124	18:45:35.400	118JR	SMOS	GS		2R3	4	0	4,980,906:06:0	
2017	99	124	18:45:51.400	175JR422A6A	6DMSC	R115.0	DMS Control Tape runup 115.2kb	2R3	4	0	4,980,906:30:0	
2018	99	124	18:45:51.400		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 5975.32 +/- 3	2R3	4	0	4,980,906:30:0	
2019	99	124	18:45:52.800		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *5975.44 +/- 3	2R3	4	0	4,980,906:32:1	
2020	99	124	18:45:58.066		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *5976.68 +/- 3	2R3	4	0	4,980,906:40:0	
2021	99	124	18:45:59.266		DMS:	: *RUNUP	R115, TRACK *4, *REV, TIC *5976.74 +/- 3	2R3	4	0	4,980,906:41:8	
2022	99	124	18:46:02.733	175JR176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,980,906:47:0	
2023	99	124	18:46:03.266		DMS:	: *AT SPD	R115, TRACK 4, REV, TIC 5970.44 +/- 3	2R3	4	0	4,980,906:47:8	
2024	99	124	18:46:03.266		DMS:	: *RECORD	R115, TRACK 4, REV, TIC *5970.44 +/- 3	2R3	4	0	4,980,906:47:8	
2025	99	124	18:46:04.066	118JR110A111A4A	7STRP	0.00731,-0.0007,	Slew = 3.71	2R3	4	0	4,980,906:49:0	
2026	99	124	18:46:19.400	118JR110A111A4B	7STRP	-0.00731,0.0007,	Slew = -3.71	2R3	4	0	4,980,906:72:0	
2027	99	124	18:46:34.733	118JR110A111A4C	7STRP	0.00731,-0.0007,	Slew = 3.71	2R3	4	0	4,980,907:04:0	
2028	99	124	18:46:50.066	118JR110A111A4D	7STRP	-0.00731,0.0007,	Slew = -3.71	2R3	4	0	4,980,907:27:0	
2029	99	124	18:47:05.400	118JR110A111A4E	7STRP	0.00731,-0.0007,	Slew = 3.71	2R3	4	0	4,980,907:50:0	
2030	99	124	18:47:20.733	118JR11A	SMOS	GE		2R3	4	0	4,980,907:73:0	
2031	99	124	18:47:24.733	165CO4A	7SCAN	NORM,78.665999,2	Check S/P Position	2R3	4	0	4,980,907:79:0	
2032	99	124	18:47:32.733		DMS:	: *RUNDOWN	R115, TRACK 4, REV, TIC *5655.91 +/- 3	2R3	4	0	4,980,908:00:0	
2033	99	124	18:47:32.733	175JR422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,980,908:00:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2034	99	124	18:47:33.933		DMS:	:*READY	RDY, TRACK 4, REV, TIC *5654.91 +/- 3	2R3	4	0	4,980,908:01:8	
2035	99	124	18:49:39.400	488A16A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	2R3	4	0	4,980,910:08:0	
2036	99	124	18:51:11.400	165CP4A	7SCAN	NORM,79.558,24.1	Check S/P Position	2R3	4	0	4,980,911:55:0	
2037	99	124	18:51:39.400	117CP	CSMOS	GS	***** GROUP START CSMOS	2R3	4	0	4,980,912:06:0	
2038	99	124	18:52:05.400	117CP105A106A4A	7STRP	-0.0017,0.0,0.0,	Slew = 0.02	2R3	4	0	4,980,912:45:0	
2039	99	124	18:55:37.400	117CP105A106A4B	7STRP	0.0001,0.0,0.0,	Slew = 12.01	2R3	4	0	4,980,915:90:0	
2040	99	124	18:56:08.066	117CP105A106A4C	7STRP	-0.0017,0.0,0.0,	Slew = 0.02	2R3	4	0	4,980,916:45:0	
2041	99	124	18:59:40.066	117CP11A	CSMOS	GE	***** GROUP END CSMOS	2R3	4	0	4,980,919:90:0	
2042	99	124	19:01:01.400	165KH4A	7SCAN	NORM,77.523,25.5	Check S/P Position	2R3	4	0	4,980,921:30:0	
2043	99	124	19:01:40.733	165KH4B	7VECT		Inert vect update UTC	2R3	4	0	4,980,921:89:0	
2044	99	124	19:01:46.066	118KH	SMOS	GS		2R3	4	0	4,980,922:06:0	
2045	99	124	19:01:46.733	175KH422A6A	6DMSC	R115.0	DMS Control Tape runup 115.2kb	2R3	4	0	4,980,922:07:0	
2046	99	124	19:01:46.733		DMS:	:*US-RUNUP	P7, TRACK *1, FWD, TIC 5654.91 +/- 3	2R3	4	0	4,980,922:07:0	
2047	99	124	19:01:48.133		DMS:	:*US_AT_SP	P7, TRACK 1, FWD, TIC *5655.03 +/- 3	2R3	4	0	4,980,922:09:1	
2048	99	124	19:01:53.400		DMS:	:*US_RD	P7, TRACK 1, FWD, TIC *5656.26 +/- 3	2R3	4	0	4,980,922:17:0	
2049	99	124	19:01:54.600		DMS:	:*RUNUP	R115, TRACK *4, REV, TIC *5656.32 +/- 3	2R3	4	0	4,980,922:18:8	
2050	99	124	19:01:58.066	175KH176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,980,922:24:0	
2051	99	124	19:01:58.600		DMS:	:*RECORD	R115, TRACK 4, REV, TIC *5650.02 +/- 3	2R3	4	0	4,980,922:24:8	
2052	99	124	19:01:58.600		DMS:	:*AT_SPD	R115, TRACK 4, REV, TIC 5650.02 +/- 3	2R3	4	0	4,980,922:24:8	
2053	99	124	19:01:59.400	118KH110A111A4A	7STRP	0.00731,-0.0007,	Slew = 3.71	2R3	4	0	4,980,922:26:0	
2054	99	124	19:02:12.733		DMS:	:*RUNDOWN	R115, TRACK 4, REV, TIC *5600.33 +/- 3	2R3	4	0	4,980,922:46:0	
2055	99	124	19:02:12.733	175KH422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,980,922:46:0	
2056	99	124	19:02:13.933		DMS:	:*READY	RDY, TRACK 4, REV, TIC *5599.33 +/- 3	2R3	4	0	4,980,922:47:8	
2057	99	124	19:03:18.066		DMS:	:*US-RUNUP	P7, TRACK *1, FWD, TIC 5599.33 +/- 3	2R3	4	0	4,980,923:53:0	
2058	99	124	19:03:18.066	175LH422A6A	6DMSC	R115.0	DMS Control Tape runup 115.2kb	2R3	4	0	4,980,923:53:0	
2059	99	124	19:03:19.466		DMS:	:*US_AT_SP	P7, TRACK 1, FWD, TIC *5599.45 +/- 3	2R3	4	0	4,980,923:55:1	
2060	99	124	19:03:24.733		DMS:	:*US_RD	P7, TRACK 1, FWD, TIC *5600.69 +/- 3	2R3	4	0	4,980,923:63:0	
2061	99	124	19:03:25.933		DMS:	:*RUNUP	R115, TRACK *4, REV, TIC *5600.75 +/- 3	2R3	4	0	4,980,923:64:8	
2062	99	124	19:03:29.400	175LH176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,980,923:70:0	
2063	99	124	19:03:29.933		DMS:	:*RECORD	R115, TRACK 4, REV, TIC *5594.45 +/- 3	2R3	4	0	4,980,923:70:8	
2064	99	124	19:03:29.933		DMS:	:*AT_SPD	R115, TRACK 4, REV, TIC 5594.45 +/- 3	2R3	4	0	4,980,923:70:8	
2065	99	124	19:03:30.733	118KH11A	SMOS	GE		2R3	4	0	4,980,923:72:0	
2066	99	124	19:03:35.400	165CQ4A	7SCAN	NORM,79.914,24.1	Check S/P Position	2R3	4	0	4,980,923:79:0	
2067	99	124	19:03:43.400		DMS:	:*RUNDOWN	R115, TRACK 4, REV, TIC *5547.10 +/- 3	2R3	4	0	4,980,924:00:0	
2068	99	124	19:03:43.400	175LH422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,980,924:00:0	
2069	99	124	19:03:44.600		DMS:	:*READY	RDY, TRACK 4, REV, TIC *5546.10 +/- 3	2R3	4	0	4,980,924:01:8	
2070	99	124	19:06:04.733	165JW4A	7SCAN	NORM,79.875999,2	Check S/P Position	2R3	4	0	4,980,926:30:0	
2071	99	124	19:06:34.733	175JW422A6A	6DMSC	R115.0	DMS Control Tape runup 115.2kb	2R3	4	0	4,980,926:75:0	
2072	99	124	19:06:34.733		DMS:	:*US-RUNUP	P7, TRACK *1, FWD, TIC 5546.10 +/- 3	2R3	4	0	4,980,926:75:0	
2073	99	124	19:06:36.133		DMS:	:*US_AT_SP	P7, TRACK 1, FWD, TIC *5546.22 +/- 3	2R3	4	0	4,980,926:77:1	
2074	99	124	19:06:37.400	118JW	SMOS	GS		2R3	4	0	4,980,926:79:0	
2075	99	124	19:06:41.400		DMS:	:*US_RD	P7, TRACK 1, FWD, TIC *5547.46 +/- 3	2R3	4	0	4,980,926:85:0	
2076	99	124	19:06:42.600		DMS:	:*RUNUP	R115, TRACK *4, REV, TIC *5547.52 +/- 3	2R3	4	0	4,980,926:86:8	
2077	99	124	19:06:46.066	175JW176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,980,927:01:0	
2078	99	124	19:06:46.600		DMS:	:*AT_SPD	R115, TRACK 4, REV, TIC 5541.22 +/- 3	2R3	4	0	4,980,927:01:8	
2079	99	124	19:06:46.600		DMS:	:*RECORD	R115, TRACK 4, REV, TIC *5541.22 +/- 3	2R3	4	0	4,980,927:01:8	
2080	99	124	19:06:47.400	118JW110A111A4A	7STRP	0.00731,-0.0007,	Slew = 3.71	2R3	4	0	4,980,927:03:0	
2081	99	124	19:07:02.733	118JW110A111A4B	7STRP	-0.00731,0.0007,	Slew = 3.71	2R3	4	0	4,980,927:26:0	
2082	99	124	19:07:18.066	118JW110A111A4C	7STRP	0.00731,-0.0007,	Slew = 3.71	2R3	4	0	4,980,927:49:0	
2083	99	124	19:07:33.400	118JW11A	SMOS	GE		2R3	4	0	4,980,927:72:0	
2084	99	124	19:07:34.066	165CR4A	7SCAN	NORM,80.037999,2	Check S/P Position	2R3	4	0	4,980,927:73:0	
2085	99	124	19:07:46.066	175JW422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,980,928:00:0	
2086	99	124	19:07:46.066		DMS:	:*RUNDOWN	R115, TRACK 4, REV, TIC *5332.16 +/- 3	2R3	4	0	4,980,928:00:0	
2087	99	124	19:07:47.266		DMS:	:*READY	RDY, TRACK 4, REV, TIC *5331.16 +/- 3	2R3	4	0	4,980,928:01:8	
2088	99	124	19:14:10.066	165H4A	7SCAN	NORM,83.261,24.5	Check S/P Position	2R3	4	0	4,980,934:30:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2089	99	124	19:14:40.066	175IH422A6A	6DMSC	R115.0	DMS Control Tape runup 115.2kb	2R3	4	0	4,980,934:75:0	
2090	99	124	19:14:40.066		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 5331.16 +/- 3	2R3	4	0	4,980,934:75:0	
2091	99	124	19:14:41.466		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *5331.28 +/- 3	2R3	4	0	4,980,934:77:1	
2092	99	124	19:14:42.733	118IH	SMOS	GS		2R3	4	0	4,980,934:79:0	
2093	99	124	19:14:46.733		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *5332.51 +/- 3	2R3	4	0	4,980,934:85:0	
2094	99	124	19:14:47.933		DMS:	: *RUNUP	R115, TRACK *4, *REV, TIC *5332.57 +/- 3	2R3	4	0	4,980,934:86:8	
2095	99	124	19:14:51.400	175IH176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,980,935:01:0	
2096	99	124	19:14:51.933		DMS:	: *RECORD	R115, TRACK 4, REV, TIC *5326.27 +/- 3	2R3	4	0	4,980,935:01:8	
2097	99	124	19:14:51.933		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC *5326.27 +/- 4	2R3	4	0	4,980,935:01:8	
2098	99	124	19:14:52.733	118IH10A111A4A	7STRP	0.00731,-0.0007,	Slew = -3.71	2R3	4	0	4,980,935:03:0	
2099	99	124	19:15:08.066	118IH10A111A4B	7STRP	-0.00731,0.0007,	Slew = -3.71	2R3	4	0	4,980,935:26:0	
2100	99	124	19:15:23.400	118IH10A111A4C	7STRP	0.00731,-0.0007,	Slew = -3.71	2R3	4	0	4,980,935:49:0	
2101	99	124	19:15:38.733	118IH11A	SMOS	GE		2R3	4	0	4,980,935:72:0	
2102	99	124	19:15:43.400	165CS4A	7SCAN	NORM,80.278999,2	Check S/P Position	2R3	4	0	4,980,935:79:0	
2103	99	124	19:15:51.400	175IH422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,980,936:00:0	
2104	99	124	19:15:51.400		DMS:	: *RUNDOWN	R115, TRACK 4, REV, TIC *5117.21 +/- 4	2R3	4	0	4,980,936:00:0	
2105	99	124	19:15:52.600		DMS:	: *READY	RDY, TRACK 4, REV, TIC *5116.21 +/- 4	2R3	4	0	4,980,936:01:8	
2106	99	124	19:15:55.400	117CS	CSMOS	GS	***** GROUP START CSMOS	2R3	4	0	4,980,936:06:0	
2107	99	124	19:16:21.400	117CS105A106A4A	7STRP	-0.0017,0.0,0.0,	Slew = 0.02	2R3	4	0	4,980,936:45:0	
2108	99	124	19:19:53.400	117CS105A106A4B	7STRP	0.00001,0.0,0.0,	Slew = 12.01	2R3	4	0	4,980,939:90:0	
2109	99	124	19:20:24.066	117CS105A106A4C	7STRP	-0.0017,0.0,0.0,	Slew = -0.02	2R3	4	0	4,980,940:45:0	
2110	99	124	19:23:56.066	117CS11A	CSMOS	GE	***** GROUP END CSMOS	2R3	4	0	4,980,943:90:0	
2111	99	124	19:25:17.400	165KI4A	7SCAN	NORM,78.237,25.5	Check S/P Position	2R3	4	0	4,980,945:30:0	
2112	99	124	19:25:56.733	165KI4B	7VECT		Inert vect update UTC	2R3	4	0	4,980,945:89:0	
2113	99	124	19:26:02.066	118KI	SMOS	GS		2R3	4	0	4,980,946:06:0	
2114	99	124	19:26:02.733	175KI422A6A	6DMSC	R115.0	DMS Control Tape runup 115.2kb	2R3	4	0	4,980,946:07:0	
2115	99	124	19:26:02.733		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 5116.21 +/- 4	2R3	4	0	4,980,946:07:0	
2116	99	124	19:26:04.133		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *5116.33 +/- 4	2R3	4	0	4,980,946:09:1	
2117	99	124	19:26:09.400		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *5117.56 +/- 4	2R3	4	0	4,980,946:17:0	
2118	99	124	19:26:10.600		DMS:	: *RUNUP	R115, TRACK *4, *REV, TIC *5117.62 +/- 4	2R3	4	0	4,980,946:18:8	
2119	99	124	19:26:14.066	175KI176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,980,946:24:0	
2120	99	124	19:26:14.600		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC 5111.32 +/- 4	2R3	4	0	4,980,946:24:8	
2121	99	124	19:26:14.600		DMS:	: *RECORD	R115, TRACK 4, REV, TIC *5111.32 +/- 4	2R3	4	0	4,980,946:24:8	
2122	99	124	19:26:15.400	118KI110A111A4A	7STRP	0.00731,-0.0007,	Slew = 3.71	2R3	4	0	4,980,946:26:0	
2123	99	124	19:26:28.733		DMS:	: *RUNDOWN	R115, TRACK 4, REV, TIC *5061.64 +/- 4	2R3	4	0	4,980,946:46:0	
2124	99	124	19:26:28.733	175KI422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,980,946:46:0	
2125	99	124	19:26:29.933		DMS:	: *READY	RDY, TRACK 4, REV, TIC *5060.64 +/- 4	2R3	4	0	4,980,946:47:8	
2126	99	124	19:27:34.066		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 5060.64 +/- 4	2R3	4	0	4,980,947:53:0	
2127	99	124	19:27:34.066	175LI422A6A	6DMSC	R115.0	DMS Control Tape runup 115.2kb	2R3	4	0	4,980,947:53:0	
2128	99	124	19:27:35.466		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *5060.76 +/- 4	2R3	4	0	4,980,947:55:1	
2129	99	124	19:27:40.733		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *5061.99 +/- 4	2R3	4	0	4,980,947:63:0	
2130	99	124	19:27:41.933		DMS:	: *RUNUP	R115, TRACK *4, *REV, TIC *5062.05 +/- 4	2R3	4	0	4,980,947:64:8	
2131	99	124	19:27:45.400	175LI176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,980,947:70:0	
2132	99	124	19:27:45.933		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC 5055.75 +/- 4	2R3	4	0	4,980,947:70:8	
2133	99	124	19:27:45.933		DMS:	: *RECORD	R115, TRACK 4, REV, TIC *5055.75 +/- 4	2R3	4	0	4,980,947:70:8	
2134	99	124	19:27:46.733	118KI11A	SMOS	GE		2R3	4	0	4,980,947:72:0	
2135	99	124	19:27:59.400		DMS:	: *RUNDOWN	R115, TRACK 4, REV, TIC *5008.41 +/- 4	2R3	4	0	4,980,948:00:0	
2136	99	124	19:27:59.400	175LI422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,980,948:00:0	
2137	99	124	19:28:00.600		DMS:	: *READY	RDY, TRACK 4, REV, TIC *5007.41 +/- 4	2R3	4	0	4,980,948:01:8	
2138	99	124	19:30:20.733	165JX4A	7SCAN	NORM,80.565,25.7	Check S/P Position	2R3	4	0	4,980,950:30:0	
2139	99	124	19:30:50.733	175JX422A6A	6DMSC	R115.0	DMS Control Tape runup 115.2kb	2R3	4	0	4,980,950:75:0	
2140	99	124	19:30:50.733		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 5007.41 +/- 4	2R3	4	0	4,980,950:75:0	
2141	99	124	19:30:52.133		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *5007.53 +/- 4	2R3	4	0	4,980,950:77:1	
2142	99	124	19:30:53.400	118JX	SMOS	GS		2R3	4	0	4,980,950:79:0	
2143	99	124	19:30:57.400		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *5008.76 +/- 4	2R3	4	0	4,980,950:85:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2144	99	124	19:30:58.600		DMS:	:*RUNUP	R115, TRACK *4, *REV, TIC *5008.82 +/- 4	2R3	4	0	4,980,950:86:8	
2145	99	124	19:31:02.066	175JX176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,980,951:01:0	
2146	99	124	19:31:02.600		DMS:	:*AT_SPD	R115, TRACK 4, REV, TIC 5002.52 +/- 4	2R3	4	0	4,980,951:01:8	
2147	99	124	19:31:02.600		DMS:	:*RECORD	R115, TRACK 4, REV, TIC *5002.52 +/- 4	2R3	4	0	4,980,951:01:8	
2148	99	124	19:31:03.400	118JX110A111A4A	7STRP	0.00731,-0.0007,	Slew = -3.71	2R3	4	0	4,980,951:03:0	
2149	99	124	19:31:18.733	118JX110A111A4B	7STRP	-0.00731,0.0007,	Slew = -3.71	2R3	4	0	4,980,951:26:0	
2150	99	124	19:31:34.066	118JX110A111A4C	7STRP	0.00731,-0.0007,	Slew = -3.71	2R3	4	0	4,980,951:49:0	
2151	99	124	19:31:49.400	118JX111A	SMOS	GE	Check S/P Position	2R3	4	0	4,980,951:72:0	
2152	99	124	19:31:50.066	165CT4A	7SCAN	NORM,80.757,24.2	R115, TRACK 4, REV, TIC *4793.46 +/- 4	2R3	4	0	4,980,951:73:0	
2153	99	124	19:32:02.066		DMS:	:*RUNDOWN	DMS Control Tape stop	2R3	4	0	4,980,952:00:0	
2154	99	124	19:32:02.066	175JX422A6B	6DMSC	RDY,0	RDY, TRACK 4, REV, TIC *4792.46 +/- 4	2R3	4	0	4,980,952:00:0	
2155	99	124	19:32:03.266		DMS:	:*READY	RDY, TRACK 4, REV, TIC *4792.46 +/- 4	2R3	4	0	4,980,952:01:8	
2156	99	124	19:32:53.400	117CT	CSMOS	GS	**** GROUP START CSMOS	2R3	4	0	4,980,952:77:0	
2157	99	124	19:33:02.733	117CT105A106A4A	7STRP	-0.0016,0.0,0.0,	Slew = 0.02	2R3	4	0	4,980,953:00:0	
2158	99	124	19:36:34.733	117CT11A	CSMOS	GE	**** GROUP END CSMOS	2R3	4	0	4,980,956:45:0	
2159	99	124	19:39:26.733	165I14A	7SCAN	NORM,83.94,24.58	Check S/P Position	2R3	4	0	4,980,959:30:0	
2160	99	124	19:39:56.733		DMS:	:*US-RUNUP	P7, TRACK *1, *FWD, TIC 4792.46 +/- 4	2R3	4	0	4,980,959:75:0	
2161	99	124	19:39:56.733	175I1422A6A	6DMSC	R115.0	DMS Control Tape runup 115.2kb	2R3	4	0	4,980,959:75:0	
2162	99	124	19:39:58.133		DMS:	:*US_AT_SP	P7, TRACK 1, FWD, TIC *4792.58 +/- 4	2R3	4	0	4,980,959:77:1	
2163	99	124	19:39:59.400	118I1	SMOS	GS	**** GROUP START CSMOS	2R3	4	0	4,980,959:79:0	
2164	99	124	19:40:03.400		DMS:	:*US_RD	P7, TRACK 1, FWD, TIC *4793.81 +/- 4	2R3	4	0	4,980,959:85:0	
2165	99	124	19:40:04.600		DMS:	:*RUNUP	R115, TRACK *4, *REV, TIC *4793.87 +/- 4	2R3	4	0	4,980,959:86:8	
2166	99	124	19:40:08.066	175I1176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,980,960:01:0	
2167	99	124	19:40:08.600		DMS:	:*AT_SPD	R115, TRACK 4, REV, TIC 4787.57 +/- 4	2R3	4	0	4,980,960:01:8	
2168	99	124	19:40:08.600		DMS:	:*RECORD	R115, TRACK 4, REV, TIC *4787.57 +/- 4	2R3	4	0	4,980,960:01:8	
2169	99	124	19:40:09.400	118I110A111A4A	7STRP	0.00731,-0.0007,	Slew = -3.71	2R3	4	0	4,980,960:03:0	
2170	99	124	19:40:24.733	118I110A111A4B	7STRP	-0.00731,0.0007,	Slew = -3.71	2R3	4	0	4,980,960:26:0	
2171	99	124	19:40:40.066	118I110A111A4C	7STRP	0.00731,-0.0007,	Slew = -3.71	2R3	4	0	4,980,960:49:0	
2172	99	124	19:40:55.400	118I111A	SMOS	GE	Check S/P Position	2R3	4	0	4,980,960:72:0	
2173	99	124	19:41:00.066	165CU4A	7SCAN	NORM,81.014999,2	DMS Control Tape stop	2R3	4	0	4,980,960:79:0	
2174	99	124	19:41:08.066	175I1422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,980,961:00:0	
2175	99	124	19:41:08.066		DMS:	:*RUNDOWN	R115, TRACK 4, REV, TIC *4578.51 +/- 4	2R3	4	0	4,980,961:00:0	
2176	99	124	19:41:09.266		DMS:	:*READY	RDY, TRACK 4, REV, TIC *4577.51 +/- 4	2R3	4	0	4,980,961:01:8	
2177	99	124	19:42:59.400	488AI6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2R3	4	0	4,980,962:76:0	
2178	99	124	19:44:14.733	165KU4A	7SCAN	NORM,83:162999,2	Check S/P Position	2R3	4	0	4,980,964:07:0	
2179	99	124	19:44:45.400		DMS:	:*US-RUNUP	P7, TRACK *1, *FWD, TIC 4577.51 +/- 4	2R3	4	0	4,980,964:53:0	
2180	99	124	19:44:45.400	175KU422A6A	6DMSC	R115.0	DMS Control Tape runup 115.2kb	2R3	4	0	4,980,964:53:0	
2181	99	124	19:44:46.800		DMS:	:*US_AT_SP	P7, TRACK 1, FWD, TIC *4577.63 +/- 4	2R3	4	0	4,980,964:55:1	
2182	99	124	19:44:52.066		DMS:	:*US_RD	P7, TRACK 1, FWD, TIC *4578.86 +/- 4	2R3	4	0	4,980,964:63:0	
2183	99	124	19:44:53.266		DMS:	:*RUNUP	R115, TRACK *4, *REV, TIC *4578.92 +/- 4	2R3	4	0	4,980,964:64:8	
2184	99	124	19:44:56.733	175KU176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,980,964:70:8	
2185	99	124	19:44:57.266		DMS:	:*AT_SPD	R115, TRACK 4, REV, TIC 4572.62 +/- 4	2R3	4	0	4,980,964:70:8	
2186	99	124	19:44:57.266		DMS:	:*RECORD	R115, TRACK 4, REV, TIC *4572.62 +/- 4	2R3	4	0	4,980,964:70:8	
2187	99	124	19:45:02.733	165CV4A	7SCAN	NORM,81.136,24.2	Check S/P Position	2R3	4	0	4,980,964:79:0	
2188	99	124	19:45:10.733	175KU422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,980,965:00:0	
2189	99	124	19:45:10.733		DMS:	:*RUNDOWN	R115, TRACK 4, REV, TIC *4525.28 +/- 4	2R3	4	0	4,980,965:00:0	
2190	99	124	19:45:11.933		DMS:	:*READY	RDY, TRACK 4, REV, TIC *4524.28 +/- 4	2R3	4	0	4,980,965:01:8	
2191	99	124	19:49:33.400	165KJ4A	7SCAN	NORM,78.931999,2	Check S/P Position	2R3	4	0	4,980,969:30:0	
2192	99	124	19:50:12.733	165KJ4B	7VECT		Inert vect update UTC	2R3	4	0	4,980,969:89:0	
2193	99	124	19:50:18.066	118KJ	SMOS	GS	**** GROUP START CSMOS	2R3	4	0	4,980,970:06:0	
2194	99	124	19:50:18.733		DMS:	:*US-RUNUP	P7, TRACK *1, *FWD, TIC 4524.28 +/- 4	2R3	4	0	4,980,970:07:0	
2195	99	124	19:50:18.733	175KJ422A6A	6DMSC	R115.0	DMS Control Tape runup 115.2kb	2R3	4	0	4,980,970:07:0	
2196	99	124	19:50:20.133		DMS:	:*US_AT_SP	P7, TRACK 1, FWD, TIC *4524.40 +/- 4	2R3	4	0	4,980,970:09:1	
2197	99	124	19:50:25.400		DMS:	:*US_RD	P7, TRACK 1, FWD, TIC *4525.64 +/- 4	2R3	4	0	4,980,970:17:0	
2198	99	124	19:50:26.600		DMS:	:*RUNUP	R115, TRACK *4, *REV, TIC *4525.70 +/- 4	2R3	4	0	4,980,970:18:8	

Line	YR	DOY	SCET - GMT	PSID	Command Parameters	Description	GCM	GO	GS	RIM	MF I
2199	99	124	19:50:30.066	175KJ176A6A	6TMREC HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,980,970:24:0	
2200	99	124	19:50:30.600		DMS: : *AT SPD	R115, TRACK 4, REV, TIC 4519.40 +/- 4	2R3	4	0	4,980,970:24:8	
2201	99	124	19:50:30.600		DMS: : *RECORD	R115, TRACK 4, REV, TIC *4519.40 +/- 4	2R3	4	0	4,980,970:24:8	
2202	99	124	19:50:31.400	118KJ110A111A4A	7STRP 0.00731,-0.0007,	Slew = 3.71	2R3	4	0	4,980,970:26:0	
2203	99	124	19:50:44.733	175KJ422A6B	6DMSC RDY,0	DMS Control Tape stop	2R3	4	0	4,980,970:46:0	
2204	99	124	19:50:44.733		DMS: : *RUNDOWN	R115, TRACK 4, REV, TIC *4469.71 +/- 4	2R3	4	0	4,980,970:47:8	
2205	99	124	19:50:45.933		DMS: : *READY	RDY, TRACK 4, REV, TIC *4468.71 +/- 4	2R3	4	0	4,980,970:47:8	
2206	99	124	19:51:50.066	175LJ422A6A	6DMSC R115.0	DMS Control Tape runup 115.2kb	2R3	4	0	4,980,971:53:0	
2207	99	124	19:51:50.066		DMS: : *US-RUNUP	P7, TRACK *1,*FWD, TIC 4468.71 +/- 4	2R3	4	0	4,980,971:53:0	
2208	99	124	19:51:51.466		DMS: : *US_AT_SP	P7, TRACK 1, FWD, TIC *4468.83 +/- 4	2R3	4	0	4,980,971:55:1	
2209	99	124	19:51:56.733		DMS: : *US_RD	P7, TRACK 1, FWD, TIC *4470.06 +/- 4	2R3	4	0	4,980,971:63:0	
2210	99	124	19:51:57.933		DMS: : *RUNUP	R115, TRACK *4,*REV, TIC *4470.12 +/- 4	2R3	4	0	4,980,971:64:8	
2211	99	124	19:52:01.400	175LJ176A6A	6TMREC HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,980,971:70:0	
2212	99	124	19:52:01.933		DMS: : *AT SPD	R115, TRACK 4, REV, TIC 4463.82 +/- 4	2R3	4	0	4,980,971:70:8	
2213	99	124	19:52:01.933		DMS: : *RECORD	R115, TRACK 4, REV, TIC *4463.82 +/- 4	2R3	4	0	4,980,971:70:8	
2214	99	124	19:52:02.733	118KJ11A	SMOS GE	Check S/P Position	2R3	4	0	4,980,971:72:0	
2215	99	124	19:52:05.400	165CW4A	7SCAN NORM,81.341,24.2	DMS Control Tape stop	2R3	4	0	4,980,972:00:0	
2216	99	124	19:52:15.400	175LJ422A6B	6DMSC RDY,0	DMS Control Tape stop	2R3	4	0	4,980,972:00:0	
2217	99	124	19:52:15.400		DMS: : *RUNDOWN	R115, TRACK 4, REV, TIC *4416.48 +/- 4	2R3	4	0	4,980,972:00:0	
2218	99	124	19:52:16.600		DMS: : *READY	RDY, TRACK 4, REV, TIC *4415.48 +/- 4	2R3	4	0	4,980,972:01:8	
2219	99	124	19:54:07.400	117CW	CSMOS GS	***** GROUP START CSMOS	2R3	4	0	4,980,973:77:0	
2220	99	124	19:54:16.733	117CW105A106A4A	7STRP -0.0016,0.0,0.0,	Slew = 0.02	2R3	4	0	4,980,974:00:0	
2221	99	124	19:57:48.733	117CW11A	CSMOS GE	***** GROUP END CSMOS	2R3	4	0	4,980,977:45:0	
2222	99	124	20:00:10.066	165IN4A	7SCAN NORM,83.351999,2	Check S/P Position	2R3	4	0	4,980,979:75:0	
2223	99	124	20:00:24.733	118IN	SMOS GS		2R3	4	0	4,980,980:06:0	
2224	99	124	20:00:40.733	175IN422A6A	6DMSC R115.0	DMS Control Tape runup 115.2kb	2R3	4	0	4,980,980:30:0	
2225	99	124	20:00:40.733		DMS: : *US-RUNUP	P7, TRACK *1,*FWD, TIC 4415.48 +/- 4	2R3	4	0	4,980,980:30:0	
2226	99	124	20:00:42.133		DMS: : *US_AT_SP	P7, TRACK 1, FWD, TIC *4415.60 +/- 4	2R3	4	0	4,980,980:32:1	
2227	99	124	20:00:47.400		DMS: : *US_RD	P7, TRACK 1, FWD, TIC *4416.83 +/- 4	2R3	4	0	4,980,980:40:0	
2228	99	124	20:00:48.600		DMS: : *RUNUP	R115, TRACK *4,*REV, TIC *4416.89 +/- 4	2R3	4	0	4,980,980:41:8	
2229	99	124	20:00:52.066	175IN176A6A	6TMREC HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,980,980:47:0	
2230	99	124	20:00:52.600		DMS: : *AT SPD	R115, TRACK 4, REV, TIC 4410.59 +/- 4	2R3	4	0	4,980,980:47:8	
2231	99	124	20:00:52.600		DMS: : *RECORD	R115, TRACK 4, REV, TIC *4410.59 +/- 4	2R3	4	0	4,980,980:47:8	
2232	99	124	20:00:53.400	118IN110A111A4A	7STRP 0.00731,-0.0007,	Slew = 3.71	2R3	4	0	4,980,980:49:0	
2233	99	124	20:01:08.733	118IN110A111A4B	7STRP -0.00731,0.0007,	Slew = 3.71	2R3	4	0	4,980,980:72:0	
2234	99	124	20:01:24.066	118IN110A111A4C	7STRP 0.00731,-0.0007,	Slew = 3.71	2R3	4	0	4,980,981:04:0	
2235	99	124	20:01:39.400	118IN110A111A4D	7STRP -0.00731,0.0007,	Slew = 3.71	2R3	4	0	4,980,981:27:0	
2236	99	124	20:01:54.733	118IN110A111A4E	7STRP 0.00731,-0.0007,	Slew = 3.71	2R3	4	0	4,980,981:50:0	
2237	99	124	20:02:10.066	118IN11A	SMOS GE		2R3	4	0	4,980,981:73:0	
2238	99	124	20:02:22.066		DMS: : *RUNDOWN	R115, TRACK 4, REV, TIC *4096.06 +/- 4	2R3	4	0	4,980,982:00:0	
2239	99	124	20:02:22.066	175IN422A6B	6DMSC RDY,0	DMS Control Tape stop	2R3	4	0	4,980,982:00:0	
2240	99	124	20:02:23.266		DMS: : *READY	RDY, TRACK 4, REV, TIC *4095.06 +/- 4	2R3	4	0	4,980,982:01:8	
2241	99	124	20:04:43.400	165IJ4A	7SCAN NORM,84.601999,2	Check S/P Position	2R3	4	0	4,980,984:30:0	
2242	99	124	20:05:13.400	175IJ422A6A	6DMSC R115.0	DMS Control Tape runup 115.2kb	2R3	4	0	4,980,984:75:0	
2243	99	124	20:05:13.400		DMS: : *US-RUNUP	P7, TRACK *1,*FWD, TIC 4095.06 +/- 4	2R3	4	0	4,980,984:75:0	
2244	99	124	20:05:14.800		DMS: : *US_AT_SP	P7, TRACK 1, FWD, TIC *4095.18 +/- 4	2R3	4	0	4,980,984:77:1	
2245	99	124	20:05:16.066	118IJ	SMOS GS		2R3	4	0	4,980,984:79:0	
2246	99	124	20:05:20.066		DMS: : *US_RD	P7, TRACK 1, FWD, TIC *4096.42 +/- 4	2R3	4	0	4,980,984:85:0	
2247	99	124	20:05:21.266		DMS: : *RUNUP	R115, TRACK *4,*REV, TIC *4096.48 +/- 4	2R3	4	0	4,980,984:86:8	
2248	99	124	20:05:24.733	175IJ176A6A	6TMREC HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,980,985:01:0	
2249	99	124	20:05:25.266		DMS: : *RECORD	R115, TRACK 4, REV, TIC *4090.18 +/- 4	2R3	4	0	4,980,985:01:8	
2250	99	124	20:05:25.266		DMS: : *AT SPD	R115, TRACK 4, REV, TIC 4090.18 +/- 4	2R3	4	0	4,980,985:01:8	
2251	99	124	20:05:26.066	118IJ110A111A4A	7STRP 0.00731,-0.0007,	Slew = 3.71	2R3	4	0	4,980,985:03:0	
2252	99	124	20:05:41.400	118IJ110A111A4B	7STRP -0.00731,0.0007,	Slew = 3.71	2R3	4	0	4,980,985:26:0	
2253	99	124	20:05:56.733	118IJ110A111A4C	7STRP 0.00731,-0.0007,	Slew = 3.71	2R3	4	0	4,980,985:49:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2254	99	124	20:06:12.066	118U11A	SMOS	GE		2R3	4	0	4,980,985.72:0	
2255	99	124	20:06:14.733	165QR4A	7SCAN	NORM,79.712999,2	Check S/P Position	2R3	4	0	4,980,985.76:0	
2256	99	124	20:06:24.733		DMS:	: *RUNDOWN	R115, TRACK 4, REV, TIC *3881.11 +/- 4	2R3	4	0	4,980,986.00:0	
2257	99	124	20:06:24.733	175J422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,980,986.00:0	
2258	99	124	20:06:25.933		DMS:	: *READY	RDY, TRACK 4, REV, TIC *3880.11 +/- 4	2R3	4	0	4,980,986.01:8	
2259	99	124	20:07:24.066	165QR4B	7VECT		Inert vect update UTC	2R3	4	0	4,980,986.89:0	
2260	99	124	20:08:21.400	175QR422A6A	6DMSC	R115.0	DMS Control Tape runup 115.2kb	2R3	4	0	4,980,987.84:0	
2261	99	124	20:08:21.400		DMS:	: *US-RUNUP	P7, TRACK *1,*FWD, TIC 3880.11 +/- 4	2R3	4	0	4,980,987.84:0	
2262	99	124	20:08:22.800		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *3880.23 +/- 4	2R3	4	0	4,980,987.86:1	
2263	99	124	20:08:28.066		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *3881.47 +/- 4	2R3	4	0	4,980,988.03:0	
2264	99	124	20:08:29.266		DMS:	: *RUNUP	R115, TRACK *4,*REV, TIC *3881.53 +/- 4	2R3	4	0	4,980,988.04:8	
2265	99	124	20:08:32.733	175QR176A6A	6TMREC	HIM	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,980,988.10:0	
2266	99	124	20:08:33.266		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC 3875.23 +/- 4	2R3	4	0	4,980,988.10:8	
2267	99	124	20:08:33.266		DMS:	: *RECORD	R115, TRACK 4, REV, TIC *3875.23 +/- 4	2R3	4	0	4,980,988.10:8	
2268	99	124	20:09:26.733		DMS:	: *RUNDOWN	R115, TRACK 4, REV, TIC *3687.26 +/- 4	2R3	4	0	4,980,989.00:0	
2269	99	124	20:09:26.733	175QR422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,980,989.00:0	
2270	99	124	20:09:27.933		DMS:	: *READY	RDY, TRACK 4, REV, TIC *3686.26 +/- 4	2R3	4	0	4,980,989.01:8	
2271	99	124	20:11:23.400	175QS422A6A	6DMSC	R115.0	DMS Control Tape runup 115.2kb	2R3	4	0	4,980,990.84:0	
2272	99	124	20:11:23.400		DMS:	: *US-RUNUP	P7, TRACK *1,*FWD, TIC 3686.26 +/- 4	2R3	4	0	4,980,990.84:0	
2273	99	124	20:11:24.800		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *3686.38 +/- 4	2R3	4	0	4,980,990.86:1	
2274	99	124	20:11:30.066		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *3687.61 +/- 4	2R3	4	0	4,980,991.03:0	
2275	99	124	20:11:31.266		DMS:	: *RUNUP	R115, TRACK *4,*REV, TIC *3687.67 +/- 4	2R3	4	0	4,980,991.04:8	
2276	99	124	20:11:34.733	175QS176A6A	6TMREC	HIM	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,980,991.10:0	
2277	99	124	20:11:35.266		DMS:	: *RECORD	R115, TRACK 4, REV, TIC *3681.37 +/- 4	2R3	4	0	4,980,991.10:8	
2278	99	124	20:11:35.266		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC 3681.37 +/- 4	2R3	4	0	4,980,991.10:8	
2279	99	124	20:12:28.733		DMS:	: *RUNDOWN	R115, TRACK 4, REV, TIC *3493.40 +/- 4	2R3	4	0	4,980,992.00:0	
2280	99	124	20:12:28.733	175QS422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,980,992.00:0	
2281	99	124	20:12:29.933		DMS:	: *READY	RDY, TRACK 4, REV, TIC *3492.40 +/- 4	2R3	4	0	4,980,992.01:8	
2282	99	124	20:13:11.400	488AI6C	6TMSED	FILL_AL3	Sci, Eng, and D/L Chan	2R3	4	0	4,980,992.64:0	
2283	99	124	20:13:49.400	165KK4A	7SCAN	NORM,79.622999,2	Check S/P Position	2R3	4	0	4,980,993.30:0	
2284	99	124	20:14:28.733	165KK4B	7VECT		Inert vect update UTC	2R3	4	0	4,980,993.89:0	
2285	99	124	20:14:34.066	118KK	SMOS	GS		2R3	4	0	4,980,994.06:0	
2286	99	124	20:14:34.733	175KK422A6A	6DMSC	R115.0	DMS Control Tape runup 115.2kb	2R3	4	0	4,980,994.07:0	
2287	99	124	20:14:34.733		DMS:	: *US-RUNUP	P7, TRACK *1,*FWD, TIC 3492.40 +/- 4	2R3	4	0	4,980,994.07:0	
2288	99	124	20:14:36.133		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *3492.52 +/- 4	2R3	4	0	4,980,994.09:1	
2289	99	124	20:14:41.400		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *3493.76 +/- 4	2R3	4	0	4,980,994.17:0	
2290	99	124	20:14:42.600		DMS:	: *RUNUP	R115, TRACK *4,*REV, TIC *3493.82 +/- 4	2R3	4	0	4,980,994.18:8	
2291	99	124	20:14:46.066	175KK176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,980,994.24:0	
2292	99	124	20:14:46.600		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC 3487.52 +/- 4	2R3	4	0	4,980,994.24:8	
2293	99	124	20:14:46.600		DMS:	: *RECORD	R115, TRACK 4, REV, TIC *3487.52 +/- 4	2R3	4	0	4,980,994.24:8	
2294	99	124	20:14:47.400	118KK110A111A4A	7STRP	0.00731,-0.0007,	Slew = -3.71	2R3	4	0	4,980,994.26:0	
2295	99	124	20:15:00.733	175KK422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,980,994.46:0	
2296	99	124	20:15:00.733		DMS:	: *RUNDOWN	R115, TRACK 4, REV, TIC *3437.83 +/- 4	2R3	4	0	4,980,994.46:0	
2297	99	124	20:15:01.933		DMS:	: *READY	RDY, TRACK 4, REV, TIC *3436.83 +/- 4	2R3	4	0	4,980,994.47:8	
2298	99	124	20:16:06.066		DMS:	: *US-RUNUP	P7, TRACK *1,*FWD, TIC 3436.83 +/- 4	2R3	4	0	4,980,995.53:0	
2299	99	124	20:16:06.066	175LK422A6A	6DMSC	R115.0	DMS Control Tape runup 115.2kb	2R3	4	0	4,980,995.53:0	
2300	99	124	20:16:07.466		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *3436.95 +/- 4	2R3	4	0	4,980,995.55:1	
2301	99	124	20:16:12.733		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *3438.19 +/- 4	2R3	4	0	4,980,995.63:0	
2302	99	124	20:16:13.933		DMS:	: *RUNUP	R115, TRACK *4,*REV, TIC *3438.25 +/- 4	2R3	4	0	4,980,995.64:8	
2303	99	124	20:16:17.400	175LK176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,980,995.70:0	
2304	99	124	20:16:17.933		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC 3431.95 +/- 4	2R3	4	0	4,980,995.70:8	
2305	99	124	20:16:17.933		DMS:	: *RECORD	R115, TRACK 4, REV, TIC *3431.95 +/- 4	2R3	4	0	4,980,995.70:8	
2306	99	124	20:16:18.733	118KK11A	SMOS	GE		2R3	4	0	4,980,995.72:0	
2307	99	124	20:16:23.400	165CX4A	7SCAN	NORM,84.169,24.5	Check S/P Position	2R3	4	0	4,980,995.79:0	
2308	99	124	20:16:31.400		DMS:	: *RUNDOWN	R115, TRACK 4, REV, TIC *3384.60 +/- 4	2R3	4	0	4,980,996.00:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2309	99	124	20:16:31.400	175LK422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,980,996:00:0	
2310	99	124	20:16:32.600		DMS:	: *READY	RDY, TRACK 4, REV, TIC *3383.60 +/- 4	2R3	4	0	4,980,996:01:8	
2311	99	124	20:20:13.400	165CY4A	7SCAN	NORM,82.146,24.2	Check S/P Position	2R3	4	0	4,980,999:60:0	
2312	99	124	20:25:26.733	165IO4A	7SCAN	NORM,84.016999,2	Check S/P Position	2R3	4	0	4,981,004:75:0	
2313	99	124	20:25:41.400	118IO	SMOS	GS		2R3	4	0	4,981,005:06:0	
2314	99	124	20:25:57.400	175IO422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2R3	4	0	4,981,005:30:0	
2315	99	124	20:25:57.400		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 3383.60 +/- 4	2R3	4	0	4,981,005:30:0	
2316	99	124	20:25:58.800		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *3383.72 +/- 4	2R3	4	0	4,981,005:32:1	
2317	99	124	20:26:04.066		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *3384.96 +/- 4	2R3	4	0	4,981,005:40:0	
2318	99	124	20:26:05.266		DMS:	: *RUNUP	R115, TRACK *4, *REV, TIC *3385.02 +/- 4	2R3	4	0	4,981,005:41:8	
2319	99	124	20:26:08.733	175IO176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,981,005:47:8	
2320	99	124	20:26:09.266		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC 3378.72 +/- 5	2R3	4	0	4,981,005:47:8	
2321	99	124	20:26:09.266		DMS:	: *RECORD	R115, TRACK 4, REV, TIC *3378.72 +/- 4	2R3	4	0	4,981,005:47:8	
2322	99	124	20:26:10.066	118IO110A11A4A	7STRP	0.00731,-0.0007,	Slew = 3.71	2R3	4	0	4,981,005:49:0	
2323	99	124	20:26:25.400	118IO110A11A4B	7STRP	-0.00731,0.0007,	Slew = 3.71	2R3	4	0	4,981,005:72:0	
2324	99	124	20:26:40.733	118IO110A11A4C	7STRP	0.00731,-0.0007,	Slew = 3.71	2R3	4	0	4,981,006:04:0	
2325	99	124	20:26:56.066	118IO110A11A4D	7STRP	-0.00731,0.0007,	Slew = 3.71	2R3	4	0	4,981,006:27:0	
2326	99	124	20:27:11.400	118IO110A11A4E	7STRP	0.00731,-0.0007,	Slew = 3.71	2R3	4	0	4,981,006:50:0	
2327	99	124	20:27:26.733	118IO11A	SMOS	GE		2R3	4	0	4,981,006:73:0	
2328	99	124	20:27:30.733	165CZ4A	7SCAN	NORM,82.344,24.3	Check S/P Position	2R3	4	0	4,981,006:79:0	
2329	99	124	20:27:38.733	175IO422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,981,007:00:0	
2330	99	124	20:27:38.733		DMS:	: *RUNDOWN	R115, TRACK 4, REV, TIC *3064.19 +/- 5	2R3	4	0	4,981,007:00:0	
2331	99	124	20:27:39.933		DMS:	: *READY	RDY, TRACK 4, REV, TIC *3063.19 +/- 5	2R3	4	0	4,981,007:01:8	
2332	99	124	20:30:00.066	165IK4A	7SCAN	NORM,85.256,24.6	Check S/P Position	2R3	4	0	4,981,009:30:0	
2333	99	124	20:30:30.066		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 3063.19 +/- 5	2R3	4	0	4,981,009:75:0	
2334	99	124	20:30:30.066	175IK422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2R3	4	0	4,981,009:75:0	
2335	99	124	20:30:31.466		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *3063.31 +/- 5	2R3	4	0	4,981,009:77:1	
2336	99	124	20:30:32.733	118IK	SMOS	GS		2R3	4	0	4,981,009:79:0	
2337	99	124	20:30:36.733		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *3064.54 +/- 5	2R3	4	0	4,981,009:85:0	
2338	99	124	20:30:37.933		DMS:	: *RUNUP	R115, TRACK *4, *REV, TIC *3064.60 +/- 5	2R3	4	0	4,981,009:86:8	
2339	99	124	20:30:41.400	175IK176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,981,010:01:0	
2340	99	124	20:30:41.933		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC 3058.30 +/- 5	2R3	4	0	4,981,010:01:8	
2341	99	124	20:30:41.933		DMS:	: *RECORD	R115, TRACK 4, REV, TIC *3058.30 +/- 5	2R3	4	0	4,981,010:01:8	
2342	99	124	20:30:42.733	118IK110A11A4A	7STRP	0.00731,-0.0007,	Slew = 3.71	2R3	4	0	4,981,010:03:0	
2343	99	124	20:30:58.066	118IK110A11A4B	7STRP	-0.00731,0.0007,	Slew = 3.71	2R3	4	0	4,981,010:26:0	
2344	99	124	20:31:13.400	118IK110A11A4C	7STRP	0.00731,-0.0007,	Slew = 3.71	2R3	4	0	4,981,010:49:0	
2345	99	124	20:31:28.733	118IK11A	SMOS	GE		2R3	4	0	4,981,010:72:0	
2346	99	124	20:31:33.400	165BZ4A	7SCAN	NORM,82.459999,2	Check S/P Position	2R3	4	0	4,981,010:79:0	
2347	99	124	20:31:41.400		DMS:	: *RUNDOWN	R115, TRACK 4, REV, TIC *2849.24 +/- 5	2R3	4	0	4,981,011:00:0	
2348	99	124	20:31:41.400	175IK422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,981,011:00:0	
2349	99	124	20:31:42.600		DMS:	: *READY	RDY, TRACK 4, REV, TIC *2848.24 +/- 5	2R3	4	0	4,981,011:01:8	
2350	99	124	20:33:33.400	117BZ	CSMOS	GS	***** GROUP START CSMOS	2R3	4	0	4,981,012:77:0	
2351	99	124	20:33:42.733	117BZ105A106A4A	7STRP	-0.0017,0.0,0.0,	Slew = 0.02	2R3	4	0	4,981,013:00:0	
2352	99	124	20:37:14.733	117BZ11A	CSMOS	GE	***** GROUP END CSMOS	2R3	4	0	4,981,016:45:0	
2353	99	124	20:39:36.066	165KM4A	7SCAN	NORM,85.087,23.8	Check S/P Position	2R3	4	0	4,981,018:75:0	
2354	99	124	20:39:50.733	118KM	SMOS	GS		2R3	4	0	4,981,019:06:0	
2355	99	124	20:40:06.733	175KM422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2R3	4	0	4,981,019:30:0	
2356	99	124	20:40:06.733		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 2848.24 +/- 5	2R3	4	0	4,981,019:30:0	
2357	99	124	20:40:08.133		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *2848.36 +/- 5	2R3	4	0	4,981,019:32:1	
2358	99	124	20:40:13.400		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *2849.59 +/- 5	2R3	4	0	4,981,019:40:0	
2359	99	124	20:40:14.600		DMS:	: *RUNUP	R115, TRACK *4, *REV, TIC *2849.65 +/- 5	2R3	4	0	4,981,019:41:8	
2360	99	124	20:40:18.066	175KM176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,981,019:47:0	
2361	99	124	20:40:18.600		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC 2843.35 +/- 5	2R3	4	0	4,981,019:47:8	
2362	99	124	20:40:18.600		DMS:	: *RECORD	R115, TRACK 4, REV, TIC *2843.35 +/- 5	2R3	4	0	4,981,019:47:8	
2363	99	124	20:40:19.400	118KM110A11A4A	7STRP	0.00731,-0.0007,	Slew = 3.71	2R3	4	0	4,981,019:49:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2364	99	124	20:40:34.733	118KM11A	SMOS	GE		2R3	4	0	4,981,019.72:0	
2365	99	124	20:40:47.400	175KM422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,981,020:00:0	
2366	99	124	20:40:47.400		DMS:	:* RUNDOWN	R115, TRACK 4, REV, TIC *2742.10 +/- 5	2R3	4	0	4,981,020:00:0	
2367	99	124	20:40:48.600		DMS:	:* READY	RDY, TRACK 4, REV, TIC *2741.10 +/- 5	2R3	4	0	4,981,020:01:8	
2368	99	124	20:41:07.400	165KL4A	7SCAN	NORM,80.306,25.6	Check S/P Position	2R3	4	0	4,981,020:30:0	
2369	99	124	20:41:46.733	165KL4B	7VECT		Inert vect update UTC	2R3	4	0	4,981,020:89:0	
2370	99	124	20:41:52.066	118KL	SMOS	GS		2R3	4	0	4,981,021:06:0	
2371	99	124	20:41:52.733		DMS:	:* US-RUNUP	P7, TRACK *1, FWD, TIC 2741.10 +/- 5	2R3	4	0	4,981,021:07:0	
2372	99	124	20:41:52.733	175KL422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2R3	4	0	4,981,021:07:0	
2373	99	124	20:41:54.133		DMS:	:* US_AT_SP	P7, TRACK 1, FWD, TIC *2741.22 +/- 5	2R3	4	0	4,981,021:09:1	
2374	99	124	20:41:59.400		DMS:	:* US_RD	P7, TRACK 1, FWD, TIC *2742.46 +/- 5	2R3	4	0	4,981,021:17:0	
2375	99	124	20:42:00.600		DMS:	:* RUNUP	R115, TRACK *4, *REV, TIC *2742.52 +/- 5	2R3	4	0	4,981,021:18:8	
2376	99	124	20:42:04.066	175KL176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,981,021:24:0	
2377	99	124	20:42:04.600		DMS:	:* AT_SPD	R115, TRACK 4, REV, TIC 2736.22 +/- 5	2R3	4	0	4,981,021:24:8	
2378	99	124	20:42:04.600		DMS:	:* RECORD	R115, TRACK 4, REV, TIC *2736.22 +/- 5	2R3	4	0	4,981,021:24:8	
2379	99	124	20:42:05.400	118KL110A111A4A	7STRP	0.00731,-0.0007,	Slew = -3.71	2R3	4	0	4,981,021:26:0	
2380	99	124	20:42:18.733	175KL422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,981,021:46:0	
2381	99	124	20:42:18.733		DMS:	:* RUNDOWN	R115, TRACK 4, REV, TIC *2686.53 +/- 5	2R3	4	0	4,981,021:46:0	
2382	99	124	20:42:19.933		DMS:	:* READY	RDY, TRACK 4, REV, TIC *2685.53 +/- 5	2R3	4	0	4,981,021:47:8	
2383	99	124	20:43:24.066	175LL422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2R3	4	0	4,981,022:53:0	
2384	99	124	20:43:24.066		DMS:	:* US-RUNUP	P7, TRACK *1, FWD, TIC 2685.53 +/- 5	2R3	4	0	4,981,022:53:0	
2385	99	124	20:43:25.466		DMS:	:* US_AT_SP	P7, TRACK 1, FWD, TIC *2685.65 +/- 5	2R3	4	0	4,981,022:55:1	
2386	99	124	20:43:30.733		DMS:	:* US_RD	P7, TRACK 1, FWD, TIC *2686.88 +/- 5	2R3	4	0	4,981,022:63:0	
2387	99	124	20:43:31.933		DMS:	:* RUNUP	R115, TRACK *4, *REV, TIC *2686.94 +/- 5	2R3	4	0	4,981,022:64:8	
2388	99	124	20:43:35.400	175LL176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,981,022:70:0	
2389	99	124	20:43:35.933		DMS:	:* RECORD	R115, TRACK 4, REV, TIC *2680.64 +/- 5	2R3	4	0	4,981,022:70:8	
2390	99	124	20:43:35.933		DMS:	:* AT_SPD	R115, TRACK 4, REV, TIC 2680.64 +/- 5	2R3	4	0	4,981,022:70:8	
2391	99	124	20:43:36.733	118KL11A	SMOS	GE		2R3	4	0	4,981,022:72:0	
2392	99	124	20:43:41.400	165BY4A	7SCAN	NORM,84.238,24.5	Check S/P Position	2R3	4	0	4,981,022:79:0	
2393	99	124	20:43:49.400		DMS:	:* RUNDOWN	R115, TRACK 4, REV, TIC *2633.30 +/- 5	2R3	4	0	4,981,023:00:0	
2394	99	124	20:43:49.400	175LL422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,981,023:00:0	
2395	99	124	20:43:50.600		DMS:	:* READY	RDY, TRACK 4, REV, TIC *2632.30 +/- 5	2R3	4	0	4,981,023:01:8	
2396	99	124	20:47:11.400	165IT4A	7SCAN	NORM,83.035,24.5	Check S/P Position	2R3	4	0	4,981,026:30:0	
2397	99	124	20:47:41.400	175IT422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2R3	4	0	4,981,026:75:0	
2398	99	124	20:47:41.400		DMS:	:* US-RUNUP	P7, TRACK *1, FWD, TIC 2632.30 +/- 5	2R3	4	0	4,981,026:75:0	
2399	99	124	20:47:42.800		DMS:	:* US_AT_SP	P7, TRACK 1, FWD, TIC *2632.42 +/- 5	2R3	4	0	4,981,026:77:1	
2400	99	124	20:47:44.066	118IT	SMOS	GS		2R3	4	0	4,981,026:79:0	
2401	99	124	20:47:48.066		DMS:	:* US_RD	P7, TRACK 1, FWD, TIC *2633.65 +/- 5	2R3	4	0	4,981,026:85:0	
2402	99	124	20:47:49.266		DMS:	:* RUNUP	R115, TRACK *4, *REV, TIC *2633.71 +/- 5	2R3	4	0	4,981,026:86:8	
2403	99	124	20:47:52.733	175IT176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,981,027:01:8	
2404	99	124	20:47:53.266		DMS:	:* AT_SPD	R115, TRACK 4, REV, TIC 2627.41 +/- 5	2R3	4	0	4,981,027:01:8	
2405	99	124	20:47:53.266		DMS:	:* RECORD	R115, TRACK 4, REV, TIC *2627.41 +/- 5	2R3	4	0	4,981,027:01:8	
2406	99	124	20:47:54.066	118IT110A111A4A	7STRP	0.00731,-0.0007,	Slew = -3.71	2R3	4	0	4,981,027:03:0	
2407	99	124	20:48:09.400	118IT110A111A4B	7STRP	-0.00731,0.0007,	Slew = -3.71	2R3	4	0	4,981,027:26:0	
2408	99	124	20:48:24.733	118IT110A111A4C	7STRP	0.00731,-0.0007,	Slew = -3.71	2R3	4	0	4,981,027:49:0	
2409	99	124	20:48:40.066	118IT11A	SMOS	GE		2R3	4	0	4,981,027:72:0	
2410	99	124	20:49:08.066	175IT422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,981,028:23:0	
2411	99	124	20:49:08.066		DMS:	:* RUNDOWN	R115, TRACK 4, REV, TIC *2364.44 +/- 5	2R3	4	0	4,981,028:23:0	
2412	99	124	20:49:09.266		DMS:	:* READY	RDY, TRACK 4, REV, TIC *2363.44 +/- 5	2R3	4	0	4,981,028:24:8	
2413	99	124	20:50:43.400	165IP4A	7SCAN	NORM,84.664,24.6	Check S/P Position	2R3	4	0	4,981,029:75:0	
2414	99	124	20:50:58.066	118IP	SMOS	GS		2R3	4	0	4,981,030:06:0	
2415	99	124	20:51:14.066		DMS:	:* US-RUNUP	P7, TRACK *1, FWD, TIC 2363.44 +/- 5	2R3	4	0	4,981,030:30:0	
2416	99	124	20:51:14.066	175IP422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2R3	4	0	4,981,030:30:0	
2417	99	124	20:51:15.466		DMS:	:* US_AT_SP	P7, TRACK 1, FWD, TIC *2363.56 +/- 5	2R3	4	0	4,981,030:32:1	
2418	99	124	20:51:20.733		DMS:	:* US_RD	P7, TRACK 1, FWD, TIC *2364.80 +/- 5	2R3	4	0	4,981,030:40:0	

Line	YR	DOY	SCET - GMT	PSID	Command Parameters	Description	GCM	GO	GS	RIM	MF I
2419	99	124	20:51:21.933		DMS: : *RUNUP	R115, TRACK 4, *REV, TIC *2364.86 +/- 5	2R3	4	0	4,981,030:41:8	
2420	99	124	20:51:25.400	175IP176A6A	6TMREC HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,981,030:47:0	
2421	99	124	20:51:25.933		DMS: : *AT_SPD	R115, TRACK 4, REV, TIC 2358.56 +/- 5	2R3	4	0	4,981,030:47:8	
2422	99	124	20:51:25.933		DMS: : *RECORD	R115, TRACK 4, REV, TIC *2358.56 +/- 5	2R3	4	0	4,981,030:47:8	
2423	99	124	20:51:26.733	118IP110A111A4A	7STRP 0.00731,-0.0007,	Slew = -3.71	2R3	4	0	4,981,030:49:0	
2424	99	124	20:51:42.066	118IP110A111A4B	7STRP -0.00731,0.0007,	Slew = -3.71	2R3	4	0	4,981,030:72:0	
2425	99	124	20:51:57.400	118IP110A111A4C	7STRP 0.00731,-0.0007,	Slew = -3.71	2R3	4	0	4,981,031:04:0	
2426	99	124	20:52:12.733	118IP110A111A4D	7STRP -0.00731,0.0007,	Slew = -3.71	2R3	4	0	4,981,031:27:0	
2427	99	124	20:52:28.066	118IP110A111A4E	7STRP 0.00731,-0.0007,	Slew = -3.71	2R3	4	0	4,981,031:50:0	
2428	99	124	20:52:43.400	118IP11A	SMOS GE		2R3	4	0	4,981,031:73:0	
2429	99	124	20:52:55.400		DMS: : *RUNDOWN	R115, TRACK 4, REV, TIC *2044.03 +/- 5	2R3	4	0	4,981,032:00:0	
2430	99	124	20:52:55.400	175IP422A6B	6DMSC RDY,0	DMS Control Tape stop	2R3	4	0	4,981,032:00:0	
2431	99	124	20:52:56.600		DMS: : *READY	RDY, TRACK 4, REV, TIC *2043.03 +/- 5	2R3	4	0	4,981,032:01:8	
2432	99	124	20:55:15.400	488AI6D	6TMSED NORM,AL3	Sci, Eng, and D/L Chan	2R3	4	0	4,981,034:28:0	
2433	99	124	20:55:16.733	165IL4A	7SCAN NORM,85.891999,2	Check S/P Position	2R3	4	0	4,981,034:30:0	
2434	99	124	20:55:46.733	175IL422A6A	6DMSC R115,0	DMS Control Tape runup 115.2kb	2R3	4	0	4,981,034:75:0	
2435	99	124	20:55:46.733		DMS: : *US-RUNUP	P7, TRACK *1, *FWD, TIC 2043.03 +/- 5	2R3	4	0	4,981,034:75:0	
2436	99	124	20:55:48.133		DMS: : *US_AT_SP	P7, TRACK 1, FWD, TIC *2043.15 +/- 5	2R3	4	0	4,981,034:77:1	
2437	99	124	20:55:49.400	118IL	SMOS GS		2R3	4	0	4,981,034:79:0	
2438	99	124	20:55:53.400		DMS: : *US_RD	P7, TRACK 1, FWD, TIC *2044.38 +/- 5	2R3	4	0	4,981,034:85:0	
2439	99	124	20:55:54.600		DMS: : *RUNUP	R115, TRACK 4, *REV, TIC *2044.44 +/- 5	2R3	4	0	4,981,034:86:8	
2440	99	124	20:55:58.066	175IL176A6A	6TMREC HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,981,035:01:0	
2441	99	124	20:55:58.600		DMS: : *AT_SPD	R115, TRACK 4, REV, TIC 2038.14 +/- 5	2R3	4	0	4,981,035:01:8	
2442	99	124	20:55:58.600		DMS: : *RECORD	R115, TRACK 4, REV, TIC *2038.14 +/- 5	2R3	4	0	4,981,035:01:8	
2443	99	124	20:55:59.400	118IL110A111A4A	7STRP 0.00731,-0.0007,	Slew = -3.71	2R3	4	0	4,981,035:03:0	
2444	99	124	20:56:14.733	118IL110A111A4B	7STRP -0.00731,0.0007,	Slew = -3.71	2R3	4	0	4,981,035:26:0	
2445	99	124	20:56:30.066	118IL110A111A4C	7STRP 0.00731,-0.0007,	Slew = -3.71	2R3	4	0	4,981,035:49:0	
2446	99	124	20:56:45.400	118IL11A	SMOS GE		2R3	4	0	4,981,035:72:0	
2447	99	124	20:56:58.066		DMS: : *RUNDOWN	R115, TRACK 4, REV, TIC *1829.08 +/- 5	2R3	4	0	4,981,036:00:0	
2448	99	124	20:56:58.066	175IL422A6B	6DMSC RDY,0	DMS Control Tape stop	2R3	4	0	4,981,036:00:0	
2449	99	124	20:56:59.266		DMS: : *READY	RDY, TRACK 4, REV, TIC *1828.08 +/- 5	2R3	4	0	4,981,036:01:8	
2450	99	124	21:00:04.733	165LU4A	7SCAN NORM,82.855,26.4	Check S/P Position	2R3	4	0	4,981,039:07:0	
2451	99	124	21:00:35.400		DMS: : *US-RUNUP	P7, TRACK *1, *FWD, TIC 1828.08 +/- 5	2R3	4	0	4,981,039:53:0	
2452	99	124	21:00:35.400	175LU422A6A	6DMSC R115,0	DMS Control Tape runup 115.2kb	2R3	4	0	4,981,039:53:0	
2453	99	124	21:00:36.800		DMS: : *US_AT_SP	P7, TRACK 1, FWD, TIC *1828.20 +/- 5	2R3	4	0	4,981,039:55:1	
2454	99	124	21:00:42.066		DMS: : *US_RD	P7, TRACK 1, FWD, TIC *1829.43 +/- 5	2R3	4	0	4,981,039:63:0	
2455	99	124	21:00:43.266		DMS: : *RUNUP	R115, TRACK 4, *REV, TIC *1829.49 +/- 5	2R3	4	0	4,981,039:64:8	
2456	99	124	21:00:46.733	175LU176A6A	6TMREC HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,981,039:70:0	
2457	99	124	21:00:47.266		DMS: : *RECORD	R115, TRACK 4, REV, TIC *1823.19 +/- 5	2R3	4	0	4,981,039:70:8	
2458	99	124	21:00:47.266	175LU422A6B	6DMSC RDY,0	DMS Control Tape stop	2R3	4	0	4,981,039:70:8	
2459	99	124	21:01:00.733		DMS: : *RUNDOWN	R115, TRACK 4, REV, TIC *1775.85 +/- 5	2R3	4	0	4,981,040:00:0	
2460	99	124	21:01:00.733		DMS: : *READY	RDY, TRACK 4, REV, TIC *1774.85 +/- 5	2R3	4	0	4,981,040:01:8	
2461	99	124	21:01:01.933		DMS: : *US-RUNUP	Check S/P Position	2R3	4	0	4,981,043:75:0	
2462	99	124	21:04:52.733	165KN4A	7SCAN NORM,85.721,23.8		2R3	4	0	4,981,043:75:0	
2463	99	124	21:05:07.400	118KN	SMOS GS		2R3	4	0	4,981,044:06:0	
2464	99	124	21:05:23.400		DMS: : *US-RUNUP	P7, TRACK *1, *FWD, TIC 1774.85 +/- 5	2R3	4	0	4,981,044:30:0	
2465	99	124	21:05:23.400	175KN422A6A	6DMSC R115,0	DMS Control Tape runup 115.2kb	2R3	4	0	4,981,044:30:0	
2466	99	124	21:05:24.800		DMS: : *US_AT_SP	P7, TRACK 1, FWD, TIC *1774.97 +/- 5	2R3	4	0	4,981,044:32:1	
2467	99	124	21:05:30.066		DMS: : *US_RD	P7, TRACK 1, FWD, TIC *1776.20 +/- 5	2R3	4	0	4,981,044:40:0	
2468	99	124	21:05:31.266		DMS: : *RUNUP	R115, TRACK 4, *REV, TIC *1776.26 +/- 5	2R3	4	0	4,981,044:41:8	
2469	99	124	21:05:34.733	175KN176A6A	6TMREC HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,981,044:47:0	
2470	99	124	21:05:35.266		DMS: : *AT_SPD	R115, TRACK 4, REV, TIC 1769.96 +/- 5	2R3	4	0	4,981,044:47:8	
2471	99	124	21:05:35.266		DMS: : *RECORD	R115, TRACK 4, REV, TIC *1769.96 +/- 5	2R3	4	0	4,981,044:47:8	
2472	99	124	21:05:36.066	118KN110A111A4A	7STRP 0.00731,-0.0007,	Slew = -3.71	2R3	4	0	4,981,044:49:0	
2473	99	124	21:05:51.400	118KN11A	SMOS GE		2R3	4	0	4,981,044:72:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2474	99	124	21:06:04.066	175KN422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,981,045:00:0	
2475	99	124	21:06:04.066		DMS:	: *RUNDOWN	R115, TRACK 4, REV, TIC *1668.71 +/- 5	2R3	4	0	4,981,045:00:0	
2476	99	124	21:06:05.266		DMS:	: *READY	RDY, TRACK 4, REV, TIC *1667.71 +/- 5	2R3	4	0	4,981,045:01:8	
2477	99	124	21:12:28.066	165IU4A	7SCAN	NORM,83.691,24.5	Check S/P Position	2R3	4	0	4,981,051:30:0	
2478	99	124	21:12:58.066	175IU422A6A	6DMSC	R115:0	DMS Control Tape runup 115.2kb	2R3	4	0	4,981,051:75:0	
2479	99	124	21:12:58.066		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 1667.71 +/- 5	2R3	4	0	4,981,051:75:0	
2480	99	124	21:12:59.466		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *1667.83 +/- 5	2R3	4	0	4,981,051:77:1	
2481	99	124	21:13:00.733	118IU	SMOS	GS		2R3	4	0	4,981,051:79:0	
2482	99	124	21:13:04.733		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *1669.07 +/- 5	2R3	4	0	4,981,051:85:0	
2483	99	124	21:13:05.933		DMS:	: *RUNUP	R115, TRACK *4, *REV, TIC *1669.13 +/- 5	2R3	4	0	4,981,051:86:8	
2484	99	124	21:13:09.400	175IU176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,981,052:01:0	
2485	99	124	21:13:09.933		DMS:	: *RECORD	R115, TRACK 4, REV, TIC *1662.83 +/- 5	2R3	4	0	4,981,052:01:8	
2486	99	124	21:13:09.933		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC 1662.83 +/- 5	2R3	4	0	4,981,052:01:8	
2487	99	124	21:13:10.733	118IU110A11A4A	7STRP	0.00731,-0.0007,	Slew = 3.71	2R3	4	0	4,981,052:03:0	
2488	99	124	21:13:26.066	118IU110A11A4B	7STRP	-0.00731,0.0007,	Slew = 3.71	2R3	4	0	4,981,052:26:0	
2489	99	124	21:13:41.400	118IU110A11A4C	7STRP	0.00731,-0.0007,	Slew = 3.71	2R3	4	0	4,981,052:49:0	
2490	99	124	21:13:56.733	118IU11A	SMOS	GE		2R3	4	0	4,981,052:72:0	
2491	99	124	21:14:09.400		DMS:	: *RUNDOWN	R115, TRACK 4, REV, TIC *1453.77 +/- 5	2R3	4	0	4,981,053:00:0	
2492	99	124	21:14:09.400	175IU422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,981,053:00:0	
2493	99	124	21:14:10.600		DMS:	: *READY	RDY, TRACK 4, REV, TIC *1452.77 +/- 5	2R3	4	0	4,981,053:01:8	
2494	99	124	21:16:00.066	165IQ4A	7SCAN	NORM,85.308999,2	Check S/P Position	2R3	4	0	4,981,054:75:0	
2495	99	124	21:16:14.733	118IQ	SMOS	GS		2R3	4	0	4,981,055:06:0	
2496	99	124	21:16:30.733		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 1452.77 +/- 5	2R3	4	0	4,981,055:30:0	
2497	99	124	21:16:30.733	175IQ422A6A	6DMSC	R115:0	DMS Control Tape runup 115.2kb	2R3	4	0	4,981,055:30:0	
2498	99	124	21:16:32.133		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *1452.89 +/- 5	2R3	4	0	4,981,055:32:1	
2499	99	124	21:16:37.400		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *1454.12 +/- 5	2R3	4	0	4,981,055:40:0	
2500	99	124	21:16:38.600		DMS:	: *RUNUP	R115, TRACK *4, *REV, TIC *1454.18 +/- 5	2R3	4	0	4,981,055:41:8	
2501	99	124	21:16:42.066	175IQ176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,981,055:47:0	
2502	99	124	21:16:42.600		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC 1447.88 +/- 5	2R3	4	0	4,981,055:47:8	
2503	99	124	21:16:42.600		DMS:	: *RECORD	R115, TRACK 4, REV, TIC *1447.88 +/- 5	2R3	4	0	4,981,055:47:8	
2504	99	124	21:16:43.400	118IQ110A11A4A	7STRP	0.00731,-0.0007,	Slew = 3.71	2R3	4	0	4,981,055:49:0	
2505	99	124	21:16:58.733	118IQ110A11A4B	7STRP	-0.00731,0.0007,	Slew = 3.71	2R3	4	0	4,981,055:72:0	
2506	99	124	21:17:14.066	118IQ110A11A4C	7STRP	0.00731,-0.0007,	Slew = 3.71	2R3	4	0	4,981,056:04:0	
2507	99	124	21:17:29.400	118IQ110A11A4D	7STRP	-0.00731,0.0007,	Slew = 3.71	2R3	4	0	4,981,056:27:0	
2508	99	124	21:17:44.733	118IQ110A11A4E	7STRP	0.00731,-0.0007,	Slew = 3.71	2R3	4	0	4,981,056:50:0	
2509	99	124	21:18:00.066	118IQ11A	SMOS	GE		2R3	4	0	4,981,056:73:0	
2510	99	124	21:18:12.066	175IQ422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,981,057:00:0	
2511	99	124	21:18:12.066		DMS:	: *RUNDOWN	R115, TRACK 4, REV, TIC *1133.35 +/- 5	2R3	4	0	4,981,057:00:0	
2512	99	124	21:18:13.266		DMS:	: *READY	RDY, TRACK 4, REV, TIC *1132.35 +/- 5	2R3	4	0	4,981,057:01:8	
2513	99	124	21:20:33.400	165IM4A	7SCAN	NORM,86.518,24.6	Check S/P Position	2R3	4	0	4,981,059:30:0	
2514	99	124	21:21:03.400	175IM422A6A	6DMSC	R115:0	DMS Control Tape runup 115.2kb	2R3	4	0	4,981,059:75:0	
2515	99	124	21:21:03.400		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 1132.35 +/- 5	2R3	4	0	4,981,059:75:0	
2516	99	124	21:21:04.800		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *1132.47 +/- 5	2R3	4	0	4,981,059:77:1	
2517	99	124	21:21:06.066	118IM	SMOS	GS		2R3	4	0	4,981,059:79:0	
2518	99	124	21:21:10.066		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *1133.70 +/- 5	2R3	4	0	4,981,059:85:0	
2519	99	124	21:21:11.266		DMS:	: *RUNUP	R115, TRACK *4, *REV, TIC *1133.76 +/- 5	2R3	4	0	4,981,059:86:8	
2520	99	124	21:21:14.733	175IM176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,981,060:01:0	
2521	99	124	21:21:15.266		DMS:	: *RECORD	R115, TRACK 4, REV, TIC *1127.46 +/- 5	2R3	4	0	4,981,060:01:8	
2522	99	124	21:21:15.266		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC 1127.46 +/- 5	2R3	4	0	4,981,060:01:8	
2523	99	124	21:21:16.066	118IM110A11A4A	7STRP	0.00731,-0.0007,	Slew = 3.71	2R3	4	0	4,981,060:03:0	
2524	99	124	21:21:31.400	118IM110A11A4B	7STRP	-0.00731,0.0007,	Slew = 3.71	2R3	4	0	4,981,060:26:0	
2525	99	124	21:21:46.733	118IM110A11A4C	7STRP	0.00731,-0.0007,	Slew = 3.71	2R3	4	0	4,981,060:49:0	
2526	99	124	21:22:02.066	118IM11A	SMOS	GE		2R3	4	0	4,981,060:72:0	
2527	99	124	21:22:14.733	175IM422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,981,061:00:0	
2528	99	124	21:22:14.733		DMS:	: *RUNDOWN	R115, TRACK 4, REV, TIC *918.40 +/- 5	2R3	4	0	4,981,061:00:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2529	99	124	21:22:15.933		DMS:	: *READY	RDY, TRACK 4, REV, TIC * 917.40 +/- 5	2R3	4	0	4,981,061:01:8	
2530	99	124	21:30:09.400	165KO4A	7SCAN	NORM,86.341999,2	Check S/P Position	2R3	4	0	4,981,068:75:0	
2531	99	124	21:30:24.066	118KO	SMOS	GS		2R3	4	0	4,981,069:06:0	
2532	99	124	21:30:40.066	175KO422A6A	6DMSC	R115.0	DMS Control Tape runup 115.2kb	2R3	4	0	4,981,069:30:0	
2533	99	124	21:30:40.066		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 917.40 +/- 5	2R3	4	0	4,981,069:30:0	
2534	99	124	21:30:41.466		DMS:	: *US-AT_SP	P7, TRACK 1, FWD, TIC * 917.52 +/- 5	2R3	4	0	4,981,069:32:1	
2535	99	124	21:30:46.733		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 918.76 +/- 5	2R3	4	0	4,981,069:40:0	
2536	99	124	21:30:47.933		DMS:	: *RUNUP	R115, TRACK *4, *REV, TIC * 918.82 +/- 5	2R3	4	0	4,981,069:41:8	
2537	99	124	21:30:51.400	175KO176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,981,069:47:0	
2538	99	124	21:30:51.933		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC 912.52 +/- 5	2R3	4	0	4,981,069:47:8	
2539	99	124	21:30:51.933		DMS:	: *RECORD	R115, TRACK 4, REV, TIC * 912.52 +/- 5	2R3	4	0	4,981,069:47:8	
2540	99	124	21:30:52.733	118KO110A11A4A	7STRP	0.00731,-0.0007,	Slew = 3.71	2R3	4	0	4,981,069:49:0	
2541	99	124	21:31:08.066	118KO11A	SMOS	GE		2R3	4	0	4,981,069:72:0	
2542	99	124	21:31:20.733		DMS:	: *RUNDOWN	R115, TRACK 4, REV, TIC * 811.27 +/- 5	2R3	4	0	4,981,070:00:0	
2543	99	124	21:31:20.733	175KO422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,981,070:00:0	
2544	99	124	21:31:21.933		DMS:	: *READY	RDY, TRACK 4, REV, TIC * 810.27 +/- 5	2R3	4	0	4,981,070:01:8	
2545	99	124	21:31:44.733	165IV4A	7SCAN	NORM,84.329,24.5	Check S/P Position	2R3	4	0	4,981,076:30:0	
2546	99	124	21:38:14.733	175IV422A6A	6DMSC	R115.0	DMS Control Tape runup 115.2kb	2R3	4	0	4,981,076:75:0	
2547	99	124	21:38:14.733		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 810.27 +/- 5	2R3	4	0	4,981,076:75:0	
2548	99	124	21:38:16.133		DMS:	: *US-AT_SP	P7, TRACK 1, FWD, TIC * 810.39 +/- 5	2R3	4	0	4,981,076:77:1	
2549	99	124	21:38:17.400	118IV	SMOS	GS		2R3	4	0	4,981,076:79:0	
2550	99	124	21:38:21.400		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 811.62 +/- 5	2R3	4	0	4,981,076:85:0	
2551	99	124	21:38:22.600		DMS:	: *RUNUP	R115, TRACK *4, *REV, TIC * 811.68 +/- 6	2R3	4	0	4,981,076:86:8	
2552	99	124	21:38:26.066	175IV176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,981,077:01:0	
2553	99	124	21:38:26.600		DMS:	: *RECORD	R115, TRACK 4, REV, TIC * 805.38 +/- 6	2R3	4	0	4,981,077:01:8	
2554	99	124	21:38:26.600		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC 805.38 +/- 6	2R3	4	0	4,981,077:01:8	
2555	99	124	21:38:27.400	118IV110A11A4A	7STRP	0.00731,-0.0007,	Slew = 3.71	2R3	4	0	4,981,077:03:0	
2556	99	124	21:38:42.733	118IV110A11A4B	7STRP	-0.00731,0.0007,	Slew = 3.71	2R3	4	0	4,981,077:26:0	
2557	99	124	21:38:58.066	118IV110A11A4C	7STRP	0.00731,-0.0007,	Slew = 3.71	2R3	4	0	4,981,077:49:0	
2558	99	124	21:39:13.400	118IV11A	SMOS	GE		2R3	4	0	4,981,077:72:0	
2559	99	124	21:39:26.066	175IV422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,981,078:00:0	
2560	99	124	21:39:26.066		DMS:	: *RUNDOWN	R115, TRACK 4, REV, TIC * 596.32 +/- 6	2R3	4	0	4,981,078:00:0	
2561	99	124	21:39:27.266		DMS:	: *READY	RDY, TRACK 4, REV, TIC * 595.32 +/- 6	2R3	4	0	4,981,078:01:8	
2562	99	124	21:41:16.733	165IR4A	7SCAN	NORM,85.929999,2	Check S/P Position	2R3	4	0	4,981,079:75:0	
2563	99	124	21:41:31.400	118IR	SMOS	GS		2R3	4	0	4,981,080:06:0	
2564	99	124	21:41:47.400	175IR422A6A	6DMSC	R115.0	DMS Control Tape runup 115.2kb	2R3	4	0	4,981,080:30:0	
2565	99	124	21:41:47.400		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 595.32 +/- 6	2R3	4	0	4,981,080:30:0	
2566	99	124	21:41:48.800		DMS:	: *US-AT_SP	P7, TRACK 1, FWD, TIC * 595.44 +/- 6	2R3	4	0	4,981,080:32:1	
2567	99	124	21:41:54.066		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 596.67 +/- 6	2R3	4	0	4,981,080:40:0	
2568	99	124	21:41:55.266		DMS:	: *RUNUP	R115, TRACK *4, *REV, TIC * 596.73 +/- 6	2R3	4	0	4,981,080:41:8	
2569	99	124	21:41:58.733	175IR176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,981,080:47:0	
2570	99	124	21:41:59.266		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC 590.43 +/- 6	2R3	4	0	4,981,080:47:8	
2571	99	124	21:41:59.266		DMS:	: *RECORD	R115, TRACK 4, REV, TIC * 590.43 +/- 6	2R3	4	0	4,981,080:47:8	
2572	99	124	21:42:00.066	118IR110A11A4A	7STRP	0.00731,-0.0007,	Slew = 3.71	2R3	4	0	4,981,080:49:0	
2573	99	124	21:42:15.400	118IR110A11A4B	7STRP	-0.00731,0.0007,	Slew = 3.71	2R3	4	0	4,981,080:72:0	
2574	99	124	21:42:30.733	118IR110A11A4C	7STRP	0.00731,-0.0007,	Slew = 3.71	2R3	4	0	4,981,081:04:0	
2575	99	124	21:42:46.066	118IR110A11A4D	7STRP	-0.00731,0.0007,	Slew = 3.71	2R3	4	0	4,981,081:27:0	
2576	99	124	21:43:01.400	118IR110A11A4E	7STRP	0.00731,-0.0007,	Slew = 3.71	2R3	4	0	4,981,081:50:0	
2577	99	124	21:43:16.733	118IR11A	SMOS	GE		2R3	4	0	4,981,081:73:0	
2578	99	124	21:43:20.733	165BR4A	7SCAN	NORM,83.823999,2	Check S/P Position	2R3	4	0	4,981,081:79:0	
2579	99	124	21:43:28.733	175IR422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,981,082:00:0	
2580	99	124	21:43:28.733		DMS:	: *RUNDOWN	R115, TRACK 4, REV, TIC * 275.90 +/- 6	2R3	4	0	4,981,082:00:0	
2581	99	124	21:43:29.933		DMS:	: *READY	RDY, TRACK 4, REV, TIC * 274.90 +/- 6	2R3	4	0	4,981,082:01:8	
2582	99	124	21:44:34.066	465KD6A	6DTRN	CMD,6DTRN,465KD6	DMS TRACK TURNAROUND	2R3	4	0	4,981,083:07:0	
2583	99	124	21:44:34.066		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 274.90 +/- 6	2R3	4	0	4,981,083:07:0	

Line	YR	DOY	SCET - GMT	PSID	Command Parameters	Description	GCM	GO	GS	RIM	MF I
2584	99	124	21:44:34.066		DMS: : *DMS-TURN	P7, TRACK 4, REV, TIC 274.90 +/- 6	2R3	4	0	4,981,083:07:0	
2585	99	124	21:44:35.466		DMS: : *US AT SP	P7, TRACK 1, FWD, TIC * 275.02 +/- 6	2R3	4	0	4,981,083:09:1	
2586	99	124	21:44:40.733		DMS: : *US RD	P7, TRACK 1, FWD, TIC * 276.26 +/- 6	2R3	4	0	4,981,083:17:0	
2587	99	124	21:44:41.933		DMS: : *RUNUP	P7, TRACK 4, *REV, TIC * 276.32 +/- 6	2R3	4	0	4,981,083:18:8	
2588	99	124	21:44:43.333		DMS: : *AT SPD	P7, TRACK 4, REV, TIC * 276.20 +/- 6	2R3	4	0	4,981,083:20:9	
2589	99	124	21:47:10.733	165BQ4A	7SCAN NORM,84.507,24.3	Check S/P Position	2R3	4	0	4,981,085:60:0	
2590	99	124	21:49:23.400	117BQ	CSMOS GS	***** GROUP START CSMOS	2R3	4	0	4,981,087:77:0	
2591	99	124	21:49:32.733	117BQ105A106A4A	7STRP -0.0017,0.0,0.0	Slew = -0.02	2R3	4	0	4,981,088:00:0	
2592	99	124	21:50:08.933		DMS: : *REVERSE	P7, TRACK 4, REV, TIC * 199.87 +/- 6	2R3	4	0	4,981,088:54:3	
2593	99	124	21:50:10.133		DMS: : *RUNUP	P7, TRACK 1, FWD, TIC 199.81 +/- 6	2R3	4	0	4,981,088:56:1	
2594	99	124	21:50:10.133		DMS: : *TURNARND	P7, TRACK *1, *FWD, TIC * 199.81 +/- 6	2R3	4	0	4,981,088:56:1	
2595	99	124	21:50:11.533		DMS: : *AT SPD	P7, TRACK 1, FWD, TIC * 199.93 +/- 6	2R3	4	0	4,981,088:58:2	
2596	99	124	21:50:23.533		DMS: : *AUTOSTOP	P7, TRACK 1, FWD, TIC * 202.06 +/- 6	2R3	4	0	4,981,088:76:2	
2597	99	124	21:50:24.733		DMS: : *READY	RDY, TRACK 1, FWD, TIC * 202.12 +/- 6	2R3	4	0	4,981,088:78:0	
2598	99	124	21:53:04.733	117BQ11A	CSMOS GE	***** GROUP END CSMOS	2R3	4	0	4,981,091:45:0	
2599	99	124	21:55:54.733	465KE6A	6DMSC P7,1	DMS Control Tape P/B 7.68Kbps	2R3	4	0	4,981,094:27:0	
2600	99	124	21:55:54.733		DMS: : *E4-DELAY	RDY, TRACK 1, FWD, TIC 202.12 +/- 6	2R3	4	0	4,981,094:27:0	
2601	99	124	21:56:01.400		DMS: : *RUNUP	P7, TRACK 1, FWD, TIC 202.12 +/- 6	2R3	4	0	4,981,094:37:0	
2602	99	124	21:56:02.800		DMS: : *AT SPD	P7, TRACK 1, FWD, TIC 202.24 +/- 6	2R3	4	0	4,981,094:39:1	
2603	99	124	21:56:02.800		DMS: : *P SLEW	P7, TRACK 1, FWD, TIC * 202.24 +/- 6	2R3	4	0	4,981,094:39:1	
2604	99	124	21:56:26.733	165LM4A	7SCAN NORM,85.113999,2	Check S/P Position	2R3	4	0	4,981,094:75:0	
2605	99	124	21:56:41.400	118LM	SMOS GS		2R3	4	0	4,981,095:06:0	
2606	99	124	21:56:49.400		DMS: : *RUNDOWN	P7, TRACK 1, FWD, TIC * 213.16 +/- 6	2R3	4	0	4,981,095:18:0	
2607	99	124	21:56:49.400	465KE6B	6DMSC RDY,1	DMS Control Tape stop	2R3	4	0	4,981,095:18:0	
2608	99	124	21:56:50.600		DMS: : *READY	RDY, TRACK 1, FWD, TIC * 213.22 +/- 6	2R3	4	0	4,981,095:19:8	
2609	99	124	21:56:58.733		DMS: : *E4-DELAY	RDY, TRACK 1, FWD, TIC 213.22 +/- 6	2R3	4	0	4,981,095:32:0	
2610	99	124	21:56:58.733	175LM422A6A	6DMSC R115,1	DMS Control	2R3	4	0	4,981,095:32:0	
2611	99	124	21:57:05.400		DMS: : *RUNUP	R115, TRACK 1, FWD, TIC 213.22 +/- 6	2R3	4	0	4,981,095:42:0	
2612	99	124	21:57:08.733	175LM176A6A	6TMREC HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,981,095:47:0	
2613	99	124	21:57:09.400		DMS: : *AT SPD	R115, TRACK 1, FWD, TIC 219.52 +/- 6	2R3	4	0	4,981,095:48:0	
2614	99	124	21:57:09.400		DMS: : *RECORD	R115, TRACK 1, FWD, TIC * 219.52 +/- 6	2R3	4	0	4,981,095:48:0	
2615	99	124	21:57:10.066	118LM110A111A4A	7STRP 0.00731,-0.0007,	Slew = -3.71	2R3	4	0	4,981,095:49:0	
2616	99	124	21:57:25.400	118LM11A	SMOS GE		2R3	4	0	4,981,095:72:0	
2617	99	124	21:57:27.400	165KP4A	7SCAN NORM,86.974,23.8	Check S/P Position	2R3	4	0	4,981,095:75:0	
2618	99	124	21:57:38.066	175LM422A6B	6DMSC RDY,0	DMS Control Tape stop	2R3	4	0	4,981,096:00:0	
2619	99	124	21:57:38.066		DMS: : *RUNDOWN	R115, TRACK 1, FWD, TIC * 320.31 +/- 6	2R3	4	0	4,981,096:00:0	
2620	99	124	21:57:39.266		DMS: : *READY	RDY, TRACK 1, FWD, TIC * 321.31 +/- 6	2R3	4	0	4,981,096:01:8	
2621	99	124	21:57:42.066	118KP	SMOS GS		2R3	4	0	4,981,096:06:0	
2622	99	124	21:57:59.400	175KP422A6A	6DMSC R115,1	DMS Control	2R3	4	0	4,981,096:32:0	
2623	99	124	21:57:59.400		DMS: : *E4-DELAY	RDY, TRACK 1, FWD, TIC 321.31 +/- 6	2R3	4	0	4,981,096:32:0	
2624	99	124	21:58:06.066		DMS: : *RUNUP	R115, TRACK 1, FWD, TIC 321.31 +/- 6	2R3	4	0	4,981,096:42:0	
2625	99	124	21:58:09.400	175KP176A6A	6TMREC HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,981,096:47:0	
2626	99	124	21:58:10.066		DMS: : *AT SPD	R115, TRACK 1, FWD, TIC 327.61 +/- 6	2R3	4	0	4,981,096:48:0	
2627	99	124	21:58:10.066		DMS: : *RECORD	R115, TRACK 1, FWD, TIC * 327.61 +/- 6	2R3	4	0	4,981,096:48:0	
2628	99	124	21:58:10.733	118KP110A111A4A	7STRP 0.00731,-0.0007,	Slew = -3.71	2R3	4	0	4,981,096:49:0	
2629	99	124	21:58:26.066	118KP11A	SMOS GE		2R3	4	0	4,981,096:72:0	
2630	99	124	21:58:32.066	165JA4A	7SCAN NORM,82.664,24.5	Check S/P Position	2R3	4	0	4,981,096:81:0	
2631	99	124	21:58:38.733		DMS: : *RUNDOWN	R115, TRACK 1, FWD, TIC * 428.39 +/- 6	2R3	4	0	4,981,097:00:0	
2632	99	124	21:58:38.733	175KP422A6B	6DMSC RDY,0	DMS Control Tape stop	2R3	4	0	4,981,097:00:0	
2633	99	124	21:58:39.933		DMS: : *READY	RDY, TRACK 1, FWD, TIC * 429.39 +/- 6	2R3	4	0	4,981,097:01:8	
2634	99	124	21:59:38.066	165JA4B	7VECT	Inert vect update UTC	2R3	4	0	4,981,097:89:0	
2635	99	124	21:59:43.400	118JA	SMOS GS		2R3	4	0	4,981,098:06:0	
2636	99	124	21:59:45.400	175JA422A6A	6DMSC R115,1	DMS Control	2R3	4	0	4,981,098:09:0	
2637	99	124	21:59:45.400		DMS: : *E4-DELAY	RDY, TRACK 1, FWD, TIC 429.39 +/- 6	2R3	4	0	4,981,098:09:0	
2638	99	124	21:59:52.066		DMS: : *RUNUP	R115, TRACK 1, FWD, TIC 429.39 +/- 6	2R3	4	0	4,981,098:19:0	

Line	YR	DOY	SCET - GMT	PSID	Command Parameters	Description	GCM	GO	GS	RIM	MF I
2639	99	124	21:59:55.400	175JA176A6A	6TMREC HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,981,098:24:0	
2640	99	124	21:59:56.066		DMS: : *AT SPD	R115, TRACK 1, FWD, TIC 435.69 +/-	2R3	4	0	4,981,098:25:0	
2641	99	124	21:59:56.066		DMS: : *RECORD	R115, TRACK 1, FWD, TIC *435.69 +/-	2R3	4	0	4,981,098:25:0	
2642	99	124	21:59:56.733	118JA110A111A4A	7STRP 0.00731,-0.0007,	Slew = 3.71	2R3	4	0	4,981,098:26:0	
2643	99	124	22:00:10.066	175JA422A6B	6DMSC RDY,0	DMS Control Tape stop	2R3	4	0	4,981,098:46:0	
2644	99	124	22:00:10.066		DMS: : *RUNDOWN	R115, TRACK 1, FWD, TIC *484.91 +/-	2R3	4	0	4,981,098:46:0	
2645	99	124	22:00:11.266		DMS: : *READY	RDY, TRACK 1, FWD, TIC *485.91 +/-	2R3	4	0	4,981,098:47:8	
2646	99	124	22:00:16.066	175KA422A6A	6DMSC R115,1	DMS Control	2R3	4	0	4,981,098:55:0	
2647	99	124	22:00:16.066		DMS: : *E4-DELAY	RDY, TRACK 1, FWD, TIC 485.91 +/-	2R3	4	0	4,981,098:55:0	
2648	99	124	22:00:22.733		DMS: : *RUNUP	R115, TRACK 1, FWD, TIC 485.91 +/-	2R3	4	0	4,981,098:65:0	
2649	99	124	22:00:26.066	175KA176A6A	6TMREC HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,981,098:70:0	
2650	99	124	22:00:26.733		DMS: : *AT SPD	R115, TRACK 1, FWD, TIC 492.21 +/-	2R3	4	0	4,981,098:71:0	
2651	99	124	22:00:26.733		DMS: : *RECORD	R115, TRACK 1, FWD, TIC *492.21 +/-	2R3	4	0	4,981,098:71:0	
2652	99	124	22:00:27.400	118JA11A	GE		2R3	4	0	4,981,098:72:0	
2653	99	124	22:00:40.066	175KA422A6B	6DMSC RDY,0	DMS Control Tape stop	2R3	4	0	4,981,099:00:0	
2654	99	124	22:00:40.066		DMS: : *RUNDOWN	R115, TRACK 1, FWD, TIC *539.08 +/-	2R3	4	0	4,981,099:00:0	
2655	99	124	22:00:41.266		DMS: : *READY	RDY, TRACK 1, FWD, TIC *540.08 +/-	2R3	4	0	4,981,099:01:8	
2656	99	124	22:03:01.400	165IW4A	7SCAN NORM,84.964999,2	Check S/P Position	2R3	4	0	4,981,101:30:0	
2657	99	124	22:03:32.733	175IW422A6A	6DMSC R115,1	DMS Control	2R3	4	0	4,981,101:77:0	
2658	99	124	22:03:32.733		DMS: : *E4-DELAY	RDY, TRACK 1, FWD, TIC 540.08 +/-	2R3	4	0	4,981,101:77:0	
2659	99	124	22:03:34.066	118IW	GS		2R3	4	0	4,981,101:79:0	
2660	99	124	22:03:39.400		DMS: : *RUNUP	R115, TRACK 1, FWD, TIC 540.08 +/-	2R3	4	0	4,981,101:87:0	
2661	99	124	22:03:42.733	175IW176A6A	6TMREC HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,981,102:01:0	
2662	99	124	22:03:43.400		DMS: : *AT SPD	R115, TRACK 1, FWD, TIC 546.38 +/-	2R3	4	0	4,981,102:02:0	
2663	99	124	22:03:43.400		DMS: : *RECORD	R115, TRACK 1, FWD, TIC *546.38 +/-	2R3	4	0	4,981,102:03:0	
2664	99	124	22:03:44.066	118IW110A111A4A	7STRP 0.00731,-0.0007,	Slew = 3.71	2R3	4	0	4,981,102:03:0	
2665	99	124	22:03:59.400	118IW110A111A4B	7STRP -0.00731,0.0007,	Slew = 3.71	2R3	4	0	4,981,102:26:0	
2666	99	124	22:04:14.733	118IW110A111A4C	7STRP 0.00731,-0.0007,	Slew = 3.71	2R3	4	0	4,981,102:49:0	
2667	99	124	22:04:30.066	118IW11A	GE		2R3	4	0	4,981,102:72:0	
2668	99	124	22:04:42.733		DMS: : *RUNDOWN	R115, TRACK 1, FWD, TIC *754.97 +/-	2R3	4	0	4,981,103:00:0	
2669	99	124	22:04:42.733	175IW422A6B	6DMSC RDY,0	DMS Control Tape stop	2R3	4	0	4,981,103:00:0	
2670	99	124	22:04:43.933		DMS: : *READY	RDY, TRACK 1, FWD, TIC *755.97 +/-	2R3	4	0	4,981,103:01:8	
2671	99	124	22:06:33.400	165IS4A	7SCAN NORM,86.544,24.6	Check S/P Position	2R3	4	0	4,981,104:75:0	
2672	99	124	22:06:48.066	118IS	GS		2R3	4	0	4,981,105:06:0	
2673	99	124	22:07:05.400		DMS: : *E4-DELAY	RDY, TRACK 1, FWD, TIC 755.97 +/-	2R3	4	0	4,981,105:32:0	
2674	99	124	22:07:05.400	175IS422A6A	6DMSC R115,1	DMS Control	2R3	4	0	4,981,105:42:0	
2675	99	124	22:07:12.066		DMS: : *RUNUP	R115, TRACK 1, FWD, TIC 755.97 +/-	2R3	4	0	4,981,105:42:0	
2676	99	124	22:07:15.400	175IS176A6A	6TMREC HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,981,105:47:0	
2677	99	124	22:07:16.066		DMS: : *AT SPD	R115, TRACK 1, FWD, TIC 762.27 +/-	2R3	4	0	4,981,105:48:0	
2678	99	124	22:07:16.066		DMS: : *RECORD	R115, TRACK 1, FWD, TIC *762.27 +/-	2R3	4	0	4,981,105:48:0	
2679	99	124	22:07:16.733	118IS110A111A4A	7STRP 0.00731,-0.0007,	Slew = 3.71	2R3	4	0	4,981,105:49:0	
2680	99	124	22:07:32.066	118IS110A111A4B	7STRP -0.00731,0.0007,	Slew = 3.71	2R3	4	0	4,981,105:72:0	
2681	99	124	22:07:47.400	118IS110A111A4C	7STRP 0.00731,-0.0007,	Slew = 3.71	2R3	4	0	4,981,106:04:0	
2682	99	124	22:08:02.733	118IS110A111A4D	7STRP -0.00731,0.0007,	Slew = 3.71	2R3	4	0	4,981,106:27:0	
2683	99	124	22:08:18.066	118IS110A111A4E	7STRP 0.00731,-0.0007,	Slew = 3.71	2R3	4	0	4,981,106:50:0	
2684	99	124	22:08:33.400	118IS11A	GE		2R3	4	0	4,981,106:73:0	
2685	99	124	22:08:45.400		DMS: : *RUNDOWN	R115, TRACK 1, FWD, TIC *1076.34 +/-	2R3	4	0	4,981,107:00:0	
2686	99	124	22:08:45.400	175IS422A6B	6DMSC RDY,0	DMS Control Tape stop	2R3	4	0	4,981,107:00:0	
2687	99	124	22:08:46.600		DMS: : *READY	RDY, TRACK 1, FWD, TIC *1077.34 +/-	2R3	4	0	4,981,107:01:8	
2688	99	124	22:11:52.066	165KV4A	7SCAN NORM,86.945,26.4	Check S/P Position	2R3	4	0	4,981,110:07:0	
2689	99	124	22:12:24.066	175KV422A6A	6DMSC R115,1	DMS Control	2R3	4	0	4,981,110:55:0	
2690	99	124	22:12:24.066		DMS: : *E4-DELAY	RDY, TRACK 1, FWD, TIC 1077.34 +/-	2R3	4	0	4,981,110:55:0	
2691	99	124	22:12:30.733		DMS: : *RUNUP	R115, TRACK 1, FWD, TIC 1077.34 +/-	2R3	4	0	4,981,110:65:0	
2692	99	124	22:12:34.066	175KV176A6A	6TMREC HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,981,110:70:0	
2693	99	124	22:12:34.733		DMS: : *RECORD	R115, TRACK 1, FWD, TIC *1083.64 +/-	2R3	4	0	4,981,110:71:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2694	99	124	22:12:34.733		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 1083.64 +/-	2R3	4	0	4,981,110.71:0	
2695	99	124	22:12:48.066		DMS:	: *RUNDOWN	R115, TRACK 1, FWD, TIC *1130.51 +/-	2R3	4	0	4,981,111.00:0	
2696	99	124	22:12:48.066	175KV422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,981,111.00:0	
2697	99	124	22:12:49.266		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *1131.51 +/-	2R3	4	0	4,981,111.01:8	
2698	99	124	22:16:40.066	165LN4A	7SCAN	NORM,85.750999,2	Check S/P Position	2R3	4	0	4,981,114.75:0	
2699	99	124	22:16:54.733	118LN	SMOS	GS		2R3	4	0	4,981,115.06:0	
2700	99	124	22:17:12.066	175LN422A6A	6DMSC	R115,1	DMS Control	2R3	4	0	4,981,115.32:0	
2701	99	124	22:17:12.066		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 1131.51 +/-	2R3	4	0	4,981,115.32:0	
2702	99	124	22:17:18.733		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 1131.51 +/-	2R3	4	0	4,981,115.42:0	
2703	99	124	22:17:22.066	175LN176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,981,115.47:0	
2704	99	124	22:17:22.733		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 1137.81 +/-	2R3	4	0	4,981,115.48:0	
2705	99	124	22:17:22.733		DMS:	: *RECORD	R115, TRACK 1, FWD, TIC *1137.81 +/-	2R3	4	0	4,981,115.48:0	
2706	99	124	22:17:23.400	118LN110A111A4A	7STRP	0.00731,-0.0007,	Slew = -3.71	2R3	4	0	4,981,115.49:0	
2707	99	124	22:17:38.733	118LN11A	SMOS	GE		2R3	4	0	4,981,115.72:0	
2708	99	124	22:17:51.400	175LN422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,981,116.00:0	
2709	99	124	22:17:51.400		DMS:	: *RUNDOWN	R115, TRACK 1, FWD, TIC *1238.59 +/-	2R3	4	0	4,981,116.00:0	
2710	99	124	22:17:52.600		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *1239.59 +/-	2R3	4	0	4,981,116.01:8	
2711	99	124	22:20:42.733	165KQ4A	7SCAN	NORM,87.551,23.8	Check S/P Position	2R3	4	0	4,981,118.75:0	
2712	99	124	22:20:57.400	118KQ	SMOS	GS		2R3	4	0	4,981,119.06:0	
2713	99	124	22:21:14.733	175KQ422A6A	6DMSC	R115,1	DMS Control	2R3	4	0	4,981,119.32:0	
2714	99	124	22:21:14.733		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 1239.59 +/-	2R3	4	0	4,981,119.32:0	
2715	99	124	22:21:21.400		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 1239.59 +/-	2R3	4	0	4,981,119.42:0	
2716	99	124	22:21:24.733	175KQ176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,981,119.47:0	
2717	99	124	22:21:25.400		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 1245.89 +/-	2R3	4	0	4,981,119.48:0	
2718	99	124	22:21:25.400		DMS:	: *RECORD	R115, TRACK 1, FWD, TIC *1245.89 +/-	2R3	4	0	4,981,119.48:0	
2719	99	124	22:21:26.066	118KQ110A111A4A	7STRP	0.00731,-0.0007,	Slew = -3.71	2R3	4	0	4,981,119.49:0	
2720	99	124	22:21:41.400	118KQ11A	SMOS	GE		2R3	4	0	4,981,119.72:0	
2721	99	124	22:21:44.066	165JB4A	7SCAN	NORM,83.304999,2	Check S/P Position	2R3	4	0	4,981,119.76:0	
2722	99	124	22:21:54.066		DMS:	: *RUNDOWN	R115, TRACK 1, FWD, TIC *1346.67 +/-	2R3	4	0	4,981,120.00:0	
2723	99	124	22:21:54.066	175KQ422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,981,120.00:0	
2724	99	124	22:21:55.266		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *1347.67 +/-	2R3	4	0	4,981,120.01:8	
2725	99	124	22:24:54.733	165JB4B	7VECT		Inert vect update UTC	2R3	4	0	4,981,122.89:0	
2726	99	124	22:25:00.066	118JB	SMOS	GS		2R3	4	0	4,981,123.06:0	
2727	99	124	22:25:02.066	175JB422A6A	6DMSC	R115,1	DMS Control	2R3	4	0	4,981,123.09:0	
2728	99	124	22:25:02.066		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 1347.67 +/-	2R3	4	0	4,981,123.09:0	
2729	99	124	22:25:08.733		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 1347.67 +/-	2R3	4	0	4,981,123.19:0	
2730	99	124	22:25:12.066	175JB176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,981,123.24:0	
2731	99	124	22:25:12.733		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 1353.97 +/-	2R3	4	0	4,981,123.25:0	
2732	99	124	22:25:12.733		DMS:	: *RECORD	R115, TRACK 1, FWD, TIC *1353.97 +/-	2R3	4	0	4,981,123.25:0	
2733	99	124	22:25:13.400	118JB110A111A4A	7STRP	0.00731,-0.0007,	Slew = -3.71	2R3	4	0	4,981,123.26:0	
2734	99	124	22:25:26.733	175JB422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,981,123.46:0	
2735	99	124	22:25:26.733		DMS:	: *RUNDOWN	R115, TRACK 1, FWD, TIC *1403.19 +/-	2R3	4	0	4,981,123.46:0	
2736	99	124	22:25:27.933		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *1404.19 +/-	2R3	4	0	4,981,123.47:8	
2737	99	124	22:25:32.733	175KB422A6A	6DMSC	R115,1	DMS Control	2R3	4	0	4,981,123.55:0	
2738	99	124	22:25:32.733		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 1404.19 +/-	2R3	4	0	4,981,123.55:0	
2739	99	124	22:25:39.400		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 1404.19 +/-	2R3	4	0	4,981,123.65:0	
2740	99	124	22:25:42.733	175KB176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,981,123.70:0	
2741	99	124	22:25:43.400		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 1410.49 +/-	2R3	4	0	4,981,123.71:0	
2742	99	124	22:25:43.400		DMS:	: *RECORD	R115, TRACK 1, FWD, TIC *1410.49 +/-	2R3	4	0	4,981,123.71:0	
2743	99	124	22:25:44.066	118JB11A	SMOS	GE		2R3	4	0	4,981,123.72:0	
2744	99	124	22:25:56.733	175KB422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,981,124.00:0	
2745	99	124	22:25:56.733		DMS:	: *RUNDOWN	R115, TRACK 1, FWD, TIC *1457.37 +/-	2R3	4	0	4,981,124.00:0	
2746	99	124	22:25:57.933		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *1458.37 +/-	2R3	4	0	4,981,124.01:8	
2747	99	124	22:28:18.066	165IX4A	7SCAN	NORM,85.577,24.6	Check S/P Position	2R3	4	0	4,981,126.30:0	
2748	99	124	22:28:49.400	175IX422A6A	6DMSC	R115,1	DMS Control	2R3	4	0	4,981,126.77:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2749	99	124	22:28:49.400		DMS:	:*E4-DELAY	RDY, TRACK 1, FWD, TIC 1458.37 +/-	2R3	4	0	4,981,126:77:0	
2750	99	124	22:28:50.733	118IX	SMOS	GS		2R3	4	0	4,981,126:79:0	
2751	99	124	22:28:56.066		DMS:	:*RUNUP	R115, TRACK 1, FWD, TIC 1458.37 +/-	2R3	4	0	4,981,126:87:0	
2752	99	124	22:28:59.400	175IX176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,981,127:01:0	
2753	99	124	22:29:00.066		DMS:	:*AT SPD	R115, TRACK 1, FWD, TIC 1464.67 +/-	2R3	4	0	4,981,127:02:0	
2754	99	124	22:29:00.066		DMS:	:*RECORD	R115, TRACK 1, FWD, TIC *1464.67 +/-	2R3	4	0	4,981,127:02:0	
2755	99	124	22:29:00.733	118IX110A111A4A	7STRP	0.00731,-0.0007,	Slew = 3.71	2R3	4	0	4,981,127:03:0	
2756	99	124	22:29:16.066	118IX110A111A4B	7STRP	-0.00731,0.0007,	Slew = -3.71	2R3	4	0	4,981,127:26:0	
2757	99	124	22:29:31.400	118IX110A111A4C	7STRP	0.00731,-0.0007,	Slew = 3.71	2R3	4	0	4,981,127:49:0	
2758	99	124	22:29:46.733	118IX111A	SMOS	GE		2R3	4	0	4,981,127:72:0	
2759	99	124	22:29:59.400	175IX422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,981,128:00:0	
2760	99	124	22:29:59.400		DMS:	:*RUNDOWN	R115, TRACK 1, FWD, TIC *1673.26 +/-	2R3	4	0	4,981,128:00:0	
2761	99	124	22:30:00.600		DMS:	:*READY	RDY, TRACK 1, FWD, TIC *1674.26 +/-	2R3	4	0	4,981,128:01:8	
2762	99	124	22:37:50.066	165BJ4A	7SCAN	NORM,85.917,23.8	Check S/P Position	2R3	4	0	4,981,135:69:0	
2763	99	124	22:41:56.733	165LO4A	7SCAN	NORM,86.355,23.8	Check S/P Position	2R3	4	0	4,981,139:75:0	
2764	99	124	22:42:11.400	488AI6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2R3	4	0	4,981,140:06:0	
2765	99	124	22:42:11.400	118LO	SMOS	GS		2R3	4	0	4,981,140:06:0	
2766	99	124	22:42:28.733	175LO422A6A	6DMSC	R115,1	DMS Control	2R3	4	0	4,981,140:32:0	
2767	99	124	22:42:28.733		DMS:	:*E4-DELAY	RDY, TRACK 1, FWD, TIC 1674.26 +/-	2R3	4	0	4,981,140:32:0	
2768	99	124	22:42:35.400		DMS:	:*RUNUP	R115, TRACK 1, FWD, TIC 1674.26 +/-	2R3	4	0	4,981,140:42:0	
2769	99	124	22:42:38.733	175LO176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,981,140:47:0	
2770	99	124	22:42:39.400		DMS:	:*AT SPD	R115, TRACK 1, FWD, TIC 1680.56 +/-	2R3	4	0	4,981,140:48:0	
2771	99	124	22:42:39.400		DMS:	:*RECORD	R115, TRACK 1, FWD, TIC *1680.56 +/-	2R3	4	0	4,981,140:48:0	
2772	99	124	22:42:40.066	118LO110A111A4A	7STRP	0.00731,-0.0007,	Slew = 3.71	2R3	4	0	4,981,140:49:0	
2773	99	124	22:42:55.400	118LO111A	SMOS	GE		2R3	4	0	4,981,140:72:0	
2774	99	124	22:43:08.066	175LO422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,981,141:00:0	
2775	99	124	22:43:08.066		DMS:	:*RUNDOWN	R115, TRACK 1, FWD, TIC *1781.34 +/-	2R3	4	0	4,981,141:00:0	
2776	99	124	22:43:09.266		DMS:	:*READY	RDY, TRACK 1, FWD, TIC *1782.34 +/-	2R3	4	0	4,981,141:01:8	
2777	99	124	22:45:59.400	165KR4A	7SCAN	NORM,88.136999,2	Check S/P Position	2R3	4	0	4,981,143:75:0	
2778	99	124	22:46:14.066	118KR	SMOS	GS		2R3	4	0	4,981,144:06:0	
2779	99	124	22:46:31.400	175KR422A6A	6DMSC	R115,1	DMS Control	2R3	4	0	4,981,144:32:0	
2780	99	124	22:46:31.400		DMS:	:*E4-DELAY	RDY, TRACK 1, FWD, TIC 1782.34 +/-	2R3	4	0	4,981,144:32:0	
2781	99	124	22:46:38.066		DMS:	:*RUNUP	R115, TRACK 1, FWD, TIC 1782.34 +/-	2R3	4	0	4,981,144:42:0	
2782	99	124	22:46:41.400	175KR176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,981,144:47:0	
2783	99	124	22:46:42.066		DMS:	:*AT SPD	R115, TRACK 1, FWD, TIC 1788.64 +/- 1	2R3	4	0	4,981,144:48:0	
2784	99	124	22:46:42.066		DMS:	:*RECORD	R115, TRACK 1, FWD, TIC *1788.64 +/-	2R3	4	0	4,981,144:48:0	
2785	99	124	22:46:42.733	118KR110A111A4A	7STRP	0.00731,-0.0007,	Slew = 3.71	2R3	4	0	4,981,144:49:0	
2786	99	124	22:46:58.066	118KR11A	SMOS	GE		2R3	4	0	4,981,144:72:0	
2787	99	124	22:47:04.066	165JC4A	7SCAN	NORM,83.929999,2	Check S/P Position	2R3	4	0	4,981,144:81:0	
2788	99	124	22:47:10.733	175KR422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,981,145:00:0	
2789	99	124	22:47:10.733		DMS:	:*RUNDOWN	R115, TRACK 1, FWD, TIC *1889.42 +/- 1	2R3	4	0	4,981,145:00:0	
2790	99	124	22:47:11.933		DMS:	:*READY	RDY, TRACK 1, FWD, TIC *1890.42 +/- 1	2R3	4	0	4,981,145:01:8	
2791	99	124	22:50:11.400	165JC4B	7VECT		Inert vect update UTC	2R3	4	0	4,981,147:89:0	
2792	99	124	22:50:16.733	118JC	SMOS	GS		2R3	4	0	4,981,148:06:0	
2793	99	124	22:50:18.733		DMS:	:*E4-DELAY	RDY, TRACK 1, FWD, TIC 1890.42 +/- 1	2R3	4	0	4,981,148:09:0	
2794	99	124	22:50:18.733	175JC422A6A	6DMSC	R115,1	DMS Control	2R3	4	0	4,981,148:09:0	
2795	99	124	22:50:25.400		DMS:	:*RUNUP	R115, TRACK 1, FWD, TIC 1890.42 +/- 1	2R3	4	0	4,981,148:19:0	
2796	99	124	22:50:28.733	175JC176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,981,148:24:0	
2797	99	124	22:50:29.400		DMS:	:*AT SPD	R115, TRACK 1, FWD, TIC 1896.72 +/- 1	2R3	4	0	4,981,148:25:0	
2798	99	124	22:50:29.400		DMS:	:*RECORD	R115, TRACK 1, FWD, TIC *1896.72 +/- 1	2R3	4	0	4,981,148:25:0	
2799	99	124	22:50:30.066	118JC110A111A4A	7STRP	0.00731,-0.0007,	Slew = 3.71	2R3	4	0	4,981,148:26:0	
2800	99	124	22:50:43.400	175JC422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,981,148:46:0	
2801	99	124	22:50:43.400		DMS:	:*RUNDOWN	R115, TRACK 1, FWD, TIC *1945.94 +/- 1	2R3	4	0	4,981,148:46:0	
2802	99	124	22:50:44.600		DMS:	:*READY	RDY, TRACK 1, FWD, TIC *1946.94 +/- 1	2R3	4	0	4,981,148:47:8	
2803	99	124	22:50:49.400	175KC422A6A	6DMSC	R115,1	DMS Control	2R3	4	0	4,981,148:55:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2804	99	124	22:50:49.400		DMS:	:*E4-DELAY	RDY, TRACK 1, FWD, TIC 1946.94 +/- 1	2R3	4	0	4,981,148:55:0	
2805	99	124	22:50:56.066		DMS:	:*RUNUP	R115, TRACK 1, FWD, TIC 1946.94 +/- 1	2R3	4	0	4,981,148:65:0	
2806	99	124	22:50:59.400	175KC176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,981,148:70:0	
2807	99	124	22:51:00.066		DMS:	:*RECORD	R115, TRACK 1, FWD, TIC *1953.24 +/- 1	2R3	4	0	4,981,148:71:0	
2808	99	124	22:51:00.066		DMS:	:*AT SPD	R115, TRACK 1, FWD, TIC 1953.24 +/- 1	2R3	4	0	4,981,148:71:0	
2809	99	124	22:51:00.733	118JC11A	SMOS	GE		2R3	4	0	4,981,148:72:0	
2810	99	124	22:51:13.400		DMS:	:*RUNDOWN	R115, TRACK 1, FWD, TIC *2000.12 +/- 1	2R3	4	0	4,981,149:00:0	
2811	99	124	22:51:13.400	175KC422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,981,149:00:0	
2812	99	124	22:51:14.600		DMS:	:*READY	RDY, TRACK 1, FWD, TIC *2001.12 +/- 1	2R3	4	0	4,981,149:01:8	
2813	99	124	22:53:34.733	165IY4A	7SCAN	NORM,86.183,24.6	Check S/P Position	2R3	4	0	4,981,151:30:0	
2814	99	124	22:54:06.066		DMS:	:*E4-DELAY	RDY, TRACK 1, FWD, TIC 2001.12 +/- 1	2R3	4	0	4,981,151:77:0	
2815	99	124	22:54:06.066	175IY422A6A	6DMSC	R115,1	DMS Control	2R3	4	0	4,981,151:77:0	
2816	99	124	22:54:07.400	118IY	SMOS	GS		2R3	4	0	4,981,151:79:0	
2817	99	124	22:54:12.733		DMS:	:*RUNUP	R115, TRACK 1, FWD, TIC 2001.12 +/- 1	2R3	4	0	4,981,151:87:0	
2818	99	124	22:54:16.066	175IY176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,981,152:01:0	
2819	99	124	22:54:16.733		DMS:	:*RECORD	R115, TRACK 1, FWD, TIC *2007.42 +/- 1	2R3	4	0	4,981,152:02:0	
2820	99	124	22:54:16.733		DMS:	:*AT SPD	R115, TRACK 1, FWD, TIC 2007.42 +/- 1	2R3	4	0	4,981,152:02:0	
2821	99	124	22:54:17.400	118IY110A11A4A	7STRP	0.00731,-0.0007,	Slew = -3.71	2R3	4	0	4,981,152:03:0	
2822	99	124	22:54:32.733	118IY110A11A4B	7STRP	-0.00731,0.0007,	Slew = -3.71	2R3	4	0	4,981,152:26:0	
2823	99	124	22:54:48.066	118IY110A11A4C	7STRP	0.00731,-0.0007,	Slew = -3.71	2R3	4	0	4,981,152:49:0	
2824	99	124	22:55:03.400	118IY11A	SMOS	GE		2R3	4	0	4,981,152:72:0	
2825	99	124	22:55:08.066	165BI4A	7SCAN	NORM,86.783999,2	Check S/P Position	2R3	4	0	4,981,152:79:0	
2826	99	124	22:55:16.066		DMS:	:*RUNDOWN	R115, TRACK 1, FWD, TIC *2216.01 +/- 1	2R3	4	0	4,981,153:00:0	
2827	99	124	22:55:16.066	175IY422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,981,153:00:0	
2828	99	124	22:55:17.266		DMS:	:*READY	RDY, TRACK 1, FWD, TIC *2217.01 +/- 1	2R3	4	0	4,981,153:01:8	
2829	99	124	22:57:08.066	117BI	CSMOS	GS	**** GROUP START CSMOS	2R3	4	0	4,981,154:77:0	
2830	99	124	22:57:17.400	117BI105A106A4A	7STRP	-0.0016,0.0,0.0,	Slew = 0.02	2R3	4	0	4,981,155:00:0	
2831	99	124	23:00:49.400	117BI105A106A4B	7STRP	0.00001,0.0,0.0,	Slew = 12.01	2R3	4	0	4,981,158:45:0	
2832	99	124	23:01:20.066	117BI105A106A4C	7STRP	-0.0016,0.0,0.0,	Slew = 0.02	2R3	4	0	4,981,159:00:0	
2833	99	124	23:04:52.066	117BI11A	CSMOS	GE	**** GROUP END CSMOS	2R3	4	0	4,981,162:45:0	
2834	99	124	23:07:13.400	165LP4A	7SCAN	NORM,86.960999,2	Check S/P Position	2R3	4	0	4,981,164:75:0	
2835	99	124	23:07:28.066	118LP	SMOS	GS		2R3	4	0	4,981,165:06:0	
2836	99	124	23:07:45.400	175LP422A6A	6DMSC	R115,1	DMS Control	2R3	4	0	4,981,165:32:0	
2837	99	124	23:07:45.400		DMS:	:*E4-DELAY	RDY, TRACK 1, FWD, TIC 2217.01 +/- 1	2R3	4	0	4,981,165:32:0	
2838	99	124	23:07:52.066		DMS:	:*RUNUP	R115, TRACK 1, FWD, TIC 2217.01 +/- 1	2R3	4	0	4,981,165:42:0	
2839	99	124	23:07:55.400	175LP176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,981,165:47:0	
2840	99	124	23:07:56.066		DMS:	:*AT SPD	R115, TRACK 1, FWD, TIC 2223.31 +/- 1	2R3	4	0	4,981,165:48:0	
2841	99	124	23:07:56.066		DMS:	:*RECORD	R115, TRACK 1, FWD, TIC *2223.31 +/- 1	2R3	4	0	4,981,165:48:0	
2842	99	124	23:07:56.733	118LP110A11A4A	7STRP	0.00731,-0.0007,	Slew = -3.71	2R3	4	0	4,981,165:49:0	
2843	99	124	23:08:12.066	118LP11A	SMOS	GE		2R3	4	0	4,981,165:72:0	
2844	99	124	23:08:18.733	165QT4A	7SCAN	NORM,35.2,15.64,	Check S/P Position	2R3	4	0	4,981,165:82:0	
2845	99	124	23:08:24.733	175LP422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,981,166:00:0	
2846	99	124	23:08:24.733		DMS:	:*RUNDOWN	R115, TRACK 1, FWD, TIC *2324.09 +/- 1	2R3	4	0	4,981,166:00:0	
2847	99	124	23:08:25.933		DMS:	:*READY	RDY, TRACK 1, FWD, TIC *2325.09 +/- 1	2R3	4	0	4,981,166:01:8	
2848	99	124	23:11:23.400		DMS:	:*E4-DELAY	RDY, TRACK 1, FWD, TIC 2325.09 +/- 1	2R3	4	0	4,981,168:86:0	
2849	99	124	23:11:23.400	175QT422A6A	6DMSC	R115,1	DMS Control	2R3	4	0	4,981,168:86:0	
2850	99	124	23:11:25.400	165QT4B	7VECT		Inert vect update UTC	2R3	4	0	4,981,168:89:0	
2851	99	124	23:11:30.066		DMS:	:*RUNUP	R115, TRACK 1, FWD, TIC 2325.09 +/- 1	2R3	4	0	4,981,169:05:0	
2852	99	124	23:11:33.400	175QT176A6A	6TMREC	HIM	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,981,169:10:0	
2853	99	124	23:11:34.066		DMS:	:*AT SPD	R115, TRACK 1, FWD, TIC 2331.39 +/- 1	2R3	4	0	4,981,169:11:0	
2854	99	124	23:11:34.066		DMS:	:*RECORD	R115, TRACK 1, FWD, TIC *2331.39 +/- 1	2R3	4	0	4,981,169:11:0	
2855	99	124	23:12:27.400	175QT422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,981,170:00:0	
2856	99	124	23:12:27.400		DMS:	:*RUNDOWN	R115, TRACK 1, FWD, TIC *2518.89 +/- 1	2R3	4	0	4,981,170:00:0	
2857	99	124	23:12:28.600		DMS:	:*READY	RDY, TRACK 1, FWD, TIC *2519.89 +/- 1	2R3	4	0	4,981,170:01:8	
2858	99	124	23:13:27.400	165JE4A	7SCAN	NORM,84.551,24.6	Check S/P Position	2R3	4	0	4,981,170:90:0	

Line	YR	DOY	SCET - GMT	PSID	Command Parameters	Description	GCM	GO	GS	RIM	MF I
2859	99	124	23:15:28.066	165JE4B	7VECT	Inert vect update UTC	2R3	4	0	4,981,172:89:0	
2860	99	124	23:15:33.400	118JE	SMOS GS		2R3	4	0	4,981,173:06:0	
2861	99	124	23:15:35.400		DMS: :E4-DELAY	RDY, TRACK 1, FWD, TIC 2519.89 +/- 1	2R3	4	0	4,981,173:09:0	
2862	99	124	23:15:35.400	175JE422A6A	6DMSC R115,1	DMS Control	2R3	4	0	4,981,173:09:0	
2863	99	124	23:15:42.066		DMS: :RUNUP	R115, TRACK 1, FWD, TIC 2519.89 +/- 1	2R3	4	0	4,981,173:19:0	
2864	99	124	23:15:45.400	175JE176A6A	6TMREC HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,981,173:24:0	
2865	99	124	23:15:46.066		DMS: :AT SPD	R115, TRACK 1, FWD, TIC 2526.19 +/- 1	2R3	4	0	4,981,173:25:0	
2866	99	124	23:15:46.066		DMS: :RECORD	R115, TRACK 1, FWD, TIC *2526.19 +/- 1	2R3	4	0	4,981,173:25:0	
2867	99	124	23:15:46.733	118JE110A111A4A	7STRP 0.00731,-0.0007,	Slew = 3.71	2R3	4	0	4,981,173:26:0	
2868	99	124	23:16:00.066	175JE422A6B	6DMSC RDY,0	DMS Control Tape stop	2R3	4	0	4,981,173:46:0	
2870	99	124	23:16:01.266		DMS: :READY	RDY, TRACK 1, FWD, TIC *2576.41 +/- 1	2R3	4	0	4,981,173:47:8	
2871	99	124	23:16:06.066	175KE422A6A	6DMSC R115,1	DMS Control	2R3	4	0	4,981,173:55:0	
2872	99	124	23:16:06.066		DMS: :E4-DELAY	RDY, TRACK 1, FWD, TIC 2576.41 +/- 1	2R3	4	0	4,981,173:55:0	
2873	99	124	23:16:12.733		DMS: :RUNUP	R115, TRACK 1, FWD, TIC 2576.41 +/- 1	2R3	4	0	4,981,173:65:0	
2874	99	124	23:16:16.066	175KE176A6A	6TMREC HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,981,173:70:0	
2875	99	124	23:16:16.733		DMS: :AT SPD	R115, TRACK 1, FWD, TIC 2582.71 +/- 1	2R3	4	0	4,981,173:71:0	
2876	99	124	23:16:16.733		DMS: :RECORD	R115, TRACK 1, FWD, TIC *2582.71 +/- 1	2R3	4	0	4,981,173:71:0	
2877	99	124	23:16:17.400	118JE111A	SMOS GE		2R3	4	0	4,981,173:72:0	
2878	99	124	23:16:22.066	165BH4A	7SCAN NORM,87.283,23.5	Check S/P Position	2R3	4	0	4,981,173:79:0	
2879	99	124	23:16:30.066		DMS: :RUNDOWN	R115, TRACK 1, FWD, TIC *2629.59 +/- 1	2R3	4	0	4,981,174:00:0	
2880	99	124	23:16:30.066	175KE422A6B	6DMSC RDY,0	DMS Control Tape stop	2R3	4	0	4,981,174:00:0	
2881	99	124	23:16:31.266		DMS: :READY	RDY, TRACK 1, FWD, TIC *2630.59 +/- 1	2R3	4	0	4,981,174:01:8	
2882	99	124	23:18:22.066	117BH	CSMOS GS	***** GROUP START CSMOS	2R3	4	0	4,981,175:77:0	
2883	99	124	23:18:31.400	117BH105A106A4A	7STRP -0.0016,0.0,0.0,	Slew = 12.02	2R3	4	0	4,981,176:00:0	
2884	99	124	23:22:03.400	117BH105A106A4B	7STRP 0.0001,0.0,0.0,	Slew = 12.01	2R3	4	0	4,981,179:45:0	
2885	99	124	23:22:34.066	117BH105A106A4C	7STRP -0.0016,0.0,0.0,	Slew = 0.02	2R3	4	0	4,981,180:00:0	
2886	99	124	23:26:06.066	117BH11A	CSMOS GE	***** GROUP END CSMOS	2R3	4	0	4,981,183:45:0	
2887	99	124	23:27:42.066	165LV4A	7SCAN NORM,86.544,26.4	Check S/P Position	2R3	4	0	4,981,185:07:0	
2888	99	124	23:28:14.066		DMS: :E4-DELAY	RDY, TRACK 1, FWD, TIC 2630.59 +/- 1	2R3	4	0	4,981,185:55:0	
2889	99	124	23:28:14.066	175LV422A6A	6DMSC R115,1	DMS Control	2R3	4	0	4,981,185:55:0	
2890	99	124	23:28:20.733		DMS: :RUNUP	R115, TRACK 1, FWD, TIC 2630.59 +/- 1	2R3	4	0	4,981,185:65:0	
2891	99	124	23:28:24.066	175LV176A6A	6TMREC HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,981,185:70:0	
2892	99	124	23:28:24.733		DMS: :AT SPD	R115, TRACK 1, FWD, TIC 2636.89 +/- 1	2R3	4	0	4,981,185:71:0	
2893	99	124	23:28:24.733		DMS: :RECORD	R115, TRACK 1, FWD, TIC *2636.89 +/- 1	2R3	4	0	4,981,185:71:0	
2894	99	124	23:28:30.066	165BG4A	7SCAN NORM,87.568,23.5	Check S/P Position	2R3	4	0	4,981,185:79:0	
2895	99	124	23:28:38.066	175LV422A6B	6DMSC RDY,0	DMS Control Tape stop	2R3	4	0	4,981,186:00:0	
2896	99	124	23:28:38.066		DMS: :RUNDOWN	R115, TRACK 1, FWD, TIC *2683.76 +/- 1	2R3	4	0	4,981,186:00:0	
2897	99	124	23:28:39.266		DMS: :READY	RDY, TRACK 1, FWD, TIC *2684.76 +/- 1	2R3	4	0	4,981,186:01:8	
2898	99	124	23:32:30.066	165LQ4A	7SCAN NORM,87.530999,2	Check S/P Position	2R3	4	0	4,981,189:75:0	
2899	99	124	23:32:44.733	118LQ	SMOS GS		2R3	4	0	4,981,190:06:0	
2900	99	124	23:33:02.066	175LQ422A6A	6DMSC R115,1	DMS Control	2R3	4	0	4,981,190:32:0	
2901	99	124	23:33:02.066		DMS: :E4-DELAY	RDY, TRACK 1, FWD, TIC 2684.76 +/- 1	2R3	4	0	4,981,190:32:0	
2902	99	124	23:33:08.733		DMS: :RUNUP	R115, TRACK 1, FWD, TIC 2684.76 +/- 1	2R3	4	0	4,981,190:42:0	
2903	99	124	23:33:12.066	175LQ176A6A	6TMREC HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,981,190:47:0	
2904	99	124	23:33:12.733		DMS: :RECORD	R115, TRACK 1, FWD, TIC *2691.06 +/- 1	2R3	4	0	4,981,190:48:0	
2905	99	124	23:33:12.733		DMS: :AT SPD	R115, TRACK 1, FWD, TIC 2691.06 +/- 1	2R3	4	0	4,981,190:48:0	
2906	99	124	23:33:13.400	118LQ110A111A4A	7STRP 0.00731,-0.0007,	Slew = 3.71	2R3	4	0	4,981,190:49:0	
2907	99	124	23:33:28.733	118LQ11A	SMOS GE		2R3	4	0	4,981,190:72:0	
2908	99	124	23:33:33.400	165BF4A	7SCAN NORM,87.693,23.5	Check S/P Position	2R3	4	0	4,981,190:79:0	
2909	99	124	23:33:41.400	175LQ422A6B	6DMSC RDY,0	DMS Control Tape stop	2R3	4	0	4,981,191:00:0	
2910	99	124	23:33:41.400		DMS: :RUNDOWN	R115, TRACK 1, FWD, TIC *2791.84 +/- 1	2R3	4	0	4,981,191:00:0	
2911	99	124	23:33:42.600		DMS: :READY	RDY, TRACK 1, FWD, TIC *2792.84 +/- 1	2R3	4	0	4,981,191:01:8	
2912	99	124	23:40:05.400	165JF4A	7SCAN NORM,85.153,24.6	Check S/P Position	2R3	4	0	4,981,197:30:0	
2913	99	124	23:40:44.733	165JF4B	7VECT	Inert vect update UTC	2R3	4	0	4,981,197:89:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2914	99	124	23:40:50.066	118JF	SMOS	GS		2R3	4	0	4,981,198:06:0	
2915	99	124	23:40:52.066	175JF422A6A	6DMSC	R115.1	DMS Control	2R3	4	0	4,981,198:09:0	
2916	99	124	23:40:52.066		DMS:	:*E4-DELAY	RDY, TRACK 1, FWD, TIC 2792.84 +/- 1	2R3	4	0	4,981,198:09:0	
2917	99	124	23:40:58.733		DMS:	:*RUNUP	R115, TRACK 1, FWD, TIC 2792.84 +/- 1	2R3	4	0	4,981,198:19:0	
2918	99	124	23:41:02.066	175JF176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,981,198:24:0	
2919	99	124	23:41:02.733		DMS:	:*RECORD	R115, TRACK 1, FWD, TIC *2799.14 +/- 1	2R3	4	0	4,981,198:25:0	
2920	99	124	23:41:02.733		DMS:	:*AT_SPD	R115, TRACK 1, FWD, TIC 2799.14 +/- 1	2R3	4	0	4,981,198:25:0	
2921	99	124	23:41:03.400	118JF110A111A4A	7STRP	0.00731,-0.0007,	Slew = -3.71	2R3	4	0	4,981,198:26:0	
2922	99	124	23:41:16.733	175JF422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,981,198:46:0	
2923	99	124	23:41:16.733		DMS:	:*RUNDOWN	R115, TRACK 1, FWD, TIC *2848.36 +/- 1	2R3	4	0	4,981,198:46:0	
2924	99	124	23:41:17.933		DMS:	:*READY	RDY, TRACK 1, FWD, TIC *2849.36 +/- 1	2R3	4	0	4,981,198:47:8	
2925	99	124	23:41:22.733	175KF422A6A	6DMSC	R115.1	DMS Control	2R3	4	0	4,981,198:55:0	
2926	99	124	23:41:22.733		DMS:	:*E4-DELAY	RDY, TRACK 1, FWD, TIC 2849.36 +/- 1	2R3	4	0	4,981,198:55:0	
2927	99	124	23:41:29.400		DMS:	:*RUNUP	R115, TRACK 1, FWD, TIC 2849.36 +/- 1	2R3	4	0	4,981,198:65:0	
2928	99	124	23:41:32.733	175KF176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,981,198:70:0	
2929	99	124	23:41:33.400		DMS:	:*RECORD	R115, TRACK 1, FWD, TIC *2855.66 +/- 1	2R3	4	0	4,981,198:71:0	
2930	99	124	23:41:33.400		DMS:	:*AT_SPD	R115, TRACK 1, FWD, TIC 2855.66 +/- 1	2R3	4	0	4,981,198:71:0	
2931	99	124	23:41:34.066	118JF11A	SMOS	GE		2R3	4	0	4,981,198:72:0	
2932	99	124	23:41:38.733	165BE4A	7SCAN	NORM,87.879,23.5	Check S/P Position	2R3	4	0	4,981,198:79:0	
2933	99	124	23:41:46.733		DMS:	:*RUNDOWN	R115, TRACK 1, FWD, TIC *2902.54 +/- 1	2R3	4	0	4,981,199:00:0	
2934	99	124	23:41:46.733	175KF422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,981,199:00:0	
2935	99	124	23:41:47.933		DMS:	:*READY	RDY, TRACK 1, FWD, TIC *2903.54 +/- 1	2R3	4	0	4,981,199:01:8	
2936	99	124	23:43:38.733	117BE	CSMOS	GS	**** GROUP START CSMOS	2R3	4	0	4,981,200:77:0	
2937	99	124	23:43:48.066	117BE105A106A4A	7STRP	-0.0016,0.0,0.0,	Slew = 0.02	2R3	4	0	4,981,201:00:0	
2938	99	124	23:47:20.066	117BE105A106A4B	7STRP	0.0001,0.0,0.0,	Slew = 12.01	2R3	4	0	4,981,204:45:0	
2939	99	124	23:47:50.733	117BE105A106A4C	7STRP	-0.0016,0.0,0.0,	Slew = 0.02	2R3	4	0	4,981,205:00:0	
2940	99	124	23:51:22.733	117BE105A106A4D	7STRP	0.0001,0.0,0.0,	Slew = 12.01	2R3	4	0	4,981,208:45:0	
2941	99	124	23:51:53.400	117BE105A106A4E	7STRP	-0.0016,0.0,0.0,	Slew = -0.02	2R3	4	0	4,981,209:00:0	
2942	99	124	23:55:25.400	117BE11A	CSMOS	GE	**** GROUP END CSMOS	2R3	4	0	4,981,212:45:0	
2943	99	124	23:57:46.733	165LR4A	7SCAN	NORM,88.101,23.9	Check S/P Position	2R3	4	0	4,981,214:75:0	
2944	99	124	23:58:01.400	118LR	SMOS	GS		2R3	4	0	4,981,215:06:0	
2945	99	124	23:58:18.733	175LR422A6A	6DMSC	R115.1	DMS Control	2R3	4	0	4,981,215:32:0	
2946	99	124	23:58:18.733		DMS:	:*E4-DELAY	RDY, TRACK 1, FWD, TIC 2903.54 +/- 1	2R3	4	0	4,981,215:32:0	
2947	99	124	23:58:25.400		DMS:	:*RUNUP	R115, TRACK 1, FWD, TIC 2903.54 +/- 1	2R3	4	0	4,981,215:42:0	
2948	99	124	23:58:28.733	175LR176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,981,215:47:0	
2949	99	124	23:58:29.400		DMS:	:*RECORD	R115, TRACK 1, FWD, TIC *2909.84 +/- 1	2R3	4	0	4,981,215:48:0	
2950	99	124	23:58:29.400		DMS:	:*AT_SPD	R115, TRACK 1, FWD, TIC 2909.84 +/- 1	2R3	4	0	4,981,215:48:0	
2951	99	124	23:58:30.066	118LR110A111A4A	7STRP	0.00731,-0.0007,	Slew = -3.71	2R3	4	0	4,981,215:49:0	
2952	99	124	23:58:45.400	118LR11A	SMOS	GE		2R3	4	0	4,981,215:72:0	
2953	99	124	23:58:50.066	165BD4A	7SCAN	NORM,88.280999,2	Check S/P Position	2R3	4	0	4,981,215:79:0	
2954	99	124	23:58:58.066		DMS:	:*RUNDOWN	R115, TRACK 1, FWD, TIC *3010.62 +/- 1	2R3	4	0	4,981,216:00:0	
2955	99	124	23:58:58.066	175LR422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,981,216:00:0	
2956	99	124	23:58:59.266		DMS:	:*READY	RDY, TRACK 1, FWD, TIC *3011.62 +/- 1	2R3	4	0	4,981,216:01:8	
2957	99	125	00:05:22.066	165JG4A	7SCAN	NORM,85.747,24.6	Check S/P Position	2R3	4	0	4,981,222:30:0	
2958	99	125	00:06:01.400	165JG4B	7VECT		Inert vect update UTC	2R3	4	0	4,981,222:89:0	
2959	99	125	00:06:06.733	118JG	SMOS	GS		2R3	4	0	4,981,223:06:0	
2960	99	125	00:06:08.733	175JG422A6A	6DMSC	R115.1	DMS Control	2R3	4	0	4,981,223:09:0	
2961	99	125	00:06:08.733		DMS:	:*E4-DELAY	RDY, TRACK 1, FWD, TIC 3011.62 +/- 1	2R3	4	0	4,981,223:09:0	
2962	99	125	00:06:15.400		DMS:	:*RUNUP	R115, TRACK 1, FWD, TIC 3011.62 +/- 1	2R3	4	0	4,981,223:19:0	
2963	99	125	00:06:18.733	175JG176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,981,223:24:0	
2964	99	125	00:06:19.400		DMS:	:*AT_SPD	R115, TRACK 1, FWD, TIC 3017.92 +/- 1	2R3	4	0	4,981,223:25:0	
2965	99	125	00:06:19.400		DMS:	:*RECORD	R115, TRACK 1, FWD, TIC *3017.92 +/- 1	2R3	4	0	4,981,223:25:0	
2966	99	125	00:06:20.066	118JG110A111A4A	7STRP	0.00731,-0.0007,	Slew = -3.71	2R3	4	0	4,981,223:26:0	
2967	99	125	00:06:33.400		DMS:	:*RUNDOWN	R115, TRACK 1, FWD, TIC *3067.14 +/- 1	2R3	4	0	4,981,223:46:0	
2968	99	125	00:06:33.400	175JG422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,981,223:46:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2969	99	125	00:06:34.600		DMS:	:*READY	RDY, TRACK 1, FWD, TIC *3068.14 +/- 1	2R3	4	0	4,981,223:47:8	
2970	99	125	00:06:39.400		DMS:	:*E4-DELAY	RDY, TRACK 1, FWD, TIC 3068.14 +/- 1	2R3	4	0	4,981,223:55:0	
2971	99	125	00:06:39.400	175KG422A6A	6DMSC	R115.1	DMS Control	2R3	4	0	4,981,223:55:0	
2972	99	125	00:06:46.066		DMS:	:*RUNUP	R115, TRACK 1, FWD, TIC 3068.14 +/- 1	2R3	4	0	4,981,223:65:0	
2973	99	125	00:06:49.400	175KG176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,981,223:70:0	
2974	99	125	00:06:50.066		DMS:	:*RECORD	R115, TRACK 1, FWD, TIC *3074.44 +/- 1	2R3	4	0	4,981,223:71:0	
2975	99	125	00:06:50.066		DMS:	:*AT_SPD	R115, TRACK 1, FWD, TIC 3074.44 +/- 1	2R3	4	0	4,981,223:71:0	
2976	99	125	00:06:50.733	118JG11A	SMOS	GE	Check S/P Position	2R3	4	0	4,981,223:72:0	
2977	99	125	00:06:55.400	165BC4A	7SCAN	NORM,88.474999,2	R115, TRACK 1, FWD, TIC *3121.31 +/- 1	2R3	4	0	4,981,223:79:0	
2978	99	125	00:07:03.400		DMS:	:*RUNDOWN	DMS Control Tape stop	2R3	4	0	4,981,224:00:0	
2979	99	125	00:07:03.400	175KG422A6B	6DMSC	RDY,0	R115, TRACK 1, FWD, TIC *3122.31 +/- 2	2R3	4	0	4,981,224:01:8	
2980	99	125	00:07:04.600		DMS:	:*READY	RDY, TRACK 1, FWD, TIC *3122.31 +/- 2	2R3	4	0	4,981,224:01:8	
2981	99	125	00:07:54.733	117BC	CSMOS	GS	**** GROUP START CSMOS	2R3	4	0	4,981,224:77:0	
2982	99	125	00:08:04.066	117BC105A106A4A	7STRP	-0.0016,0.0,0.0,	Slew = 0.02	2R3	4	0	4,981,225:00:0	
2983	99	125	00:11:36.066	117BC105A106A4B	7STRP	0.00001,0.0,0.0,	Slew = 12.01	2R3	4	0	4,981,228:45:0	
2984	99	125	00:12:06.733	117BC105A106A4C	7STRP	-0.0016,0.0,0.0,	Slew = 0.02	2R3	4	0	4,981,229:00:0	
2985	99	125	00:15:38.733	117BC105A106A4D	7STRP	0.00001,0.0,0.0,	Slew = 12.01	2R3	4	0	4,981,232:45:0	
2986	99	125	00:16:09.400	117BC105A106A4E	7STRP	-0.0016,0.0,0.0,	Slew = 0.02	2R3	4	0	4,981,233:00:0	
2987	99	125	00:19:41.400	117BC105A106A4F	7STRP	0.00001,0.0,0.0,	Slew = 12.01	2R3	4	0	4,981,236:45:0	
2988	99	125	00:20:12.066	117BC105A106A4G	7STRP	-0.0016,0.0,0.0,	Slew = 0.02	2R3	4	0	4,981,237:00:0	
2989	99	125	00:23:44.066	117BC105A106A4H	7STRP	0.00001,0.0,0.0,	Slew = 12.01	2R3	4	0	4,981,240:45:0	
2990	99	125	00:24:14.733	117BC105A106A4I	7STRP	-0.0016,0.0,0.0,	Slew = 0.02	2R3	4	0	4,981,241:00:0	
2991	99	125	00:27:46.733	117BC105A106A4J	7STRP	0.00001,0.0,0.0,	Slew = 12.01	2R3	4	0	4,981,244:45:0	
2992	99	125	00:28:17.400	117BC105A106A4K	7STRP	-0.0016,0.0,0.0,	Slew = 0.02	2R3	4	0	4,981,245:00:0	
2993	99	125	00:31:49.400	117BC11A	CSMOS	GE	**** GROUP END CSMOS	2R3	4	0	4,981,248:45:0	
2994	99	125	00:50:11.400	488AJ6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2R3	4	0	4,981,266:60:0	
2995	99	125	01:13:46.733	165GZ4A	7SCAN	NORM,88.280999,2	Check S/P Position	2R3	4	0	4,981,289:90:0	
2996	99	125	01:15:39.400	117GZ	CSMOS	GS	**** GROUP START CSMOS	2R3	4	0	4,981,291:77:0	
2997	99	125	01:15:48.733	117GZ105A106A4A	7STRP	-0.0045,0.0,0.0,	Slew = 0.01	2R3	4	0	4,981,292:00:0	
2998	99	125	01:27:26.066	117GZ105A106A4B	7STRP	-0.0035,0.0,0.0,	Slew = 12.01	2R3	4	0	4,981,303:45:0	
2999	99	125	01:39:04.066	117GZ105A106A4C	7STRP	-0.0045,0.0,0.0,	Slew = 0.01	2R3	4	0	4,981,315:00:0	
3000	99	125	01:50:41.400	117GZ105A106A4D	7STRP	-0.0035,0.0,0.0,	Slew = 12.01	2R3	4	0	4,981,326:45:0	
3001	99	125	02:02:19.400	117GZ105A106A4E	7STRP	-0.0045,0.0,0.0,	Slew = 0.01	2R3	4	0	4,981,338:00:0	
3002	99	125	02:13:56.733	117GZ105A106A4F	7STRP	-0.0035,0.0,0.0,	Slew = 12.01	2R3	4	0	4,981,349:45:0	
3003	99	125	02:25:34.733	117GZ105A106A4G	7STRP	-0.0045,0.0,0.0,	Slew = 0.01	2R3	4	0	4,981,361:00:0	
3004	99	125	02:37:12.066	117GZ11A	CSMOS	GE	**** GROUP END CSMOS	2R3	4	0	4,981,372:45:0	
3005	99	125	02:49:20.066	165BA4A	7SCAN	NORM,109.601999,	Check S/P Position	2R3	4	0	4,981,384:45:0	
3006	99	125	03:31:01.400	488AJ6B	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	2R3	4	0	4,981,425:66:0	
3007	99	125	03:54:33.400		DMS:	:*E4-DELAY	RDY, TRACK 1, FWD, TIC 3122.31 +/- 2	2R3	4	0	4,981,449:00:0	
3008	99	125	03:54:33.400	411JA6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	4,981,449:00:0	
3009	99	125	03:54:40.066		DMS:	:*RUNUP	R7, TRACK 1, FWD, TIC 3122.31 +/- 2	2R3	4	0	4,981,449:10:0	
3010	99	125	03:54:41.466		DMS:	:*RECORD	R7, TRACK 1, FWD, TIC *3122.43 +/- 2	2R3	4	0	4,981,449:12:1	
3011	99	125	03:54:41.466		DMS:	:*AT_SPD	R7, TRACK 1, FWD, TIC 3122.43 +/- 2	2R3	4	0	4,981,449:12:1	
3012	99	125	03:54:43.400	411JA6B	6TMREC	BDT	7.68 KBPS BUFFER DUMP TO TAPE Record Mode	2R3	4	0	4,981,449:15:0	
3013	99	125	03:56:44.733	411JA6C	6TMREC	NRC	NO RECORD Record Mode Change	2R3	4	0	4,981,451:15:0	
3014	99	125	03:56:45.400		DMS:	:*RUNDOWN	R7, TRACK 1, FWD, TIC *3151.48 +/- 2	2R3	4	0	4,981,451:16:0	
3015	99	125	03:56:45.400	411JA6D	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,981,451:16:0	
3016	99	125	03:56:46.600		DMS:	:*READY	RDY, TRACK 1, FWD, TIC *3151.54 +/- 2	2R3	4	0	4,981,451:17:8	
3017	99	125	05:33:05.400	488AJ6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2R3	4	0	4,981,546:41:0	
3018	99	125	05:43:11.400	488AJ6D	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	2R3	4	0	4,981,556:40:0	
3019	99	125	06:30:15.400	488AJ6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2R3	4	0	4,981,602:90:0	
3020	99	125	11:45:07.333	488AJ6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	2R3	4	0	4,981,914:36:0	
3021	99	125	11:57:50.666	431YL6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	2R3	4	0	4,981,926:89:0	
3022	99	125	12:01:00.666	20YC6A	6HICON			2R3	4	0	4,981,930:10:0	
3023	99	125	12:01:54.666	431YM6A	6RCSEL	DDSNCG,PLSNCG,EP	Record Select (DDS onl	2R3	4	0	4,981,931:00:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
3024	99	125	12:03:55.333	165GY4A	7SCAN	NORM,102.035999,	Check S/P Position	2R3	4	0	4,981,932	90:0
3025	99	125	12:07:49.333	117GY	CSMOS	GS	***** GROUP START CSMOS	2R3	4	0	4,981,936	77:0
3026	99	125	12:07:58.666	117GY105A106A4A	7STRP	0.03071,0.0,0.0,	Slew = 0.01	2R3	4	0	4,981,937	00:0
3027	99	125	12:27:47.333	488AK6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2R3	4	0	4,981,956	54:0
3028	99	125	12:51:32.666	488AK6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	2R3	4	0	4,981,980	08:0
3029	99	125	12:55:30.000	488AK6D	6TMSED	FILL,DL3	Sci, Eng, and D/L Chan	2R3	4	0	4,981,984	00:0
3030	99	125	13:00:00.000	481UB4A	7VECT	BB2	Inert vect update UTC	2R3	4	0	4,981,988	41:0
3031	99	125	13:00:20.000	117GY105A106A4B	7STRP	-0.041524,-0.009	Slew = 12.01	2R3	4	0	4,981,988	71:0
3032	99	125	13:00:33.333	117GY105A106A4C	7STRP	0.03071,0.0,0.0,	Slew = 0.01	2R3	4	0	4,981,989	00:0
3033	99	125	13:52:54.666	117GY11A	CSMOS	GE	***** GROUP END CSMOS	2R3	4	0	4,982,040	71:0
3034	99	125	13:57:23.333	488AK6E	6TMSED	FILL,DL4	Sci, Eng, and D/L Chan	2R3	4	0	4,982,045	19:0
3035	99	125	14:08:17.333	165IA4A	7SCAN	NORM,110.542,22.	Check S/P Position	2R3	4	0	4,982,055	90:0
3036	99	125	14:18:21.333	175IA422A6A	6DMSC	R115,1	DMS Control	2R3	4	0	4,982,065	86:0
3037	99	125	14:18:21.333	165IA4B	DMS:	:*E4-DELAY	RDY, TRACK 1, FWD, TIC 3151.54 +/- 2	2R3	4	0	4,982,065	86:0
3038	99	125	14:18:23.333	165IA4B	7VECT		Inert vect update UTC	2R3	4	0	4,982,065	89:0
3039	99	125	14:18:28.000	175IA176A6A	DMS:	:*RUNUP	R115, TRACK 1, FWD, TIC 3151.54 +/- 2	2R3	4	0	4,982,066	05:0
3040	99	125	14:18:31.333	175IA176A6A	6TMREC	HIM	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,982,066	10:0
3041	99	125	14:18:32.000	175IA176A6A	DMS:	:*AT SPD	R115, TRACK 1, FWD, TIC 3157.84 +/- 2	2R3	4	0	4,982,066	11:0
3042	99	125	14:18:32.000	165IB4A	DMS:	:*RECORD	R115, TRACK 1, FWD, TIC 3157.84 +/- 2	2R3	4	0	4,982,066	11:0
3043	99	125	14:18:44.666	175IA422A6B	7SCAN	NORM,109.384999,	Check S/P Position	2R3	4	0	4,982,066	30:0
3044	99	125	14:19:25.333	175IA422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,982,067	00:0
3045	99	125	14:19:25.333	175IA422A6B	DMS:	:*RUNDOWN	R115, TRACK 1, FWD, TIC *3345.34 +/- 2	2R3	4	0	4,982,067	00:0
3046	99	125	14:19:26.533	175IA422A6B	DMS:	:*READY	RDY, TRACK 1, FWD, TIC *3346.34 +/- 2	2R3	4	0	4,982,067	01:8
3047	99	125	14:20:22.666	175IA422A6B	DMS:	:*E4-DELAY	RDY, TRACK 1, FWD, TIC 3346.34 +/- 2	2R3	4	0	4,982,067	86:0
3048	99	125	14:20:22.666	175IB422A6A	6DMSC	R115,1	DMS Control	2R3	4	0	4,982,067	86:0
3049	99	125	14:20:24.666	165IB4B	7VECT		Inert vect update UTC	2R3	4	0	4,982,067	89:0
3050	99	125	14:20:29.333	175IB176A6A	DMS:	:*RUNUP	R115, TRACK 1, FWD, TIC 3346.34 +/- 2	2R3	4	0	4,982,068	05:0
3051	99	125	14:20:32.666	175IB176A6A	6TMREC	HIM	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,982,068	10:0
3052	99	125	14:20:33.333	175IB176A6A	DMS:	:*RECORD	R115, TRACK 1, FWD, TIC *3352.64 +/- 2	2R3	4	0	4,982,068	11:0
3053	99	125	14:20:33.333	175IB176A6A	DMS:	:*AT SPD	R115, TRACK 1, FWD, TIC 3352.64 +/- 2	2R3	4	0	4,982,068	11:0
3054	99	125	14:21:26.666	175IB422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,982,069	00:0
3055	99	125	14:21:26.666	175IB422A6B	DMS:	:*RUNDOWN	R115, TRACK 1, FWD, TIC *3540.14 +/- 2	2R3	4	0	4,982,069	00:0
3056	99	125	14:21:27.866	175IB422A6B	DMS:	:*READY	RDY, TRACK 1, FWD, TIC *3541.14 +/- 2	2R3	4	0	4,982,069	01:8
3057	99	125	14:21:30.666	20NNCATMOS01-	-----START-----			2R3	4	0	:	:
3058	99	125	14:21:37.333	20DL5A	37PL		Program Load (halts microprocessor & unwri	2R3	4	0	4,982,069	16:0
3059	99	125	14:21:40.666	20DL5B	37MRL		Memory Realocate (software operates from R	2R3	4	0	4,982,069	21:0
3060	99	125	14:21:50.666	20DL6A	6MCOPI	NIMS	NIMS,1000,LLM1A,7300,77F7	2R3	4	0	4,982,069	36:0
3061	99	125	14:21:56.000	165IC4A	7SCAN	NORM,111.62,23.2	Check S/P Position	2R3	4	0	4,982,069	44:0
3062	99	125	14:22:00.666	20DL6B	6MCOPI	NIMS	NIMS,1598,LLM1A,77F8,781D	2R3	4	0	4,982,069	51:0
3063	99	125	14:22:10.666	20DL5C	37IRT		Instrument Reset (goes into POR state)	260	4	0	4,982,069	66:0
3064	99	125	14:22:14.000	20DL5D	37MNI		Memory Normal (software operates from ROM)	260	4	0	4,982,069	71:0
3065	99	125	14:22:20.000	20DL4A	37IST	1,2,0,OFF,0,0,0	Chopper ON, Sync, Chopper (Ref)	2R0	4	0	4,982,069	80:0
3066	99	125	14:22:48.666	175IC422A6A	6DMSC	R115,1	DMS Control	2R0	4	0	4,982,070	32:0
3067	99	125	14:22:48.666	175IC422A6A	DMS:	:*E4-DELAY	RDY, TRACK 1, FWD, TIC 3541.14 +/- 2	2R0	4	0	4,982,070	32:0
3068	99	125	14:22:55.333	175IC422A6A	DMS:	:*RUNUP	R115, TRACK 1, FWD, TIC 3541.14 +/- 2	2R0	4	0	4,982,070	42:0
3069	99	125	14:22:56.000	165IC4B	7VECT		Inert vect update UTC	2R0	4	0	4,982,070	43:0
3070	99	125	14:22:58.666	175IC176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R0	4	0	4,982,070	47:0
3071	99	125	14:22:59.333	175IC176A6A	DMS:	:*AT SPD	R115, TRACK 1, FWD, TIC 3547.44 +/- 2	2R0	4	0	4,982,070	48:0
3072	99	125	14:22:59.333	175IC176A6A	DMS:	:*RECORD	R115, TRACK 1, FWD, TIC *3547.44 +/- 2	2R0	4	0	4,982,070	48:0
3073	99	125	14:23:23.333	125DL	NIMSINIT	GS	##### GROUP START INIT	2R0	4	0	4,982,070	84:0
3074	99	125	14:23:23.333	125DL11A	NIMSINIT	GE	##### GROUP END INIT	2R0	4	0	4,982,070	84:0
3075	99	125	14:23:23.333	125DL4A	37IST	0,2,0,OFF,0,1,1	Gain State 4	4R0	4	0	4,982,070	84:0
3076	99	125	14:23:32.000	20NNCATMOS01-	-----STOP-----			4R0	4	0	:	:
3077	99	125	14:24:24.000	127DL	NIMSTAB	GS	%%%%GROUP START TAB	4R0	4	0	4,982,071	84:0
3078	99	125	14:24:24.000	127DL4A	37IOP	3,0	Long Map, Grating Start Position =00	4R3	4	0	4,982,071	84:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
3079	99	125	14:24:24.666	127DL4B	37ETB	07,C7,02,3D,FF,0	Loads wavelength edit table	4R3	4	0	4,982,071:85:0	
3080	99	125	14:24:32.666	20CNCATMOS01-		-----START-----	%%%GROUP END TAB	4R3	4	0	4,982,072:06:0	
3081	99	125	14:24:32.666	127DL11A	NIMSTAB	GE	Check S/P Position	4R3	4	0	4,982,072:10:0	
3082	99	125	14:24:35.333	165DO4A	7SCAN	NORM,111,396,23.	R115, TRACK 1, FWD, TIC *3903.69 +/- 2	4R3	4	0	4,982,072:18:0	
3083	99	125	14:24:40.666		DMS:	:*RUNDOWN	DMS Control Tape stop	4R3	4	0	4,982,072:18:0	
3084	99	125	14:24:40.666	175IC422A6B	6DMSC	RDY,0	RDY, TRACK 1, FWD, TIC *3904.69 +/- 2	4R3	4	0	4,982,072:19:8	
3085	99	125	14:24:41.866		DMS:	:*READY	RDY, TRACK 1, FWD, TIC *3904.69 +/- 2	4R3	4	0	4,982,074:74:0	
3086	99	125	14:27:19.333		DMS:	:*E4-DELAY	DMS Control Tape runup 7.68kbp	4R3	4	0	4,982,074:74:0	
3087	99	125	14:27:19.333	175DL422A6A	6DMSC	R7,1	R7, TRACK 1, FWD, TIC *3904.69 +/- 2	4R3	4	0	4,982,074:84:0	
3088	99	125	14:27:27.333		DMS:	:*RUNUP	7.68 KBPS NIMS-JVS-PPR RECORD Record Mode	4R3	4	0	4,982,074:86:1	
3089	99	125	14:27:27.333	175DL176A6A	6TMREC	LPU	R7, TRACK 1, FWD, TIC *3904.81 +/- 2	4R3	4	0	4,982,074:86:1	
3090	99	125	14:27:27.400		DMS:	:*AT SPD	R7, TRACK 1, FWD, TIC *3904.81 +/- 2	4R3	4	0	4,982,074:86:1	
3091	99	125	14:27:27.400		DMS:	:*RECORD	R7, TRACK 1, FWD, TIC *3904.81 +/- 2	4R3	4	0	4,982,074:86:1	
3092	99	125	14:27:29.333	165DO4B	7VECT		Inert vect update UTC	4R3	4	0	4,982,074:89:0	
3093	99	125	14:27:30.666	20CNCATMOS01-	NIMPBK	301DL	CALLISTO LIMB SCAN	4R3	4	0	4,982,085:77:0	
3094	99	125	14:32:32.000	20CNCATMOS01-	NIMPBK	301DL	CALLISTO LIMB SCAN	4R3	4	0	4,982,085:77:0	
3095	99	125	14:34:52.000	20CNCATMOS01-	DESEL	300EJ	CALLISTO LIMB SCAN	4R3	4	0	4,982,085:84:0	
3096	99	125	14:37:26.000	20CNCATMOS01-	DESEL	300DL	CALLISTO LIMB SCAN	4R3	4	0	4,982,085:85:0	
3097	99	125	14:37:28.000	175DL422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,982,085:86:0	
3098	99	125	14:37:28.000	175DL6A	6TMREC	NRC	NO RECORD Record Mode Change	4R3	4	0	4,982,084:77:0	
3099	99	125	14:37:28.000		DMS:	:*RUNDOWN	R7, TRACK 1, FWD, TIC *4045.57 +/- 2	4R3	4	0	4,982,084:77:0	
3100	99	125	14:37:29.200		DMS:	:*READY	RDY, TRACK 1, FWD, TIC *4045.63 +/- 2	4R3	4	0	4,982,084:78:8	
3101	99	125	14:37:36.666	165DK4A	7SCAN	NORM,102,441999,	Check S/P Position	4R3	4	0	4,982,084:90:0	
3102	99	125	14:37:41.333	20CNFEATRE01-		-----START-----		4R3	4	0	4,982,085:77:0	
3103	99	125	14:37:41.333	20CNCATMOS01-		-----STOP-----		4R3	4	0	4,982,085:77:0	
3104	99	125	14:38:24.666		DMS:	:*E4-DELAY	RDY, TRACK 1, FWD, TIC 4045.63 +/- 2	4R3	4	0	4,982,085:71:0	
3105	99	125	14:38:24.666	175DK422A6A	6DMSC	R28,1	DMS Control	4R3	4	0	4,982,085:71:0	
3106	99	125	14:38:28.666	117DK	CSMOS	GS	***** GROUP START CSMOS	4R3	4	0	4,982,085:77:0	
3107	99	125	14:38:31.333		DMS:	:*RUNUP	R28, TRACK 1, FWD, TIC 4045.63 +/- 2	4R3	4	0	4,982,085:81:0	
3108	99	125	14:38:33.333	127DK	NIMSTAB	GS	%%GROUP START TAB	4R3	4	0	4,982,085:84:0	
3109	99	125	14:38:33.333	127DK4A	37IOP	3.0	Long Map, Grating Start Position =00	4R3	4	0	4,982,085:84:0	
3110	99	125	14:38:34.000	127DK4B	37ETB	04,C4,35,FF,FF	Loads wavelength edit table	4R3	4	0	4,982,085:85:0	
3111	99	125	14:38:34.666	175DK176A6A	6TMREC	MPW	28.8 KBPS PWS + NIMS RECORD Record Mode C	4R3	4	0	4,982,085:86:0	
3112	99	125	14:38:35.333		DMS:	:*RECORD	R28, TRACK 1, FWD, TIC *4047.13 +/- 2	4R3	4	0	4,982,085:87:0	
3113	99	125	14:38:35.333		DMS:	:*AT SPD	R28, TRACK 1, FWD, TIC 4047.13 +/- 2	4R3	4	0	4,982,085:87:0	
3114	99	125	14:38:36.666	165DK4B	7VECT		Inert vect update UTC	4R3	4	0	4,982,085:89:0	
3115	99	125	14:38:38.000	20CNFEATRE01-	NIMPBK	301DK	CALLISTO HI-RES OBS	4R3	4	0	4,982,086:00:0	
3116	99	125	14:38:38.000	431MB6A	6RCSEL	DDSSSEL,PLSNCG,EP	Record Select (DDS on)	4R3	4	0	4,982,086:00:0	
3117	99	125	14:38:38.000	117DK105A106A4A	7STRP	0.008,0.0,0,0,0,	Slew = 0.03	4R3	4	0	4,982,086:00:0	
3118	99	125	14:38:38.000	20CNFEATRE01-	NIMPBK	301EQ	CALLISTO HI-RES OBS	4R3	4	0	4,982,086:00:0	
3119	99	125	14:38:42.000	127DK11A	NIMSTAB	GE	%%GROUP END TAB	4R3	4	0	4,982,086:06:0	
3120	99	125	14:43:06.666	117DK105A106A4B	7STRP	-0.0076,0.008,0,	Slew =12.01	4R3	4	0	4,982,090:39:0	
3121	99	125	14:43:06.666	20CNFEATRE01-	DESEL	300DK	CALLISTO HI-RES OBS	4R3	4	0	4,982,090:39:0	
3122	99	125	14:43:06.666	20CNFEATRE01-	DESEL	300EQ	CALLISTO HI-RES OBS	4R3	4	0	4,982,090:55:0	
3123	99	125	14:43:15.333	20CNFEATRE01-	NIMPBK	301EA	CALLISTO HI-RES OBS	4R3	4	0	4,982,094:88:0	
3124	99	125	14:43:17.333	117DK105A106A4C	7STRP	0.008,0.0,0,0,0,	Slew =0.03	4R3	4	0	4,982,094:88:0	
3125	99	125	14:47:42.000	432MB431A6A	6RCDSL	DDSDSL,PLSNCG,EP	Record Deselect (DDS o	4R3	4	0	4,982,094:89:0	
3126	99	125	14:47:42.666	432MB6A	6RTSL1		R/T Select of DDS and	4R3	4	0	4,982,094:89:0	
3127	99	125	14:47:46.000	117DK11A	CSMOS	GE	***** GROUP END CSMOS	4R3	4	0	4,982,095:03:0	
3128	99	125	14:47:46.000	20CNFEATRE01-	DESEL	300EA	CALLISTO HI-RES OBS	4R3	4	0	4,982,095:03:0	
3129	99	125	14:48:35.333		DMS:	:*RUNDOWN	R28, TRACK 1, FWD, TIC *4574.48 +/- 2	4R3	4	0	4,982,095:77:0	
3130	99	125	14:48:35.333	175DK422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,982,095:77:0	
3131	99	125	14:48:36.533		DMS:	:*READY	RDY, TRACK 1, FWD, TIC *4574.78 +/- 2	4R3	4	0	4,982,095:78:8	
3132	99	125	14:48:48.666	20CNFEATRE01-		-----STOP-----		4R3	4	0	4,982,096:16:0	
3133	99	125	14:48:55.333	20DM5A	37PL		Program Load (halts microprocessor & unwri	4R3	4	0	4,982,096:16:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
3134	99	125	14:48:58.000	165ID4A	7SCAN	NORM,95.889,25.7	Check S/P Position	4R3	4	0	4,982,096:20:0	
3135	99	125	14:48:58.666	20DM5B	37MRL		Memory Relocate (software operates from R	4R3	4	0	4,982,096:21:0	
3136	99	125	14:49:08.666	20DM6A	6MCPY	NIMS	NIMS,1000,LLM1A,7300,77F7	4R3	4	0	4,982,096:36:0	
3137	99	125	14:49:18.666	20DM6B	6MCPY	NIMS	NIMS,1598,LLM1A,77F8,781D	4R3	4	0	4,982,096:51:0	
3138	99	125	14:49:28.666	20DM5C	37IRT		Instrument Reset (goes into POR state)	260	4	0	4,982,096:66:0	
3139	99	125	14:49:32.000	20DM5D	37MN		Memory Normal (software operates from ROM)	260	4	0	4,982,096:71:0	
3140	99	125	14:49:38.000	20DM4A	37IST	1,2,0,OFF,0,0,0	Chopper ON, Sync, Chopper (Ref)	2R0	4	0	4,982,096:80:0	
3141	99	125	14:50:41.333	125DM	NIMSINIT	GS	##### GROUP START INIT	2R0	4	0	4,982,097:84:0	
3142	99	125	14:50:41.333	125DM11A	NIMSINIT	GE	##### GROUP END INIT	2R0	4	0	4,982,097:84:0	
3143	99	125	14:50:41.333	125DM4A	37IST	0,2,0,OFF,0,1,1	Gain State 4	4R0	4	0	4,982,097:84:0	
3144	99	125	14:50:42.666	175ID422A6A	6DMSC	R115,1	DMS Control	4R0	4	0	4,982,097:86:0	
3145	99	125	14:50:42.666		DMS:	:*E4-DELAY	RDY, TRACK 1, FWD, TIC 4574.78 +/- 2	4R0	4	0	4,982,097:86:0	
3146	99	125	14:50:44.000	118ID	SMOS	GS		4R0	4	0	4,982,097:88:0	
3147	99	125	14:50:44.666	165ID4B	7VECT		Inert vect update UTC	4R0	4	0	4,982,097:89:0	
3148	99	125	14:50:49.333		DMS:	:*RUNUP	R115, TRACK 1, FWD, TIC 4574.78 +/- 2	4R0	4	0	4,982,098:05:0	
3149	99	125	14:50:52.666	175ID176A6A	6TMREC	HIM	115.2 KBPS SSI + NIMS RECORD Record Mode	4R0	4	0	4,982,098:10:0	
3150	99	125	14:50:53.333		DMS:	:*AT SPD	R115, TRACK 1, FWD, TIC 4581.08 +/- 2	4R0	4	0	4,982,098:11:0	
3151	99	125	14:50:53.333		DMS:	:*RECORD	R115, TRACK 1, FWD, TIC *4581.08 +/- 2	4R0	4	0	4,982,098:11:0	
3152	99	125	14:50:54.000	118ID110A111A4A	7STRP	0.0008,0.00731,3	Slew = 3.81	4R0	4	0	4,982,098:12:0	
3153	99	125	14:51:46.666		DMS:	:*RUNDOWN	R115, TRACK 1, FWD, TIC *4768.58 +/- 2	4R0	4	0	4,982,099:00:0	
3154	99	125	14:51:46.666	175ID422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R0	4	0	4,982,099:00:0	
3155	99	125	14:51:47.866		DMS:	:*READY	RDY, TRACK 1, FWD, TIC *4769.58 +/- 2	4R0	4	0	4,982,099:01:8	
3156	99	125	14:51:50.666	20NFEATRE02-		-----START-----		4R0	4	0	:	
3157	99	125	14:52:42.666	127DM	NIMSTAB	GS	%%%%%%%% GROUP START TAB	4R0	4	0	4,982,099:84:0	
3158	99	125	14:52:42.666	127DM4A	37IOP	3,0	Long Map, Grating Start Position =00	4R3	4	0	4,982,099:84:0	
3159	99	125	14:52:43.333	127DM4B	37ETB	04,C4,35,FF,FF	Loads wavelength edit table	4R3	4	0	4,982,099:85:0	
3160	99	125	14:52:44.000		DMS:	:*E4-DELAY	RDY, TRACK 1, FWD, TIC 4769.58 +/- 2	4R3	4	0	4,982,099:86:0	
3161	99	125	14:52:44.000	175JD422A6A	6DMSC	R115,1	DMS Control	4R3	4	0	4,982,099:86:0	
3162	99	125	14:52:50.666		DMS:	:*RUNUP	R115, TRACK 1, FWD, TIC 4769.58 +/- 2	4R3	4	0	4,982,100:05:0	
3163	99	125	14:52:51.333	127DM11A	NIMSTAB	GE	%%%%%%%% GROUP END TAB	4R3	4	0	4,982,100:06:0	
3164	99	125	14:52:54.000	175JD176A6A	6TMREC	HIM	115.2 KBPS SSI + NIMS RECORD Record Mode	4R3	4	0	4,982,100:10:0	
3165	99	125	14:52:54.666		DMS:	:*AT SPD	R115, TRACK 1, FWD, TIC 4775.88 +/- 2	4R3	4	0	4,982,100:11:0	
3166	99	125	14:52:54.666		DMS:	:*RECORD	R115, TRACK 1, FWD, TIC *4775.88 +/- 2	4R3	4	0	4,982,100:11:0	
3167	99	125	14:52:55.333	118ID11A	SMOS	GE		4R3	4	0	4,982,100:12:0	
3168	99	125	14:53:48.000		DMS:	:*RUNDOWN	R115, TRACK 1, FWD, TIC *4963.38 +/- 2	4R3	4	0	4,982,101:00:0	
3169	99	125	14:53:48.000	175JD422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,982,101:00:0	
3170	99	125	14:53:49.200		DMS:	:*READY	RDY, TRACK 1, FWD, TIC *4964.38 +/- 2	4R3	4	0	4,982,101:01:8	
3171	99	125	14:53:52.000	20NFEATRE02-		-----STOP-----		4R3	4	0	:	
3172	99	125	14:54:48.000	165DL4A	7SCAN	NORM,97.844,27.0	Check S/P Position	4R3	4	0	4,982,101:90:0	
3173	99	125	14:54:52.666	20CNFEATRE02-		-----START-----		4R3	4	0	:	
3174	99	125	14:58:38.000	175DM422A6A	6DMSC	R28,1	DMS Control	4R3	4	0	4,982,105:71:0	
3175	99	125	14:58:38.000		DMS:	:*E4-DELAY	RDY, TRACK 1, FWD, TIC 4964.38 +/- 2	4R3	4	0	4,982,105:71:0	
3176	99	125	14:58:42.000	117DL	CSMOS	GS	***** GROUP START CSMOS	4R3	4	0	4,982,105:77:0	
3177	99	125	14:58:44.666		DMS:	:*RUNUP	R28, TRACK 1, FWD, TIC 4964.38 +/- 2	4R3	4	0	4,982,105:81:0	
3178	99	125	14:58:48.000	175DM176A6A	6TMREC	MPW	28.8 KBPS PWS + NIMS RECORD Record Mode C	4R3	4	0	4,982,105:86:0	
3179	99	125	14:58:48.666		DMS:	:*RECORD	R28, TRACK 1, FWD, TIC *4965.88 +/- 2	4R3	4	0	4,982,105:87:0	
3180	99	125	14:58:48.666		DMS:	:*AT SPD	R28, TRACK 1, FWD, TIC 4965.88 +/- 2	4R3	4	0	4,982,105:87:0	
3181	99	125	14:58:50.000	165DL4B	7VECT		Inert vect update UTC	4R3	4	0	4,982,105:89:0	
3182	99	125	14:58:51.333	20CNFEATRE02-	NIMPBK	301DM	CALLISTO HI-RES OBS	4R3	4	0	:	
3183	99	125	14:58:51.333	117DL105A106A4A	7STRP	0.032511,0,0,0,0	Slew = 0.03	4R3	4	0	4,982,106:00:0	
3184	99	125	14:58:51.333	431MC6A	6RCSEL	DDSSSEL,PLSNCG,EP	Record Select (DDS onl	4R3	4	0	4,982,106:00:0	
3185	99	125	15:04:10.666	488AL6A	6TMSED	NORM,DL4	Sci, Eng, and D/L Chan	4R3	4	0	4,982,111:24:0	
3186	99	125	15:07:13.333	20CNFEATRE02-	NIMPBK	301EB	CALLISTO HI-RES OBS	4R3	4	0	:	
3187	99	125	15:07:23.333	20CNFEATRE02-	DESEL	300DM	CALLISTO HI-RES OBS	4R3	4	0	:	
3188	99	125	15:09:02.000	20CNFEATRE02-		-----STOP-----		4R3	4	0	:	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
3189	99	125	15:17:00.000	20CNFEATRE02-	DESEL	300EB	CALLISTO HI-RES OBS	4R3	4	0	:	
3190	99	125	15:17:00.000	117DL11A	CSMOS	GE	***** GROUP END CSMOS	4R3	4	0	:	4,982,123:86:0
3191	99	125	15:17:01.333	432MC431A6A	6RCDSL	DDSDSL_PLSNCG,EP	Record Deselect (DDS o	4R3	4	0	:	4,982,123:88:0
3192	99	125	15:17:02.000	432MC6A	6RTSL1		R/T Select of DDS and	4R3	4	0	:	4,982,123:89:0
3193	99	125	15:17:10.666	175DM422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	:	4,982,124:11:0
3194	99	125	15:17:10.666		DMS:	:*RUNDOWN	R28, TRACK 1, FWD, TIC *5934.43 +/- 2	4R3	4	0	:	4,982,124:11:0
3195	99	125	15:17:11.866		DMS:	:*READY	RDY, TRACK 1, FWD, TIC *5934.73 +/- 2	4R3	4	0	:	4,982,124:12:8
3196	99	125	15:19:04.666	465KF6A	6DMSC	RDY,2	DMS Control Tape stop	4R3	4	0	:	4,982,126:00:0
3197	99	125	15:19:04.666		DMS:	:*READY	RDY, TRACK *2, *REV, TIC 5934.73 +/- 2	4R3	4	0	:	4,982,126:00:0
3198	99	125	15:23:20.666	165IE4A	7SCAN	NORM,92.749,24.7	Check S/P Position	4R3	4	0	:	4,982,130:20:0
3199	99	125	15:24:03.333		DMS:	:*US-RUNUP	P7, TRACK *1, *FWD, TIC 5934.73 +/- 2	4R3	4	0	:	4,982,130:84:0
3200	99	125	15:24:03.333	175IE422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	4R3	4	0	:	4,982,130:84:0
3201	99	125	15:24:04.733		DMS:	:*US_AT_SP	P7, TRACK 1, FWD, TIC *5934.85 +/- 2	4R3	4	0	:	4,982,130:86:1
3202	99	125	15:24:06.666	165IE4B	7VECT		Inert vect update UTC	4R3	4	0	:	4,982,130:89:0
3203	99	125	15:24:10.000		DMS:	:*US_RD	P7, TRACK 1, FWD, TIC *5936.09 +/- 2	4R3	4	0	:	4,982,131:03:0
3204	99	125	15:24:11.200		DMS:	:*RUNUP	R115, TRACK *2, *REV, TIC *5936.15 +/- 2	4R3	4	0	:	4,982,131:04:8
3205	99	125	15:24:14.666	175IE176A6A	6TMREC	HIM	115.2 KBPS SSI + NIMS RECORD Record Mode	4R3	4	0	:	4,982,131:10:0
3206	99	125	15:24:15.200		DMS:	:*RECORD	R115, TRACK 2, REV, TIC *5929.85 +/- 2	4R3	4	0	:	4,982,131:10:8
3207	99	125	15:24:15.200		DMS:	:*AT_SPD	R115, TRACK 2, REV, TIC 5929.85 +/- 2	4R3	4	0	:	4,982,131:10:8
3208	99	125	15:25:08.666		DMS:	:*RUNDOWN	R115, TRACK 2, REV, TIC *5741.88 +/- 2	4R3	4	0	:	4,982,132:00:0
3209	99	125	15:25:08.666	175IE422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	:	4,982,132:00:0
3210	99	125	15:25:09.866		DMS:	:*READY	RDY, TRACK 2, REV, TIC *5740.88 +/- 2	4R3	4	0	:	4,982,132:01:8
3211	99	125	15:25:22.000	165IF4A	7SCAN	NORM,92.516999,2	Check S/P Position	4R3	4	0	:	4,982,132:20:0
3212	99	125	15:27:05.333	175IF422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	4R3	4	0	:	4,982,133:84:0
3213	99	125	15:27:05.333		DMS:	:*US-RUNUP	P7, TRACK *1, *FWD, TIC 5740.88 +/- 2	4R3	4	0	:	4,982,133:84:0
3214	99	125	15:27:06.733		DMS:	:*US_AT_SP	P7, TRACK 1, FWD, TIC *5741.00 +/- 2	4R3	4	0	:	4,982,133:86:1
3215	99	125	15:27:08.666	165IF4B	7VECT		Inert vect update UTC	4R3	4	0	:	4,982,133:89:0
3216	99	125	15:27:12.000		DMS:	:*US_RD	P7, TRACK 1, FWD, TIC *5742.23 +/- 2	4R3	4	0	:	4,982,134:03:0
3217	99	125	15:27:13.200		DMS:	:*RUNUP	R115, TRACK *2, *REV, TIC *5742.29 +/- 2	4R3	4	0	:	4,982,134:04:8
3218	99	125	15:27:14.000	20NFEATRE03-	-----START-----			4R3	4	0	:	
3219	99	125	15:27:16.666	175IF176A6A	6TMREC	HIM	115.2 KBPS SSI + NIMS RECORD Record Mode	4R3	4	0	:	4,982,134:10:0
3220	99	125	15:27:17.200		DMS:	:*RECORD	R115, TRACK 2, REV, TIC *5735.99 +/- 2	4R3	4	0	:	4,982,134:10:8
3221	99	125	15:27:17.200		DMS:	:*AT_SPD	R115, TRACK 2, REV, TIC 5735.99 +/- 2	4R3	4	0	:	4,982,134:10:8
3222	99	125	15:27:20.666	20DN5A	37PL		Program Load (halts microprocessor & unwri	4R3	4	0	:	4,982,134:16:0
3223	99	125	15:27:24.000	20DN5B	37MRL		Memory Realocate (software operates from R	4R3	4	0	:	4,982,134:21:0
3224	99	125	15:27:34.000	20DN6A	6MCPY	NIMS	NIMS,1000,LLM1A,7300,77F7	4R3	4	0	:	4,982,134:36:0
3225	99	125	15:27:44.000	20DN6B	6MCPY	NIMS	NIMS,1598,LLM1A,77F8,781D	4R3	4	0	:	4,982,134:51:0
3226	99	125	15:27:54.000	20DN5C	37IRT		Instrument Reset (goes into POR state)	260	4	0	:	4,982,134:66:0
3227	99	125	15:27:57.333	20DN5D	37MN		Memory Normal (software operates from ROM)	260	4	0	:	4,982,134:71:0
3228	99	125	15:28:03.333	20DN4A	37IST	1,2,0,OFF,0,0,0	Chopper ON, Sync, Chopper (Ref)	2R0	4	0	:	4,982,134:80:0
3229	99	125	15:28:11.333		DMS:	:*RUNDOWN	R115, TRACK 2, REV, TIC *5545.68 +/- 2	2R0	4	0	:	4,982,135:01:0
3230	99	125	15:28:11.333	175IF422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R0	4	0	:	4,982,135:01:0
3231	99	125	15:28:12.533		DMS:	:*READY	RDY, TRACK 2, REV, TIC *5544.68 +/- 2	2R0	4	0	:	4,982,135:02:8
3232	99	125	15:29:06.666	125DN4A	37IST	0,2,0,OFF,0,1,1	Gain State 4	4R0	4	0	:	4,982,135:84:0
3233	99	125	15:29:06.666	125DN11A	NIMSINIT	GE	##### GROUP END INIT	4R0	4	0	:	4,982,135:84:0
3234	99	125	15:29:06.666	125DN	NIMSINIT	GS	##### GROUP START INIT	4R0	4	0	:	4,982,135:84:0
3235	99	125	15:29:10.666	165DM4A	7SCAN	NORM,93.712999,2	Check S/P Position	4R0	4	0	:	4,982,135:90:0
3236	99	125	15:29:15.333	20CNFEATRE03-	-----START-----			4R0	4	0	:	
3237	99	125	15:29:15.333	20NFEATRE03-	-----STOP-----			4R0	4	0	:	
3238	99	125	15:30:07.333	127DN	NIMSTAB	GS	%%%%% GROUP START TAB	4R0	4	0	:	4,982,136:84:0
3239	99	125	15:30:07.333	127DN4A	37IOP	3,0	Long Map, Grating Start Position =00	4R3	4	0	:	4,982,136:84:0
3240	99	125	15:30:08.000	127DN4B	37ETB	04,C4,35,FF,FF	Loads wavelength edit table	4R3	4	0	:	4,982,136:85:0
3241	99	125	15:30:16.000	127DN11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	:	4,982,137:06:0
3242	99	125	15:32:59.333		DMS:	:*US-RUNUP	P7, TRACK *1, *FWD, TIC 5544.68 +/- 2	4R3	4	0	:	4,982,139:69:0
3243	99	125	15:32:59.333	175DN422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kb	4R3	4	0	:	4,982,139:69:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
3244	99	125	15:33:00.733		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *5544.80 +/- 2	4R3	4	0	4,982,139:71:1	
3245	99	125	15:33:04.666	117DM	CSMOS	GS	***** GROUP START CSMOS	4R3	4	0	4,982,139:77:0	
3246	99	125	15:33:06.000		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *5546.03 +/- 2	4R3	4	0	4,982,139:79:0	
3247	99	125	15:33:07.200		DMS:	: *RUNUP	R28, TRACK *2, *REV, TIC *5546.09 +/- 2	4R3	4	0	4,982,139:80:8	
3248	99	125	15:33:10.666	175DN176A6A	6TMREC	MPW	28.8 KBPS PWS + NIMS RECORD Record Mode C	4R3	4	0	4,982,139:86:0	
3249	99	125	15:33:11.200		DMS:	: *RECORD	R28, TRACK 2, REV, TIC *5544.59 +/- 2	4R3	4	0	4,982,139:86:8	
3250	99	125	15:33:11.200		DMS:	: *AT_SPD	R28, TRACK 2, REV, TIC 5544.59 +/- 2	4R3	4	0	4,982,139:86:8	
3251	99	125	15:33:12.666	165DM4B	7VECT		Inert vect update UTC	4R3	4	0	4,982,139:89:0	
3252	99	125	15:33:14.000	20CNFEATRE03-	NIMPBK	301DN	CALLISTO HI-RES OBS	4R3	4	0	:	
3253	99	125	15:33:14.000	117DM105A106A4A	7STRP	0.018002:0.0:0,0	Slew =0.03	4R3	4	0	4,982,140:00:0	
3254	99	125	15:38:00.000	20CNFEATRE03-	NIMPBK	301EC	CALLISTO HI-RES OBS	4R3	4	0	:	
3255	99	125	15:38:11.333	20CNFEATRE03-	DESEL	300DN	CALLISTO HI-RES OBS	4R3	4	0	:	
3256	99	125	15:43:10.666	20CNFEATRE03-	DESEL	300EC	CALLISTO HI-RES OBS	4R3	4	0	:	
3257	99	125	15:43:11.333	175DN422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,982,149:77:0	
3258	99	125	15:43:11.333		DMS:	: *RUNDOWN	R28, TRACK 2, REV, TIC *5017.13 +/- 2	4R3	4	0	4,982,149:77:0	
3259	99	125	15:43:12.533		DMS:	: *READY	RDY, TRACK 2, REV, TIC *5016.83 +/- 2	4R3	4	0	4,982,149:78:8	
3260	99	125	15:43:17.333	117DM11A	CSMOS	GE	***** GROUP END CSMOS	4R3	4	0	4,982,149:86:0	
3261	99	125	15:43:24.666	20CNFEATRE03-		-----STOP-----		4R3	4	0	:	
3262	99	125	15:53:43.333	165IG4A	7SCAN	NORM,91.889999,2	Check S/P Position	4R3	4	0	4,982,160:24:0	
3263	99	125	15:56:51.333	175IG422A6A	6DMSC	R115:0	DMS Control Tape runup 115.2kb	4R3	4	0	4,982,163:33:0	
3264	99	125	15:56:51.333		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 5016.83 +/- 2	4R3	4	0	4,982,163:33:0	
3265	99	125	15:56:52.733		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *5016.95 +/- 2	4R3	4	0	4,982,163:35:1	
3266	99	125	15:56:58.000	165IG4B	7VECT		Inert vect update UTC	4R3	4	0	4,982,163:43:0	
3267	99	125	15:56:58.000		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *5018.19 +/- 2	4R3	4	0	4,982,163:43:0	
3268	99	125	15:56:59.200		DMS:	: *RUNUP	R115, TRACK *2, *REV, TIC *5018.25 +/- 2	4R3	4	0	4,982,163:44:8	
3269	99	125	15:57:02.666	175IG176A6A	6TMREC	HMA	115.2 KBPS IMAGE(1-400)RECORD Record Mode	4R3	4	0	4,982,163:50:0	
3270	99	125	15:57:03.200		DMS:	: *RECORD	R115, TRACK 2, REV, TIC *5011.95 +/- 2	4R3	4	0	4,982,163:50:8	
3271	99	125	15:57:03.200		DMS:	: *AT_SPD	R115, TRACK 2, REV, TIC 5011.95 +/- 2	4R3	4	0	4,982,163:50:8	
3272	99	125	15:57:30.666		DMS:	: *RUNDOWN	R115, TRACK 2, REV, TIC *4915.39 +/- 2	4R3	4	0	4,982,164:01:0	
3273	99	125	15:57:30.666	175IG422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,982,164:01:0	
3274	99	125	15:57:31.866		DMS:	: *READY	RDY, TRACK 2, REV, TIC *4914.39 +/- 2	4R3	4	0	4,982,164:02:8	
3275	99	125	15:57:40.666	20DP5A	37PL		Program Load (halts microprocessor & unwri	4R3	4	0	4,982,164:16:0	
3276	99	125	15:57:44.000	20DP5B	37MRL		Memory Realocate (software operates from R	4R3	4	0	4,982,164:21:0	
3277	99	125	15:57:54.000	20DP6A	6MCPY	NIMS	NIMS,1000,LLM1A,7300,77F7	4R3	4	0	4,982,164:36:0	
3278	99	125	15:58:04.000	20DP6B	6MCPY	NIMS	NIMS,1598,LLM1A,77F8,781D	4R3	4	0	4,982,164:51:0	
3279	99	125	15:58:14.000	20DP5C	37IRT		Instrument Reset (goes into POR state)	260	4	0	4,982,164:66:0	
3280	99	125	15:58:17.333	20DP5D	37MN		Memory Normal (software operates from ROM)	260	4	0	4,982,164:71:0	
3281	99	125	15:58:23.333	20DP4A	37IST	1,2,0,OFF,0,0,0	Chopper ON, Sync, Chopper (Ref)	2R0	4	0	4,982,164:80:0	
3282	99	125	15:59:26.666	125DP11A	NIMSINIT	GE	##### GROUP END INIT	2R0	4	0	4,982,165:84:0	
3283	99	125	15:59:26.666	125DP	NIMSINIT	GS	##### GROUP START INIT	2R0	4	0	4,982,165:84:0	
3284	99	125	15:59:26.666	125DP4A	37IST	0,2,0,OFF,0,1,1	Gain State 4	4R0	4	0	4,982,165:84:0	
3285	99	125	15:59:35.333	20NNBRANCR01-		-----START-----		4R0	4	0	:	
3286	99	125	16:00:27.333	127DP	NIMSTAB	GS	%%-%-% GROUP START TAB	4R0	4	0	4,982,166:84:0	
3287	99	125	16:00:27.333	127DP4A	37IOP	3,0	Long Map, Grating Start Position =00	4R3	4	0	4,982,166:84:0	
3288	99	125	16:00:28.000	127DP4B	37ETB	04:C4.35:FF:FF	Loads wavelength edit table	4R3	4	0	4,982,166:85:0	
3289	99	125	16:00:36.000	127DP11A	NIMSTAB	GE	%%-%-% GROUP END TAB	4R3	4	0	4,982,167:06:0	
3290	99	125	16:01:36.666	20NNBRANCR01-		-----STOP-----		4R3	4	0	:	
3291	99	125	16:02:32.666	165DP4A	7SCAN	NORM,91.851999,2	Check S/P Position	4R3	4	0	4,982,168:90:0	
3292	99	125	16:02:37.333	20CNBRANCR01-		-----START-----		4R3	4	0	:	
3293	99	125	16:06:21.333		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 4914.39 +/- 2	4R3	4	0	4,982,172:69:0	
3294	99	125	16:06:21.333	175DP422A6A	6DMSC	RDY,0	DMS Control Tape runup 28.8kb	4R3	4	0	4,982,172:69:0	
3295	99	125	16:06:22.733		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *4914.51 +/- 2	4R3	4	0	4,982,172:71:1	
3296	99	125	16:06:26.666	117DP	CSMOS	GS	***** GROUP START CSMOS	4R3	4	0	4,982,172:77:0	
3297	99	125	16:06:28.000		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *4915.74 +/- 2	4R3	4	0	4,982,172:79:0	
3298	99	125	16:06:29.200		DMS:	: *RUNUP	R28, TRACK *2, *REV, TIC *4915.80 +/- 2	4R3	4	0	4,982,172:80:8	

Line	YR	DOY	SCET - GMT	PSID	Command Parameters	Description	GCM	GO	GS	RIM	MF I
3299	99	125	16:06:32.666	175DP176A6A	6TMREC MPW	28.8 KBPS PWS + NIMS RECORD Record Mode C	4R3	4	0	4,982,172:86:0	
3300	99	125	16:06:33.200		DMS: : *RECORD	R28, TRACK 2, REV, TIC *4914.30 +/- 2	4R3	4	0	4,982,172:86:8	
3301	99	125	16:06:33.200		DMS: : *AT_SPD	R28, TRACK 2, REV, TIC 4914.30 +/- 2	4R3	4	0	4,982,172:86:8	
3302	99	125	16:06:34.666	165DP4B	7VECT	Inert vect update UTC	4R3	4	0	4,982,172:89:0	
3303	99	125	16:06:36.000	117DP105A106A4A	7STRP 0.011,0.0,0.0,0.0,	Slew =-0.03	4R3	4	0	4,982,173:00:0	
3304	99	125	16:06:36.000	20CNBRANCR01-	NIMPBK 301DP	CALLISTO BRAN CRATER OBS	4R3	4	0	:	
3305	99	125	16:07:09.000	20CNBRANCR01-	NIMPBK 301EP	CALLISTO BRAN CRATER OBS	4R3	4	0	:	
3306	99	125	16:07:23.000	20CNBRANCR01-	DESELC 300EP	CALLISTO BRAN CRATER OBS	4R3	4	0	:	
3307	99	125	16:12:38.333	20CNBRANCR01-	NIMPBK 301EK	CALLISTO BRAN CRATER OBS	4R3	4	0	:	
3308	99	125	16:12:44.000	117DP105A106A4B	7STRP -0.011,0.007,0.0	Slew =12.01	4R3	4	0	4,982,179:06:0	
3309	99	125	16:12:54.666	117DP105A106A4C	7STRP 0.011,0.0,0.0,0.0,	Slew =-0.03	4R3	4	0	4,982,179:22:0	
3310	99	125	16:12:57.000	20CNBRANCR01-	DESELC 300EK	CALLISTO BRAN CRATER OBS	4R3	4	0	:	
3311	99	125	16:15:14.000	20CNBRANCR01-	NIMPBK 301EL	CALLISTO BRAN CRATER OBS	4R3	4	0	:	
3312	99	125	16:15:34.000	20CNBRANCR01-	DESELC 300EL	CALLISTO BRAN CRATER OBS	4R3	4	0	:	
3313	99	125	16:16:49.000	20CNBRANCR01-	NIMPBK 301EM	CALLISTO BRAN CRATER OBS	4R3	4	0	:	
3314	99	125	16:17:05.000	20CNBRANCR01-	DESELC 300EM	CALLISTO BRAN CRATER OBS	4R3	4	0	:	
3315	99	125	16:18:25.000	20CNBRANCR01-	NIMPBK 301EN	CALLISTO BRAN CRATER OBS	4R3	4	0	:	
3316	99	125	16:19:02.666	20CNBRANCR01-	DESELC 300EN	CALLISTO BRAN CRATER OBS	4R3	4	0	:	
3317	99	125	16:19:02.666	117DP11A	CSMOS GE	**** GROUP END CSMOS	4R3	4	0	4,982,185:28:0	
3318	99	125	16:19:02.666	20CNBRANCR01-	DESELC 300DP	CALLISTO BRAN CRATER OBS	4R3	4	0	:	
3319	99	125	16:20:15.333		DMS: : *RUNDOWN	R28, TRACK 2, REV, TIC *4191.72 +/- 2	4R3	4	0	4,982,186:46:0	
3320	99	125	16:20:15.333	175DP422A6B	6DMSC RDY,0	DMS Control Tape stop	4R3	4	0	4,982,186:46:0	
3321	99	125	16:20:16.533		DMS: : *READY	RDY, TRACK 2, REV, TIC *4191.42 +/- 2	4R3	4	0	4,982,186:47:8	
3322	99	125	17:03:17.333	20CNBRANCR01-	-----STOP-----		4R3	4	0	:	
3323	99	125	17:58:50.000	488AL6B	6TMSED NORM,AL4	Sci, Eng, and D/L Chan	4R3	4	0	4,982,284:00:0	
3324	99	125	18:45:23.333	488AL6C	6TMSED NORM,AL2	Sci, Eng, and D/L Chan	4R3	4	0	4,982,330:04:0	
3325	99	125	19:28:03.333	488AL6D	6TMSED NORM,AL3	Sci, Eng, and D/L Chan	4R3	4	0	4,982,372:22:0	
3326	99	125	19:43:09.333	20DO5A	37PL	Program Load (halts microprocessor & unwri	4R3	4	0	4,982,387:16:0	
3327	99	125	19:43:12.666	20DO5B	37MRL	Memory Realocate (software operates from R	4R3	4	0	4,982,387:21:0	
3328	99	125	19:43:22.666	20DO6A	6MCPY NIMS	NIMS,1000,LLM1A,7300,77F7	4R3	4	0	4,982,387:36:0	
3329	99	125	19:43:32.666	20DO6B	6MCPY NIMS	NIMS,1598,LLM1A,77F8,781D	4R3	4	0	4,982,387:51:0	
3330	99	125	19:43:42.666	20DO5C	37IRT	Instrument Reset (goes into POR state)	260	4	0	4,982,387:66:0	
3331	99	125	19:43:46.000	20DO5D	37MN	Memory Normal (software operates from ROM)	260	4	0	4,982,387:71:0	
3332	99	125	19:43:52.000	20DO4A	37IST 1,2,0,OFF,0,1,1	Chopper ON, Sync, Chopper (Ref)Gain State	4R0	4	0	4,982,387:80:0	
3333	99	125	19:45:56.000	125DO	NIMSINIT GS	##### GROUP START INIT	4R0	4	0	4,982,389:84:0	
3334	99	125	19:45:56.000	125DO11A	NIMSINIT GE	##### GROUP END INIT	4R0	4	0	4,982,389:84:0	
3335	99	125	19:45:56.000	125DO4A	37IST 0,2,0,OFF,0,1,1	Gain State 4	4R0	4	0	4,982,389:84:0	
3336	99	125	19:47:05.333	20NNGLOBAL02-	-----START-----		4R0	4	0	:	
3337	99	125	19:47:57.333	127DO	NIMSTAB GS	%%%% GROUP START TAB	4R0	4	0	4,982,391:84:0	
3338	99	125	19:47:57.333	127DO4A	37IOP 3,0	Long Map, Grating Start Position =00	4R3	4	0	4,982,391:84:0	
3339	99	125	19:47:58.000	127DO4B	37ETB 07,C,7,02,30,18,0	Loads wavelength edit table	4R3	4	0	4,982,391:85:0	
3340	99	125	19:48:06.000	127DO11A	NIMSTAB GE	%%%% GROUP END TAB	4R3	4	0	4,982,392:06:0	
3341	99	125	19:49:06.666	20NNGLOBAL02-	-----STOP-----		4R3	4	0	:	
3342	99	125	19:50:02.666	165DN4A	7SCAN NORM,88,667,24,6	Check S/P Position	4R3	4	0	4,982,393:90:0	
3343	99	125	19:50:07.333	20CNGLOBAL01-	-----START-----		4R3	4	0	:	
3344	99	125	19:53:54.000	175DO422A6A	6DMSC R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	4,982,397:73:0	
3345	99	125	19:53:54.000		DMS: : *US-RUNUP	P7, TRACK *1, *FWD, TIC 4191.42 +/- 2	4R3	4	0	4,982,397:73:0	
3346	99	125	19:53:55.400		DMS: : *US_AT_SP	P7, TRACK 1, FWD, TIC *4191.54 +/- 2	4R3	4	0	4,982,397:75:1	
3347	99	125	19:53:56.666	117DN	CSMOS GS	**** GROUP START CSMOS	4R3	4	0	4,982,397:77:0	
3348	99	125	19:54:01.866		DMS: : *US_RD	P7, TRACK 1, FWD, TIC *4192.78 +/- 2	4R3	4	0	4,982,397:83:0	
3349	99	125	19:54:01.866		DMS: : *RUNUP	P7, TRACK *2, *REV, TIC *4192.84 +/- 2	4R3	4	0	4,982,397:84:8	
3350	99	125	19:54:02.666	175DO176A6A	6TMREC LPU	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	4R3	4	0	4,982,397:86:0	
3351	99	125	19:54:03.266		DMS: : *RECORD	R7, TRACK 2, REV, TIC *4192.72 +/- 2	4R3	4	0	4,982,397:86:9	
3352	99	125	19:54:03.266		DMS: : *AT_SPD	R7, TRACK 2, REV, TIC 4192.72 +/- 2	4R3	4	0	4,982,397:86:9	
3353	99	125	19:54:04.000	20CNGLOBAL01-	NIMPBK 301ER	CALLISTO GLOBAL OBS	4R3	4	0	:	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
3354	99	125	19:54:06.000	20CNGLOBAL01-	NIMPBK	301DO	CALLISTO GLOBAL OBS	4R3	4	0	:	
3355	99	125	19:54:06.000	117DN105A106A4A	7STRP	-0.016802,0.0,0.0,	Slew =0.03	4R3	4	0	:	4,982,398:00:0
3356	99	125	19:57:32.666	20CNGLOBAL01-	DESEL	300ER	CALLISTO GLOBAL OBS	4R3	4	0	:	
3357	99	125	20:01:10.000	20CNGLOBAL01-	NIMPBK	301EO	CALLISTO GLOBAL OBS	4R3	4	0	:	
3358	99	125	20:01:20.000	20CNGLOBAL01-	DESEL	300DO	CALLISTO GLOBAL OBS	4R3	4	0	:	
3359	99	125	20:03:27.333	117DN105A106A4B	7STRP	0.016802,-0.0085	Slew =12.01	4R3	4	0	:	4,982,407:23:0
3360	99	125	20:03:34.000	117DN105A106A4C	7STRP	-0.016802,0.0,0.0,	Slew =0.03	4R3	4	0	:	4,982,407:33:0
3361	99	125	20:08:10.666	488AL6E	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4R3	4	0	:	4,982,411:84:0
3362	99	125	20:12:55.333	117DN105A106A4D	7STRP	0.016802,-0.0085	Slew =12.01	4R3	4	0	:	4,982,416:56:0
3363	99	125	20:13:02.000	117DN105A106A4E	7STRP	-0.016802,0.0,0.0,	Slew =0.03	4R3	4	0	:	4,982,416:66:0
3364	99	125	20:20:21.333	20CNGLOBAL01-	NIMPBK	301EY	CALLISTO GLOBAL OBS	4R3	4	0	:	
3365	99	125	20:21:19.333	127FB	NIMSTAB	GS	%%%%GROUP START TAB	4R3	4	0	:	4,982,424:84:0
3366	99	125	20:21:19.333	125FB4A	37IST	0.2,1,OFF,1.0,1	OPCAL	4R3	4	0	:	4,982,424:84:0
3367	99	125	20:21:19.333	125FB	NIMSINIT	GS	##### GROUP START INIT	4R3	4	0	:	4,982,424:84:0
3368	99	125	20:21:19.333	125FB11A	NIMSINIT	GE	##### GROUP END INIT	4R3	4	0	:	4,982,424:84:0
3369	99	125	20:21:20.000	20CNGLOBAL01-	DESEL	300EO	CALLISTO GLOBAL OBS	4R3	4	0	:	
3370	99	125	20:21:20.000	127FB4A	37ETB	0A,CA,19,FF,C0,1	Loads wavelength edit table	4R3	4	0	:	4,982,424:85:0
3371	99	125	20:21:28.000	127FB11A	NIMSTAB	GE	%%%%GROUP END TAB	4R3	4	0	:	4,982,425:06:0
3372	99	125	20:22:13.333	20CNGLOBAL01-	DESEL	300EY	CALLISTO GLOBAL OBS	4R3	4	0	:	
3373	99	125	20:22:23.333		DMS:	:*RUNDOWN	RT, TRACK 2, REV, TIC *3794.26 +/- 2	4R3	4	0	:	4,982,425:89:0
3374	99	125	20:22:23.333	175DO422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	:	4,982,425:89:0
3375	99	125	20:22:23.333	175DO6A	6TMREC	NRC	NO RECORD Record Mode Change	4R3	4	0	:	4,982,425:89:0
3376	99	125	20:22:23.333	117DN11A	CSMOS	GE	***** GROUP END CSMOS	4R3	4	0	:	4,982,425:89:0
3377	99	125	20:22:24.533		DMS:	:*READY	RDY, TRACK 2, REV, TIC *3794.20 +/- 2	4R3	4	0	:	4,982,425:90:8
3378	99	125	20:22:28.666	20CNGLOBAL01-		-----STOP-----		4R3	4	0	:	
3379	99	125	20:34:31.333	432JB6B	6RTDS2	NIMNCG,AACDSL,RT	AACS DESELECT	4R3	4	0	:	4,982,437:89:0
3380	99	125	20:38:39.333	20NNCHOPOF01-		-----START-----		4R3	4	0	:	
3381	99	125	20:40:06.000	20KA4A	7SAFE	UNSTOW	S/P TO 153 deg cone	4R3	4	0	:	4,982,443:45:0
3382	99	125	20:40:32.000	127FN	NIMSTAB	GS	%%%%GROUP START TAB	4R3	4	0	:	4,982,443:84:0
3383	99	125	20:40:32.000	127FN4A	37IOP	0.0	Safe, Grating Start Position =00	4R0	4	0	:	4,982,443:84:0
3384	99	125	20:40:32.666	127FN4B	37ETB	04,C4,02,00,00	Loads wavelength edit table	4R0	4	0	:	4,982,443:85:0
3385	99	125	20:40:40.666	127FN11A	NIMSTAB	GE	%%%%GROUP END TAB	4R0	4	0	:	4,982,444:06:0
3386	99	125	20:43:34.000	125FN4A	37IST	1.0,0,OFF,0.0,0	Chopper ON, Sync, 63Hz (Ref)	460	4	0	:	4,982,446:84:0
3387	99	125	20:43:34.000	125FN	NIMSINIT	GS	##### GROUP START INIT	460	4	0	:	4,982,446:84:0
3388	99	125	20:44:34.666	125FN4B	37IST	1.1,0,OFF,0.0,0	Chopper OFF, N/A, 63Hz (Ref)	400	4	0	:	4,982,447:84:0
3389	99	125	20:45:35.333	125FN4C	37MB	0.0,0,0,0,0	Selects mirror (spatial) edit table	400	4	0	:	4,982,448:84:0
3390	99	125	20:45:35.333	125FN11A	NIMSINIT	GE	##### GROUP END INIT	400	4	0	:	4,982,448:84:0
3391	99	125	20:48:00.000	444UD443A4A	7MODE	CRU	AACS CRUISE MODE	400	4	0	:	4,982,451:28:0
3392	99	125	20:48:46.000	20NNCHOPOF01-		-----STOP-----		400	4	0	:	
3393	99	125	20:50:14.666	488AM6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	:	4,982,453:48:0
3394	99	125	21:12:35.333	488AM6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	:	4,982,475:57:0
3395	99	125	21:20:03.333	41AB99A	POWER	PWR MODE change	Change to Maneuver/Playback Mode	400	4	0	:	4,982,483:01:0
3396	99	125	21:21:57.333	41AB3G	40T1P		1 PCT Heater 1 ON (primary relay)	400	4	0	:	4,982,484:81:0
3397	99	125	21:22:07.333	41AB3H	40T1P		2 PCT Heater 1 ON (primary relay)	400	4	0	:	4,982,485:05:0
3398	99	125	21:22:17.333	41AB3I	40T2		1 PCT Heater 2 ON	400	4	0	:	4,982,485:20:0
3399	99	125	21:22:27.333	41AB3J	40T2		2 PCT Heater 2 ON	400	4	0	:	4,982,485:35:0
3400	99	125	21:26:04.000	20VL4A	7SAFE	STOP	S/P NO MOVEMENT	400	4	0	:	4,982,488:87:0
3401	99	125	21:26:54.000	20VL4B	7SLEW	DIS,POS,0.0	Stator movement	400	4	0	:	4,982,489:71:0
3402	99	125	21:27:07.333	176WA6A	6TMREC	IPB	INITIATE PLAYBACK (PB CONTROL) Record Mod	400	4	0	:	4,982,490:00:0
3403	99	126	00:05:00.000	488AM6C	6TMSED	NORM,AH4	Sci, Eng, and D/L Chan	400	4	0	:	4,982,646:13:0
3404	99	126	00:08:54.000	176SH6A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	400	4	0	:	4,982,650:00:0
3405	99	126	00:39:00.000	20SQ4I	7MODE	INT	AACS INERTIAL MODE	400	4	0	:	4,982,679:70:0
3406	99	126	00:54:00.000	20SQ4K	7SLEW	INIT,POS,17.45	Stator movement	400	4	0	:	4,982,694:55:0
3407	99	126	01:06:00.000	20SQ4L	7SLEW	DIS,POS,0.0	Stator movement	400	4	0	:	4,982,706:43:0
3408	99	126	01:13:00.000	20SQ4M	7SLEW	INIT,NEG,17.45	Stator movement	400	4	0	:	4,982,713:36:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
3409	99	126	01:25:00.000	20SQ4N	7SLEW	DIS,POS,0.0	Stator movement	400	4	0	4,982,725:24:0	
3410	99	126	01:37:00.000	20SQ4AH	7MODE	CRU	AACS CRUISE MODE	400	4	0	4,982,737:12:0	
3411	99	126	01:53:04.000	20ST4A	7SAFE	STOP	S/P NO MOVEMENT	400	4	0	4,982,753:02:0	
3412	99	126	01:53:54.000	20ST4B	7SLEW	DIS,POS,0.0	Stator movement	400	4	0	4,982,753:77:0	
3413	99	126	01:54:03.333	176SJ6A	6TMREC	RPB	RESUME PLAYBACK (PB CONTROL) Record Mode	400	4	0	4,982,754:00:0	
3414	99	126	02:00:35.333	488AM6D	6TMSED	NORM,AH3	Sci, Eng, and D/L Chan	400	4	0	4,982,760:42:0	
3415	99	126	02:13:00.000	488AM6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	4,982,772:67:0	
3416	99	126	03:45:07.333	488AN6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	400	4	0	4,982,863:77:0	
3417	99	126	04:05:42.000	488AN6B	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	400	4	0	4,982,884:18:0	
3418	99	126	04:19:15.333	488AN6C	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	400	4	0	4,982,897:55:0	
3419	99	126	04:55:31.333	488AN6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	400	4	0	4,982,933:43:0	
3420	99	126	19:02:08.600	488AO6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	400	4	0	4,983,770:72:0	
3421	99	126	19:17:23.266	488AO6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	4,983,785:79:0	
3422	99	126	20:28:08.600	488AO6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	400	4	0	4,983,855:77:0	
3423	99	126	20:55:31.266	488AO6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	400	4	0	4,983,882:84:0	
3424	99	126	21:03:20.600	488AO6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	4,983,890:60:0	
3425	99	127	02:15:31.266	488AP6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	4,984,199:37:0	
3426	99	127	03:45:07.266	488AP6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	400	4	0	4,984,288:02:0	
3427	99	127	04:05:42.600	488AP6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	400	4	0	4,984,308:35:0	
3428	99	127	04:19:15.266	488AP6D	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	400	4	0	4,984,321:71:0	
3429	99	127	04:55:31.266	488AP6E	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	400	4	0	4,984,357:59:0	
3430	99	127	06:03:09.266	488AQ6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	4,984,424:49:0	
3431	99	127	07:12:03.266	488AQ6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	4,984,492:62:0	
3432	99	127	07:35:11.933	488AQ6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	400	4	0	4,984,515:52:0	
3433	99	127	08:08:51.266	488AQ6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	4,984,548:78:0	
3434	99	127	11:47:23.933	176SA6A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	400	4	0	4,984,765:00:0	
3435	99	127	11:59:59.933		DMS:	: READY	RDY, TRACK 2, REV, TIC 3794.20 +/- 2	400	4	0	4,984,777:42:0	
3436	99	127	12:00:00.000	20A3EX	37HR	Final Condition	Replacement Heaters OFF	400	4	0	4,984,777:42:1	
3437	99	127	12:00:00.000	20A3EY	37C1PR	Final Condition	Optics Heater 1 OFF (primary relay)	400	4	0	4,984,777:42:1	
3438	99	127	12:00:00.000	20A3EZ	37C2PR	Final Condition	Optics Heater 2 OFF (primary relay)	400	4	0	4,984,777:42:1	
3439	99	127	12:00:00.000	20A3FA	37F1PR	Final Condition	Radiator Flash Heater OFF (primary relay)	400	4	0	4,984,777:42:1	
3440	99	127	12:00:00.000	20A3FB	37F2PR	Final Condition	Shield Flash Heater OFF (primary relay)	400	4	0	4,984,777:42:1	
3441	99	127	12:00:00.000	20A3FD	40HRPR	Final Condition	RCT Heater OFF (primary relay)	400	4	0	4,984,777:42:1	
3442	99	127	12:00:00.000	20A3FE	40T1P	Final Condition	PCT Heater 1 ON (primary relay)	400	4	0	4,984,777:42:1	
3443	99	127	12:00:00.000	20A3FF	40T2	Final Condition	PCT Heater 2 ON	400	4	0	4,984,777:42:1	
3444	99	127	12:00:00.000	20A3EW	37A	Final Condition	NIMS Power ON	400	4	0	4,984,777:42:1	

Sequence:		C20B-AR		Created: 11/16/99		Begin: 99-127/12:00:00		Finish: 99-180/07:00:00				
Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1	99	127	12:00:00.000	20A3EW	DMS:	: READY	RDY, TRACK 2, REV, TIC 3794.20 +/- 2	400	4	0	4,984,777:42:0	
2	99	127	12:00:00.000	20A3EW	37A	CMD,37A,20A3EW,,	NIMS Power ON	400	4	0	4,984,777:42:1	
3	99	127	12:00:00.000	20A3EY	37C1PR	CMD,37C1PR,20A3E	Optics Heater 1 OFF (primary relay)	400	4	0	4,984,777:42:1	
4	99	127	12:00:00.000	20A3EZ	37C2PR	CMD,37C2PR,20A3E	Optics Heater 2 OFF (primary relay)	400	4	0	4,984,777:42:1	
5	99	127	12:00:00.000	20A3FA	37F1PR	CMD,37F1PR,20A3F	Radiator Flash Heater OFF (primary relay)	400	4	0	4,984,777:42:1	
6	99	127	12:00:00.000	20A3FB	37F2PR	CMD,37F2PR,20A3F	Shield Flash Heater OFF (primary relay)	400	4	0	4,984,777:42:1	
7	99	127	12:00:00.000	20A3EX	37HR	CMD,37HR,20A3EX,	Replacement Heaters OFF	400	4	0	4,984,777:42:1	
8	99	127	12:00:00.000	20A3FE	40T1P	CMD,40T1P,20A3FE	PCT Heater 1 ON (primary relay)	400	4	0	4,984,777:42:1	
9	99	127	12:00:00.000	20A3FF	40T2	CMD,40T2,20A3FF,	PCT Heater 2 ON	400	4	0	4,984,777:42:1	
10	99	127	12:00:00.000	20A3FD	40HRPR	CMD,40HRPR,20A3F	RCT Heater OFF (primary relay)	400	4	0	4,984,777:42:1	
11	99	127	12:01:31.933	432NA6B	6RTDS2	NIMDSL,AACDSL,RT	NIMS R/T DESELECTAACS DESELECT	400	4	0	4,984,778:89:0	
12	99	127	12:02:11.266	488AA6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	4,984,779:57:0	
13	99	127	12:05:03.933	20WA4A	7SAFE	STOP	S/P NO MOVEMENT	400	4	0	4,984,782:43:0	
14	99	127	12:05:53.933	20WA4B	7SLEW	DIS,POS,0.0	Stator movement	400	4	0	4,984,783:27:0	
15	99	127	12:06:36.600	176SA6A	6TMREC	RPB	RESUME PLAYBACK (PB CONTROL) Record Mode	400	4	0	4,984,784:00:0	
16	99	127	12:08:03.933	20OB6A	6HICON			400	4	0	4,984,785:40:0	
17	99	127	12:19:15.266	488AA6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	4,984,796:46:0	
18	99	127	12:19:44.600	432NB431A6A	6RCDL	DDSNCG,PLSDSL,EP	Record Deselect (DDS o	400	4	0	4,984,796:90:0	
19	99	127	12:19:45.266	432NB6A	6RTSL1		R/T Select of DDS and	400	4	0	4,984,797:00:0	
20	99	127	12:19:45.266	432NB6B	6RTSL2	NIMCG,AACSEL,RT	AACS SELECT	400	4	0	4,984,797:00:0	
21	99	127	14:25:07.266	488AA6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	400	4	0	4,984,920:90:0	
22	99	127	14:56:07.266	488AA6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	400	4	0	4,984,951:59:0	
23	99	127	15:09:55.266	488AA6E	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	400	4	0	4,984,965:27:0	
24	99	127	15:46:11.266	488AB6A	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	400	4	0	4,985,001:15:0	
25	99	127	18:48:10.600	488AB6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	4,985,181:14:0	
26	99	127	18:58:11.266	488AB6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	4,985,191:05:0	
27	99	127	20:27:47.266	488AB6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	4,985,279:61:0	
28	99	128	02:24:03.200	488AC6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	4,985,632:02:0	
29	99	128	04:00:03.200	488AC6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	4,985,726:88:0	
30	99	128	04:08:47.200	488AC6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	400	4	0	4,985,735:55:0	
31	99	128	04:14:59.200	488AC6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	400	4	0	4,985,741:67:0	
32	99	128	04:37:10.533	488AC6E	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	400	4	0	4,985,763:62:0	
33	99	128	04:57:39.200	488AD6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	4,985,783:85:0	
34	99	128	06:03:05.200	488AD6B	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	400	4	0	4,985,848:59:0	
35	99	128	06:40:09.866	488AD6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	4,985,885:29:0	
36	99	128	06:57:07.200	488AD6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	4,985,902:08:0	
37	99	128	12:25:39.200	488AE6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	4,986,227:01:0	
38	99	128	14:20:51.200	488AE6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	400	4	0	4,986,340:86:0	
39	99	128	15:05:39.200	488AE6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	4,986,385:23:0	
40	99	128	16:30:09.200	488AE6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	400	4	0	4,986,468:75:0	
41	99	128	17:13:48.533	488AE6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	4,986,512:00:0	
42	99	128	18:34:43.200	488AF6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	4,986,592:02:0	
43	99	128	18:53:55.200	488AF6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	4,986,611:01:0	
44	99	128	19:59:59.866	481UB4A	7VECT	BB1	Inert vect update UTC	400	4	0	4,986,676:33:0	
45	99	128	20:15:09.200	488AF6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	400	4	0	4,986,691:32:0	
46	99	128	20:40:35.200	488AF6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	400	4	0	4,986,716:46:0	
47	99	128	20:46:10.533	488AF6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	4,986,722:03:0	
48	99	128	20:52:59.866	488AG6A	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	400	4	0	4,986,728:71:0	
49	99	128	20:57:15.866	176SB6A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	400	4	0	4,986,733:00:0	
50	99	129	01:55:59.866	20AA4C	7STAT	10.00,290.083,-2	Stator inertial point	400	4	0	4,987,028:41:0	
51	99	129	02:16:59.866	474AA416A4B	7MODE	INT	AACS INERTIAL MODE	400	4	0	4,987,049:20:0	
52	99	129	02:18:59.866	474AA416A4D	7SAFE	UNSTOW	S/P TO 153 deg cone	400	4	0	4,987,051:18:0	
53	99	129	02:19:19.866	20AA4D	7STAT	17.45,290.083,-2	Stator inertial point	400	4	0	4,987,051:48:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RM	MF I
54	99	129	02:23:13.866	474AA416AAE	7BURN	90.082996,-29.47	ALERT -- Thruster fire	400	4	0	4,987,055:35:0	
55	99	129	02:24:03.200	488AG6B	6TMSED	NORM,AH4	Sci, Eng, and D/L Chan	400	4	0	4,987,056:18:0	
56	99	129	02:24:04.533	20AC6A	6TMSED	NORM,BA4	Sci, Eng, and D/L Chan	400	4	0	4,987,056:20:0	
57	99	129	02:39:21.866	20AA4F	7SLEW	DIS,POS,0.0	Stator movement	400	4	0	4,987,071:31:0	
58	99	129	02:45:13.866	20AA4G	7MODE	CRU	AACS CRUISE MODE	400	4	0	4,987,077:13:0	
59	99	129	03:06:29.866	20AA4L	7STAT	10.00,290.083,-2	Stator inertial point	400	4	0	4,987,098:16:0	
60	99	129	03:12:29.866	20AA4O	7MODE	INT	AACS INERTIAL MODE	400	4	0	4,987,104:10:0	
61	99	129	03:14:29.866	474AA416A4G	7BURN	0.082996,-29.476	ALERT -- Thruster fire	400	4	0	4,987,106:08:0	
62	99	129	03:53:17.866	20AA4Q	7SLEW	DIS,POS,0.0	Stator movement	400	4	0	4,987,144:42:0	
63	99	129	03:55:47.200	488AH6A	6TMSED	NORM,AH3	Sci, Eng, and D/L Chan	400	4	0	4,987,146:84:0	
64	99	129	03:58:09.866	20AA4R	7MODE	CRU	AACS CRUISE MODE	400	4	0	4,987,149:25:0	
65	99	129	04:10:43.200	488AH6B	6TMSED	NORM,AH2	Sci, Eng, and D/L Chan	400	4	0	4,987,161:63:0	
66	99	129	04:27:47.200	488AH6C	6TMSED	NORM,AH3	Sci, Eng, and D/L Chan	400	4	0	4,987,178:52:0	
67	99	129	05:00:33.866	432AB431A6A	6RCDSL	DDSCNG,PLSNCG,EP	Record Deselect (DDS o	400	4	0	4,987,210:90:0	
68	99	129	05:00:34.533	432AB6A	6RTSL1		R/T Select of DDS and	400	4	0	4,987,211:00:0	
69	99	129	05:05:41.866	20AB4A	7SAFE	STOP	S/P NO MOVEMENT	400	4	0	4,987,216:06:0	
70	99	129	05:06:31.866	20AB4B	7SLEW	DIS,POS,0.0	Stator movement	400	4	0	4,987,216:81:0	
71	99	129	05:07:39.200	176AC6A	6TMREC	RPB	RESUME PLAYBACK (PB CONTROL) Record Mode	400	4	0	4,987,218:00:0	
72	99	129	05:08:19.200	488AH6D	6TMSED	NORM,AH4	Sci, Eng, and D/L Chan	400	4	0	4,987,218:60:0	
73	99	129	07:00:59.866	488AH6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	4,987,330:09:0	
74	99	129	07:01:54.533	176SC6A	6TMREC	RPB	RESUME PLAYBACK (PB CONTROL) Record Mode	400	4	0	4,987,331:00:0	
75	99	129	11:30:11.133	488AI6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	400	4	0	4,987,596:30:0	
76	99	129	12:02:11.133	488AI6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	4,987,627:89:0	
77	99	129	13:08:19.133	488AI6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	4,987,693:35:0	
78	99	129	13:10:07.133	488AI6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	400	4	0	4,987,695:15:0	
79	99	129	13:43:46.466	488AI6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	4,987,728:41:0	
80	99	129	18:34:43.133	488AJ6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	4,988,016:18:0	
81	99	129	18:51:47.133	488AJ6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	4,988,033:07:0	
82	99	129	20:10:36.466	488AJ6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	400	4	0	4,988,111:03:0	
83	99	129	20:17:07.133	488AJ6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	400	4	0	4,988,117:43:0	
84	99	129	20:41:59.800	488AJ6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	4,988,142:07:0	
85	99	130	02:24:03.133	488AK6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	4,988,480:34:0	
86	99	130	02:42:28.466	488AK6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	400	4	0	4,988,498:54:0	
87	99	130	02:49:39.133	488AK6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	400	4	0	4,988,505:63:0	
88	99	130	04:12:15.800	488AK6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	400	4	0	4,988,587:36:0	
89	99	130	04:53:23.133	488AK6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	4,988,628:06:0	
90	99	130	05:33:01.800	488AL6A	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	400	4	0	4,988,667:25:0	
91	99	130	06:10:05.800	488AL6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	4,988,703:85:0	
92	99	130	06:48:35.133	488AL6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	4,988,742:00:0	
93	99	130	11:34:27.133	488AM6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	4,989,024:66:0	
94	99	130	12:08:35.133	488AM6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	4,989,058:44:0	
95	99	130	13:10:05.133	488AM6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	400	4	0	4,989,119:28:0	
96	99	130	13:48:51.133	488AM6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	400	4	0	4,989,157:59:0	
97	99	131	04:12:17.733	488AN6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	400	4	0	4,990,011:55:0	
98	99	131	04:46:59.066	488AN6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	4,990,045:83:0	
99	99	131	05:32:58.400	488AN6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	400	4	0	4,990,091:36:0	
100	99	131	06:10:02.400	488AN6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	4,990,128:05:0	
101	99	131	06:40:59.733	432MR6A	6RTSL1		R/T Select of DDS and	400	4	0	4,990,158:61:0	
102	99	131	06:42:11.066	488AN6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	4,990,159:77:0	
103	99	131	09:27:39.733	488AO6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	400	4	0	4,990,323:46:0	
104	99	131	09:34:59.066	488AO6B	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	400	4	0	4,990,330:68:0	
105	99	131	11:27:19.066	488AO6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	400	4	0	4,990,441:77:0	
106	99	131	11:32:19.066	488AO6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	4,990,446:72:0	
107	99	131	12:02:11.066	488AO6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	4,990,476:30:0	
108	99	131	18:24:03.066	488AP6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	4,990,854:00:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
109	99	131	18:43:15.066	488AP6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	4,990,872:90:0	
110	99	131	20:12:51.066	488AP6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	4,990,961:55:0	
111	99	131	23:59:44.333	176MA6A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	400	4	0	4,991,186:00:0	
112	99	132	02:15:31.000	488AQ6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	4,991,320:26:0	
113	99	132	03:45:07.000	488AQ6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	4,991,408:82:0	
114	99	132	03:52:48.333	488AQ6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	400	4	0	4,991,416:46:0	
115	99	132	04:00:03.000	488AQ6D	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	400	4	0	4,991,423:61:0	
116	99	132	04:36:19.000	488AQ6E	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	400	4	0	4,991,459:49:0	
117	99	132	11:22:21.666	488AR6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	400	4	0	4,991,861:11:0	
118	99	132	11:29:19.000	176MB6A	6TMREC	RPB	RESUME PLAYBACK (PB CONTROL) Record Mode	400	4	0	4,991,868:00:0	
119	99	132	11:32:19.000	488AR6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	4,991,870:88:0	
120	99	132	12:02:11.000	488AR6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	4,991,900:46:0	
121	99	132	18:24:03.000	488AS6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	4,992,278:16:0	
122	99	132	18:43:15.000	488AS6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	4,992,297:15:0	
123	99	132	20:12:51.000	488AS6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	4,992,385:71:0	
124	99	132	22:44:44.333	176MC6A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	400	4	0	4,992,536:00:0	
125	99	133	02:09:07.000	488AT6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	4,992,738:12:0	
126	99	133	03:45:07.000	488AT6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	4,992,833:07:0	
127	99	133	03:51:34.333	488AT6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	400	4	0	4,992,839:42:0	
128	99	133	04:00:03.000	488AT6D	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	400	4	0	4,992,847:77:0	
129	99	133	04:36:19.000	488AT6E	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	400	4	0	4,992,883:65:0	
130	99	133	18:59:04.933	176MD6A	6TMREC	RPB	RESUME PLAYBACK (PB CONTROL) Record Mode	400	4	0	4,993,737:00:0	
131	99	133	20:30:18.933	488AU6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	4,993,827:21:0	
132	99	133	21:59:03.600	176ME6A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	400	4	0	4,993,915:00:0	
133	99	133	22:41:00.266	432MT6A	6RTSL1		R/T Select of DDS and	400	4	0	4,993,956:44:0	
134	99	133	23:27:01.600	176ST6A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	400	4	0	4,994,002:00:0	
135	99	133	23:32:00.266	20UQ4B	7SLEW	DIS,POS,0.0	Stator movement	400	4	0	4,994,006:84:0	
136	99	133	23:33:00.266	20UQ4D	7MODE	SPNL	AACS ALL-SPIN LOW	400	4	0	4,994,007:83:0	
137	99	133	23:35:00.266	20UQ4E	7SAFE	UNSTOW	S/P TO 153 deg cone	400	4	0	4,994,009:81:0	
138	99	133	23:40:30.266	20UQ4G	7VENT	0.611,1.333,8	ALERT -- Thruster fire	400	4	0	4,994,015:30:0	
139	99	133	23:40:30.933	20UQ4H	7VENT	0.611,10.989,8	ALERT -- Thruster fire	400	4	0	4,994,015:31:0	
140	99	133	23:40:50.933	20UQ4I	7VENT	0.611,1.333,6	ALERT -- Thruster fire	400	4	0	4,994,015:61:0	
141	99	133	23:40:51.600	20UQ4J	7VENT	0.611,10.989,6	ALERT -- Thruster fire	400	4	0	4,994,015:62:0	
142	99	133	23:41:11.600	20UQ4K	7VENT	0.611,1.333,4	ALERT -- Thruster fire	400	4	0	4,994,016:01:0	
143	99	133	23:41:12.266	20UQ4L	7VENT	0.611,0.666,5	ALERT -- Thruster fire	400	4	0	4,994,016:02:0	
144	99	133	23:41:22.266	20UQ4M	7VENT	0.611,1.333,4	ALERT -- Thruster fire	400	4	0	4,994,016:17:0	
145	99	133	23:41:22.933	20UQ4N	7VENT	0.611,0.666,5	ALERT -- Thruster fire	400	4	0	4,994,016:18:0	
146	99	133	23:41:32.933	20UQ4O	7VENT	1.211,1.333,10	ALERT -- Thruster fire	400	4	0	4,994,016:33:0	
147	99	133	23:41:33.600	20UQ4P	7VENT	1.211,0.666,12	ALERT -- Thruster fire	400	4	0	4,994,016:34:0	
148	99	133	23:43:20.266	20UQ4S	7VENT	0.611,1.333,7	ALERT -- Thruster fire	400	4	0	4,994,018:12:0	
149	99	133	23:43:20.933	20UQ4T	7VENT	0.611,10.989,7	ALERT -- Thruster fire	400	4	0	4,994,018:13:0	
150	99	133	23:43:40.933	20UQ4U	7VENT	0.611,1.333,1	ALERT -- Thruster fire	400	4	0	4,994,018:43:0	
151	99	133	23:43:41.600	20UQ4V	7VENT	0.611,10.989,1	ALERT -- Thruster fire	400	4	0	4,994,018:44:0	
152	99	133	23:44:01.600	20UQ4AC	7VENT	0.611,1.333,2	ALERT -- Thruster fire	400	4	0	4,994,018:74:0	
153	99	133	23:44:02.266	20UQ4AD	7VENT	0.611,0.666,3	ALERT -- Thruster fire	400	4	0	4,994,018:75:0	
154	99	133	23:44:12.266	20UQ4AE	7VENT	0.611,1.333,2	ALERT -- Thruster fire	400	4	0	4,994,018:90:0	
155	99	133	23:44:12.933	20UQ4AF	7VENT	0.611,0.666,3	ALERT -- Thruster fire	400	4	0	4,994,019:00:0	
156	99	133	23:44:22.933	20UQ4AW	7VENT	1.211,1.333,9	ALERT -- Thruster fire	400	4	0	4,994,019:15:0	
157	99	133	23:44:23.600	20UQ4X	7VENT	1.211,0.666,11	ALERT -- Thruster fire	400	4	0	4,994,019:16:0	
158	99	133	23:45:20.266	20UQ4Z	7MODE	CRU	AACS CRUISE MODE	400	4	0	4,994,020:10:0	
159	99	134	00:00:59.600	432OB431A6A	6RCDLSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	400	4	0	4,994,035:54:0	
160	99	134	00:01:00.266	432OB6A	6RTSL1		R/T Select of DDS and	400	4	0	4,994,035:55:0	
161	99	134	00:10:04.266	20UJ4A	7SAFE	STOP	S/P NO MOVEMENT	400	4	0	4,994,044:52:0	
162	99	134	00:10:54.266	20UJ4B	7SLEW	DIS,POS,0.0	Stator movement	400	4	0	4,994,045:36:0	
163	99	134	02:04:50.933	488AU6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	4,994,158:08:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
164	99	134	03:40:50.933	488AV6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	400	4	0	4,994,253:03:0	
165	99	134	04:08:34.933	488AV6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	4,994,280:42:0	
166	99	134	04:53:22.933	488AV6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	4,994,324:70:0	
167	99	134	05:22:33.600	488AV6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	400	4	0	4,994,353:57:0	
168	99	134	05:29:38.933	488AV6E	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	400	4	0	4,994,360:58:0	
169	99	134	11:22:27.600	488AW6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	400	4	0	4,994,709:52:0	
170	99	134	11:47:14.933	488AW6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	4,994,734:08:0	
171	99	134	12:54:08.266	488AW6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	400	4	0	4,994,800:22:0	
172	99	134	12:57:38.933	488AW6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	400	4	0	4,994,803:65:0	
173	99	134	13:28:33.600	488AW6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	4,994,834:26:0	
174	99	134	13:39:23.600	176MIF6A	6TMREC	RPB	RESUME PLAYBACK (PB CONTROL) Record Mode	400	4	0	4,994,845:00:0	
175	99	134	18:19:46.866	488AX6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	4,995,122:28:0	
176	99	134	18:36:50.866	488AX6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	4,995,139:17:0	
177	99	134	19:54:53.533	488AX6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	400	4	0	4,995,216:34:0	
178	99	134	20:19:14.866	488AX6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	400	4	0	4,995,240:42:0	
179	99	134	20:25:33.533	488AX6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	4,995,246:64:0	
180	99	135	02:00:34.866	488AY6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	4,995,578:04:0	
181	99	135	03:34:26.866	488AY6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	4,995,670:80:0	
182	99	135	03:42:20.866	488AY6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	400	4	0	4,995,678:63:0	
183	99	135	03:49:22.866	488AY6D	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	400	4	0	4,995,685:59:0	
184	99	135	03:59:49.533	432NC6B	6RTD52	NIMNCG,AACDSL,RT	AACS DESELECT	400	4	0	4,995,695:89:0	
185	99	135	04:25:38.866	488AY6E	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	400	4	0	4,995,721:47:0	
186	99	136	00:00:00.133	481UA4A	7VECT		Inert vect update UTC	400	4	0	4,996,882:88:0	
187	99	136	03:57:32.800	488AZ6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	400	4	0	4,997,117:82:0	
188	99	136	04:32:02.800	488AZ6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	4,997,152:02:0	
189	99	136	05:12:44.800	488AZ6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	400	4	0	4,997,192:25:0	
190	99	136	05:49:48.800	488AZ6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	4,997,228:85:0	
191	99	136	06:48:34.800	488AZ6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	4,997,287:05:0	
192	99	136	09:12:48.800	488BA6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	400	4	0	4,997,429:64:0	
193	99	136	09:20:02.800	488BA6B	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	400	4	0	4,997,436:78:0	
194	99	136	11:12:34.133	488BA6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	400	4	0	4,997,548:13:0	
195	99	136	11:17:22.800	488BA6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	4,997,552:82:0	
196	99	136	11:53:38.800	488BA6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	4,997,588:70:0	
197	99	136	18:15:30.800	488BB6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	4,997,966:40:0	
198	99	136	18:32:34.800	488BB6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	4,997,983:29:0	
199	99	136	20:08:34.800	488BB6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	4,998,078:24:0	
200	99	137	01:49:54.800	488BC6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	4,998,415:77:0	
201	99	137	03:22:28.133	488BC6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	400	4	0	4,998,507:35:0	
202	99	137	03:25:54.800	488BC6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	400	4	0	4,998,510:72:0	
203	99	137	04:03:35.466	488BC6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	4,998,548:05:0	
204	99	137	04:42:42.800	488BC6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	4,998,586:68:0	
205	99	137	07:28:04.733	488BD6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	400	4	0	4,998,750:27:0	
206	99	137	07:35:30.733	488BD6B	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	400	4	0	4,998,757:59:0	
207	99	137	17:00:04.066	431MA6A	6RCSEL	DDSEL,PLSNCG,EP	Record Select (DDS on)	400	4	0	4,999,316:00:0	
208	99	138	03:52:40.066	488BE6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	400	4	0	4,999,961:39:0	
209	99	138	04:32:02.733	488BE6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	5,000,000:34:0	
210	99	138	05:07:37.400	488BE6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	400	4	0	5,000,035:51:0	
211	99	138	05:44:41.400	488BE6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	5,000,072:20:0	
212	99	138	06:57:06.733	488BE6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	5,000,143:77:0	
213	99	138	10:56:02.733	488BF6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	400	4	0	5,000,380:14:0	
214	99	138	11:13:06.733	488BF6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	5,000,397:03:0	
215	99	138	11:47:14.733	488BF6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	5,000,430:72:0	
216	99	138	12:29:41.400	488BF6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	400	4	0	5,000,472:70:0	
217	99	138	13:03:20.733	488BF6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	5,000,506:05:0	
218	99	138	13:43:32.733	488BG6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	400	4	0	5,000,545:74:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
219	99	138	13:50:58.733	488BG6B	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	400	4	0	5,000,553:15:0	
220	99	138	18:13:41.333	488BG6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	5,000,812:90:0	
221	99	138	18:28:18.666	488BG6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	5,000,827:41:0	
222	99	138	18:29:56.666	20NNPC:TRLT01-		-----START-----		400	4	0	:	
223	99	138	18:30:00.666	41FB3A	40T1PR		1 PCT Heater 1 OFF (primary relay)	400	4	0	5,000,829:12:0	
224	99	138	18:30:10.666	41FB3B	40T1PR		2 PCT Heater 1 OFF (primary relay)	400	4	0	5,000,829:27:0	
225	99	138	18:30:20.666	41FB3C	40T2R		1 PCT Heater 2 OFF	400	4	0	5,000,829:42:0	
226	99	138	18:30:30.666	41FB3D	40T2R		2 PCT Heater 2 OFF	400	4	0	5,000,829:57:0	
227	99	138	20:08:34.666	488BH6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	5,000,926:56:0	
228	99	139	00:33:52.666	176FB6A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	400	4	0	5,001,189:00:0	
229	99	139	00:37:01.333	444FB443A4A	7SAFE	UNSTOW	S/P TO 153 deg cone	400	4	0	5,001,192:10:0	
230	99	139	00:41:01.333	444FB443A4B	7MODE	SPNL	AACS ALL-SPIN LOW	400	4	0	5,001,196:06:0	
231	99	139	00:50:01.333	444FB443A4C	7CLK	17.45:0.0	Check S/P Position	400	4	0	5,001,204:88:0	
232	99	139	00:53:00.666	125FB	NIMSINIT	GS	##### GROUP START INIT	400	4	0	5,001,207:84:0	
233	99	139	00:53:00.666	125FB4A	37IST	1,0,0,OFF,0,0,0	Chopper ON, Sync, 63Hz (Ref)	460	4	0	5,001,207:84:0	
234	99	139	00:54:01.333	125FB4B	37IST	1,2,0,OFF,0,1,1	Chopper ON, Sync, Chopper (Ref)Gain State	460	4	0	5,001,208:84:0	
235	99	139	00:55:02.000	125FB11A	NIMSINIT	GE	##### GROUP END INIT	4R0	4	0	5,001,209:84:0	
236	99	139	00:55:02.000	125FB4C	37MB	1B,1B,0,0,0,0	Selects mirror (spatial) edit table	4R0	4	0	5,001,209:84:0	
237	99	139	00:58:04.000	127FB	NIMSTAB	GS	%%%%GROUP START TAB	4R0	4	0	5,001,212:84:0	
238	99	139	00:58:04.000	127FB4A	37IOP	3,0	Long Map, Grating Start Position =00	4R3	4	0	5,001,212:84:0	
239	99	139	00:58:04.666	127FB4B	37ETB	0A,CA,19,FF,C0,1	Loads wavelength edit table	4R3	4	0	5,001,212:85:0	
240	99	139	00:58:12.666	127FB11A	NIMSTAB	GE	%%%%GROUP END TAB	4R3	4	0	5,001,213:06:0	
241	99	139	00:58:28.666	432FB6A	6RTSL2	NIMSEL,AACNCG,RT	NIMS R/T SELECT	4R3	4	0	5,001,213:30:0	
242	99	139	01:00:28.666	432FC6A	6RTDS2	NIMDSL,AACNCG,RT	NIMS R/T DESELECT	4R3	4	0	5,001,215:28:0	
243	99	139	01:01:10.666	192FC4A	7CONE	17.0,54.88	Check S/P Position	4R3	4	0	5,001,216:00:0	
244	99	139	01:01:11.333	192FC4B	7CLK	17.0,244.07	Check S/P Position	4R3	4	0	5,001,216:01:0	
245	99	139	01:04:32.666	432FD6A	6RTSL2	NIMSEL,AACNCG,RT	NIMS R/T SELECT	4R3	4	0	5,001,219:30:0	
246	99	139	01:14:38.000	432FE6A	6RTDS2	NIMDSL,AACNCG,RT	NIMS R/T DESELECT	4R3	4	0	5,001,229:28:0	
247	99	139	01:15:15.333	127FE4A	37IOP	0,0	Safe, Grating Start Position =00	4R0	4	0	5,001,229:84:0	
248	99	139	01:15:15.333	127FE	NIMSTAB	GS	%%%%GROUP START TAB	4R0	4	0	5,001,229:84:0	
249	99	139	01:15:16.000	127FE4B	37ETB	04,C4,02,00,00	Loads wavelength edit table	4R0	4	0	5,001,229:85:0	
250	99	139	01:15:24.000	127FE11A	NIMSTAB	GE	%%%%GROUP END TAB	4R0	4	0	5,001,230:06:0	
251	99	139	01:15:24.000	20FE4A	7SAFE	UNSTOW	S/P TO 153 deg cone	4R0	4	0	5,001,230:06:0	
252	99	139	01:17:16.666	125FE4A	37IST	1,0,0,OFF,0,0,0	Chopper ON, Sync, 63Hz (Ref)	460	4	0	5,001,231:84:0	
253	99	139	01:17:16.666	125FE	NIMSINIT	GS	##### GROUP START INIT	460	4	0	5,001,231:84:0	
254	99	139	01:18:17.333	125FE4B	37IST	1,1,0,OFF,0,0,0	Chopper OFF, N/A, 63Hz (Ref)	400	4	0	5,001,232:84:0	
255	99	139	01:19:18.000	125FE4C	37MB	0,0,0,0,0,0	Selects mirror (spatial) edit table	400	4	0	5,001,233:84:0	
256	99	139	01:19:18.000	125FE11A	NIMSINIT	GE	##### GROUP END INIT	400	4	0	5,001,233:84:0	
257	99	139	01:20:30.000	444FF443A4A	7SAFE	UNSTOW	S/P TO 153 deg cone	400	4	0	5,001,235:10:0	
258	99	139	01:24:30.000	444FF443A4B	7MODE	CRU	AACS CRUISE MODE	400	4	0	5,001,239:06:0	
259	99	139	01:34:36.666	41FG99A	POWER	PWR MODE change	Change to Maneuver/Playback Mode	400	4	0	5,001,249:06:0	
260	99	139	01:34:58.666	488BH6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	5,001,249:39:0	
261	99	139	01:36:30.666	41FG3G	40T1P		1 PCT Heater 1 ON (primary relay)	400	4	0	5,001,250:86:0	
262	99	139	01:36:40.666	41FG3H	40T1P		2 PCT Heater 1 ON (primary relay)	400	4	0	5,001,251:10:0	
263	99	139	01:36:50.666	41FG3I	40T2		1 PCT Heater 2 ON	400	4	0	5,001,251:25:0	
264	99	139	01:37:00.666	41FG3J	40T2		2 PCT Heater 2 ON	400	4	0	5,001,251:40:0	
265	99	139	01:38:43.333	20FH4A	7SAFE	STOP	S/P NO MOVEMENT	400	4	0	5,001,253:12:0	
266	99	139	01:39:33.333	20FH4B	7SLEW	DIS,POS,0.0	Stator movement	400	4	0	5,001,253:87:0	
267	99	139	01:40:36.666	176FH6A	6TMREC	RPB	RESUME PLAYBACK (PB CONTROL) Record Mode	400	4	0	5,001,255:00:0	
268	99	139	02:20:06.666	20NNPC:TRLT01-		-----STOP-----		400	4	0	:	
269	99	139	02:42:41.333	488BI6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	400	4	0	5,001,316:36:0	
270	99	139	02:49:38.666	488BI6B	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	400	4	0	5,001,323:25:0	
271	99	139	11:02:44.000	488BJ6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	400	4	0	5,001,810:86:0	
272	99	139	11:13:06.666	488BJ6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	5,001,821:19:0	
273	99	139	11:42:58.666	488BJ6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	5,001,850:68:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
274	99	139	18:04:50.666	488BK6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	5,002,228:38:0	
275	99	139	18:24:02.666	488BK6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	5,002,247:37:0	
276	99	139	20:08:34.666	488BK6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	5,002,350:72:0	
277	99	139	20:46:18.000	488BK6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	400	4	0	5,002,388:09:0	
278	99	139	20:51:14.666	488BK6E	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	400	4	0	5,002,392:90:0	
279	99	140	18:08:48.600	488BL6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	5,003,656:47:0	
280	99	140	18:24:02.600	488BL6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	5,003,671:53:0	
281	99	140	20:08:34.600	488BL6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	5,003,774:88:0	
282	99	141	01:26:26.600	488BM6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	5,004,089:31:0	
283	99	141	03:10:58.600	488BM6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	5,004,192:66:0	
284	99	141	03:30:10.600	488BM6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	400	4	0	5,004,211:65:0	
285	99	141	04:23:30.600	488BM6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	5,004,264:42:0	
286	99	141	04:57:26.600	488BM6E	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	400	4	0	5,004,298:02:0	
287	99	141	05:34:30.600	488BN6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	5,004,334:62:0	
288	99	141	07:18:26.533	488BN6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	5,004,437:43:0	
289	99	141	10:41:06.533	488BN6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	5,004,637:83:0	
290	99	141	10:58:10.533	488BN6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	400	4	0	5,004,654:72:0	
291	99	141	11:13:06.533	488BN6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	5,004,669:51:0	
292	99	141	11:38:42.533	488BO6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	5,004,694:80:0	
293	99	141	12:29:29.200	488BO6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	400	4	0	5,004,745:09:0	
294	99	141	13:03:08.533	488BO6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	5,004,778:35:0	
295	99	141	17:02:58.533	488BO6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	5,005,015:53:0	
296	99	141	18:00:34.533	488BP6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	5,005,072:50:0	
297	99	141	18:17:38.533	488BP6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	5,005,089:39:0	
298	99	141	19:23:46.533	488BP6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	5,005,154:76:0	
299	99	141	19:52:59.866	488BP6D	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	400	4	0	5,005,183:67:0	
300	99	141	19:57:18.533	176TF6A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	400	4	0	5,005,188:00:0	
301	99	141	20:05:59.866	20WC4C	7STAT	10.00,203.5,-7.8	Stator inertial point	400	4	0	5,005,196:54:0	
302	99	141	20:25:01.866	490UA412A4B	7MODE	INT	AACS INERTIAL MODE	400	4	0	5,005,215:38:0	
303	99	141	20:29:59.866	490UA412A4D	7SAFE	UNSTOW	SIP TO 153 deg cone	400	4	0	5,005,220:30:0	
304	99	141	20:34:09.866	20WC4D	7STAT	17.45,203.5,-7.8	Stator inertial point	400	4	0	5,005,220:60:0	
305	99	141	20:34:09.866	490UA412A4E	7VECT	RTH	Inert vect update UTC	400	4	0	5,005,224:41:0	
306	99	141	20:34:13.866	490UA412A4F	7TURN	2,RTH	ALERT Thruster	400	4	0	5,005,224:47:0	
307	99	141	20:38:01.866	490UA412A406A4A	7STAR	11,701,278.81	Star catalog update	400	4	0	5,005,228:25:0	
308	99	141	20:38:03.866	490UA412A406A4B	7STAR	2,111,285,778,13	Star catalog update	400	4	0	5,005,228:28:0	
309	99	141	20:38:05.866	490UA412A406A4C	7STAR	3,350,120.46	Star catalog update	400	4	0	5,005,228:31:0	
310	99	141	20:38:07.866	490UA412A406A4D	7STAR	4,0,0,0,0,0,0	Star catalog update	400	4	0	5,005,228:34:0	
311	99	141	20:38:09.866	490UA412A406A4E	7STAR	5,0,0,0,0,0,0	Star catalog update	400	4	0	5,005,228:37:0	
312	99	141	20:38:11.866	490UA412A406A4F	7STAR	6,0,0,0,0,0,0	Star catalog update	400	4	0	5,005,228:40:0	
313	99	141	20:48:05.866	20WC4F	7SLEW	DIS,POS:0,0	Stator movement	400	4	0	5,005,238:21:0	
314	99	141	20:56:09.866	490UA412A4A	7MODE	CRU	AACS CRUISE MODE	400	4	0	5,005,246:19:0	
315	99	141	22:30:03.866	20TA4A	7SAFE	STOP	S/IP NO MOVEMENT	400	4	0	5,005,339:07:0	
316	99	141	22:30:53.866	20TA4B	7SLEW	DIS,POS:0,0	Stator movement	400	4	0	5,005,339:82:0	
317	99	141	22:31:59.866	488BP6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	5,005,340:90:0	
318	99	141	22:32:00.533	176TG6A	6TMREC	RPB	RESUME PLAYBACK (PB CONTROL) Record Mode	400	4	0	5,005,341:00:0	
319	99	142	02:04:50.533	488BQ6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	5,005,551:45:0	
320	99	142	03:19:30.533	488BQ6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	5,005,625:31:0	
321	99	142	04:04:18.533	488BQ6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	5,005,669:59:0	
322	99	142	13:50:58.533	488BR6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	5,006,249:79:0	
323	99	142	14:20:50.533	488BR6B	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	400	4	0	5,006,279:37:0	
324	99	142	14:37:54.533	488BR6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	400	4	0	5,006,296:26:0	
325	99	142	18:03:56.466	488BR6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	5,006,500:05:0	
326	99	142	18:13:22.466	488BR6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	5,006,509:35:0	
327	99	142	19:13:06.466	488BS6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	5,006,568:42:0	
328	99	143	02:11:14.466	488BT6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	5,006,982:00:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
329	99	143	03:15:01.133	488BT6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	400	4	0	5,007,045:07:0	
330	99	143	03:19:30.466	488BT6C	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	400	4	0	5,007,049:47:0	
331	99	143	03:55:46.466	488BT6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	400	4	0	5,007,085:35:0	
332	99	143	13:15:53.800	488BU6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	5,007,639:32:0	
333	99	143	17:49:54.466	488BU6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	5,007,910:32:0	
334	99	143	18:09:06.466	488BU6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	5,007,929:31:0	
335	99	143	19:08:50.466	488BU6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	5,007,988:38:0	
336	99	144	02:11:14.400	488BV6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	5,008,406:16:0	
337	99	144	03:10:37.066	488BV6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	400	4	0	5,008,464:82:0	
338	99	144	03:15:14.400	488BV6C	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	400	4	0	5,008,469:43:0	
339	99	144	03:51:30.400	488BV6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	400	4	0	5,008,505:31:0	
340	99	144	06:22:43.733	488BV6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	5,008,654:82:0	
341	99	144	13:50:58.400	488BW6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	5,009,098:20:0	
342	99	144	14:14:40.400	488BW6B	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	400	4	0	5,009,121:60:0	
343	99	144	14:20:50.400	488BW6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	400	4	0	5,009,127:69:0	
344	99	145	03:13:07.066	488BX6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	400	4	0	5,009,891:50:0	
345	99	145	03:19:30.400	488BX6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	5,009,897:79:0	
346	99	145	03:42:58.400	488BX6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	5,009,921:07:0	
347	99	145	10:34:42.333	488BY6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	400	4	0	5,010,328:26:0	
348	99	145	11:04:34.333	488BY6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	5,010,357:75:0	
349	99	145	11:34:26.333	488BY6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	5,010,387:33:0	
350	99	145	12:14:13.000	488BY6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	400	4	0	5,010,426:64:0	
351	99	145	12:47:52.333	488BY6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	5,010,459:90:0	
352	99	145	18:53:54.333	488BZ6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	5,010,822:00:0	
353	99	145	19:26:57.666	488BZ6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	400	4	0	5,010,854:63:0	
354	99	145	19:56:03.666	488BZ6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	5,010,883:43:0	
355	99	146	02:11:14.333	488CA6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	5,011,254:48:0	
356	99	146	03:06:13.666	488CA6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	400	4	0	5,011,308:83:0	
357	99	146	03:10:58.333	488CA6C	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	400	4	0	5,011,313:55:0	
358	99	146	03:47:14.333	488CA6D	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	400	4	0	5,011,349:43:0	
359	99	146	10:44:12.333	488CB6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	5,011,761:78:0	
360	99	146	10:53:54.333	488CB6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	5,011,771:41:0	
361	99	146	12:38:26.333	488CB6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	5,011,874:76:0	
362	99	146	15:16:27.600	488CB6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	400	4	0	5,012,031:11:0	
363	99	146	15:20:34.266	488CB6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	400	4	0	5,012,035:17:0	
364	99	146	17:52:54.266	488CC6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	5,012,185:77:0	
365	99	146	18:49:38.266	488CC6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	5,012,241:87:0	
366	99	146	21:44:34.266	488CC6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	400	4	0	5,012,414:88:0	
367	99	146	23:16:18.266	488CC6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	5,012,505:63:0	
368	99	147	02:11:14.266	488CD6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	5,012,678:64:0	
369	99	147	03:05:14.266	488CD6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	400	4	0	5,012,732:10:0	
370	99	147	03:10:58.266	488CD6C	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	400	4	0	5,012,737:71:0	
371	99	147	03:47:14.266	488CD6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	400	4	0	5,012,773:59:0	
372	99	147	17:47:58.266	488CE6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	5,013,605:13:0	
373	99	147	17:57:56.266	176SV6A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	400	4	0	5,013,615:00:0	
374	99	147	18:02:00.266	20UR4B	7SLEW	DIS,POS,0.0	Stator movement	400	4	0	5,013,619:02:0	
375	99	147	18:03:00.266	20UR4D	7MODE	SPNL	AACS ALL-SPIN LOW	400	4	0	5,013,620:01:0	
376	99	147	18:05:00.266	20UR4E	7SAFE	UNSTOW	S/P TO 153 deg cone	400	4	0	5,013,621:90:0	
377	99	147	18:10:30.266	20UR4G	7VENT	0.611,1.333,8	ALERT -- Thruster fire	400	4	0	5,013,627:39:0	
378	99	147	18:10:30.933	20UR4H	7VENT	0.611,10.989,8	ALERT -- Thruster fire	400	4	0	5,013,627:40:0	
379	99	147	18:10:50.933	20UR4I	7VENT	0.611,1.333,6	ALERT -- Thruster fire	400	4	0	5,013,627:70:0	
380	99	147	18:10:51.600	20UR4J	7VENT	0.611,10.989,6	ALERT -- Thruster fire	400	4	0	5,013,627:71:0	
381	99	147	18:11:11.600	20UR4K	7VENT	0.611,1.333,4	ALERT -- Thruster fire	400	4	0	5,013,628:10:0	
382	99	147	18:11:12.266	20UR4L	7VENT	0.611,0.666,5	ALERT -- Thruster fire	400	4	0	5,013,628:11:0	
383	99	147	18:11:22.266	20UR4M	7VENT	0.611,1.333,4	ALERT -- Thruster fire	400	4	0	5,013,628:26:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
384	99	147	18:11:22.933	20UR4N	7VENT	0.611,0.666,5	ALERT -- Thruster fire	400	4	0	5,013,628:27:0	
385	99	147	18:11:32.933	20UR4O	7VENT	1.211,1.333,10	ALERT -- Thruster fire	400	4	0	5,013,628:42:0	
386	99	147	18:11:33.600	20UR4P	7VENT	1.211,0.666,12	ALERT -- Thruster fire	400	4	0	5,013,628:43:0	
387	99	147	18:13:20.266	20UR4S	7VENT	0.611,1.333,7	ALERT -- Thruster fire	400	4	0	5,013,630:21:0	
388	99	147	18:13:20.933	20UR4T	7VENT	0.611,10.989,7	ALERT -- Thruster fire	400	4	0	5,013,630:22:0	
389	99	147	18:13:40.933	20UR4U	7VENT	0.611,1.333,1	ALERT -- Thruster fire	400	4	0	5,013,630:52:0	
390	99	147	18:13:41.600	20UR4V	7VENT	0.611,10.989,1	ALERT -- Thruster fire	400	4	0	5,013,630:53:0	
391	99	147	18:14:01.600	20UR4AC	7VENT	0.611,1.333,2	ALERT -- Thruster fire	400	4	0	5,013,630:83:0	
392	99	147	18:14:02.266	20UR4AD	7VENT	0.611,0.666,3	ALERT -- Thruster fire	400	4	0	5,013,630:84:0	
393	99	147	18:14:12.266	20UR4AE	7VENT	0.611,1.333,2	ALERT -- Thruster fire	400	4	0	5,013,631:08:0	
394	99	147	18:14:12.933	20UR4AF	7VENT	0.611,0.666,3	ALERT -- Thruster fire	400	4	0	5,013,631:09:0	
395	99	147	18:14:22.933	20UR4AW	7VENT	1.211,1.333,9	ALERT -- Thruster fire	400	4	0	5,013,631:24:0	
396	99	147	18:14:23.600	20UR4X	7VENT	1.211,0.666,11	ALERT -- Thruster fire	400	4	0	5,013,631:25:0	
397	99	147	18:15:20.266	20UR4Z	7MODE	CRU	AACS CRUISE MODE	400	4	0	5,013,632:19:0	
398	99	147	18:40:04.266	20UK4A	7SAFE	STOP	SIP NO MOVEMENT	400	4	0	5,013,656:61:0	
399	99	147	18:40:54.266	20UK4B	7SLEW	DIS,POS,0.0	Stator movement	400	4	0	5,013,657:45:0	
400	99	147	18:42:25.600	176SW6A	6TMREC	RPB	RESUME PLAYBACK (PB CONTROL) Record Mode	400	4	0	5,013,659:00:0	
401	99	147	18:43:14.266	488CE6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	5,013,659:73:0	
402	99	147	21:14:42.266	488CE6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	400	4	0	5,013,809:55:0	
403	99	147	23:41:54.200	488CE6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	5,013,955:17:0	
404	99	148	02:11:14.200	488CF6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	5,014,102:80:0	
405	99	148	03:00:18.200	488CF6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	400	4	0	5,014,151:37:0	
406	99	148	03:19:30.200	488CF6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	5,014,170:36:0	
407	99	148	04:08:34.200	488CF6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	5,014,218:84:0	
408	99	148	04:39:01.533	488CF6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	400	4	0	5,014,249:04:0	
409	99	148	05:12:40.200	488CG6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	5,014,282:29:0	
410	99	148	05:14:16.866	488CG6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	400	4	0	5,014,580:56:0	
411	99	148	10:21:54.200	488CG6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	400	4	0	5,014,588:14:0	
412	99	148	10:34:21.533	488CG6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	5,014,600:43:0	
413	99	148	10:43:14.200	488CG6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	5,014,609:23:0	
414	99	148	11:48:59.533	488CH6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	400	4	0	5,014,674:26:0	
415	99	148	12:19:14.200	488CH6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	400	4	0	5,014,704:18:0	
416	99	148	12:21:36.866	488CH6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	5,014,706:50:0	
417	99	148	17:41:22.200	488CH6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	5,015,022:72:0	
418	99	148	18:34:42.200	488CH6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	5,015,075:49:0	
419	99	148	20:53:22.200	488C6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	400	4	0	5,015,212:62:0	
420	99	148	23:56:50.200	488C6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	5,015,394:12:0	
421	99	149	02:11:14.200	488C6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	5,015,527:05:0	
422	99	149	03:00:51.533	488C6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	400	4	0	5,015,576:12:0	
423	99	149	03:06:42.200	488C6C	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	400	4	0	5,015,581:83:0	
424	99	149	03:42:58.200	488C6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	400	4	0	5,015,617:71:0	
425	99	149	04:48:05.533	488C6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	5,015,682:17:0	
426	99	149	06:03:46.200	488CK6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	5,015,757:03:0	
427	99	149	10:30:26.133	488CK6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	5,016,020:70:0	
428	99	149	11:04:34.133	488CK6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	5,016,054:48:0	
429	99	149	12:03:54.133	488CL6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	400	4	0	5,016,113:19:0	
430	99	149	12:37:33.466	488CL6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	5,016,146:45:0	
431	99	149	18:28:18.133	488CM6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	5,016,493:35:0	
432	99	149	19:11:39.466	488CM6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	400	4	0	5,016,536:24:0	
433	99	149	19:40:45.466	488CM6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	5,016,565:04:0	
434	99	149	20:34:10.133	488CM6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	400	4	0	5,016,617:79:0	
435	99	150	00:05:22.133	488CM6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	5,016,826:68:0	
436	99	150	02:11:14.133	488CN6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	5,016,951:21:0	
437	99	150	02:54:45.466	488CN6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	400	4	0	5,016,994:25:0	
438	99	150	03:00:18.133	488CN6C	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	400	4	0	5,016,999:69:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
439	99	150	03:36:34.133	488CN6D	6TMSED	FILL,AL4	Sci, Eng. and D/L Chan	400	4	0	5,017,035:57:0	
440	99	150	07:48:10.133	488CN6E	6TMSED	NORM,AL4	Sci, Eng. and D/L Chan	400	4	0	5,017,284:42:0	
441	99	150	09:18:50.133	488CO6A	6TMSED	FILL,AL4	Sci, Eng. and D/L Chan	400	4	0	5,017,374:12:0	
442	99	150	09:52:29.466	488CO6B	6TMSED	NORM,AL4	Sci, Eng. and D/L Chan	400	4	0	5,017,407:38:0	
443	99	150	12:56:05.466	176SN6A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	400	4	0	5,017,589:00:0	
444	99	150	13:02:09.466	465SA6A	6DMST		5000 DMS Slew to TIC	400	4	0	5,017,595:00:0	
445	99	150	13:02:09.466		DMS:	: *SLEW-TIC	P7, TRACK *1, *FWD, TIC 3794.20 +/- 2	400	4	0	5,017,595:00:0	
446	99	150	13:02:09.466		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 3794.20 +/- 2	400	4	0	5,017,595:00:0	
447	99	150	13:02:16.133		DMS:	: *RUNUP	P7, TRACK 1, FWD, TIC 3794.20 +/- 2	400	4	0	5,017,595:10:0	
448	99	150	13:02:17.533		DMS:	: *AT SPD	P7, TRACK 1, FWD, TIC *3794.32 +/- 2	400	4	0	5,017,595:12:1	
449	99	150	13:10:26.133	488CO6C	6TMSED	NORM,AL3	Sci, Eng. and D/L Chan	400	4	0	5,017,603:17:0	
450	99	150	13:52:51.466	488CO6D	6TMSED	FILL,AL3	Sci, Eng. and D/L Chan	400	4	0	5,017,645:13:0	
451	99	150	13:55:14.133	488CO6E	6TMSED	FILL,AL2	Sci, Eng. and D/L Chan	400	4	0	5,017,647:45:0	
452	99	150	14:10:10.133	488CP6A	6TMSED	FILL,AL4	Sci, Eng. and D/L Chan	400	4	0	5,017,662:24:0	
453	99	150	14:27:52.200		DMS:	: *RUNDOWN	P7, TRACK 1, FWD, TIC *4997.94 +/- 2	400	4	0	5,017,679:70:2	
454	99	150	14:27:53.400		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *4998.00 +/- 2	400	4	0	5,017,679:72:0	
455	99	150	17:38:13.400	488CP6B	6TMSED	NORM,AL4	Sci, Eng. and D/L Chan	400	4	0	5,017,868:03:0	
456	99	150	18:24:02.066	488CP6C	6TMSED	NORM,AL5	Sci, Eng. and D/L Chan	400	4	0	5,017,913:31:0	
457	99	150	18:55:50.733		DMS:	: *US-RUNUP	P7, TRACK 1, FWD, TIC 4998.00 +/- 2	400	4	0	5,017,944:73:0	
458	99	150	18:55:50.733	465SB6A	6DMSC	P100.4	DMS Control Tape P/B 100.8kbps	400	4	0	5,017,944:73:0	
459	99	150	18:55:52.133		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *4998.12 +/- 2	400	4	0	5,017,944:75:1	
460	99	150	18:56:57.400		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *4999.35 +/- 2	400	4	0	5,017,944:83:0	
461	99	150	18:55:58.600		DMS:	: *RUNUP	P100, TRACK 4, *REV, TIC *4999.41 +/- 2	400	4	0	5,017,944:84:8	
462	99	150	18:56:02.466		DMS:	: *AT SPD	P100, TRACK 4, REV, TIC 4993.91 +/- 2	400	4	0	5,017,944:90:6	
463	99	150	18:56:02.466		DMS:	: *P_SLEW	P100, TRACK 4, REV, TIC *4993.91 +/- 2	400	4	0	5,017,944:90:6	
464	99	150	19:21:42.733	465SB6B	6DMSC	RDY,4	DMS Control Tape stop	400	4	0	5,017,970:35:0	
465	99	150	19:21:42.733		DMS:	: *RUNDOWN	P100, TRACK 4, REV, TIC * 255.79 +/- 2	400	4	0	5,017,970:35:0	
466	99	150	19:21:43.933		DMS:	: *READY	RDY, TRACK 4, REV, TIC * 254.99 +/- 2	400	4	0	5,017,970:36:8	
467	99	150	20:19:14.066	488CQ6A	6TMSED	NORM,AL6	Sci, Eng. and D/L Chan	400	4	0	5,018,027:25:0	
468	99	150	21:21:32.066		DMS:	: *DMS-TURN	P7, TRACK 4, REV, TIC 254.99 +/- 2	400	4	0	5,018,088:81:0	
469	99	150	21:21:32.066	465SC6A	6DTRN	CMD,6DTRN,465SC6	DMS TRACK TURNAROUND	400	4	0	5,018,088:81:0	
470	99	150	21:21:32.066		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 254.99 +/- 2	400	4	0	5,018,088:81:0	
471	99	150	21:21:33.466		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *255.11 +/- 2	400	4	0	5,018,088:83:1	
472	99	150	21:21:38.733		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *256.34 +/- 2	400	4	0	5,018,089:00:0	
473	99	150	21:21:39.933		DMS:	: *RUNUP	P7, TRACK *4, *REV, TIC *256.40 +/- 2	400	4	0	5,018,089:01:8	
474	99	150	21:21:41.333		DMS:	: *AT SPD	P7, TRACK 4, REV, TIC *256.28 +/- 2	400	4	0	5,018,089:03:9	
475	99	150	21:25:09.400	488CQ6B	6TMSED	NORM,AL6	Sci, Eng. and D/L Chan	400	4	0	5,018,092:43:0	
476	99	150	21:25:42.000		DMS:	: *REVERSE	P7, TRACK 4, REV, TIC *199.87 +/- 2	400	4	0	5,018,093:00:9	
477	99	150	21:25:43.200		DMS:	: *TURNARND	P7, TRACK *1, *FWD, TIC *199.81 +/- 2	400	4	0	5,018,093:02:7	
478	99	150	21:25:43.200		DMS:	: *RUNUP	P7, TRACK 1, FWD, TIC 199.81 +/- 2	400	4	0	5,018,093:02:7	
479	99	150	21:25:44.600		DMS:	: *AT SPD	P7, TRACK 1, FWD, TIC *199.93 +/- 2	400	4	0	5,018,093:04:8	
480	99	150	21:25:56.600		DMS:	: *AUTOSTOP	P7, TRACK 1, FWD, TIC *202.06 +/- 2	400	4	0	5,018,093:22:8	
481	99	150	21:25:57.800		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *202.12 +/- 2	400	4	0	5,018,093:24:6	
482	99	150	21:31:34.733		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 202.12 +/- 2	400	4	0	5,018,098:75:0	
483	99	150	21:31:34.733	465SD6A	6DMSC	P100.1	DMS Control Tape P/B 100.8kbps	400	4	0	5,018,098:75:0	
484	99	150	21:31:41.400		DMS:	: *RUNUP	P100, TRACK 1, FWD, TIC 202.12 +/- 2	400	4	0	5,018,098:85:0	
485	99	150	21:31:45.266		DMS:	: *P_SLEW	P100, TRACK 1, FWD, TIC *207.62 +/- 2	400	4	0	5,018,098:90:8	
486	99	150	21:31:45.266		DMS:	: *AT SPD	P100, TRACK 1, FWD, TIC 207.62 +/- 2	400	4	0	5,018,098:90:8	
487	99	150	22:03:28.733		DMS:	: *RUNDOWN	P100, TRACK 1, FWD, TIC *6063.01 +/- 2	400	4	0	5,018,130:34:0	
488	99	150	22:03:28.733	465SD6B	6DMSC	RDY,1	DMS Control Tape stop	400	4	0	5,018,130:34:0	
489	99	150	22:03:29.933		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *6063.81 +/- 2	400	4	0	5,018,130:35:8	
490	99	150	22:19:04.733	465SE6A	6DMSC	P100.2	DMS Control Tape P/B 100.8kbps	400	4	0	5,018,145:73:0	
491	99	150	22:19:04.733		DMS:	: *US-RUNUP	P7, TRACK 1, FWD, TIC 6063.81 +/- 2	400	4	0	5,018,145:73:0	
492	99	150	22:19:06.133		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *6063.93 +/- 2	400	4	0	5,018,145:75:1	
493	99	150	22:19:11.400		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *6065.17 +/- 2	400	4	0	5,018,145:83:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
494	99	150	22:19:12.600		DMS:	: *RUNUP	P100, TRACK *2, *REV, TIC *6065.23 +/-	400	4	0	5,018,145:84:8	
495	99	150	22:19:16.466		DMS:	: *P SLEW	P100, TRACK 2, REV, TIC *6059.73 +/-	400	4	0	5,018,145:90:6	
496	99	150	22:19:16.466		DMS:	: *AT SPD	P100, TRACK 2, REV, TIC 6059.73 +/-	400	4	0	5,018,145:90:6	
497	99	150	22:51:12.733		DMS:	: *RUNDOWN	P100, TRACK 2, REV, TIC *164.96 +/-	400	4	0	5,018,177:53:0	
498	99	150	22:51:12.733	465SF6A	6DMSC	P100.3	DMS Control Tape P/B 100.8kpbs	400	4	0	5,018,177:53:0	
499	99	150	22:51:13.933		DMS:	: *RUNUP	P100, TRACK *3, *FWD, TIC *164.16 +/-	400	4	0	5,018,177:54:8	
500	99	150	22:51:17.800		DMS:	: *P SLEW	P100, TRACK 3, FWD, TIC *169.66 +/-	400	4	0	5,018,177:60:6	
501	99	150	22:51:17.800		DMS:	: *AT SPD	P100, TRACK 3, FWD, TIC 169.66 +/-	400	4	0	5,018,177:60:6	
502	99	150	23:23:13.400	465SF6B	6DMSC	RDY,3	DMS Control Tape stop	400	4	0	5,018,209:22:0	
503	99	150	23:23:13.400		DMS:	: *RUNDOWN	P100, TRACK 3, FWD, TIC *6062.38 +/-	400	4	0	5,018,209:22:0	
504	99	150	23:23:14.600		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *6063.18 +/-	400	4	0	5,018,209:23:8	
505	99	150	23:37:56.733	465SG6A	6DMSC	P100.4	DMS Control Tape P/B 100.8kpbs	400	4	0	5,018,223:73:0	
506	99	150	23:37:56.733		DMS:	: *US-RUNUP	P7, TRACK *1, FWD, TIC 6063.18 +/-	400	4	0	5,018,223:73:0	
507	99	150	23:37:58.133		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *6063.30 +/-	400	4	0	5,018,223:75:1	
508	99	150	23:38:03.400		DMS:	: *US RD	P7, TRACK 1, FWD, TIC *6064.53 +/-	400	4	0	5,018,223:83:0	
509	99	150	23:38:04.600		DMS:	: *RUNUP	P100, TRACK *4, *REV, TIC *6064.59 +/-	400	4	0	5,018,223:84:8	
510	99	150	23:38:08.466		DMS:	: *P SLEW	P100, TRACK 4, REV, TIC *6059.09 +/-	400	4	0	5,018,223:90:6	
511	99	150	23:38:08.466		DMS:	: *AT SPD	P100, TRACK 4, REV, TIC 6059.09 +/-	400	4	0	5,018,223:90:6	
512	99	151	00:10:04.066	465SH6A	6DMSC	P100.3	DMS Control Tape P/B 100.8kpbs	400	4	0	5,018,255:52:0	
513	99	151	00:10:04.066		DMS:	: *RUNDOWN	P100, TRACK 4, REV, TIC *166.38 +/-	400	4	0	5,018,255:52:0	
514	99	151	00:10:05.266		DMS:	: *RUNUP	P100, TRACK *3, *FWD, TIC *165.58 +/-	400	4	0	5,018,255:53:8	
515	99	151	00:10:09.133		DMS:	: *AT SPD	P100, TRACK 3, FWD, TIC 171.08 +/-	400	4	0	5,018,255:59:6	
516	99	151	00:10:09.133		DMS:	: *P SLEW	P100, TRACK 3, FWD, TIC *171.08 +/-	400	4	0	5,018,255:59:6	
517	99	151	00:11:10.066	465SH6B	6DMSC	RDY,3	DMS Control Tape stop	400	4	0	5,018,256:60:0	
518	99	151	00:11:10.066		DMS:	: *RUNDOWN	P100, TRACK 3, FWD, TIC *358.52 +/-	400	4	0	5,018,256:60:0	
519	99	151	00:11:11.266		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *359.32 +/-	400	4	0	5,018,256:61:8	
520	99	151	00:11:59.400	488CQ6C	6TMSED	NORM,AL6	Sci, Eng. and D/L Chan	400	4	0	5,018,257:43:0	
521	99	151	00:16:02.066	488CQ6D	6TMSED	NORM,AL5	Sci, Eng. and D/L Chan	400	4	0	5,018,261:43:0	
522	99	151	00:25:40.066		DMS:	: *READY	RDY, TRACK *4, *REV, TIC 359.32 +/-	400	4	0	5,018,271:00:0	
523	99	151	00:25:40.066	465SI6A	6DMSC	RDY,4	DMS Control Tape stop	400	4	0	5,018,271:00:0	
524	99	151	00:26:34.066		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 359.32 +/-	400	4	0	5,018,271:81:0	
525	99	151	00:26:34.066		DMS:	: *DMS-TURN	P7, TRACK 4, REV, TIC 359.32 +/-	400	4	0	5,018,271:81:0	
526	99	151	00:26:34.066	465SJ6A	6DTRN	CMD,6DTRN,465SJ6	DMS TRACK TURNAROUND	400	4	0	5,018,271:81:0	
527	99	151	00:26:35.466		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *359.44 +/-	400	4	0	5,018,271:83:1	
528	99	151	00:26:40.733		DMS:	: *US RD	P7, TRACK 1, FWD, TIC *360.67 +/-	400	4	0	5,018,272:00:0	
529	99	151	00:26:41.933		DMS:	: *RUNUP	P7, TRACK *4, *REV, TIC *360.73 +/-	400	4	0	5,018,272:01:8	
530	99	151	00:26:43.333		DMS:	: *AT SPD	P7, TRACK 4, REV, TIC *360.61 +/-	400	4	0	5,018,272:03:9	
531	99	151	00:38:09.133		DMS:	: *REVERSE	P7, TRACK 4, REV, TIC *199.87 +/-	400	4	0	5,018,283:31:6	
532	99	151	00:38:10.333		DMS:	: *RUNUP	P7, TRACK 1, FWD, TIC 199.81 +/-	400	4	0	5,018,283:33:4	
533	99	151	00:38:10.333		DMS:	: *TURNARND	P7, TRACK *1, *FWD, TIC *199.81 +/-	400	4	0	5,018,283:33:4	
534	99	151	00:38:11.733		DMS:	: *AT SPD	P7, TRACK 1, FWD, TIC *199.93 +/-	400	4	0	5,018,283:35:5	
535	99	151	00:38:23.733		DMS:	: *AUTOSTOP	P7, TRACK 1, FWD, TIC *202.06 +/-	400	4	0	5,018,283:53:5	
536	99	151	00:38:24.933		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *202.12 +/-	400	4	0	5,018,283:55:3	
537	99	151	00:56:04.066	20UG4A	7SAFE	STOP	S/P NO MOVEMENT	400	4	0	5,018,301:06:0	
538	99	151	00:56:54.066	20UG4B	7SLEW	DIS,POS:0.0	Stator movement	400	4	0	5,018,301:81:0	
539	99	151	00:58:01.400	176SO6A	6TMREC	RPB	RESUME PLAYBACK (PB CONTROL) Record Mode	400	4	0	5,018,303:00:0	
540	99	151	02:11:14.066	488CQ6E	6TMSED	NORM,AL4	Sci, Eng. and D/L Chan	400	4	0	5,018,375:37:0	
541	99	151	02:53:49.400	488CR6A	6TMSED	FILL,AL4	Sci, Eng. and D/L Chan	400	4	0	5,018,417:48:0	
542	99	151	02:56:02.066	488CR6B	6TMSED	FILL,AL2	Sci, Eng. and D/L Chan	400	4	0	5,018,419:65:0	
543	99	151	03:10:58.066	488CR6C	6TMSED	FILL,AL5	Sci, Eng. and D/L Chan	400	4	0	5,018,434:44:0	
544	99	151	07:56:29.400	488CR6D	6TMSED	NORM,AL5	Sci, Eng. and D/L Chan	400	4	0	5,018,716:79:0	
545	99	151	11:25:54.066	488CS6A	6TMSED	NORM,AL4	Sci, Eng. and D/L Chan	400	4	0	5,018,923:89:0	
546	99	151	13:44:10.733	488CS6B	6TMSED	FILL,AL4	Sci, Eng. and D/L Chan	400	4	0	5,019,060:67:0	
547	99	151	13:46:42.066	488CS6C	6TMSED	FILL,AL2	Sci, Eng. and D/L Chan	400	4	0	5,019,063:21:0	
548	99	152	02:53:40.000	488CT6A	6TMSED	NORM,AL2	Sci, Eng. and D/L Chan	400	4	0	5,019,841:50:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
549	99	152	02:58:10.000	488CT6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	5,019,846:00:0	
550	99	152	03:45:06.000	488CT6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	5,019,892:38:0	
551	99	152	04:18:41.333	488CT6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	400	4	0	5,019,925:58:0	
552	99	152	04:52:20.666	488CT6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	5,019,958:84:0	
553	99	152	10:11:14.000	488CU6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	5,020,274:28:0	
554	99	152	10:34:42.000	488CU6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	5,020,297:47:0	
555	99	152	11:49:22.000	488CU6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	5,020,371:33:0	
556	99	152	11:56:25.333	488CU6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	400	4	0	5,020,378:31:0	
557	99	152	12:25:31.333	488CU6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	5,020,407:11:0	
558	99	152	17:26:26.000	488CV6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	5,020,704:66:0	
559	99	152	18:13:22.000	488CV6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	5,020,751:13:0	
560	99	152	20:04:18.000	488CV6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	400	4	0	5,020,860:78:0	
561	99	153	00:16:02.000	488CW6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	5,021,109:75:0	
562	99	153	02:06:58.000	488CW6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	5,021,219:49:0	
563	99	153	02:45:58.666	488CW6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	400	4	0	5,021,258:11:0	
564	99	153	02:51:46.000	488CW6D	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	400	4	0	5,021,263:77:0	
565	99	153	03:28:02.000	488CW6E	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	400	4	0	5,021,299:65:0	
566	99	153	10:14:46.600	488CX6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	5,021,701:90:0	
567	99	153	10:24:01.933	488CX6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	5,021,711:13:0	
568	99	153	11:45:05.933	488CX6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	5,021,791:29:0	
569	99	153	17:26:25.933	488CY6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	5,022,128:82:0	
570	99	153	18:13:21.933	488CY6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	5,022,175:29:0	
571	99	153	20:00:01.933	488CY6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	400	4	0	5,022,280:74:0	
572	99	154	00:16:01.933	488CZ6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	5,022,534:00:0	
573	99	154	02:00:33.933	488CZ6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	5,022,637:35:0	
574	99	154	02:44:41.266	488CZ6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	400	4	0	5,022,681:02:0	
575	99	154	02:47:29.933	488CZ6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	400	4	0	5,022,683:73:0	
576	99	154	03:02:25.933	488CZ6E	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	400	4	0	5,022,698:52:0	
577	99	154	17:29:53.866	488DA6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	5,023,556:46:0	
578	99	154	17:58:25.866	488DA6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	5,023,584:66:0	
579	99	154	18:48:27.200	488DA6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	400	4	0	5,023,634:18:0	
580	99	154	19:22:06.533	488DA6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	5,023,667:44:0	
581	99	155	02:11:13.866	488DB6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	5,024,072:10:0	
582	99	155	02:37:32.533	488DB6B	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	400	4	0	5,024,098:12:0	
583	99	155	02:47:29.866	488DB6C	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	400	4	0	5,024,107:89:0	
584	99	155	03:23:45.866	488DB6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	400	4	0	5,024,143:77:0	
585	99	155	10:13:57.866	488DC6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	400	4	0	5,024,549:49:0	
586	99	155	10:19:45.866	488DC6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	5,024,555:25:0	
587	99	155	10:38:57.866	488DC6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	5,024,574:24:0	
588	99	155	11:38:24.533	488DC6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	400	4	0	5,024,633:05:0	
589	99	155	12:12:03.200	488DC6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	5,024,666:30:0	
590	99	155	18:04:49.866	488DD6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	5,025,015:21:0	
591	99	155	18:56:08.533	488DD6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	400	4	0	5,025,065:89:0	
592	99	155	19:25:14.533	488DD6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	5,025,094:69:0	
593	99	155	19:32:59.866	488DD6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	5,025,102:39:0	
594	99	155	19:37:37.200	176SD6A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	400	4	0	5,025,107:00:0	
595	99	155	19:48:59.866	20BA4C	7STAT	10.00,291.7804,1	Stator inertial point	400	4	0	5,025,118:23:0	
596	99	155	19:49:11.866	20BA6A	6MROH	7,6744,0,A10	read from AACSA7,6744,0,A10	400	4	0	5,025,118:41:0	
597	99	155	19:49:21.866	488DD6E	6TMSED	NORM,AH6	Sci, Eng, and D/L Chan	400	4	0	5,025,118:56:0	
598	99	155	20:09:59.866	474BA416A4B	7MODE	INT	AACS INERTIAL MODE	400	4	0	5,025,139:02:0	
599	99	155	20:11:59.866	474BA416A4D	7SAFE	UNSTOW	SIP TO 153 deg cone	400	4	0	5,025,141:00:0	
600	99	155	20:12:19.866	20BA4D	7STAT	17.45,291.7804,1	Stator inertial point	400	4	0	5,025,141:30:0	
601	99	155	20:16:13.866	474BA416A4E	7BURN	.291,780399,12.3	ALERT -- Thruster fire	400	4	0	5,025,145:17:0	
602	99	155	20:23:59.866	20BA4F	7SLEW	DIS,POS,0.0	Stator movement	400	4	0	5,025,152:79:0	
603	99	155	20:29:51.866	20BA4G	7MODE	CRU	AACS CRUISE MODE	400	4	0	5,025,158:61:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
604	99	155	20:51:07.866	20BA4L	7STAT	10.00,291.7804,1	Stator inertial point	400	4	0	5,025,179:64:0	
605	99	155	20:57:07.866	20BA4O	7MODE	INT	AACS INERTIAL MODE	400	4	0	5,025,185:58:0	
606	99	155	20:59:07.866	474BA416A4G	7BURN	T,291.780399,12.	ALERT --- Thruster fire	400	4	0	5,025,187:56:0	
607	99	155	21:07:39.866	20BA4Q	7SLEW	DIS,POS,0.0	Stator movement	400	4	0	5,025,196:05:0	
608	99	155	21:12:31.866	20BA4R	7MODE	CRU	AACS CRUISE MODE	400	4	0	5,025,200:79:0	
609	99	155	22:20:03.800	20BB4A	7SAFE	STOP	S/P NO MOVEMENT	400	4	0	5,025,267:60:0	
610	99	155	22:20:53.800	20BB4B	7SLEW	DIS,POS,0.0	Stator movement	400	4	0	5,025,268:44:0	
611	99	155	22:22:25.800	176BA6A	6TMREC	RPB	RESUME PLAYBACK (PB CONTROL) Record Mode	400	4	0	5,025,270:00:0	
612	99	156	00:11:45.800	488DE6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	5,025,378:12:0	
613	99	156	01:40:59.800	488DE6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	5,025,466:35:0	
614	99	156	01:41:37.133	176SE6A	6TMREC	RPB	RESUME PLAYBACK (PB CONTROL) Record Mode	400	4	0	5,025,467:00:0	
615	99	156	01:56:17.800	488DE6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	5,025,481:47:0	
616	99	156	02:41:05.800	488DE6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	5,025,525:75:0	
617	99	156	03:23:45.800	488DE6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	5,025,568:02:0	
618	99	156	04:13:20.466	488DF6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	400	4	0	5,025,617:05:0	
619	99	156	04:46:59.133	488DF6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	5,025,650:30:0	
620	99	156	12:50:04.466	488DG6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	400	4	0	5,026,128:10:0	
621	99	156	17:23:44.466	488DG6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	5,026,398:70:0	
622	99	156	17:58:25.800	488DG6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	5,026,433:07:0	
623	99	156	19:45:05.800	488DH6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	400	4	0	5,026,538:52:0	
624	99	157	00:11:45.800	488DH6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	5,026,802:28:0	
625	99	157	01:56:17.800	488DI6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	5,026,905:63:0	
626	99	157	02:31:05.800	488DI6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	400	4	0	5,026,940:10:0	
627	99	157	02:36:49.800	488DI6C	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	400	4	0	5,026,945:71:0	
628	99	157	03:13:05.800	488DI6D	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	400	4	0	5,026,981:59:0	
629	99	157	10:05:08.400	488DJ6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	5,027,389:15:0	
630	99	157	10:15:29.733	488DJ6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	5,027,399:37:0	
631	99	157	11:23:45.733	488DJ6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	5,027,466:84:0	
632	99	157	11:59:59.733	41XE99A	POWER	PWR MODE change	Change to Calib/Decon Mode	400	4	0	5,027,502:69:0	
633	99	157	12:00:00.000	20NNRCTL01-	-----START-----			400	4	0	:	
634	99	157	12:00:03.733	41XE3I	40T1PR		1 PCT Heater 1 OFF (primary relay)	400	4	0	5,027,502:75:0	
635	99	157	12:00:13.733	41XE3J	40T1PR		2 PCT Heater 1 OFF (primary relay)	400	4	0	5,027,502:90:0	
636	99	157	12:00:23.733	41XE3K	40T2R		1 PCT Heater 2 OFF	400	4	0	5,027,503:14:0	
637	99	157	12:00:33.733	41XE3L	40T2R		2 PCT Heater 2 OFF	400	4	0	5,027,503:29:0	
638	99	157	12:10:21.066	176XU6A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	400	4	0	5,027,513:00:0	
639	99	157	12:14:09.066	20XE4A	7SAFE	UNSTOW	S/P TO 153 deg cone	400	4	0	5,027,516:69:0	
640	99	157	12:18:15.733	20DA4A	7SAFE	STOP	S/P NO MOVEMENT	400	4	0	5,027,520:75:0	
641	99	157	12:19:05.733	20DA4B	7SLEW	DIS,POS,0.0	Stator movement	400	4	0	5,027,521:59:0	
642	99	157	12:20:27.733	176XV6A	6TMREC	RPB	RESUME PLAYBACK (PB CONTROL) Record Mode	400	4	0	5,027,523:00:0	
643	99	157	12:21:28.400	185XE10A3A	40HRP		1 RCT Heater ON (primary relay)	400	4	0	5,027,524:00:0	
644	99	157	12:21:33.733	185XE10B3A	40HRP		2 RCT Heater ON (primary relay)	400	4	0	5,027,524:08:0	
645	99	157	17:11:29.733	488DK6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	5,027,810:76:0	
646	99	157	18:00:33.733	488DK6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	5,027,859:33:0	
647	99	157	19:38:41.733	488DK6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	400	4	0	5,027,956:38:0	
648	99	158	00:11:45.733	488DL6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	5,028,226:44:0	
649	99	158	00:16:15.066	125XE	NIMSINIT	GS	##### GROUP START INIT	400	4	0	5,028,230:84:0	
650	99	158	00:16:15.066	125XE4A	37IST	1.0,0,OFF,0.0,0	Chopper ON, Sync, 63Hz (Ref)	460	4	0	5,028,230:84:0	
651	99	158	00:17:15.733	125XE4B	37IST	1.2,0,OFF,0.0,0	Chopper ON, Sync, Chopper (Ref)	4R0	4	0	5,028,231:84:0	
652	99	158	00:18:16.400	125XE4C	37IST	0.2,0,OFF,0.1,3	Gain State 1	1R0	4	0	5,028,232:84:0	
653	99	158	00:19:17.066	125XE4D	37MB	1B,1B,0,0,0,0	Selects mirror (spatial) edit table	1R0	4	0	5,028,233:84:0	
654	99	158	00:19:17.066	125XE11A	NIMSINIT	GE	##### GROUP END INIT	1R0	4	0	5,028,233:84:0	
655	99	158	00:21:18.400	127XE	NIMSTAB	GS	##### GROUP START TAB	1R0	4	0	5,028,235:84:0	
656	99	158	00:21:18.400	127XE4A	37IOP	3,0	Long Map, Grating Start Position =00	1R3	4	0	5,028,235:84:0	
657	99	158	00:21:19.066	127XE4B	37ETB	0A,CA,18,03,FF,1	Loads wavelength edit table	1R3	4	0	5,028,235:85:0	
658	99	158	00:22:09.066	127XE11A	NIMSTAB	GE	##### GROUP END TAB	1R3	4	0	5,028,236:69:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	GRIM	MF I
659	99	158	00:25:25.733	176XE6A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	1R3	4	0	5,028,240:00:0	
660	99	158	00:27:26.400	20SR4A	7SCAN	NORM,15.4315,5.1	Check S/P Position	1R3	4	0	5,028,241:90:0	
661	99	158	00:31:29.733	192XE4A	7CONE	17.0,119.7	Check S/P Position	1R3	4	0	5,028,246:00:0	
662	99	158	00:33:51.066	432XE6A	6RTSL2	NIMSEL,AACNCG,RT	NIMS R/T SELECT	1R3	4	0	5,028,248:30:0	
663	99	158	00:34:50.400	432XF6A	6RTDS2	NIMDSL,AACNCG,RT	NIMS R/T DESELECT	1R3	4	0	5,028,249:28:0	
664	99	158	00:37:33.733	192XE4B	7CONE	17.0,0.0	Check S/P Position	1R3	4	0	5,028,252:00:0	
665	99	158	00:39:55.066	432XU6A	6RTSL2	NIMSEL,AACNCG,RT	NIMS R/T SELECT	1R3	4	0	5,028,254:30:0	
666	99	158	00:41:55.066	432XV6A	6RTDS2	NIMDSL,AACNCG,RT	NIMS R/T DESELECT	1R3	4	0	5,028,256:28:0	
667	99	158	00:43:37.733	192XE4C	7CONE	17.0,119.7	Check S/P Position	1R3	4	0	5,028,258:00:0	
668	99	158	00:45:39.066	185XE10C3A	40HRPR		1 RCT Heater OFF (primary relay)	1R3	4	0	5,028,260:00:0	
669	99	158	00:45:44.400	185XE10D3A	40HRPR		2 RCT Heater OFF (primary relay)	1R3	4	0	5,028,260:08:0	
670	99	158	00:45:59.066	432XW6A	6RTSL2	NIMSEL,AACNCG,RT	NIMS R/T SELECT	1R3	4	0	5,028,260:30:0	
671	99	158	00:46:58.400	432XY6A	6RTDS2	NIMDSL,AACNCG,RT	NIMS R/T DESELECT	1R3	4	0	5,028,261:28:0	
672	99	158	00:48:36.400	125DC	NIMSNIT	GS	##### GROUP START INIT	1R3	4	0	5,028,262:84:0	
673	99	158	00:48:36.400	125DC4A	37IST	0,2,0,OFF,0,1,1	Gain State 4	4R3	4	0	5,028,262:84:0	
674	99	158	00:48:36.400	125DC11A	NIMSNIT	GE	##### GROUP END INIT	4R3	4	0	5,028,262:84:0	
675	99	158	00:49:37.066	127DC	NIMSTAB	GS	##### GROUP START TAB	4R3	4	0	5,028,263:84:0	
676	99	158	00:49:37.066	127DC4A	37IOP	3,0	Long Map, Grating Start Position =00	4R3	4	0	5,028,263:84:0	
677	99	158	00:49:37.733	127DC4B	37ETB	0,7,C7,31,80,00,0	Loads wavelength edit table	4R3	4	0	5,028,263:85:0	
678	99	158	00:49:41.733	192XE4D	7CONE	17.0,153.0	Check S/P Position	4R3	4	0	5,028,264:00:0	
679	99	158	00:50:01.733	432DC6A	6RTSL2	NIMSEL,AACNCG,RT	NIMS R/T SELECT	4R3	4	0	5,028,264:30:0	
680	99	158	00:50:27.733	127DC11A	NIMSTAB	GE	##### GROUP END TAB	4R3	4	0	5,028,264:69:0	
681	99	158	00:50:37.733	125DD	NIMSNIT	GS	##### GROUP START INIT	4R3	4	0	5,028,264:84:0	
682	99	158	00:50:37.733	125DD11A	NIMSNIT	GE	##### GROUP END INIT	4R3	4	0	5,028,264:84:0	
683	99	158	00:50:37.733	125DD4A	37IST	0,2,1,OFF,1,0,1	OPCAL	4R3	4	0	5,028,264:84:0	
684	99	158	00:52:39.066	125DE4A	37IST	0,2,1,OFF,1,0,1	OPCAL	4R3	4	0	5,028,266:84:0	
685	99	158	00:52:39.066	125DE11A	NIMSNIT	GE	##### GROUP END INIT	4R3	4	0	5,028,266:84:0	
686	99	158	00:52:39.066	125DE	NIMSNIT	GS	##### GROUP START INIT	4R3	4	0	5,028,266:84:0	
687	99	158	00:53:02.400	432DE6A	6RTDS2	NIMDSL,AACNCG,RT	NIMS R/T DESELECT	4R3	4	0	5,028,267:28:0	
688	99	158	00:56:41.733	127XF4A	37IOP	0,0	Safe, Grating Start Position =00	4R0	4	0	5,028,270:84:0	
689	99	158	00:56:41.733	127XF	NIMSTAB	GS	##### GROUP START TAB	4R0	4	0	5,028,270:84:0	
690	99	158	00:56:42.400	127XF4B	37ETB	04,C4,02,00,00	Loads wavelength edit table	4R0	4	0	5,028,270:85:0	
691	99	158	00:57:32.400	127XF11A	NIMSTAB	GE	##### GROUP END TAB	4R0	4	0	5,028,271:69:0	
692	99	158	00:59:43.733	125XF4A	37MB	0,0,0,0,0,0	Selects mirror (spatial) edit table	4R0	4	0	5,028,273:84:0	
693	99	158	00:59:43.733	125XF	NIMSNIT	GS	##### GROUP START INIT	4R0	4	0	5,028,273:84:0	
694	99	158	01:00:44.400	125XF4B	37IST	1,0,0,OFF,0,0,0	Chopper ON, Sync, 63Hz (Ref)	460	4	0	5,028,274:84:0	
695	99	158	01:01:45.066	125XF11A	NIMSNIT	GE	##### GROUP END INIT	460	4	0	5,028,275:84:0	
696	99	158	01:01:45.066	125XF4C	37IST	1,1,0,OFF,0,0,0	Chopper OFF, N/A, 63Hz (Ref)	400	4	0	5,028,275:84:0	
697	99	158	01:08:39.733	41XU99A	POWER	PWR MODE change	Change to Maneuver/Playback Mode	400	4	0	5,028,282:69:0	
698	99	158	01:10:33.733	41XU3G	40T1P		1 PCT Heater 1 ON (primary relay)	400	4	0	5,028,284:58:0	
699	99	158	01:10:43.733	41XU3H	40T1P		2 PCT Heater 1 ON (primary relay)	400	4	0	5,028,284:73:0	
700	99	158	01:10:53.733	41XU3I	40T2		1 PCT Heater 2 ON	400	4	0	5,028,284:88:0	
701	99	158	01:11:03.733	41XU3J	40T2		2 PCT Heater 2 ON	400	4	0	5,028,285:12:0	
702	99	158	01:15:44.666	20NNRCTRLT01-		-----STOP-----		400	4	0	:	
703	99	158	01:18:50.400	20DB4A	7SAFE	STOP	S/P NO MOVEMENT	400	4	0	5,028,292:75:0	
704	99	158	01:19:40.400	20DB4B	7SLEW	DIS,POS,0.0	Stator movement	400	4	0	5,028,293:59:0	
705	99	158	01:21:02.400	176XF6A	6TMREC	RPB	RESUME PLAYBACK (PB CONTROL) Record Mode	400	4	0	5,028,295:00:0	
706	99	158	01:52:01.733	488DL6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	5,028,325:59:0	
707	99	158	02:21:53.733	488DL6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	5,028,355:17:0	
708	99	158	02:45:21.733	488DL6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	5,028,378:36:0	
709	99	158	04:44:49.733	488DL6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	5,028,496:50:0	
710	99	158	11:25:53.733	488DM6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	5,028,893:19:0	
711	99	158	13:27:29.733	488DM6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	5,029,013:43:0	
712	99	158	13:38:11.733	488DM6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	400	4	0	5,029,024:05:0	
713	99	158	13:48:49.733	488DM6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	400	4	0	5,029,034:52:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
714	99	158	17:18:55.666	488DM6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	5,029,242:33:0	
715	99	158	17:54:09.666	488DN6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	5,029,277:19:0	
716	99	158	19:34:25.666	488DN6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	400	4	0	5,029,376:34:0	
717	99	158	20:47:54.333	488DN6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	400	4	0	5,029,449:04:0	
718	99	158	20:51:13.666	488DN6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	400	4	0	5,029,452:30:0	
719	99	159	09:59:21.000	488DO6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	400	4	0	5,030,231:72:0	
720	99	159	10:04:49.666	488DO6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	5,030,237:19:0	
721	99	159	10:19:45.666	488DO6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	5,030,251:89:0	
722	99	159	11:28:01.000	488DO6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	400	4	0	5,030,319:44:0	
723	99	159	12:01:40.333	488DO6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	5,030,352:70:0	
724	99	159	17:49:53.666	488DP6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	5,030,697:15:0	
725	99	159	18:45:45.666	488DP6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	400	4	0	5,030,752:38:0	
726	99	159	19:14:51.666	488DP6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	5,030,781:18:0	
727	99	159	19:30:09.666	488DP6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	400	4	0	5,030,796:30:0	
728	99	160	00:07:29.600	488DQ6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	5,031,070:56:0	
729	99	160	01:47:45.600	488DQ6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	5,031,169:71:0	
730	99	160	02:24:17.600	488DQ6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	400	4	0	5,031,205:83:0	
731	99	160	02:26:09.600	488DQ6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	400	4	0	5,031,207:69:0	
732	99	160	02:41:05.600	488DQ6E	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	400	4	0	5,031,222:48:0	
733	99	160	09:50:25.600	488DR6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	5,031,647:13:0	
734	99	160	10:00:33.600	488DR6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	5,031,657:15:0	
735	99	160	11:15:13.600	488DR6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	5,031,731:01:0	
736	99	160	17:07:13.600	488DS6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	5,032,079:13:0	
737	99	160	17:49:53.600	488DS6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	5,032,121:31:0	
738	99	160	19:30:09.600	488DS6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	400	4	0	5,032,220:46:0	
739	99	161	00:01:05.600	488DT6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	5,032,488:42:0	
740	99	161	01:41:21.600	488DT6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	5,032,587:57:0	
741	99	161	02:20:38.266	488DT6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	400	4	0	5,032,626:43:0	
742	99	161	02:26:09.600	488DT6D	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	400	4	0	5,032,631:85:0	
743	99	161	03:02:25.600	488DT6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	400	4	0	5,032,667:73:0	
744	99	161	17:09:13.533	488DU6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	5,033,505:27:0	
745	99	161	17:45:37.533	488DU6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	5,033,541:27:0	
746	99	161	19:30:09.533	488DU6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	400	4	0	5,033,644:62:0	
747	99	161	23:56:49.533	488DV6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	5,033,908:38:0	
748	99	162	01:37:05.533	488DV6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	5,034,007:53:0	
749	99	162	02:06:57.533	488DV6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	400	4	0	5,034,037:11:0	
750	99	162	02:34:41.533	488DV6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	5,034,064:50:0	
751	99	162	03:04:33.533	488DV6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	5,034,094:08:0	
752	99	162	03:47:45.533	488DW6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	400	4	0	5,034,136:74:0	
753	99	162	04:21:24.200	488DW6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	5,034,170:08:0	
754	99	162	09:37:05.533	488DW6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	5,034,482:28:0	
755	99	162	10:00:33.533	488DX6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	5,034,505:47:0	
756	99	162	11:10:57.533	488DX6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	5,034,575:13:0	
757	99	162	11:20:29.533	488DX6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	400	4	0	5,034,584:52:0	
758	99	162	11:49:35.533	488DX6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	5,034,613:32:0	
759	99	162	13:48:15.466	488DX6E	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	400	4	0	5,034,730:65:0	
760	99	162	13:53:05.466	488DY6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	400	4	0	5,034,735:45:0	
761	99	162	17:04:19.466	488DY6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	5,034,924:57:0	
762	99	162	17:45:37.466	488DY6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	5,034,965:43:0	
763	99	162	19:30:09.466	488DY6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	400	4	0	5,035,068:78:0	
764	99	162	19:31:10.800	20NV6A	6TMSED	NORM,BA6	Sci, Eng, and D/L Chan	400	4	0	5,035,069:79:0	
765	99	162	19:31:18.800	176NV6A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	400	4	0	5,035,070:00:0	
766	99	162	19:42:00.133	20NV4I	7CONE	17.45,180.00	Check S/P Position	400	4	0	5,035,080:52:0	
767	99	162	19:57:00.133	20NV4J	7MODE	INT	AACS INERTIAL MODE	400	4	0	5,035,095:37:0	
768	99	162	20:12:00.133	20NV4L	7SLEW	INIT,NEG,16,326	Stator movement	400	4	0	5,035,110:22:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
769	99	162	20:16:00.133	20NV4M	7SLEW	INIT,NEG,17.157	Stator movement	400	4	0	5,035,114:18:0	
770	99	162	20:20:00.133	20NV4N	7SLEW	INIT,NEG,17.988	Stator movement	400	4	0	5,035,118:14:0	
771	99	162	20:24:00.133	20NV4O	7SLEW	INIT,NEG,18.548	Stator movement	400	4	0	5,035,122:10:0	
772	99	162	20:28:00.133	20NV4P	7SLEW	INIT,NEG,19.102	Stator movement	400	4	0	5,035,126:06:0	
773	99	162	20:32:00.133	20NV4Q	7SLEW	INIT,NEG,19.656	Stator movement	400	4	0	5,035,130:02:0	
774	99	162	20:36:00.133	20NV4R	7SLEW	INIT,NEG,20.209	Stator movement	400	4	0	5,035,133:89:0	
775	99	162	20:40:00.133	20NV4S	7SLEW	INIT,NEG,20.763	Stator movement	400	4	0	5,035,137:85:0	
776	99	162	20:44:00.133	20NV4T	7SLEW	DIS,POS,0.0	Stator movement	400	4	0	5,035,141:81:0	
777	99	162	20:45:00.133	20NV4U	7SAFE	UNSTOW	S/P TO 153 deg cone	400	4	0	5,035,142:80:0	
778	99	162	20:50:00.133	20NV4V	7MODE	CRU	AACS CRUISE MODE	400	4	0	5,035,147:75:0	
779	99	162	21:04:34.133	20NV4G	7SAFE	STOP	S/P NO MOVEMENT	400	4	0	5,035,162:21:0	
780	99	162	21:05:24.133	20NV4AH	7SLEW	DIS,POS,0.0	Stator movement	400	4	0	5,035,163:05:0	
781	99	162	21:06:00.133	176NE6A	6TMREC	RPB	RESUME PLAYBACK (PB CONTROL) Record Mode	400	4	0	5,035,163:59:0	
782	99	162	21:06:16.133	20NV6L	6MROH	7,673E,2,A40	read from AACSA7,673E,2,A40	400	4	0	5,035,163:83:0	
783	99	162	21:07:16.133	20NV6M	6MROH	7,693C,2,A40	read from AACSA7,693C,2,A40	400	4	0	5,035,164:82:0	
784	99	162	21:08:16.133	20NV6N	6MROH	7,6F96,2,A40	read from AACSA7,6F96,2,A40	400	4	0	5,035,165:81:0	
785	99	162	21:09:16.133	20NV6O	6MROH	44,2A00,15,A40	read from LLM2A44,2A00,15,A	400	4	0	5,035,166:80:0	
786	99	162	21:14:36.133	20NV6P	6TMSED	NORM,AL6	Sci, Eng. and D/L Chan	400	4	0	5,035,172:14:0	
787	99	162	23:48:17.466	488DZ6A	6TMSED	NORM,AL5	Sci, Eng. and D/L Chan	400	4	0	5,035,324:14:0	
788	99	163	01:32:49.466	488DZ6B	6TMSED	NORM,AL4	Sci, Eng. and D/L Chan	400	4	0	5,035,427:49:0	
789	99	163	02:13:21.466	488DZ6C	6TMSED	NORM,AL3	Sci, Eng. and D/L Chan	400	4	0	5,035,467:57:0	
790	99	163	02:30:25.466	488DZ6D	6TMSED	NORM,AL4	Sci, Eng. and D/L Chan	400	4	0	5,035,484:46:0	
791	99	163	04:34:09.466	488DZ6E	6TMSED	NORM,AL5	Sci, Eng. and D/L Chan	400	4	0	5,035,606:80:0	
792	99	163	09:32:49.466	488EA6A	6TMSED	NORM,AL3	Sci, Eng. and D/L Chan	400	4	0	5,035,902:24:0	
793	99	163	09:56:17.466	488EA6B	6TMSED	NORM,AL4	Sci, Eng. and D/L Chan	400	4	0	5,035,925:43:0	
794	99	163	11:10:57.466	488EA6C	6TMSED	NORM,AL5	Sci, Eng. and D/L Chan	400	4	0	5,035,999:29:0	
795	99	163	16:56:33.466	488EB6A	6TMSED	NORM,AL4	Sci, Eng. and D/L Chan	400	4	0	5,036,341:11:0	
796	99	163	17:45:37.466	488EB6B	6TMSED	NORM,AL5	Sci, Eng. and D/L Chan	400	4	0	5,036,389:59:0	
797	99	163	19:30:09.466	488EB6C	6TMSED	NORM,AL6	Sci, Eng. and D/L Chan	400	4	0	5,036,493:03:0	
798	99	163	23:41:53.400	488EC6A	6TMSED	NORM,AL5	Sci, Eng. and D/L Chan	400	4	0	5,036,742:00:0	
799	99	164	01:26:25.400	488EC6B	6TMSED	NORM,AL4	Sci, Eng. and D/L Chan	400	4	0	5,036,845:35:0	
800	99	164	02:08:27.400	488EC6C	6TMSED	FILL,AL4	Sci, Eng. and D/L Chan	400	4	0	5,036,886:87:0	
801	99	164	02:13:21.400	488EC6D	6TMSED	FILL,AL1	Sci, Eng. and D/L Chan	400	4	0	5,036,891:73:0	
802	99	164	02:49:37.400	488EC6E	6TMSED	FILL,AL4	Sci, Eng. and D/L Chan	400	4	0	5,036,927:61:0	
803	99	164	16:59:32.733	488ED6A	6TMSED	NORM,AL4	Sci, Eng. and D/L Chan	400	4	0	5,037,768:23:0	
804	99	164	17:39:13.400	488ED6B	6TMSED	NORM,AL5	Sci, Eng. and D/L Chan	400	4	0	5,037,807:45:0	
805	99	164	19:34:25.400	488ED6C	6TMSED	NORM,AL6	Sci, Eng. and D/L Chan	400	4	0	5,037,921:39:0	
806	99	164	23:33:21.400	488EE6A	6TMSED	NORM,AL5	Sci, Eng. and D/L Chan	400	4	0	5,038,157:67:0	
807	99	165	01:28:33.400	488EE6B	6TMSED	NORM,AL4	Sci, Eng. and D/L Chan	400	4	0	5,038,271:61:0	
808	99	165	02:07:28.733	488EE6C	6TMSED	FILL,AL4	Sci, Eng. and D/L Chan	400	4	0	5,038,310:15:0	
809	99	165	02:13:21.400	488EE6D	6TMSED	FILL,AL1	Sci, Eng. and D/L Chan	400	4	0	5,038,315:89:0	
810	99	165	02:49:37.400	488EE6E	6TMSED	FILL,AL4	Sci, Eng. and D/L Chan	400	4	0	5,038,351:77:0	
811	99	165	16:59:38.666	488EF6A	6TMSED	NORM,AL4	Sci, Eng. and D/L Chan	400	4	0	5,039,192:48:0	
812	99	165	17:41:21.333	488EF6B	6TMSED	NORM,AL5	Sci, Eng. and D/L Chan	400	4	0	5,039,233:71:0	
813	99	165	19:34:25.333	488EF6C	6TMSED	NORM,AL6	Sci, Eng. and D/L Chan	400	4	0	5,039,345:55:0	
814	99	165	20:49:41.333	488EF6D	6TMSED	FILL,AL6	Sci, Eng. and D/L Chan	400	4	0	5,039,420:04:0	
815	99	165	20:53:21.333	488EF6E	6TMSED	FILL,AL2	Sci, Eng. and D/L Chan	400	4	0	5,039,423:61:0	
816	99	166	02:00:02.000	488EG6A	6TMSED	NORM,AL2	Sci, Eng. and D/L Chan	400	4	0	5,039,726:89:0	
817	99	166	02:11:13.333	488EG6B	6TMSED	NORM,AL3	Sci, Eng. and D/L Chan	400	4	0	5,039,738:04:0	
818	99	166	03:10:57.333	488EG6C	6TMSED	NORM,AL4	Sci, Eng. and D/L Chan	400	4	0	5,039,797:11:0	
819	99	166	03:32:20.000	488EG6D	6TMSED	FILL,AL4	Sci, Eng. and D/L Chan	400	4	0	5,039,818:24:0	
820	99	166	04:05:59.333	488EG6E	6TMSED	NORM,AL4	Sci, Eng. and D/L Chan	400	4	0	5,039,851:50:0	
821	99	166	11:32:17.333	488EH6A	6TMSED	NORM,AL5	Sci, Eng. and D/L Chan	400	4	0	5,040,292:86:0	
822	99	166	13:10:03.333	488EH6B	6TMSED	FILL,AL5	Sci, Eng. and D/L Chan	400	4	0	5,040,389:58:0	
823	99	166	13:39:09.933	488EH6C	6TMSED	NORM,AL5	Sci, Eng. and D/L Chan	400	4	0	5,040,418:39:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
824	99	166	16:48:01.266	488EH6D	6TMSED	NORM,AL4	Sci, Eng. and D/L Chan	400	4	0	5,040,605:19:0	
825	99	166	17:26:25.266	488EH6E	6TMSED	NORM,AL5	Sci, Eng. and D/L Chan	400	4	0	5,040,643:17:0	
826	99	166	18:52:59.933	488EI6A	6TMSED	NORM,AH5	Sci, Eng. and D/L Chan	400	4	0	5,040,728:74:0	
827	99	166	18:56:01.266	488EI6B	6TMSED	NORM,AH6	Sci, Eng. and D/L Chan	400	4	0	5,040,731:73:0	
828	99	166	18:57:13.933	176TH6A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	400	4	0	5,040,733:00:0	
829	99	166	19:05:59.933	20WD4C	7STAT	10,00,206.53,-9.	Stator inertial point	400	4	0	5,040,741:61:0	
830	99	166	19:25:01.933	490UB412A4B	7MODE	INT	AACS INERTIAL MODE	400	4	0	5,040,760:45:0	
831	99	166	19:29:59.933	490UB412A4D	7SAFE	UNSTOW	S/P TO 153 deg cone	400	4	0	5,040,765:37:0	
832	99	166	19:30:19.933	20WD4D	7STAT	17.45,206.53,-9.	Stator inertial point	400	4	0	5,040,765:67:0	
833	99	166	19:34:09.933	490UB412A4E	7VECT		Inert vect update UTC	400	4	0	5,040,769:48:0	
834	99	166	19:34:13.933	490UB412A4F	7TURN	2,RTH	Alert Thruster	400	4	0	5,040,769:48:0	
835	99	166	19:38:01.933	490UB412A406A4	7STAR	11,701,278.81	Star catalog update	400	4	0	5,040,773:32:0	
836	99	166	19:38:03.933	490UB412A406A4B	7STAR	2,111,285.778,13	Star catalog update	400	4	0	5,040,773:35:0	
837	99	166	19:38:05.933	490UB412A406A4C	7STAR	3,350,120.46	Star catalog update	400	4	0	5,040,773:38:0	
838	99	166	19:38:07.933	490UB412A406A4D	7STAR	4,133,165.16	Star catalog update	400	4	0	5,040,773:41:0	
839	99	166	19:38:09.933	490UB412A406A4E	7STAR	5,0,0,0,0,0,0	Star catalog update	400	4	0	5,040,773:44:0	
840	99	166	19:38:11.933	490UB412A406A4F	7STAR	6,0,0,0,0,0,0	Star catalog update	400	4	0	5,040,773:47:0	
841	99	166	19:48:05.933	20WD4F	7SLEW	DIS,POS,0.0	Stator movement	400	4	0	5,040,783:28:0	
842	99	166	19:56:09.933	490UB412A4G	7MODE	CRU	AACS CRUISE MODE	400	4	0	5,040,791:26:0	
843	99	166	21:21:59.933	488EI6C	6TMSED	NORM,AL6	Sci, Eng. and D/L Chan	400	4	0	5,040,876:16:0	
844	99	166	21:30:03.933	20TB4A	7SAFE	STOP	S/P NO MOVEMENT	400	4	0	5,040,884:14:0	
845	99	166	21:30:53.933	20TB4B	7SLEW	DIS,POS,0.0	Stator movement	400	4	0	5,040,884:89:0	
846	99	166	21:32:56.600	176TI6A	6TMREC	RPB	RESUME PLAYBACK (PB CONTROL) Record Mode	400	4	0	5,040,887:00:0	
847	99	167	00:03:13.266	488EI6D	6TMSED	NORM,AL5	Sci, Eng. and D/L Chan	400	4	0	5,041,035:57:0	
848	99	167	01:28:33.266	488EJ6A	6TMSED	NORM,AL4	Sci, Eng. and D/L Chan	400	4	0	5,041,120:02:0	
849	99	167	02:01:24.600	488EJ6B	6TMSED	FILL,AL4	Sci, Eng. and D/L Chan	400	4	0	5,041,152:47:0	
850	99	167	02:06:57.266	488EJ6C	6TMSED	FILL,AL1	Sci, Eng. and D/L Chan	400	4	0	5,041,158:00:0	
851	99	167	02:43:13.266	488EJ6D	6TMSED	FILL,AL2	Sci, Eng. and D/L Chan	400	4	0	5,041,193:79:0	
852	99	167	09:30:10.600	488EK6A	6TMSED	NORM,AL2	Sci, Eng. and D/L Chan	400	4	0	5,041,596:32:0	
853	99	167	09:34:57.266	488EK6B	6TMSED	NORM,AL3	Sci, Eng. and D/L Chan	400	4	0	5,041,601:07:0	
854	99	167	09:49:53.266	488EK6C	6TMSED	NORM,AL4	Sci, Eng. and D/L Chan	400	4	0	5,041,615:77:0	
855	99	167	10:57:11.266	488EK6D	6TMSED	FILL,AL4	Sci, Eng. and D/L Chan	400	4	0	5,041,682:37:0	
856	99	167	11:30:50.600	488EK6E	6TMSED	NORM,AL4	Sci, Eng. and D/L Chan	400	4	0	5,041,715:63:0	
857	99	167	13:10:25.266	488EL6A	6TMSED	NORM,AL5	Sci, Eng. and D/L Chan	400	4	0	5,041,814:16:0	
858	99	167	13:34:59.933	488EL6B	6TMSED	NORM,AH5	Sci, Eng. and D/L Chan	400	4	0	5,041,838:44:0	
859	99	167	13:38:33.266	176TC6A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	400	4	0	5,041,842:00:0	
860	99	167	14:04:29.933	20SY4I	7MODE	INT	AACS INERTIAL MODE	400	4	0	5,041,867:60:0	
861	99	167	14:19:29.933	20SY4K	7SLEW	INIT,POS,17.45	Stator movement	400	4	0	5,041,882:45:0	
862	99	167	14:31:29.933	20SY4L	7SLEW	DIS,POS,0.0	Stator movement	400	4	0	5,041,894:33:0	
863	99	167	14:38:29.933	20SY4M	7SLEW	INIT,NEG,17.45	Stator movement	400	4	0	5,041,901:26:0	
864	99	167	14:50:29.933	20SY4N	7SLEW	DIS,POS,0.0	Stator movement	400	4	0	5,041,913:14:0	
865	99	167	14:57:29.933	20SY4O	7SLEW	INIT,POS,4.36	Stator movement	400	4	0	5,041,920:07:0	
866	99	167	15:09:29.933	20SY4P	7SLEW	DIS,POS,0.0	Stator movement	400	4	0	5,041,931:86:0	
867	99	167	15:16:29.933	20SY4Q	7SLEW	INIT,NEG,4.36	Stator movement	400	4	0	5,041,938:79:0	
868	99	167	15:28:29.933	20SY4R	7SLEW	DIS,POS,0.0	Stator movement	400	4	0	5,041,950:67:0	
869	99	167	15:47:29.933	20SY4U	7SAFE	UNSTOW	S/P TO 153 deg cone	400	4	0	5,041,969:48:0	
870	99	167	15:56:29.933	20SY4AH	7MODE	CRU	AACS CRUISE MODE	400	4	0	5,041,978:39:0	
871	99	167	16:11:03.933	20TC4A	7SAFE	STOP	S/P NO MOVEMENT	400	4	0	5,041,992:76:0	
872	99	167	16:11:53.933	20TC4B	7SLEW	DIS,POS,0.0	Stator movement	400	4	0	5,041,993:60:0	
873	99	167	16:12:14.600	176TJ6A	6TMREC	RPB	RESUME PLAYBACK (PB CONTROL) Record Mode	400	4	0	5,041,994:00:0	
874	99	167	16:13:59.933	488EL6C	6TMSED	NORM,AL5	Sci, Eng. and D/L Chan	400	4	0	5,041,995:67:0	
875	99	167	16:43:45.266	488EL6D	6TMSED	NORM,AL4	Sci, Eng. and D/L Chan	400	4	0	5,042,025:15:0	
876	99	167	17:20:01.266	488EL6E	6TMSED	NORM,AL5	Sci, Eng. and D/L Chan	400	4	0	5,042,061:03:0	
877	99	167	18:19:55.266	488EM6A	6TMSED	FILL,AL5	Sci, Eng. and D/L Chan	400	4	0	5,042,120:25:0	
878	99	167	18:45:21.266	488EM6B	6TMSED	FILL,AL6	Sci, Eng. and D/L Chan	400	4	0	5,042,145:39:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
879	99	167	18:48:11.266	488EM6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	400	4	0	5,042,148:21:0	
880	99	167	18:57:03.266	176NL6A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	400	4	0	5,042,157:00:0	
881	99	167	18:57:59.933	488EM6D	6TMSED	NORM,BA6	Sci, Eng, and D/L Chan	400	4	0	5,042,157:85:0	
882	99	167	19:00:07.933	20BC4A	7SLEW	DIS,POS,0.0	Stator movement	400	4	0	5,042,160:04:0	
883	99	167	19:02:29.933	20BC6A	6MROH	7,696B,5,A40	read from AACSA7,696B,5,A40	400	4	0	5,042,162:35:0	
884	99	167	19:05:59.933	20BC6B	6MROH	7,696B,5,A40	read from AACSA7,696B,5,A40	400	4	0	5,042,165:77:0	
885	99	167	19:09:29.933	20BC6C	6MROH	7,696B,5,A40	read from AACSA7,696B,5,A40	400	4	0	5,042,169:28:0	
886	99	167	19:12:59.933	20BC6D	6MROH	7,696B,5,A40	read from AACSA7,696B,5,A40	400	4	0	5,042,172:70:0	
887	99	167	19:16:29.933	20BC6E	6MROH	7,696B,5,A40	read from AACSA7,696B,5,A40	400	4	0	5,042,176:21:0	
888	99	167	19:19:59.933	20BC6F	6MROH	7,696B,5,A40	read from AACSA7,696B,5,A40	400	4	0	5,042,179:63:0	
889	99	167	19:23:29.933	20BC6G	6MROH	7,696B,5,A40	read from AACSA7,696B,5,A40	400	4	0	5,042,183:14:0	
890	99	167	19:26:59.933	20BC6H	6MROH	7,696B,5,A40	read from AACSA7,696B,5,A40	400	4	0	5,042,186:56:0	
891	99	167	19:30:29.933	20BC6I	6MROH	7,696B,5,A40	read from AACSA7,696B,5,A40	400	4	0	5,042,190:07:0	
892	99	167	19:33:59.933	20BC6J	6MROH	7,696B,5,A40	read from AACSA7,696B,5,A40	400	4	0	5,042,193:49:0	
893	99	167	19:37:29.933	20BC6K	6MROH	7,696B,5,A40	read from AACSA7,696B,5,A40	400	4	0	5,042,197:00:0	
894	99	167	19:40:59.933	20BC6L	6MROH	7,696B,5,A40	read from AACSA7,696B,5,A40	400	4	0	5,042,200:42:0	
895	99	167	19:44:29.933	20BC6M	6MROH	7,696B,5,A40	read from AACSA7,696B,5,A40	400	4	0	5,042,203:84:0	
896	99	167	19:47:59.933	20BC6N	6MROH	7,696B,5,A40	read from AACSA7,696B,5,A40	400	4	0	5,042,207:35:0	
897	99	167	19:51:29.933	20BC6O	6MROH	7,696B,5,A40	read from AACSA7,696B,5,A40	400	4	0	5,042,210:77:0	
898	99	167	19:54:59.933	20BC6P	6MROH	7,696B,5,A40	read from AACSA7,696B,5,A40	400	4	0	5,042,214:28:0	
899	99	167	19:58:29.933	20BC6Q	6MROH	7,696B,5,A40	read from AACSA7,696B,5,A40	400	4	0	5,042,217:70:0	
900	99	167	20:00:59.933	20BC6R	6MROH	7,696B,5,A40	read from AACSA7,696B,5,A40	400	4	0	5,042,220:22:0	
901	99	167	20:04:29.933	20BC6S	6MROH	7,696B,5,A40	read from AACSA7,696B,5,A40	400	4	0	5,042,223:64:0	
902	99	167	20:07:59.933	20BC6T	6MROH	7,696B,5,A40	read from AACSA7,696B,5,A40	400	4	0	5,042,227:15:0	
903	99	167	20:11:03.933	20NO4A	7SAFE	STOP	SIP NO MOVEMENT	400	4	0	5,042,230:18:0	
904	99	167	20:11:53.933	20NO4B	7SLEW	DIS,POS,0.0	Stator movement	400	4	0	5,042,231:02:0	
905	99	167	20:12:53.266	176NM6A	6TMREC	RPB	RESUME PLAYBACK (PB CONTROL) Record Mode	400	4	0	5,042,232:00:0	
906	99	167	20:14:59.933	488EM6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	400	4	0	5,042,234:08:0	
907	99	168	00:03:13.200	488EN6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	5,042,459:73:0	
908	99	168	01:28:33.200	488EN6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	5,042,544:18:0	
909	99	168	02:00:28.533	488EN6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	400	4	0	5,042,575:70:0	
910	99	168	02:02:41.200	488EN6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	400	4	0	5,042,577:87:0	
911	99	168	02:17:37.200	488EN6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	400	4	0	5,042,592:66:0	
912	99	168	16:49:58.533	488EO6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	5,043,455:45:0	
913	99	168	17:15:45.200	488EO6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	5,043,480:90:0	
914	99	168	18:45:21.200	488EO6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	400	4	0	5,043,569:55:0	
915	99	168	23:58:57.200	488EP6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	5,043,879:69:0	
916	99	169	01:22:09.200	488EP6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	5,043,962:04:0	
917	99	169	01:52:01.200	488EP6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	5,043,991:53:0	
918	99	169	02:26:09.200	488EP6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	5,044,025:31:0	
919	99	169	03:26:59.200	488EP6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	400	4	0	5,044,085:46:0	
920	99	169	04:00:38.533	488EQ6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	5,044,118:72:0	
921	99	169	09:13:37.133	488EQ6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	5,044,428:30:0	
922	99	169	09:41:21.133	488EQ6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	5,044,455:69:0	
923	99	169	10:46:57.133	488ER6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	400	4	0	5,044,520:58:0	
924	99	169	11:25:36.466	488ER6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	5,044,558:79:0	
925	99	169	12:51:13.133	488ER6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	5,044,643:49:0	
926	99	169	16:37:21.133	488ER6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	5,044,867:17:0	
927	99	169	17:15:45.133	488ES6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	5,044,905:15:0	
928	99	169	18:14:41.800	488ES6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	400	4	0	5,044,963:42:0	
929	99	169	18:41:05.133	488ES6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	400	4	0	5,044,989:51:0	
930	99	169	18:43:11.800	488ES6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	400	4	0	5,044,991:59:0	
931	99	169	23:52:33.133	488ET6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	5,045,297:55:0	
932	99	170	01:22:09.133	488ET6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	5,045,386:20:0	
933	99	170	01:52:01.133	488ET6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	5,045,415:69:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
934	99	170	02:21:53.133	488ET6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	5,045,445:27:0	
935	99	170	03:26:53.133	488ET6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	400	4	0	5,045,509:53:0	
936	99	170	03:57:38.466	176SR6A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	400	4	0	5,045,540:00:0	
937	99	170	04:00:32.466	488EU6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	5,045,542:79:0	
938	99	170	04:01:59.800	20US4B	7SLEW	DIS,POS:0.0	Stator movement	400	4	0	5,045,544:28:0	
939	99	170	04:02:59.800	20US4D	7MODE	SPNL	AACS ALL-SPIN LOW	400	4	0	5,045,545:27:0	
940	99	170	04:04:59.800	20US4E	7SAFE	UNSTOP	S/P TO 153 deg cone	400	4	0	5,045,547:25:0	
941	99	170	04:10:29.800	20US4G	7VENT	0.611,1.333,8	ALERT -- Thruster fire	400	4	0	5,045,552:65:0	
942	99	170	04:10:30.466	20US4H	7VENT	0.611,10.989,8	ALERT -- Thruster fire	400	4	0	5,045,552:66:0	
943	99	170	04:10:50.466	20US4J	7VENT	0.611,1.333,6	ALERT -- Thruster fire	400	4	0	5,045,553:05:0	
944	99	170	04:10:51.133	20US4I	7VENT	0.611,10.989,6	ALERT -- Thruster fire	400	4	0	5,045,553:06:0	
945	99	170	04:11:33.133	20US4K	7VENT	0.611,1.333,4	ALERT -- Thruster fire	400	4	0	5,045,553:36:0	
946	99	170	04:11:11.800	20US4L	7VENT	0.611,0.666,5	ALERT -- Thruster fire	400	4	0	5,045,553:37:0	
947	99	170	04:11:21.800	20US4M	7VENT	0.611,1.333,4	ALERT -- Thruster fire	400	4	0	5,045,553:52:0	
948	99	170	04:11:22.466	20US4N	7VENT	0.611,0.666,5	ALERT -- Thruster fire	400	4	0	5,045,553:53:0	
949	99	170	04:11:32.466	20US4O	7VENT	1.211,1.333,10	ALERT -- Thruster fire	400	4	0	5,045,553:68:0	
950	99	170	04:11:33.133	20US4P	7VENT	1.211,0.666,12	ALERT -- Thruster fire	400	4	0	5,045,553:69:0	
951	99	170	04:13:19.800	20US4S	7VENT	0.611,1.333,7	ALERT -- Thruster fire	400	4	0	5,045,555:47:0	
952	99	170	04:13:20.466	20US4T	7VENT	0.611,10.989,7	ALERT -- Thruster fire	400	4	0	5,045,555:48:0	
953	99	170	04:13:40.466	20US4U	7VENT	0.611,1.333,1	ALERT -- Thruster fire	400	4	0	5,045,555:78:0	
954	99	170	04:13:41.133	20US4V	7VENT	0.611,10.989,1	ALERT -- Thruster fire	400	4	0	5,045,555:79:0	
955	99	170	04:14:01.133	20US4AC	7VENT	0.611,1.333,2	ALERT -- Thruster fire	400	4	0	5,045,556:18:0	
956	99	170	04:14:01.800	20US4AD	7VENT	0.611,0.666,3	ALERT -- Thruster fire	400	4	0	5,045,556:19:0	
957	99	170	04:14:11.800	20US4AE	7VENT	0.611,1.333,2	ALERT -- Thruster fire	400	4	0	5,045,556:34:0	
958	99	170	04:14:12.466	20US4AF	7VENT	0.611,0.666,3	ALERT -- Thruster fire	400	4	0	5,045,556:35:0	
959	99	170	04:14:22.466	20US4AW	7VENT	1.211,1.333,9	ALERT -- Thruster fire	400	4	0	5,045,556:50:0	
960	99	170	04:14:23.133	20US4X	7VENT	1.211,0.666,11	ALERT -- Thruster fire	400	4	0	5,045,556:51:0	
961	99	170	04:15:19.800	20US4Z	7MODE	CRU	AACS CRUISE MODE	400	4	0	5,045,557:45:0	
962	99	170	04:40:03.800	20UP4A	7SAFE	STOP	S/P NO MOVEMENT	400	4	0	5,045,581:87:0	
963	99	170	04:40:53.800	20UP4B	7SLEW	DIS,POS:0.0	Stator movement	400	4	0	5,045,582:71:0	
964	99	170	04:42:07.800	176SQ6A	6TMREC	RPB	RESUME PLAYBACK (PB CONTROL) Record Mode	400	4	0	5,045,584:00:0	
965	99	170	10:26:09.133	488EV6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	5,045,924:22:0	
966	99	170	10:54:36.466	488EV6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	400	4	0	5,045,952:35:0	
967	99	170	11:23:42.466	488EV6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	5,045,981:15:0	
968	99	170	16:34:19.733	488EW6A	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	400	4	0	5,046,288:34:0	
969	99	170	17:13:25.733	488EW6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	5,046,327:04:0	
970	99	170	18:41:05.066	488EW6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	400	4	0	5,046,413:67:0	
971	99	170	23:48:17.066	488EX6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	5,046,717:51:0	
972	99	171	01:17:53.066	488EX6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	5,046,806:16:0	
973	99	171	01:50:31.066	488EX6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	400	4	0	5,046,838:41:0	
974	99	171	01:54:09.066	488EX6D	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	400	4	0	5,046,842:04:0	
975	99	171	02:04:49.066	488EX6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	400	4	0	5,046,852:54:0	
976	99	171	16:40:19.733	488EY6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	5,047,718:44:0	
977	99	171	17:11:28.400	488EY6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	5,047,749:26:0	
978	99	171	18:41:04.400	488EY6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	400	4	0	5,047,837:82:0	
979	99	171	20:50:03.733	488EY6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	400	4	0	5,047,965:43:0	
980	99	171	20:53:20.400	488EY6E	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	400	4	0	5,047,968:65:0	
981	99	172	01:51:42.333	488EZ6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	5,048,263:73:0	
982	99	172	02:15:29.000	488EZ6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	5,048,287:29:0	
983	99	172	03:16:38.333	488EZ6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	400	4	0	5,048,347:73:0	
984	99	172	03:50:17.666	488EZ6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	5,048,381:08:0	
985	99	172	12:27:45.000	488FA6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	5,048,892:78:0	
986	99	172	12:57:33.000	488FA6B	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	400	4	0	5,048,922:30:0	
987	99	172	13:04:01.000	488FA6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	400	4	0	5,048,928:66:0	
988	99	172	13:18:57.000	488FA6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	400	4	0	5,048,943:45:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
989	99	172	17:05:27.666	488FA6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	5,049,167:47:0	
990	99	172	17:15:45.000	488FB6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	5,049,177:63:0	
991	99	172	18:45:21.000	488FB6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	400	4	0	5,049,266:28:0	
992	99	172	20:49:53.000	488FB6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	400	4	0	5,049,389:43:0	
993	99	172	20:53:21.000	488FB6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	400	4	0	5,049,392:82:0	
994	99	173	01:35:49.666	488FC6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	400	4	0	5,049,672:25:0	
995	99	173	01:41:20.333	488FC6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	5,049,677:66:0	
996	99	173	01:52:00.333	488FC6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	5,049,688:25:0	
997	99	173	03:36:32.333	488FC6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	5,049,791:60:0	
998	99	173	09:09:20.933	488FD6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	5,050,120:74:0	
999	99	173	10:21:52.933	488FD6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	5,050,192:50:0	
1000	99	173	13:49:04.266	488FD6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	400	4	0	5,050,397:42:0	
1001	99	173	13:53:04.933	488FD6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	400	4	0	5,050,401:39:0	
1002	99	173	16:35:34.266	488FE6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	5,050,562:12:0	
1003	99	173	17:07:12.933	488FE6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	5,050,593:39:0	
1004	99	173	18:51:44.933	488FE6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	400	4	0	5,050,696:74:0	
1005	99	173	18:56:59.600	176NB6A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	400	4	0	5,050,702:00:0	
1006	99	173	18:58:00.266	488FE6D	6TMSED	NORM,BA6	Sci, Eng, and D/L Chan	400	4	0	5,050,703:00:0	
1007	99	173	19:00:08.266	20BD4A	7SLEW	DIS,POS,0.0	Stator movement	400	4	0	5,050,705:10:0	
1008	99	173	19:02:30.266	20BD6A	6MROH	7,696B:5,A40	read from AACSA7,696B:5,A40	400	4	0	5,050,707:41:0	
1009	99	173	19:06:00.266	20BD6B	6MROH	7,696B:5,A40	read from AACSA7,696B:5,A40	400	4	0	5,050,710:83:0	
1010	99	173	19:09:30.266	20BD6C	6MROH	7,696B:5,A40	read from AACSA7,696B:5,A40	400	4	0	5,050,714:34:0	
1011	99	173	19:13:00.266	20BD6D	6MROH	7,696B:5,A40	read from AACSA7,696B:5,A40	400	4	0	5,050,717:76:0	
1012	99	173	19:16:30.266	20BD6E	6MROH	7,696B:5,A40	read from AACSA7,696B:5,A40	400	4	0	5,050,721:27:0	
1013	99	173	19:20:00.266	20BD6F	6MROH	7,696B:5,A40	read from AACSA7,696B:5,A40	400	4	0	5,050,724:69:0	
1014	99	173	19:23:30.266	20BD6G	6MROH	7,696B:5,A40	read from AACSA7,696B:5,A40	400	4	0	5,050,728:20:0	
1015	99	173	19:27:00.266	20BD6H	6MROH	7,696B:5,A40	read from AACSA7,696B:5,A40	400	4	0	5,050,731:62:0	
1016	99	173	19:30:30.266	20BD6I	6MROH	7,696B:5,A40	read from AACSA7,696B:5,A40	400	4	0	5,050,735:13:0	
1017	99	173	19:34:00.266	20BD6J	6MROH	7,696B:5,A40	read from AACSA7,696B:5,A40	400	4	0	5,050,738:55:0	
1018	99	173	19:37:30.266	20BD6K	6MROH	7,696B:5,A40	read from AACSA7,696B:5,A40	400	4	0	5,050,742:06:0	
1019	99	173	19:41:00.266	20BD6L	6MROH	7,696B:5,A40	read from AACSA7,696B:5,A40	400	4	0	5,050,745:48:0	
1020	99	173	19:44:30.266	20BD6M	6MROH	7,696B:5,A40	read from AACSA7,696B:5,A40	400	4	0	5,050,748:90:0	
1021	99	173	19:48:00.266	20BD6N	6MROH	7,696B:5,A40	read from AACSA7,696B:5,A40	400	4	0	5,050,752:41:0	
1022	99	173	19:51:30.266	20BD6O	6MROH	7,696B:5,A40	read from AACSA7,696B:5,A40	400	4	0	5,050,755:83:0	
1023	99	173	19:55:00.266	20BD6P	6MROH	7,696B:5,A40	read from AACSA7,696B:5,A40	400	4	0	5,050,759:34:0	
1024	99	173	19:58:30.266	20BD6Q	6MROH	7,696B:5,A40	read from AACSA7,696B:5,A40	400	4	0	5,050,762:76:0	
1025	99	173	20:01:00.266	20BD6R	6MROH	7,696B:5,A40	read from AACSA7,696B:5,A40	400	4	0	5,050,765:28:0	
1026	99	173	20:04:30.266	20BD6S	6MROH	7,696B:5,A40	read from AACSA7,696B:5,A40	400	4	0	5,050,768:70:0	
1027	99	173	20:08:00.266	20BD6T	6MROH	7,696B:5,A40	read from AACSA7,696B:5,A40	400	4	0	5,050,772:21:0	
1028	99	173	20:11:04.266	20NP4A	7SAFE	STOP	SIP NO MOVEMENT	400	4	0	5,050,775:24:0	
1029	99	173	20:11:54.266	20NP4B	7SLEW	DIS,POS,0.0	Stator movement	400	4	0	5,050,776:08:0	
1030	99	173	20:12:49.600	176NA6A	6TMREC	RPB	RESUME PLAYBACK (PB CONTROL) Record Mode	400	4	0	5,050,777:00:0	
1031	99	173	20:15:00.266	488FE6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	400	4	0	5,050,779:14:0	
1032	99	173	23:18:24.933	488FF6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	5,050,960:50:0	
1033	99	174	01:02:56.933	488FF6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	5,051,063:85:0	
1034	99	174	01:16:50.266	488FF6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	400	4	0	5,051,077:61:0	
1035	99	174	01:24:10.933	488FF6D	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	400	4	0	5,051,085:03:0	
1036	99	174	09:06:59.600	488FG6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	5,051,542:60:0	
1037	99	174	09:26:24.266	488FG6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	5,051,561:78:0	
1038	99	174	10:36:20.933	488FG6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	400	4	0	5,051,631:03:0	
1039	99	174	11:10:00.266	488FG6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	5,051,664:29:0	
1040	99	174	16:24:32.866	488FH6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	5,051,975:37:0	
1041	99	174	16:52:16.866	488FH6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	5,052,002:76:0	
1042	99	174	17:46:19.533	488FH6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	400	4	0	5,052,056:26:0	
1043	99	174	18:24:58.200	488FH6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	5,052,094:46:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1044	99	175	00:51:48.200	488F16A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	400	4	0	5,052,477:08:0	
1045	99	175	00:58:40.866	488F16B	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	400	4	0	5,052,483:81:0	
1046	99	175	01:47:04.866	488F16C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	5,052,531:69:0	
1047	99	175	01:56:16.866	488F16D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	5,052,540:78:0	
1048	99	175	02:21:16.200	488F16E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	400	4	0	5,052,565:52:0	
1049	99	175	02:54:55.533	488F16A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	5,052,598:78:0	
1050	99	175	03:51:28.866	488F16B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	5,052,654:72:0	
1051	99	175	06:05:00.200	488F16C	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	400	4	0	5,052,786:77:0	
1052	99	175	06:08:11.533	176SL6A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	400	4	0	5,052,790:00:0	
1053	99	175	06:39:00.200	20SV41	7MODE	INT	AACS INERTIAL MODE	400	4	0	5,052,820:43:0	
1054	99	175	06:54:00.200	20SV4K	7SLEW	INIT,POS,17.45	Stator movement	400	4	0	5,052,835:28:0	
1055	99	175	07:06:00.200	20SV4L	7SLEW	DIS,POS,0.0	Stator movement	400	4	0	5,052,847:16:0	
1056	99	175	07:13:00.200	20SV4M	7SLEW	INIT,NEG,17.45	Stator movement	400	4	0	5,052,854:09:0	
1057	99	175	07:18:45.533	488F16D	6TMSED	FILL,AH5	Sci, Eng, and D/L Chan	400	4	0	5,052,859:72:0	
1058	99	175	07:22:40.866	488F16E	6TMSED	FILL,AH3	Sci, Eng, and D/L Chan	400	4	0	5,052,863:61:0	
1059	99	175	07:25:00.200	20SV4N	7SLEW	DIS,POS,0.0	Stator movement	400	4	0	5,052,865:88:0	
1060	99	175	07:37:00.200	20SV4AH	7MODE	CRU	AACS CRUISE MODE	400	4	0	5,052,877:76:0	
1061	99	175	07:53:04.200	20SU4A	7SAFE	STOP	S/P NO MOVEMENT	400	4	0	5,052,893:66:0	
1062	99	175	07:53:54.200	20SU4B	7SLEW	DIS,POS,0.0	Stator movement	400	4	0	5,052,894:50:0	
1063	99	175	07:54:21.533	176TE6A	6TMREC	RPB	RESUME PLAYBACK (PB CONTROL) Record Mode	400	4	0	5,052,895:00:0	
1064	99	175	08:13:00.200	488FK6A	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	400	4	0	5,052,913:40:0	
1065	99	175	16:32:09.533	488FL6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	5,053,407:10:0	
1066	99	175	16:52:16.200	488FL6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	5,053,427:00:0	
1067	99	175	17:46:11.533	488FL6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	400	4	0	5,053,480:30:0	
1068	99	175	18:19:50.200	488FL6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	5,053,513:55:0	
1069	99	176	01:09:20.800	488FM6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	5,053,918:56:0	
1070	99	176	01:27:06.133	488FM6B	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	400	4	0	5,053,936:16:0	
1071	99	176	01:32:48.800	488FM6C	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	400	4	0	5,053,941:75:0	
1072	99	176	02:09:04.800	488FM6D	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	400	4	0	5,053,977:63:0	
1073	99	176	09:02:15.466	488FN6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	5,054,386:30:0	
1074	99	176	09:26:24.800	488FN6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	5,054,410:20:0	
1075	99	176	10:26:06.133	488FN6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	400	4	0	5,054,469:23:0	
1076	99	176	10:59:45.466	488FN6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	5,054,502:49:0	
1077	99	176	17:11:28.133	488FO6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	5,054,870:15:0	
1078	99	176	17:48:49.466	488FO6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	400	4	0	5,054,907:10:0	
1079	99	176	18:17:55.466	488FO6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	5,054,935:81:0	
1080	99	176	18:23:00.133	488FO6D	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	400	4	0	5,054,940:83:0	
1081	99	176	18:27:08.133	176SF6A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	400	4	0	5,054,945:00:0	
1082	99	176	18:39:00.133	20CA4C	7STAT	10.00,114.7742,-	Stator inertial point	400	4	0	5,054,956:67:0	
1083	99	176	18:39:12.133	20CA6A	6MROH	7,6744,0,A10	read from AACSA7,6744,0,A10	400	4	0	5,054,956:85:0	
1084	99	176	19:00:00.133	474CA416A4B	7MODE	INT	AACS INERTIAL MODE	400	4	0	5,054,977:46:0	
1085	99	176	19:02:00.133	474CA416A4D	7SAFE	UNSTOP	S/P TO 153 deg cone	400	4	0	5,054,979:44:0	
1086	99	176	19:02:20.133	20CA4D	7STAT	17.45,114.7742,-	Stator inertial point	400	4	0	5,054,979:74:0	
1087	99	176	19:06:14.133	474CA416A4E	7BUJRN	,114.774199,-10.	ALERT -- Thruster fire	400	4	0	5,054,983:61:0	
1088	99	176	19:16:14.800	20CA4F	7SLEW	DIS,POS,0.0	Stator movement	400	4	0	5,054,993:52:0	
1089	99	176	19:22:06.800	20CA4G	7MODE	CRU	AACS CRUISE MODE	400	4	0	5,054,999:34:0	
1090	99	176	19:43:22.800	20CA4L	7STAT	10.00,114.7742,-	Stator inertial point	400	4	0	5,055,020:37:0	
1091	99	176	19:49:22.800	20CA4O	7MODE	INT	AACS INERTIAL MODE	400	4	0	5,055,026:31:0	
1092	99	176	19:51:23.466	474CA416A4G	7BUJRN	T,114.774199,-10	ALERT -- Thruster fire	400	4	0	5,055,028:30:0	
1093	99	176	19:58:18.133	20CA4Q	7SLEW	DIS,POS,0.0	Stator movement	400	4	0	5,055,035:15:0	
1094	99	176	20:03:10.133	20CA4R	7MODE	CRU	AACS CRUISE MODE	400	4	0	5,055,039:89:0	
1095	99	176	21:10:42.133	20CB4A	7SAFE	STOP	S/P NO MOVEMENT	400	4	0	5,055,106:70:0	
1096	99	176	21:11:32.133	20CB4B	7SLEW	DIS,POS,0.0	Stator movement	400	4	0	5,055,107:54:0	
1097	99	176	21:12:57.466	176CA6A	6TMREC	RPB	RESUME PLAYBACK (PB CONTROL) Record Mode	400	4	0	5,055,109:00:0	
1098	99	176	23:31:00.133	488FP6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	5,055,245:48:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1099	99	176	23:31:28.800	176SG6A	6TMREC	RPB	RESUME PLAYBACK (PB CONTROL) Record Mode	400	4	0	5,055,246:00:0	
1100	99	177	00:00:00.133	41AC99A	POWER	PWR MODE change	Change to Data Taking Mode	400	4	0	5,055,274:19:0	
1101	99	177	00:00:04.133	41AC3A	40T1PR		1 PCT Heater 1 OFF (primary relay)	400	4	0	5,055,274:25:0	
1102	99	177	00:00:14.133	41AC3B	40T1PR		2 PCT Heater 1 OFF (primary relay)	400	4	0	5,055,274:40:0	
1103	99	177	00:00:24.133	41AC3C	40T2R		1 PCT Heater 2 OFF	400	4	0	5,055,274:55:0	
1104	99	177	00:00:34.133	41AC3D	40T2R		2 PCT Heater 2 OFF	400	4	0	5,055,274:70:0	
1105	99	177	00:39:28.133	488FP6B	6TMSED	NORM,AL4	Sci, Eng. and D/L Chan	400	4	0	5,055,313:22:0	
1106	99	177	01:28:32.133	488FP6C	6TMSED	NORM,AL3	Sci, Eng. and D/L Chan	400	4	0	5,055,361:70:0	
1107	99	177	02:11:12.133	488FP6D	6TMSED	NORM,AL4	Sci, Eng. and D/L Chan	400	4	0	5,055,403:88:0	
1108	99	177	03:01:00.133	488FP6E	6TMSED	FILL,AL4	Sci, Eng. and D/L Chan	400	4	0	5,055,453:20:0	
1109	99	177	03:34:39.466	488FQ6A	6TMSED	NORM,AL4	Sci, Eng. and D/L Chan	400	4	0	5,055,486:46:0	
1110	99	177	12:04:16.733	488FR6A	6TMSED	NORM,AL3	Sci, Eng. and D/L Chan	400	4	0	5,055,990:48:0	
1111	99	177	12:44:29.400	488FR6B	6TMSED	FILL,AL3	Sci, Eng. and D/L Chan	400	4	0	5,056,030:27:0	
1112	99	177	12:44:48.733	488FR6C	6TMSED	FILL,AL2	Sci, Eng. and D/L Chan	400	4	0	5,056,030:56:0	
1113	99	177	13:01:52.733	488FR6D	6TMSED	FILL,AL4	Sci, Eng. and D/L Chan	400	4	0	5,056,047:45:0	
1114	99	177	16:21:05.400	488FR6E	6TMSED	NORM,AL4	Sci, Eng. and D/L Chan	400	4	0	5,056,244:47:0	
1115	99	177	17:17:52.733	488FS6A	6TMSED	NORM,AL5	Sci, Eng. and D/L Chan	400	4	0	5,056,300:62:0	
1116	99	177	21:59:16.733	432MC431A6A	6RCDL	DDSDSL,PLSNCG,EP	Record Deselect (DDS o	400	4	0	5,056,578:90:0	
1117	99	177	21:59:17.400	432MC6A	6RTSL1		R/T Select of DDS and	400	4	0	5,056,579:00:0	
1118	99	178	00:28:48.066	488FT6A	6TMSED	NORM,AL4	Sci, Eng. and D/L Chan	400	4	0	5,056,726:79:0	
1119	99	178	01:24:16.066	488FT6B	6TMSED	NORM,AL3	Sci, Eng. and D/L Chan	400	4	0	5,056,781:66:0	
1120	99	178	01:41:20.066	488FT6C	6TMSED	NORM,AL4	Sci, Eng. and D/L Chan	400	4	0	5,056,798:55:0	
1121	99	178	04:57:36.066	488FT6D	6TMSED	NORM,AL5	Sci, Eng. and D/L Chan	400	4	0	5,056,992:65:0	
1122	99	178	08:50:08.066	488FU6A	6TMSED	NORM,AL3	Sci, Eng. and D/L Chan	400	4	0	5,057,222:63:0	
1123	99	178	09:26:24.066	488FU6B	6TMSED	NORM,AL4	Sci, Eng. and D/L Chan	400	4	0	5,057,258:51:0	
1124	99	178	10:20:50.066	488FU6C	6TMSED	FILL,AL4	Sci, Eng. and D/L Chan	400	4	0	5,057,312:36:0	
1125	99	178	10:54:29.400	488FU6D	6TMSED	NORM,AL4	Sci, Eng. and D/L Chan	400	4	0	5,057,345:62:0	
1126	99	178	16:13:52.666	488FV6A	6TMSED	NORM,AL3	Sci, Eng. and D/L Chan	400	4	0	5,057,661:51:0	
1127	99	178	16:52:16.666	488FV6B	6TMSED	NORM,AL4	Sci, Eng. and D/L Chan	400	4	0	5,057,699:49:0	
1128	99	178	17:30:47.333	488FV6C	6TMSED	FILL,AL4	Sci, Eng. and D/L Chan	400	4	0	5,057,737:57:0	
1129	99	178	18:09:26.666	488FV6D	6TMSED	NORM,AL4	Sci, Eng. and D/L Chan	400	4	0	5,057,775:78:0	
1130	99	178	21:47:31.333	488FV6E	6TMSED	FILL,AL4	Sci, Eng. and D/L Chan	400	4	0	5,057,991:49:0	
1131	99	178	21:55:12.666	488FW6A	6TMSED	FILL,AL3	Sci, Eng. and D/L Chan	400	4	0	5,057,999:13:0	
1132	99	179	01:22:37.333	488FW6B	6TMSED	NORM,AL3	Sci, Eng. and D/L Chan	400	4	0	5,058,204:25:0	
1133	99	179	01:41:20.666	488FW6C	6TMSED	NORM,AL4	Sci, Eng. and D/L Chan	400	4	0	5,058,222:72:0	
1134	99	179	05:46:40.000	488FX6A	6TMSED	NORM,AL5	Sci, Eng. and D/L Chan	400	4	0	5,058,465:38:0	
1135	99	179	07:35:08.000	488FX6B	6TMSED	FILL,AL5	Sci, Eng. and D/L Chan	400	4	0	5,058,572:63:0	
1136	99	179	07:39:44.000	488FX6C	6TMSED	FILL,AL4	Sci, Eng. and D/L Chan	400	4	0	5,058,577:22:0	
1137	99	179	16:16:22.666	488FY6A	6TMSED	NORM,AL4	Sci, Eng. and D/L Chan	400	4	0	5,059,088:19:0	
1138	99	179	17:22:08.000	488FY6B	6TMSED	NORM,AL5	Sci, Eng. and D/L Chan	400	4	0	5,059,153:22:0	
1139	99	179	20:48:55.933	488FY6C	6TMSED	FILL,AL5	Sci, Eng. and D/L Chan	400	4	0	5,059,357:70:0	
1140	99	179	20:53:20.600	488FY6D	6TMSED	FILL,AL2	Sci, Eng. and D/L Chan	400	4	0	5,059,362:12:0	
1141	99	180	01:26:45.933	488FZ6A	6TMSED	NORM,AL2	Sci, Eng. and D/L Chan	400	4	0	5,059,632:50:0	
1142	99	180	01:32:48.600	488FZ6B	6TMSED	NORM,AL3	Sci, Eng. and D/L Chan	400	4	0	5,059,638:48:0	
1143	99	180	02:11:12.600	488FZ6C	6TMSED	NORM,AL4	Sci, Eng. and D/L Chan	400	4	0	5,059,676:46:0	
1144	99	180	02:45:35.266	488FZ6D	6TMSED	FILL,AL4	Sci, Eng. and D/L Chan	400	4	0	5,059,710:46:0	
1145	99	180	03:19:14.600	488FZ6E	6TMSED	NORM,AL4	Sci, Eng. and D/L Chan	400	4	0	5,059,743:72:0	
1146	99	180	06:24:29.266	176SP6A	6TMREC	TPB	TERMINATE PLAYBACK (PB CONTROL) Record Mo	400	4	0	5,059,927:00:0	
1147	99	180	06:59:59.933		DMS:	: READY	RDY, TRACK 1, FWD, TIC 202.12 +/-	400	4	0	5,059,962:11:0	
1148	99	180	07:00:00.000	20A3EX	37HR	Final Condition	Replacement Heaters OFF	400	4	0	5,059,962:11:1	
1149	99	180	07:00:00.000	20A3EW	37A	Final Condition	NIMS Power ON	400	4	0	5,059,962:11:1	
1150	99	180	07:00:00.000	20A3EY	37C1PR	Final Condition	Optics Heater 1 OFF (primary relay)	400	4	0	5,059,962:11:1	
1151	99	180	07:00:00.000	20A3EZ	37C2PR	Final Condition	Optics Heater 2 OFF (primary relay)	400	4	0	5,059,962:11:1	
1152	99	180	07:00:00.000	20A3FA	37F1PR	Final Condition	Radiator Flash Heater OFF (primary relay)	400	4	0	5,059,962:11:1	
1153	99	180	07:00:00.000	20A3FB	37F2PR	Final Condition	Shield Flash Heater OFF (primary relay)	400	4	0	5,059,962:11:1	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1154	99	180	07:00:00.000	20A3FD	40HRPR	Final Condition	RCT Heater OFF (primary relay)	400	4	0	5,059,962:11:1	
1155	99	180	07:00:00.000	20A3FE	40T1PR	Final Condition	PCT Heater 1 OFF (primary relay)	400	4	0	5,059,962:11:1	
1156	99	180	07:00:00.000	20A3FF	40T2R	Final Condition	PCT Heater 2 OFF	400	4	0	5,059,962:11:1	

20INHRSPEC01

```

OAPEL: 20INHRSPEC01      ALIAS: 20INHRSPEC01
EXT: A                    PSID: DA
SCLK1: 04978128:00:0     SCLK2: 04978130:90:0
SCET1: 99-122/19:56:39.466 SCET2: 99-122/19:59:41.466
TARGET: IO                PARTITION: 1
  
```

```

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

```

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

```

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

```

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

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1A100	1,1010,0001,0000,0000
1	1BDFF	1,1011,1101,1111,1111
2	1A100	1,1010,0001,0000,0000
3	1BDFF	1,1011,1101,1111,1111
4	1A100	1,1010,0001,0000,0000
5	1BDFF	1,1011,1101,1111,1111
6	1A100	1,1010,0001,0000,0000
7	1BDFF	1,1011,1101,1111,1111
8	1A100	1,1010,0001,0000,0000
9	1BDFF	1,1011,1101,1111,1111
10	1A100	1,1010,0001,0000,0000
11	1BDFF	1,1011,1101,1111,1111
12	1A100	1,1010,0001,0000,0000
13	1BDFF	1,1011,1101,1111,1111
14	1A100	1,1010,0001,0000,0000
15	1BDFF	1,1011,1101,1111,1111
16	1A100	1,1010,0001,0000,0000
17	1BDFF	1,1011,1101,1111,1111
18	1A100	1,1010,0001,0000,0000
19	1BDFF	1,1011,1101,1111,1111
20	1A100	1,1010,0001,0000,0000
21	1BDFF	1,1011,1101,1111,1111
22	1A100	1,1010,0001,0000,0000
23	1BDFF	1,1011,1101,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

20ENECLPSE01

```

OAPEL: 20ENECLPSE01      ALIAS: 20ENECLPSE01
EXT: A                    PSID: DB
SCLK1: 04978443:00:0     SCLK2: 04978445:90:0
SCET1: 99-123/01:15:09.466 SCET2: 99-123/01:18:10.800
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, 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

20NNOPCAL_02

```

OAPEL: 20NNOPCAL_02          ALIAS: 20ENECLPSE01
EXT: A                        PSID: DB
SCLK1: 04978446:00:0        SCLK2: 04978446:87:0
SCET1: 99-123/01:18:11.466  SCET2: 99-123/01:19:09.466
TARGET: CAL                  PARTITION: 1
  
```

```

MODE: 3                      GAIN: 4
CHOP: 1                      GRAT_OFF: 4
PTAB_A: 1 1 0 0 124        PTAB_B: 1 1 0 0 124
ECAL: 0                      OPCAL: 1
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: 48              TLMFMT: MPW
  
```

```

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

```

WETGID: 0326048001        03 26 048 001
WTGRP_SIZ: 26
  
```

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

20JNJUPRTS01

```

OAPEL: 20JNJUPRTS01      ALIAS: 20JNJUPRTS01
EXT: R                    PSID: DH
SCLK1: 04978642:00:0     SCLK2: 04978651:12:0
SCET1: 1999-123/04:36:22.133 SCET2: 1999-123/04:45:36.133
TARGET: JUPITER          PARTITION: 1
  
```

```

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

```

MB_DOWN: 11011          MB_UP: 11011
COMP_FLAG: 1
EST_COMP: 2.0           EST_COMPV: 0.3
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

20JNJUPRTS02

```

OAPEL: 20JNJUPRTS02      ALIAS: 20JNJUPRTS02
EXT: R                    PSID: DI
SCLK1: 04978762:00:0     SCLK2: 04978771:12:0
SCET1: 1999-123/06:37:42.133 SCET2: 1999-123/06:46:56.133
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: 1                    RECORD: 0
  
```

```

MB_DOWN: 10011           MB_UP: 11001
COMP_FLAG: 1
EST_COMP: 2.0            EST_COMPV: 0.3
RATE_CON1: 00000        RATE_CON2: 00000
NWAVETOT: 204           TLMFMT: RT
  
```

```

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

```

WETGID: 0303204000      03 03 204 000
WTGRP_SIZ: 3
  
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	000FF	0,0000,0000,1111,1111
1	000FF	0,0000,0000,1111,1111
2	000FF	0,0000,0000,1111,1111
3	000FF	0,0000,0000,1111,1111
4	000FF	0,0000,0000,1111,1111
5	000FF	0,0000,0000,1111,1111
6	000FF	0,0000,0000,1111,1111
7	000FF	0,0000,0000,1111,1111
8	000FF	0,0000,0000,1111,1111
9	000FF	0,0000,0000,1111,1111
10	000FF	0,0000,0000,1111,1111
11	000FF	0,0000,0000,1111,1111
12	001FF	0,0000,0001,1111,1111
13	001FF	0,0000,0001,1111,1111
14	001FF	0,0000,0001,1111,1111
15	001FF	0,0000,0001,1111,1111
16	001FF	0,0000,0001,1111,1111
17	001FF	0,0000,0001,1111,1111
18	001FF	0,0000,0001,1111,1111
19	001FF	0,0000,0001,1111,1111
20	001FF	0,0000,0001,1111,1111
21	001FF	0,0000,0001,1111,1111
22	001FF	0,0000,0001,1111,1111
23	001FF	0,0000,0001,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

20JNGRWAKE01

```

OAPEL: 20JNGRWAKE01      ALIAS: 20JNGRWAKE01
EXT: A                    PSID: DC
SCLK1: 04978968:22:0     SCLK2: 04978975:55:0
SCET1: 99-123/10:06:14.800 SCET2: 99-123/10:13:40.800
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: 100          TLMFMT: LPU
  
```

```

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

```

WETGID: 0326100001      03 26 100 001
WTGRP_SIZ: 26
  
```

EDIT TABLE

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

20JNGRWAKE02

```

OAPEL: 20JNGRWAKE02      ALIAS: 20JNGRWAKE02
EXT: A                    PSID: DE
SCLK1: 04979047:51:0     SCLK2: 04979054:55:0
SCET1: 99-123/11:26:26.133 SCET2: 99-123/11:33:33.466
TARGET: JUPITER          PARTITION: 1
  
```

```

MODE: 3                   GAIN: 2
CHOP: 1                   GRAT_OFF: 4
PTAB_A: 1 1 0 0 124      PTAB_B: 1 1 0 0 124
ECAL: 0                   OPCAL: 0
R/T: 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: 140           TLMFMT: LPU
  
```

```

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

```

WETGID: 0326140001      03 26 140 001
WTGRP_SIZ: 26
  
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	11D80	1,0001,1101,1000,0000
1	11D80	1,0001,1101,1000,0000
2	11D80	1,0001,1101,1000,0000
3	11D80	1,0001,1101,1000,0000
4	11D80	1,0001,1101,1000,0000
5	11D81	1,0001,1101,1000,0001
6	11D80	1,0001,1101,1000,0000
7	19D80	1,1001,1101,1000,0000
8	1AD80	1,1010,1101,1000,0000
9	1AD80	1,1010,1101,1000,0000
10	0AD80	0,1010,1101,1000,0000
11	0AD80	0,1010,1101,1000,0000
12	0AD80	0,1010,1101,1000,0000
13	0AD80	0,1010,1101,1000,0000
14	0A980	0,1010,1001,1000,0000
15	0A980	0,1010,1001,1000,0000
16	1A980	1,1010,1001,1000,0000
17	1A980	1,1010,1001,1000,0000
18	1A900	1,1010,1001,0000,0000
19	1A900	1,1010,1001,0000,0000
20	12980	1,0010,1001,1000,0000
21	12980	1,0010,1001,1000,0000
22	12980	1,0010,1001,1000,0000
23	12980	1,0010,1001,1000,0000
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

20JNGRWAKE03

```

OAPEL: 20JNGRWAKE03      ALIAS: 20JNGRWAKE03
EXT: A                    PSID: DF
SCLK1: 04979082:00:0     SCLK2: 04979091:54:0
SCET1: 99-123/12:01:15.466 SCET2: 99-123/12:10:58.133
TARGET: JUPITER          PARTITION: 1
  
```

```

MODE: 3                   GAIN: 2
CHOP: 1                   GRAT_OFF: 4
PTAB_A: 1 1 0 0 124      PTAB_B: 1 1 0 0 124
ECAL: 0                   OPCAL: 0
R/T: 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: 140          TLMFMT: LPU
  
```

```

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

```

WETGID: 0326140001      03 26 140 001
WTGRP_SIZ: 26
  
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	11D80	1,0001,1101,1000,0000
1	11D80	1,0001,1101,1000,0000
2	11D80	1,0001,1101,1000,0000
3	11D80	1,0001,1101,1000,0000
4	11D80	1,0001,1101,1000,0000
5	11D81	1,0001,1101,1000,0001
6	11D80	1,0001,1101,1000,0000
7	19D80	1,1001,1101,1000,0000
8	1AD80	1,1010,1101,1000,0000
9	1AD80	1,1010,1101,1000,0000
10	0AD80	0,1010,1101,1000,0000
11	0AD80	0,1010,1101,1000,0000
12	0AD80	0,1010,1101,1000,0000
13	0AD80	0,1010,1101,1000,0000
14	0A980	0,1010,1001,1000,0000
15	0A980	0,1010,1001,1000,0000
16	1A980	1,1010,1001,1000,0000
17	1A980	1,1010,1001,1000,0000
18	1A900	1,1010,1001,0000,0000
19	1A900	1,1010,1001,0000,0000
20	12980	1,0010,1001,1000,0000
21	12980	1,0010,1001,1000,0000
22	12980	1,0010,1001,1000,0000
23	12980	1,0010,1001,1000,0000
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

20JNHOTMAP02

```

OAPEL: 20JNHOTMAP02      ALIAS: 20JNHOTMAP02
EXT: A                    PSID: DG
SCLK1: 04979127:52:0     SCLK2: 04979134:50:0
SCET1: 99-123/12:47:20.133 SCET2: 99-123/12:54:23.466
TARGET: JUPITER          PARTITION: 1
  
```

```

MODE: 3                   GAIN: 2
CHOP: 1                   GRAT_OFF: 4
PTAB_A: 1 1 0 0 124      PTAB_B: 1 1 0 0 124
ECAL: 0                   OPCAL: 0
R/T: 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: 140           TLMFMT: LPU
  
```

```

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

```

WETGID: 0326140001      03 26 140 001
WTGRP_SIZ: 26
  
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	11D80	1,0001,1101,1000,0000
1	11D80	1,0001,1101,1000,0000
2	11D80	1,0001,1101,1000,0000
3	11D80	1,0001,1101,1000,0000
4	11D80	1,0001,1101,1000,0000
5	11D81	1,0001,1101,1000,0001
6	11D80	1,0001,1101,1000,0000
7	19D80	1,1001,1101,1000,0000
8	1AD80	1,1010,1101,1000,0000
9	1AD80	1,1010,1101,1000,0000
10	0AD80	0,1010,1101,1000,0000
11	0AD80	0,1010,1101,1000,0000
12	0AD80	0,1010,1101,1000,0000
13	0AD80	0,1010,1101,1000,0000
14	0A980	0,1010,1001,1000,0000
15	0A980	0,1010,1001,1000,0000
16	1A980	1,1010,1001,1000,0000
17	1A980	1,1010,1001,1000,0000
18	1A900	1,1010,1001,0000,0000
19	1A900	1,1010,1001,0000,0000
20	12980	1,0010,1001,1000,0000
21	12980	1,0010,1001,1000,0000
22	12980	1,0010,1001,1000,0000
23	12980	1,0010,1001,1000,0000
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

20JNJUPRTS03

```

OAPEL: 20JNJUPRTS03      ALIAS: 20JNJUPRTS03
EXT: R                    PSID: UD
SCLK1: 04979739:00:0     SCLK2: 04979748:12:0
SCET1: 1999-123/23:05:33.466 SCET2: 1999-123/23:14:47.466
TARGET: JUPITER          PARTITION: 1
  
```

```

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

```

MB_DOWN: 11011          MB_UP: 11011
COMP_FLAG: 1
EST_COMP: 2.0           EST_COMPV: 0.3
RATE_CON1: 00000        RATE_CON2: 00000
NWAVETOT: 408           TLMFMT: RT
  
```

```

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

```

WETGID: 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

20CNCATMOS01

```

OAPEL: 20CNCATMOS01      ALIAS: 20CNCATMOS01
EXT: A                    PSID: DL
SCLK1: 04982075:00:0     SCLK2: 04982084:73:0
SCET1: 99-125/14:27:30.666 SCET2: 99-125/14:37:26.000
TARGET: CALLISTO        PARTITION: 1
  
```

```

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

```

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

```

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

```

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

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	03DFF	0,0011,1101,1111,1111
1	021CA	0,0010,0001,1100,1010
2	03DFF	0,0011,1101,1111,1111
3	021CA	0,0010,0001,1100,1010
4	03DFF	0,0011,1101,1111,1111
5	021CA	0,0010,0001,1100,1010
6	03DFF	0,0011,1101,1111,1111
7	021CA	0,0010,0001,1100,1010
8	03DFF	0,0011,1101,1111,1111
9	021CA	0,0010,0001,1100,1010
10	03DFF	0,0011,1101,1111,1111
11	021CA	0,0010,0001,1100,1010
12	03DFF	0,0011,1101,1111,1111
13	021CA	0,0010,0001,1100,1010
14	03DFF	0,0011,1101,1111,1111
15	021CA	0,0010,0001,1100,1010
16	03DFF	0,0011,1101,1111,1111
17	021CA	0,0010,0001,1100,1010
18	03DFF	0,0011,1101,1111,1111
19	021CA	0,0010,0001,1100,1010
20	03DFF	0,0011,1101,1111,1111
21	021CA	0,0010,0001,1100,1010
22	03DFF	0,0011,1101,1111,1111
23	021CA	0,0010,0001,1100,1010
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

20CNFEATRE01

```

OAPEL: 20CNFEATRE01      ALIAS: 20CNFEATRE01
EXT: A                    PSID: DK
SCLK1: 04982086:00:0     SCLK2: 04982090:38:0
SCET1: 99-125/14:38:38.000 SCET2: 99-125/14:43:06.666
TARGET: CALLISTO        PARTITION: 1
  
```

```

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

```

MB_DOWN: 00000           MB_UP: 00000
COMP_FLAG: 1
EST_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, 000, 000
  
```

```

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

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	03018	0,0011,0000,0001,1000
1	1BDFF	1,1011,1101,1111,1111
2	03018	0,0011,0000,0001,1000
3	1BDFF	1,1011,1101,1111,1111
4	03018	0,0011,0000,0001,1000
5	1BDFF	1,1011,1101,1111,1111
6	03018	0,0011,0000,0001,1000
7	1BDFF	1,1011,1101,1111,1111
8	03018	0,0011,0000,0001,1000
9	1BDFF	1,1011,1101,1111,1111
10	03018	0,0011,0000,0001,1000
11	1BDFF	1,1011,1101,1111,1111
12	03018	0,0011,0000,0001,1000
13	1BDFF	1,1011,1101,1111,1111
14	03018	0,0011,0000,0001,1000
15	1BDFF	1,1011,1101,1111,1111
16	03018	0,0011,0000,0001,1000
17	1BDFF	1,1011,1101,1111,1111
18	03018	0,0011,0000,0001,1000
19	1BDFF	1,1011,1101,1111,1111
20	03018	0,0011,0000,0001,1000
21	1BDFF	1,1011,1101,1111,1111
22	03018	0,0011,0000,0001,1000
23	1BDFF	1,1011,1101,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

20CNFEATRE01

```

OAPEL: 20CNFEATRE01      ALIAS: 20CNFEATRE01
EXT: B                    PSID: DK
SCLK1: 04982086:00:0     SCLK2: 04982090:38:0
SCET1: 99-125/14:38:38.000 SCET2: 99-125/14:43:06.666
TARGET: CALLISTO        PARTITION: 1
  
```

```

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

```

MB_DOWN: 00000           MB_UP: 00000
COMP_FLAG: 1
EST_COMP: 2.0           EST_COMPV: 0.3
RATE_CON1: 00000       RATE_CON2: 65525
NWAVETOT: 132          TLMFMT: MPW
  
```

```

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

```

WETGID: 0326132001      03 26 132 001
WTGRP_SIZ: 26
  
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	18DE7	1,1000,1101,1110,0111
1	00000	0,0000,0000,0000,0000
2	18DE7	1,1000,1101,1110,0111
3	00000	0,0000,0000,0000,0000
4	18DE7	1,1000,1101,1110,0111
5	00000	0,0000,0000,0000,0000
6	18DE7	1,1000,1101,1110,0111
7	00000	0,0000,0000,0000,0000
8	18DE7	1,1000,1101,1110,0111
9	00000	0,0000,0000,0000,0000
10	18DE7	1,1000,1101,1110,0111
11	00000	0,0000,0000,0000,0000
12	18DE7	1,1000,1101,1110,0111
13	00000	0,0000,0000,0000,0000
14	18DE7	1,1000,1101,1110,0111
15	00000	0,0000,0000,0000,0000
16	18DE7	1,1000,1101,1110,0111
17	00000	0,0000,0000,0000,0000
18	18DE7	1,1000,1101,1110,0111
19	00000	0,0000,0000,0000,0000
20	18DE7	1,1000,1101,1110,0111
21	00000	0,0000,0000,0000,0000
22	18DE7	1,1000,1101,1110,0111
23	00000	0,0000,0000,0000,0000
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

20CNFEATRE01

```

OAPEL: 20CNFEATRE01      ALIAS: 20CNFEATRE01
EXT: C                    PSID: DK
SCLK1: 04982090:51:0     SCLK2: 04982095:03:0
SCET1: 99-125/14:43:15.333 SCET2: 99-125/14:47:46.000
TARGET: CALLISTO        PARTITION: 1
  
```

```

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

```

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

```

THRESHOLD_SEL: 0
THRESHOLD_VALUES: 000, 000, 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

20CNFEATRE02

```

OAPEL: 20CNFEATRE02      ALIAS: 20CNFEATRE02
EXT: A                    PSID: DM
SCLK1: 04982106:00:0     SCLK2: 04982123:86:0
SCET1: 99-125/14:58:51.333 SCET2: 99-125/15:17:00.000
TARGET: CALLISTO        PARTITION: 1
  
```

```

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

```

MB_DOWN: 00000           MB_UP: 00000
COMP_FLAG: 1
EST_COMP: 2.0           EST_COMPV: 0.3
RATE_CON1: 00000        RATE_CON2: 65525
NWAVETOT: 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, 000, 000
  
```

```

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

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	03018	0,0011,0000,0001,1000
1	1BDFF	1,1011,1101,1111,1111
2	03018	0,0011,0000,0001,1000
3	1BDFF	1,1011,1101,1111,1111
4	03018	0,0011,0000,0001,1000
5	1BDFF	1,1011,1101,1111,1111
6	03018	0,0011,0000,0001,1000
7	1BDFF	1,1011,1101,1111,1111
8	03018	0,0011,0000,0001,1000
9	1BDFF	1,1011,1101,1111,1111
10	03018	0,0011,0000,0001,1000
11	1BDFF	1,1011,1101,1111,1111
12	03018	0,0011,0000,0001,1000
13	1BDFF	1,1011,1101,1111,1111
14	03018	0,0011,0000,0001,1000
15	1BDFF	1,1011,1101,1111,1111
16	03018	0,0011,0000,0001,1000
17	1BDFF	1,1011,1101,1111,1111
18	03018	0,0011,0000,0001,1000
19	1BDFF	1,1011,1101,1111,1111
20	03018	0,0011,0000,0001,1000
21	1BDFF	1,1011,1101,1111,1111
22	03018	0,0011,0000,0001,1000
23	1BDFF	1,1011,1101,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

20CNFEATRE03

```

OAPEL: 20CNFEATRE03      ALIAS: 20CNFEATRE03
EXT: A                    PSID: DN
SCLK1: 04982140:00:0     SCLK2: 04982149:75:0
SCET1: 99-125/15:33:14.000 SCET2: 99-125/15:43:10.666
TARGET: CALLISTO        PARTITION: 1
  
```

```

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

```

MB_DOWN: 00000          MB_UP: 00000
COMP_FLAG: 1
EST_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, 000, 000
  
```

```

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

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	03018	0,0011,0000,0001,1000
1	1BDFF	1,1011,1101,1111,1111
2	03018	0,0011,0000,0001,1000
3	1BDFF	1,1011,1101,1111,1111
4	03018	0,0011,0000,0001,1000
5	1BDFF	1,1011,1101,1111,1111
6	03018	0,0011,0000,0001,1000
7	1BDFF	1,1011,1101,1111,1111
8	03018	0,0011,0000,0001,1000
9	1BDFF	1,1011,1101,1111,1111
10	03018	0,0011,0000,0001,1000
11	1BDFF	1,1011,1101,1111,1111
12	03018	0,0011,0000,0001,1000
13	1BDFF	1,1011,1101,1111,1111
14	03018	0,0011,0000,0001,1000
15	1BDFF	1,1011,1101,1111,1111
16	03018	0,0011,0000,0001,1000
17	1BDFF	1,1011,1101,1111,1111
18	03018	0,0011,0000,0001,1000
19	1BDFF	1,1011,1101,1111,1111
20	03018	0,0011,0000,0001,1000
21	1BDFF	1,1011,1101,1111,1111
22	03018	0,0011,0000,0001,1000
23	1BDFF	1,1011,1101,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

20CNBRANCR01

```

OAPEL: 20CNBRANCR01      ALIAS: 20CNBRANCR01
EXT: A                    PSID: DP
SCLK1: 04982173:00:0     SCLK2: 04982185:27:0
SCET1: 99-125/16:06:36.000 SCET2: 99-125/16:19:02.666
TARGET: CALLISTO        PARTITION: 1
  
```

```

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

```

MB_DOWN: 00000           MB_UP: 00000
COMP_FLAG: 1
EST_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, 000, 000
  
```

```

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

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	03018	0,0011,0000,0001,1000
1	1BDFF	1,1011,1101,1111,1111
2	03018	0,0011,0000,0001,1000
3	1BDFF	1,1011,1101,1111,1111
4	03018	0,0011,0000,0001,1000
5	1BDFF	1,1011,1101,1111,1111
6	03018	0,0011,0000,0001,1000
7	1BDFF	1,1011,1101,1111,1111
8	03018	0,0011,0000,0001,1000
9	1BDFF	1,1011,1101,1111,1111
10	03018	0,0011,0000,0001,1000
11	1BDFF	1,1011,1101,1111,1111
12	03018	0,0011,0000,0001,1000
13	1BDFF	1,1011,1101,1111,1111
14	03018	0,0011,0000,0001,1000
15	1BDFF	1,1011,1101,1111,1111
16	03018	0,0011,0000,0001,1000
17	1BDFF	1,1011,1101,1111,1111
18	03018	0,0011,0000,0001,1000
19	1BDFF	1,1011,1101,1111,1111
20	03018	0,0011,0000,0001,1000
21	1BDFF	1,1011,1101,1111,1111
22	03018	0,0011,0000,0001,1000
23	1BDFF	1,1011,1101,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

20CNGLOBAL01

```

OAPEL: 20CNGLOBAL01      ALIAS: 20CNGLOBAL01
EXT: A                    PSID: DO
SCLK1: 04982398:00:0     SCLK2: 04982424:85:0
SCET1: 99-125/19:54:06.000 SCET2: 99-125/20:21:20.000
TARGET: CALLISTO        PARTITION: 1
  
```

```

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

```

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

```

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

```

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

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	03018	0,0011,0000,0001,1000
1	1BDFF	1,1011,1101,1111,1111
2	03018	0,0011,0000,0001,1000
3	1BDFF	1,1011,1101,1111,1111
4	03018	0,0011,0000,0001,1000
5	1BDFF	1,1011,1101,1111,1111
6	03018	0,0011,0000,0001,1000
7	1BDFF	1,1011,1101,1111,1111
8	03018	0,0011,0000,0001,1000
9	1BDFF	1,1011,1101,1111,1111
10	03018	0,0011,0000,0001,1000
11	1BDFF	1,1011,1101,1111,1111
12	03018	0,0011,0000,0001,1000
13	1BDFF	1,1011,1101,1111,1111
14	03018	0,0011,0000,0001,1000
15	1BDFF	1,1011,1101,1111,1111
16	03018	0,0011,0000,0001,1000
17	1BDFF	1,1011,1101,1111,1111
18	03018	0,0011,0000,0001,1000
19	1BDFF	1,1011,1101,1111,1111
20	03018	0,0011,0000,0001,1000
21	1BDFF	1,1011,1101,1111,1111
22	03018	0,0011,0000,0001,1000
23	1BDFF	1,1011,1101,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

20NNOPCAL_03

```

OAPEL: 20NNOPCAL_03          ALIAS: 20CNGLOBAL01
EXT: A                        PSID: DO
SCLK1: 04982425:00:0        SCLK2: 04982425:74:0
SCET1: 99-125/20:21:24.000  SCET2: 99-125/20:22:13.333
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: 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: 48              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: 0326048001        03 26 048 001
WTGRP_SIZ: 26
  
```

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

20NNPCTRLT01

```

OAPEL: 20NNPCTRLT01      ALIAS: LSNNPCTRLT01
EXT: R                    PSID: FB
SCLK1: 05001214:00:0     SCLK2: 05001215:12:0
SCET1: 1999-139/00:59:09.333 SCET2: 1999-139/01:00:18.000
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: 1
EST_COMP: 2.0           EST_COMPV: 0.3
RATE_CON1: 00000       RATE_CON2: 00000
NWAVETOT: 252          TLMFMT: RT
  
```

```

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

```

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

EDIT TABLE

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

20NNPCTRLT01

```

OAPEL: 20NNPCTRLT01      ALIAS: LSNNPCTRLT01
EXT: S                    PSID: FB
SCLK1: 05001220:00:0     SCLK2: 05001229:12:0
SCET1: 1999-139/01:05:13.333  SCET2: 1999-139/01:14:27.333
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: 1
EST_COMP: 2.0           EST_COMPV: 0.3
RATE_CON1: 00000        RATE_CON2: 00000
NWAVETOT: 252           TLMFMT: RT
  
```

```

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

```

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

EDIT TABLE

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

20NNRCTRLT01

```

OAPEL: 20NNRCTRLT01      ALIAS: LSNNRCTRRTA01
EXT: R                    PSID: XU
SCLK1: 05028249:00:0     SCLK2: 05028249:12:0
SCET1: 1999-158/00:34:31.733 SCET2: 1999-158/00:34:39.733
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: 1
EST_COMP: 2.0           EST_COMPV: 0.3
RATE_CON1: 00000        RATE_CON2: 00000
NWAVETOT: 252          TLMFMT: RT
  
```

```

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

```

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

EDIT TABLE

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

20NNRCTRLT01

```

OAPEL: 20NNRCTRLT01      ALIAS: LSNNRCTRTA01
EXT: S                    PSID: XU
SCLK1: 05028255:00:0     SCLK2: 05028256:12:0
SCET1: 1999-158/00:40:35.733 SCET2: 1999-158/00:41:44.400
TARGET: CAL              PARTITION: 1
  
```

```

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

```

MB_DOWN: 11011          MB_UP: 11011
COMP_FLAG: 1
EST_COMP: 2.0           EST_COMPV: 0.3
RATE_CON1: 00000        RATE_CON2: 00000
NWAVETOT: 252           TLMFMT: RT
  
```

```

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

```

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

EDIT TABLE

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

20NNRCTRLT01

```

OAPEL: 20NNRCTRLT01      ALIAS: LSNRCTRRTA01
EXT: T                    PSID: XU
SCLK1: 05028261:00:0     SCLK2: 05028261:12:0
SCET1: 1999-158/00:46:39.733 SCET2: 1999-158/00:46:47.733
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: 1
EST_COMP: 2.0           EST_COMPV: 0.3
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

20NNOPCAL_01

```

OAPEL: 20NNOPCAL_01      ALIAS: LSNNOPCAL_01
EXT: R                    PSID: DC
SCLK1: 05028265:00:0     SCLK2: 05028267:12:0
SCET1: 1999-158/00:50:42.400 SCET2: 1999-158/00:52:51.733
TARGET: CAL              PARTITION: 1
  
```

```

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

```

MB_DOWN: 11011          MB_UP: 11011
COMP_FLAG: 1
EST_COMP: 2.0           EST_COMPV: 0.3
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 C20 OBSTAB

This is a time-ordered ASCII TABLE (listing) of GALILEO NIMS observation parameters for use by downlink data processing of the NIMS C20 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
 <tbdb> 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: <tbdb>
* SCLK1	13	28 - 40	.Start time of played-back OBS in SCLK	PBK (except realtime data: SEF)
* SCLK2	13	41 - 53	.Stop time of played-back OBS in SCLK	PBK (except realtime data: SEF)
* PARTITION	1	54 - 54	.Partition for SCLK1 and SCLK2.	
<spare>	9	55 - 63		
TARGET	8	64 - 71	.Primary Target of OBS	SEF: translate from 3rd char in OAPEL (activity ID)

```

-----
MODE      2 72 - 73      .NIMS Instrument MODE (0-15)      SEF: 37IOP, data byte 2, bits 5-8
GAIN      1 74 - 74      .Gain State (true value)          SEF: 37IST, data byte 3, bits 7-8 (if bit 6 = 1)
                                         0=gs2, 1=gs4, 2=gs3, 3=gs1
CHOP      1 75 - 75      .Chopper State (1=Ref,2=63Hz,3=FreeRun,4=Off) SEF: 37IST, data byte 2, bits 7-8 (if bit 6 = 1)
                                         0=63hz, 1=off, 2=ref, 3=freeerun
GRAT_OFF  1 76 - 76      .Grating Offset (0-7, default 4)   SEF: 37GOF, data byte 2, bits 5-8
PTAB_A(6) 12 77 - 88      .First PTAB |repeat count,mirror op,autobias...SEF: functions of MODE (from 37IOP) as modified by
PTAB_B(6) 12 89 - 100  .Second PTAB |...grating start, grating delta... 37MPT, unless special sequence (modes 12-15)
.         |...number of grating positions)         in which case values come from 37SS
                                         parameters <tbd>
ECAL      1 101 - 101     .Electronics Calibration Active (1=yes) SEF: 37IST, data byte 3, bit 4 (1=on)
OPCAL     1 102 - 102     .Optics Calibration active (1=yes)   SEF: 37IST, data byte 3, bit 5 (1=on)
# REAL_TIME 1 103 - 103     .NIMS in Real-Time Telemetry (1=yes) SEF: track RT_INST_SEL .and. 37RT
# RECORD   1 104 - 104     .NIMS in Record Telemetry (1=yes)   SEF: track DMS status event:
                                         RECORD, REVERSE, RESUME, RUNDOWN <tbd>

* THRESHSEL 1 105 - 105     .Threshold value select (>0 = yes)   PBK: THRESHLD_TBL > 0 (i.e. 1-3)
<spare>    1 106 - 106     .
# RTISELDN 5 107 - 111     .RTI select, 5 binary bits (for mirror SEF: 37MB data byte 1, bits 4-8 <tbd>
                                         position blocking, down scan)
# RTISELUP 5 112 - 116     .RTI select, 5 binary bits (for mirror SEF: 37MB data byte 2, bits 4-8 <tbd>
                                         position blocking, up scan)
<spare>    1 117 - 117     .
* RICEFLAG  1 118 - 118     .Rice compression flag              PBK: 0 no compression
                                         1 Rice compression, ref vals each mirror scan
                                         3 Rice compression, ref vals each RIM rollover

<spare>    1 119 - 119     .
ESTCOMP    3 120 - 122     .Rice estimated compression ratio (m.n) PBK: CMPR_DVSR <tbd>
ESTCOMPV   3 123 - 125     .Rice estimated error in compression ratio (m.n)PBK: CMPR_UNC <tbd>
# RATECON1 5 126 - 130     .Rate control lower limit           PBK: | S/W table entry indexed by LOSSY_COMP (1-7)
# RATECON2 5 131 - 135     .Rate control upper limit           PBK: | or 0 if LOSSY_COMP = 0 (no rate control)
                                         |
<spare>    17 136 - 152     .
NWAVERTOT 3 153 - 155     .Total number of wavelengths selected Compute from relevant Wavelength Edit Table group
TLMFMT     3 156 - 158     .Telemetry format (MPW et al, LPU or LNR) SEF: 6TMREC command
SCET1      21 159 - 179     .Start time of played-back OBS in UTC PBK (except realtime data: SEF)
SCET2      21 180 - 200     .Stop time of played-back OBS in UTC  PBK (except realtime data: SEF)
<spares>  67 201 - 267     .Start time of played-back OBS in UTC  PBK (except realtime data: SEF)
* THRESH   51 268 - 318     .Threshold values (17 3-digit values, 0-999) PBK: S/W table indexed by THRESH_TBL > 0, else 0s
-----

```

```

# WETGID      10 319 - 328      .Wavelength selection group ID (unique)      PBK: WET_GID      (realtime <tbd>)
Rule of formation: mmeelll1nnn where
mm = instrument mode (0-15)
ee = # entries in group
lll = number of wavelengths selected
nnn = sequence number
* WETGRPSIZ      2 329 - 330      .# Wavelength Edit entries (1-26)      PBK: ED_GRP_LEN      (realtime SEF: 37ETB <tbd>)
* WETGRP      182 331 - 512      .Wavelength Edit Table group: WETGRPSIZ      PBK: ED_GRP      (realtime SEF: 37ETB data bytes 2..)

```

entries, each one has 7 characters. The first 2 characters are the repeat count (01-26). The other 5 characters contain 5 hex digits, representing the detector mask in the form BHHH where B is 0 or 1 and H has range 0-15. (These entries are from the 37ETB instrument edit group for realtime data and from the logical AND of corresponding entries in the instrument and playback edit groups for playback data.)

.The TARGET names used are:

```

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

```

(the single letter abbreviation appears as the third character in the OAPEL name).

Chapter 5 - Detailed Observation Designs

Contents

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Introduction to Chapter 5

Detailed Observation Designs

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

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

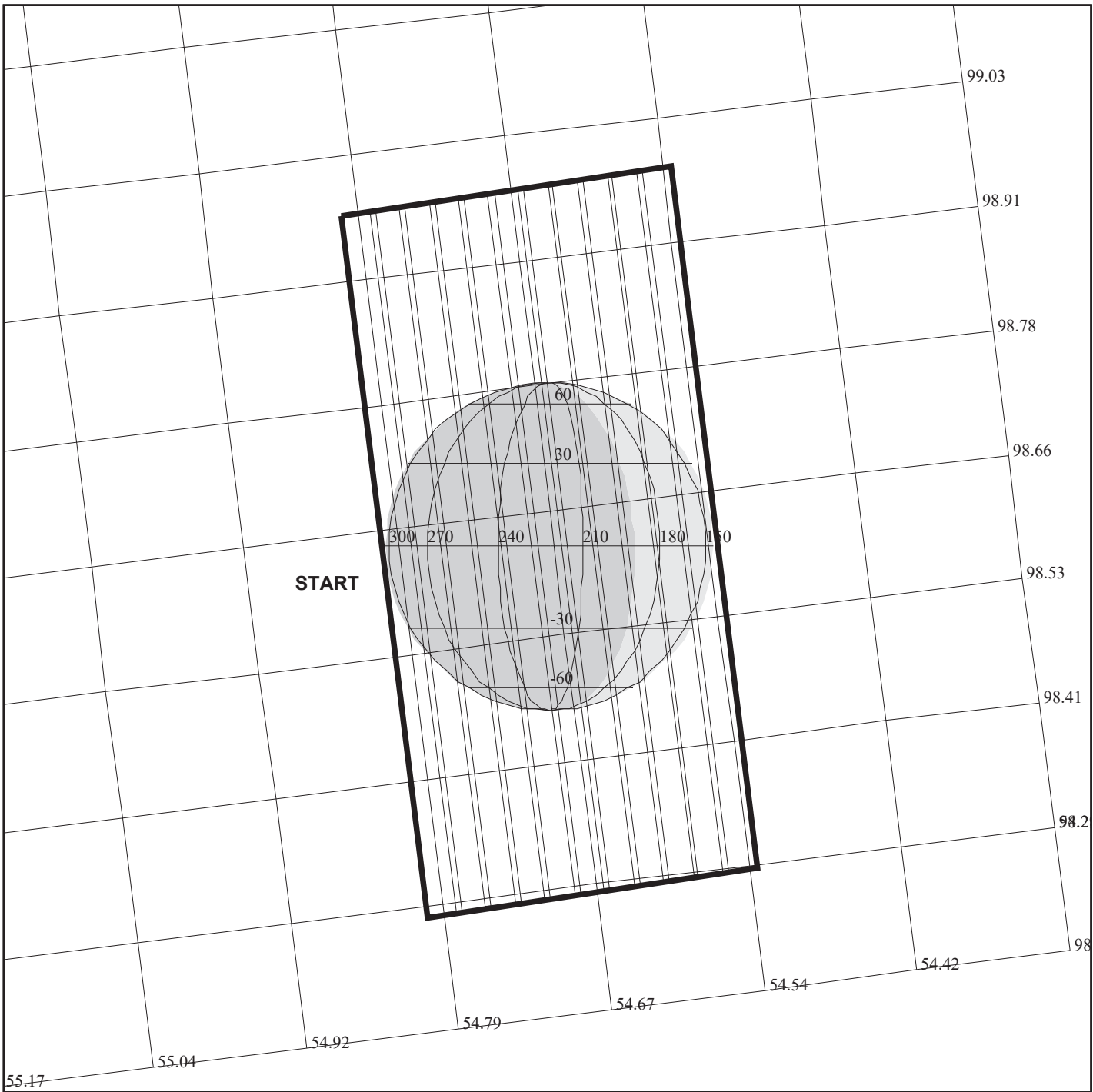
The Pointer plots have the spatial extent of the actual data returned outlined with a thick line. When no data were returned for a particular observation, its Pointer plot has a single slash across the plot with the text "NO DATA RETURNED" printed in the upper left corner of the plot.

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

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

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

NIMS Software Reload		ACTIVITY ID: 20NNHRSPEC01-	
		START TIME: 99-122/19:49:38.800	
Activity ID: Orbit 20 Target N Inst N OAPEL HRSPEC 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 05/02/99 Week 70
Start	IEE-CDS 00000003:00:0	99-122/19:49:38.800	IEE-000/00:03:02.000
End	IEE-CDS 00000001:00:0	99-122/19:51:40.134	IEE-000/00:01:00.666
Duration	00000002:00:0	000/00:02:01.334	000/00:02:01.334
Top Label	20NNHRSPEC01-		
Bottom Label			
Plot Key	NIMS	Type	SCI
CDS Bytes	0	Report Options	BOTH
CDS Source	OAP	Spin State	DUAL
		Scan Platform	No
		DMS	No
Observation Objective			
NIMS real-time 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 C20 reload OAPELS are:			
20NNHRSPEC01, 20NNECLPSE01, 20NNJUPRTS01, 20NNJUPRTS02,			
20NNGRWAKE01, 20NNHOTMAP01, 20NNGRWAKE03, 20NNHOTMAP02,			
20NNJUPRTS03, 20NNCATMOS01, 20NNFEATRE02, 20NNFEATRE03,			
20NNBRANCR01, 20NNGLOBAL02			
20JNGRWAKE02, 20CNFEATRE01 did not have reloads.			
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			
6MCPY - Copy flight software from CDS to NIMS 1000			
6MCPY - Copy flight software from CDS to NIMS 1598			
37IRT - Instrument Reset			
37MN - Memory Normal			
37IST - Chopper Reference.			
Galileo Activity Plan Form		03/29/99 12:47:00 rev 6/95	



20INHRSPEC01

165DA:TT= 0 TMC=1 C= 2.23 XC= 0.00 BS=0/8198 TC= 3
 A= 728 pD= 0 SR=17.450 RA50=250.81 DEC50=-24.31 cone= 54.80 clock= 98.62
 117DA:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/8198
 1:#s= 1 Cs= -5.43 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 546 rD= 2

DESIGN G3.2 lisac: 4/21/1999 16:22:18

FILE:P.20INHRSPEC01

TARGET BODY : IO

MINI:m.20INHRSPEC01

S/C EPH:/DATA/NAVIO/990201-tour.NS

PERIAPSIS:

START:IEE 99-122/19:52:40.800 +CDS 4:00:0

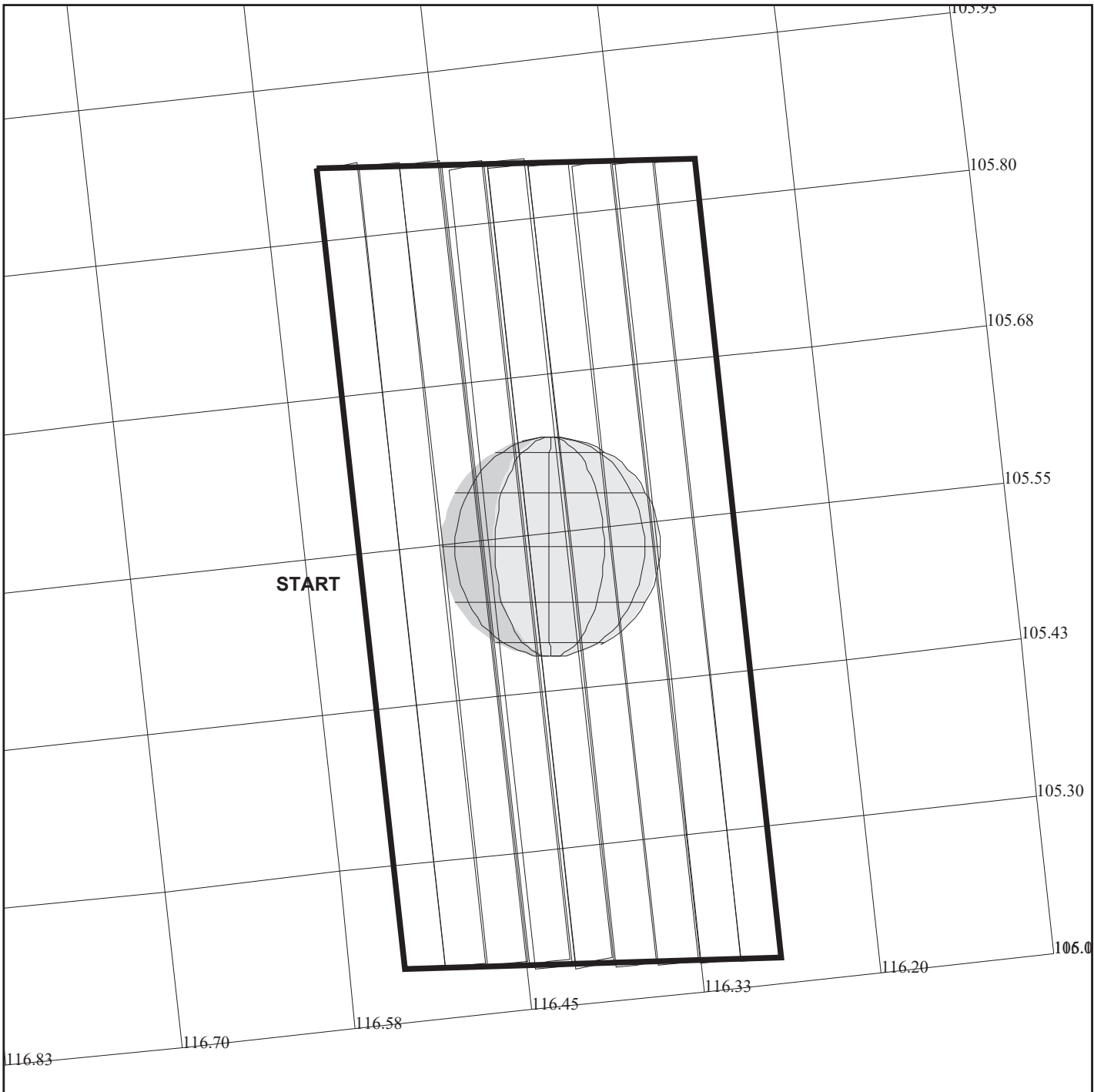
OBSERVATION:20INHRSPEC01

THINNING:NIM 2

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

DESCRIP:Io_Monitoring_at_High_Spec_Res

Io Monitoring at High Spectral Resolutio		ACTIVITY ID:	20INHRSPEC01*		
		START TIME:	99-122/19:52:40.800		
Activity ID: Orbit 20 Target I Inst N OAPEL HRSPEC SeqNo 01 *					
Title	Io Monitoring at High Spectral ResolutioInstrument				NIMS
Requestor	NIMS-SWG/R.		Team	NIMS Working Group	SWG
Time System	CDS	Load ID	Calendar Date	05/02/99	Week 70
Start	IEE+CDS 0:00:0		99-122/19:52:40.800	IEE+000/00:00:00.000	
End	IEE+CDS 00000007:00:0		99-122/19:59:45.466	IEE+000/00:07:04.666	
Duration	00000007:00:0		000/00:07:04.666	000/00:07:04.666	
Top Label	20INHRSPEC01-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH		
CDS Source	OAP	Spin State	DUAL	Scan Platform	Yes
			DMS		Yes
Observation Objective					
Io monitoring at high spectral resolution. Phase angle is 120 degrees. Best nightside coverage of Prometheus Hemisphere.					
Data Returned					
Design Detail					
NIMS Resolution 400 km/pixel. Central longitude is approximately 180 degrees West. Global Mosaic in Long Map, 228 wavelengths, record mode is LPU. TICS= 58, FMT= LPU, MBTG= 0.82, PPR_RA=0.060					
Cone angle about 57 degrees. Expect Boom Obscuration.					
Long Map (LM), Gain 4, Grating Start 0, LPU, ILMDK243AD, ILMDK228D					
Galileo Activity Plan Form			03/29/99	12:47:00	rev 6/95



20ENECLPSE01

165DB:TT= 0 TMC= 1 C= 2.25 XC= 0.00 BS= 0/5528 TC= 3
 A= 728 pD= 0 SR=17.450 RA50=317.34 DEC50=-17.16 cone=116.53 clock=105.54
 117DB:#SB= 1 OR= 0.010 RR=12.000 BM=F RC= 1 BS= 0/5528
 1:#s= 2 Cs= -0.85 XCs= 0.00 Cr= 0.90 XCr= 0.00 sD= 262 rD= 20

TARGET G3.1 lisac: 4/16/1999 13: 4:30

FILE:P.20ENECLPSE01

TARGET BODY : EUROPA

MINI:m.target

S/C EPH:/DATA/NAVIO/990201-tour.NS

PERIAPSIS:

THINNING:NIM 2

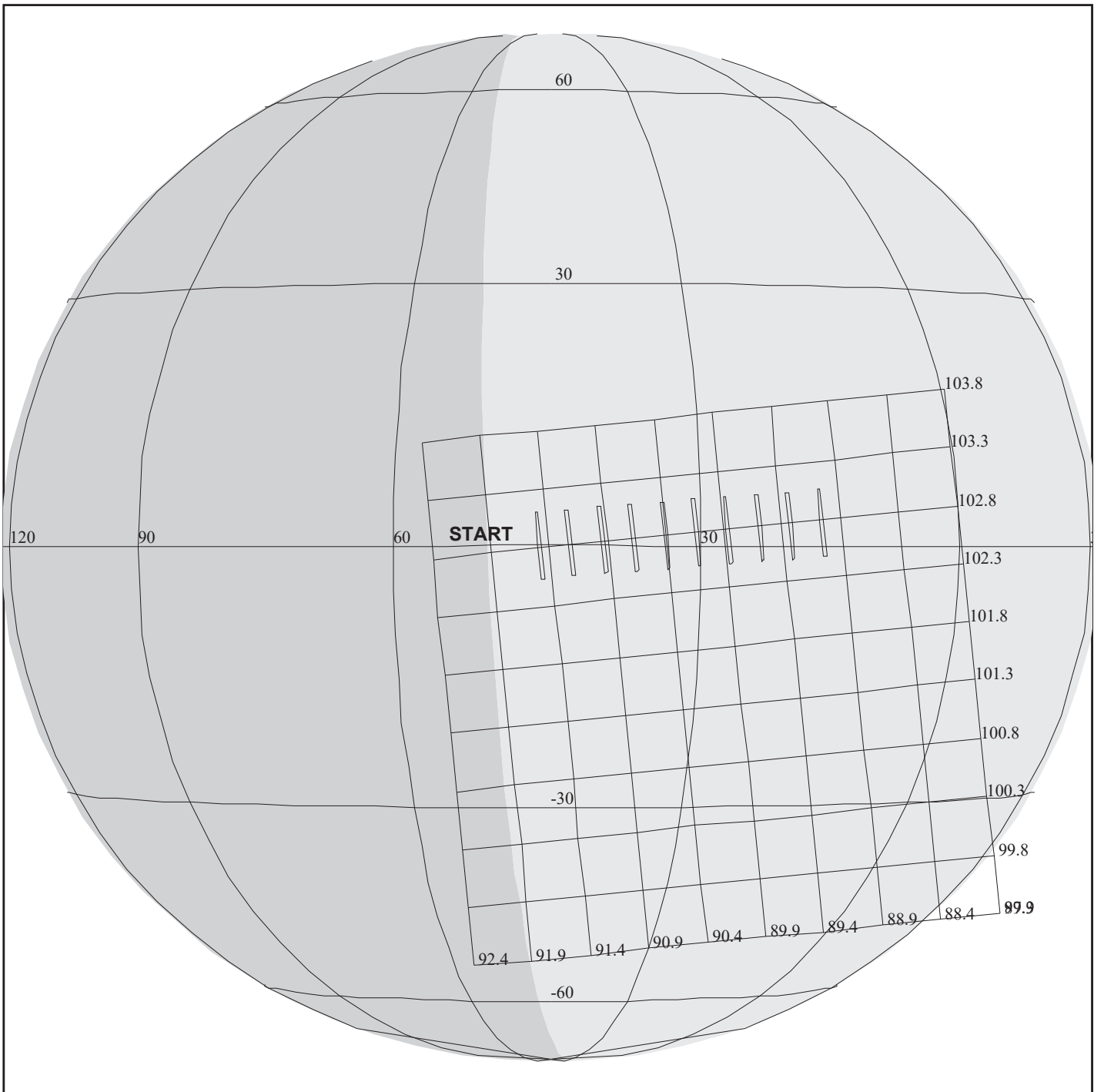
START:EEE 99-123/12:37:43.466 -CDS 675:00:0

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

OBSERVATION:20ENECLPSE01

DESCRIP:Europa_Global_Observation_01

Europa Eclipse Obs		ACTIVITY ID:	20ENECLPSE01*		
		START TIME:	99-123/01:11:10.800		
Activity ID: Orbit 20 Target E Inst N OAPEL ECLPSE SeqNo 01 *					
Title	Europa Eclipse Obs		Instrument		NIMS
Requestor	NIMS-SWG/R. CARLSON		Team	NIMS Working Group	SWG
Time System	CDS	Load ID	Calendar Date	05/03/99	Week 70
Start	EEE-CDS	00000679:00:0	99-123/01:11:10.800	EEE-000/11:26:32.666	
End	EEE-CDS	00000672:00:0	99-123/01:18:15.466	EEE-000/11:19:28.000	
Duration		00000007:00:0	000/00:07:04.666	000/00:07:04.666	
Top Label	20ENECLPSE01-				
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					
<p>20ENECLIPSE01 is designed to detect subtle emission features from Europa's atmosphere or surface. These are best seen during eclipse, in the absence of solar illumination of the body.</p>					
Data Returned					
Design Detail					
NIMS Mode = LM Record Mode = MPW Gain State = 4 Grating position = 0					
A NIMS OPCAL is performed at the end of this observation.					
<p>Long Map (LM), Gain 4, Grating Start 0, MPW, ELM442, ELM360 Long Map (LM), Gain 4, Grating Start 0, MPW, PCT252, OPCAL48</p>					
Galileo Activity Plan Form			03/29/99	12:47:00	rev 6/95



20JNJUPRTS01

165DH:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/1564 TC= 1(0 46)
 A= 728 pD= 1638 SR=17.450 RA50=291.34 DEC50=-23.45 cone= 91.52 clock=102.87
 117DH:#SB= 1 OR= 0.060 RR=12.000 BM=F RC= 1 BS= 0/1564
 1:#s= 1 Cs= -36.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 1820 rD= 40

TARGET G3.1 lisac: 4/16/1999 13: 4:30

FILE:P.20JNJUPRTS01

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/990201-tour.NS

PERIAPSIS:

START:JEE 99-123/17:00:36.800 -CDS 737:00:0

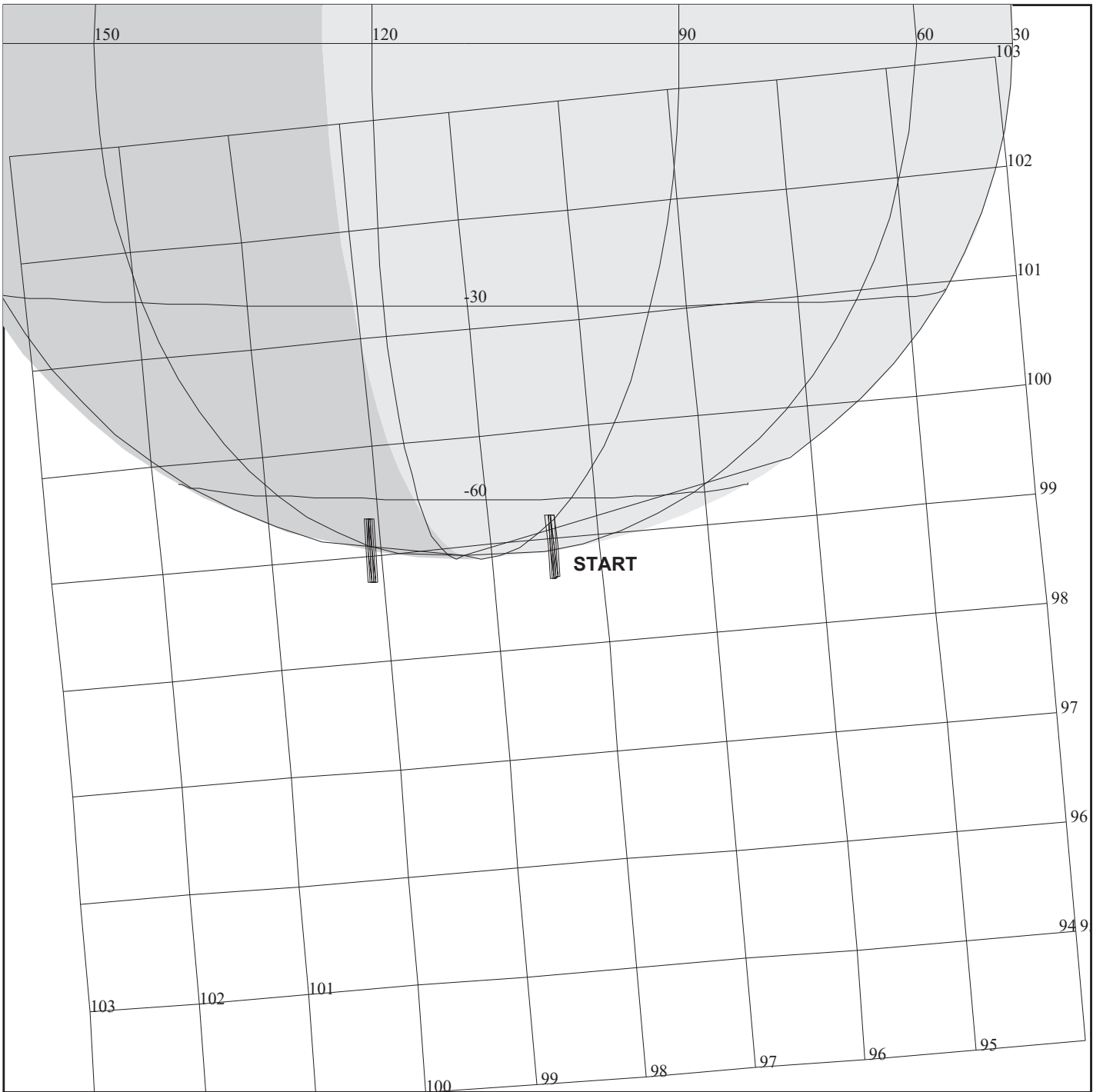
OBSERVATION:20JNJUPRTS01

THINNING:NIM 7

BODY PLOT TIME:TARGET-TIME D= 1638 S= 1.000

DESCRIP:Jupiter_Realtime_Observation

Jupiter Realtime Observation		ACTIVITY ID:	20JNJUPRTS01*		
		START TIME:	99-123/04:31:22.800		
Activity ID: Orbit 20 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	05/03/99	Week 70
Start	JEE-CDS 00000741:00:0		99-123/04:31:22.800	JEE-000/12:29:14.000	
End	JEE-CDS 00000727:00:0		99-123/04:45:32.134	JEE-000/12:15:04.666	
Duration	00000014:00:0		000/00:14:09.334	000/00:14:09.334	
Top Label	20JNJUPRTS01*				
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 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. Mirror Blocked (1B,1B) (11011,11011)					
Long Map (LM), Gain 2, Grating Start 0, R/T, JLM408					
Galileo Activity Plan Form			03/29/99	12:47:01	rev 6/95



165DI:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/3586 TC= 1(-75 77)
 A= 728 pD= 1810 SR=17.450 RA50=299.40 DEC50=-26.65 cone= 98.46 clock= 98.93
 117DI:#SB= 1 OR= 0.060 RR=12.000 BM=F RC= 1 BS= 0/3586
 1:#s= 2 Cs= 0.00 XCs= 0.00 Cr= 30.00 XCr= 2.00 sD= 870 rD= 36

20JNJUPRTS02

TARGET G3.1 lisac: 4/16/1999 13: 4:30

FILE:P.20JNJUPRTS02

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/990201-tour.NS

PERIAPSIS:

START:JEE 99-123/17:00:36.800 -CDS 616:00:0

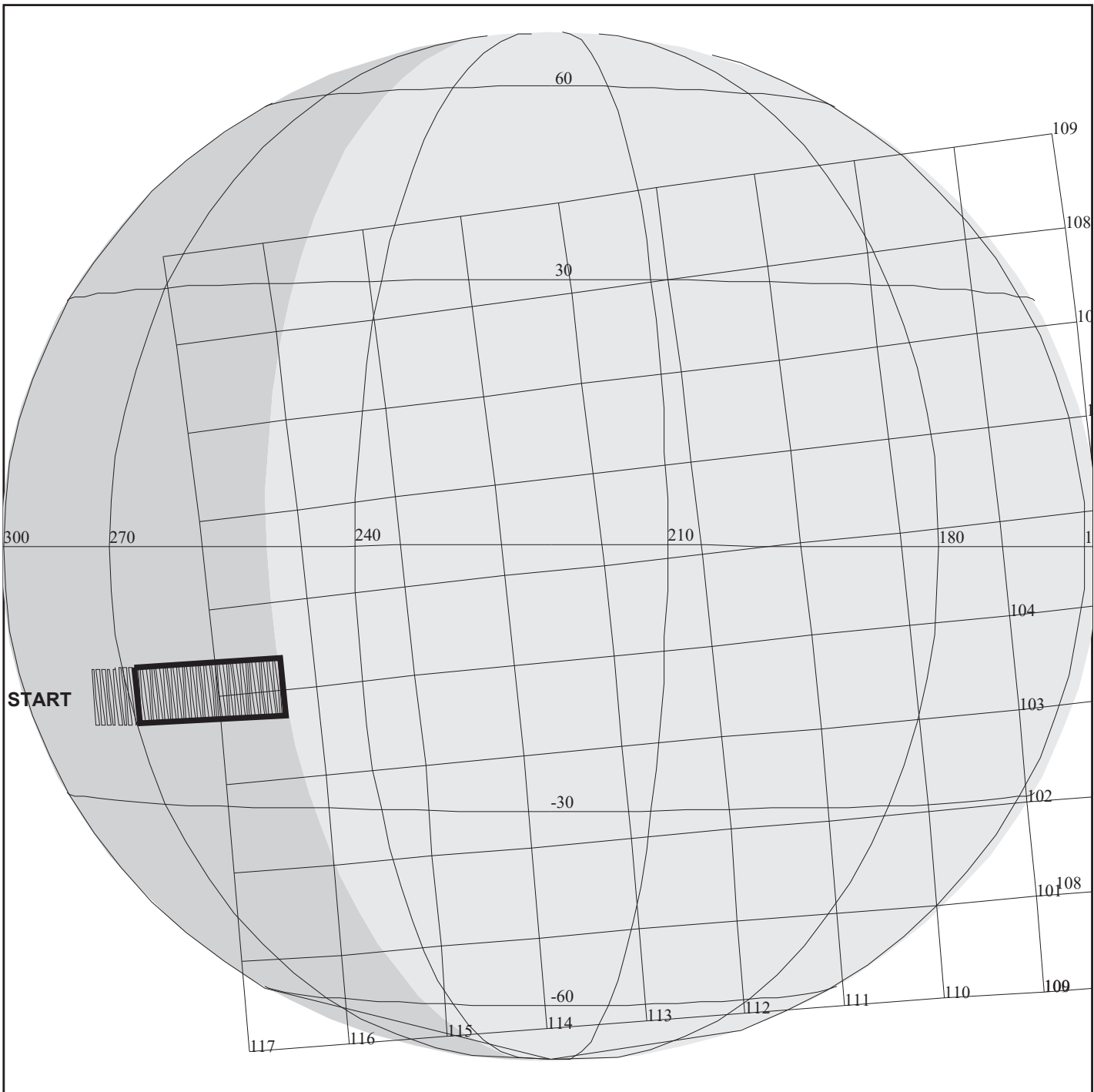
OBSERVATION:20JNJUPRTS02

THINNING:NIM 7

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

DESCRIP:Jupiter_Realtime_Observation

Jupiter Realtime Observation		ACTIVITY ID:	20JNJUPRTS02*		
		START TIME:	99-123/06:33:43.467		
Activity ID: Orbit 20 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	05/03/99	Week 70
Start	JEE-CDS 00000620:00:0		99-123/06:33:43.467	JEE-000/10:26:53.333	
End	JEE-CDS 00000606:00:0		99-123/06:47:52.800	JEE-000/10:12:44.000	
Duration	00000014:00:0		000/00:14:09.333	000/00:14:09.333	
Top Label	20JNJUPRTS02*				
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 South Aurora composition and height. 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.					
Mirror Blocked (13,19) (10011,11001)					
Long Map (LM), Gain 2, Grating Start 0, R/T, JLM204					
Galileo Activity Plan Form			03/29/99	12:47:01	rev 6/95



20JNGRWAKE01

165DC:TT= 0 TMC=1 C= 16.00 XC= 0.00 BS= 0/0714 TC= 1(-16 261)
 A= 728 pD= 0 SR=17.450 RA50=319.38 DEC50=-17.99 cone=118.23 clock=104.13
 117DC:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/0714
 1:#s= 1 Cs= -18.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 1820 rD= 40

TARGET G3.1 lisac: 4/16/1999 13: 4:30

FILE:P.20JNGRWAKE01

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/990201-tour.NS

PERIAPSIS:

THINNING:NIM 2

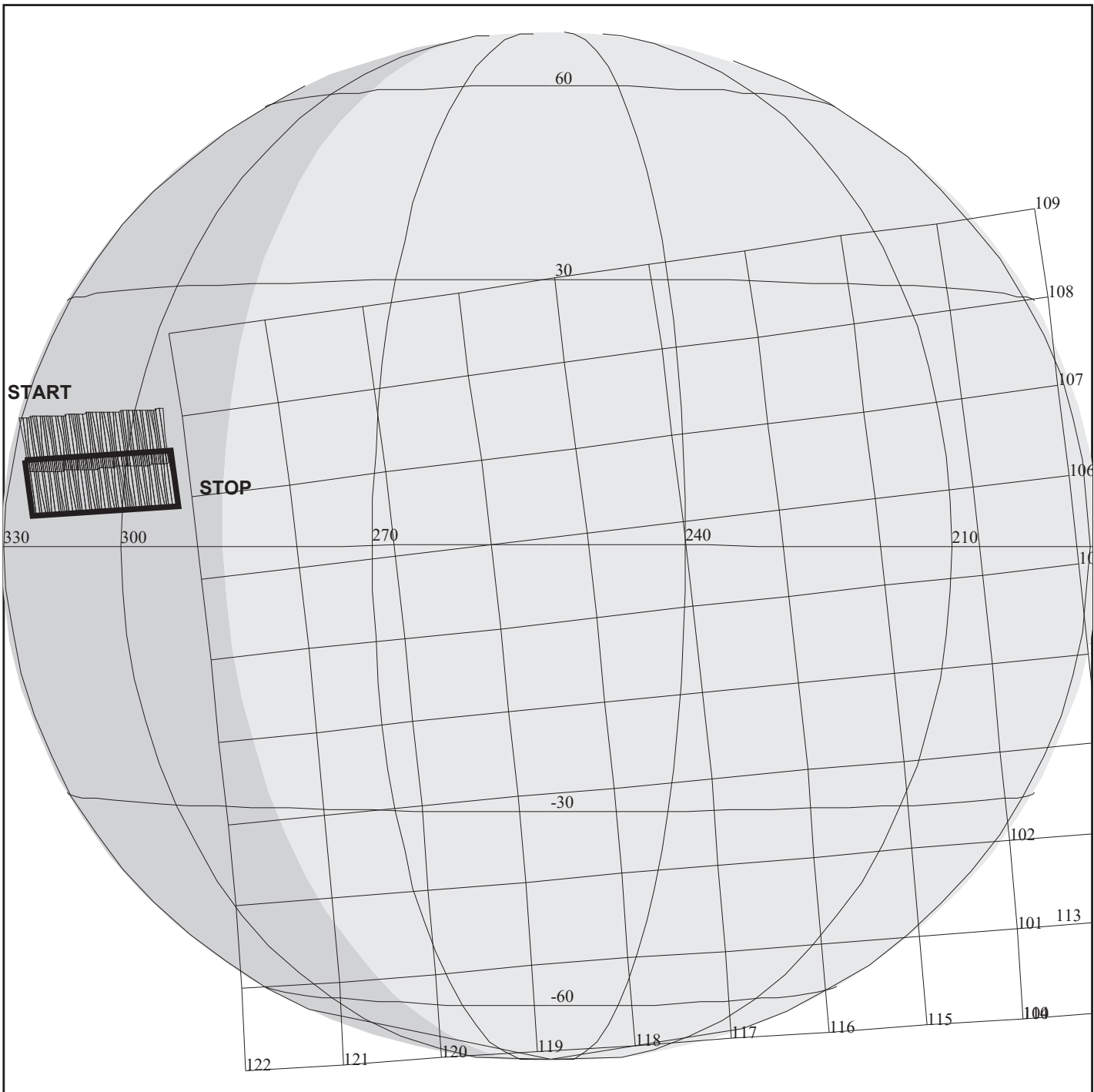
START:JEE 99-123/17:00:36.800 -CDS 412:00:0

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

OBSERVATION:20JNGRWAKE01

DESCRIP:GRWAKE01

GRWAKE01	ACTIVITY ID:	20JNGRWAKE01-	START TIME:	99-123/09:59:59.467
Activity ID: Orbit 20 Target J Inst N OAPEL GRWAKE SeqNo 01 -				
Title	GRWAKE01	Instrument	NIMS	
Requestor	NIMS-AWG/M. SEGURA	Team	NIMS Working Group	AWG
Time System	CDS	Load ID	Calendar Date	05/03/99 Week 70
Start	JEE-CDS 00000416:00:0	99-123/09:59:59.467	JEE-000/07:00:37.333	
End	JEE-CDS 00000397:00:0	99-123/10:19:12.134	JEE-000/06:41:24.666	
Duration	00000019:00:0	000/00:19:12.667	000/00:19:12.667	
Top Label	20JNGRWAKE01-			
Bottom Label				
Plot Key	NIMS	Type	SCI	
CDS Bytes	0	Report Options	BOTH	
CDS Source	OAP	Spin State	DUAL	Scan Platform Yes
			DMS	Yes
Observation Objective				
<p>The turbulent wake region downstream of the Great Red Spot is observed at night in this OAPEL. The thermal spectrum will be analyzed to constrain (1) cloud opacity, (2) relative humidity of water and ammonia, and (3) abundance of trace disequilibrium species (phosphine and germane). Together, these measurements will allow an increased understanding of both local meteorology and regional dynamics in this unusually disturbed region of the planet. A contiguous spectral map of the 4-5.2 um region is obtained, in longmap mode.</p>				
Data Returned				
Design Detail				
<p>CSMOS PA_TIME: JEE-CDS 412:00:0 Duration: 10 RIMs Centered at -16 degrees South Latitude, 270 degrees West Longitude. This is a night-time observation. Long Map mode. Gain state: 4 Send down 80 wavelengths from 4 - 5.2 um.</p>				
Long Map (LM), Gain 4, Grating Start 0, LPU, JHT253A, JHT100A				
Galileo Activity Plan Form			03/29/99 12:47:01	rev 6/95



20JNHOTMAP01

165DD:TT= 0 TMC=1 C= 3.00 XC= 7.50 BS= 0/1634 TC= 1(7 315)
 A= 728 pD= 0 SR=17.450 RA50=324.06 DEC50=-13.60 cone=123.64 clock=107.89
 117DD:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/1634
 1:#s= 2 Cs= -13.40 XCs= 0.00 Cr= 25.00 XCr= -6.00 sD= 1344 rD= 40

TARGET G3.1 lisac: 4/16/1999 13: 4:30

FILE:P.20JNHOTMAP01

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/990201-tour.NS

PERIAPSIS:

START:JEE 99-123/17:00:36.800 -CDS 352:00:0

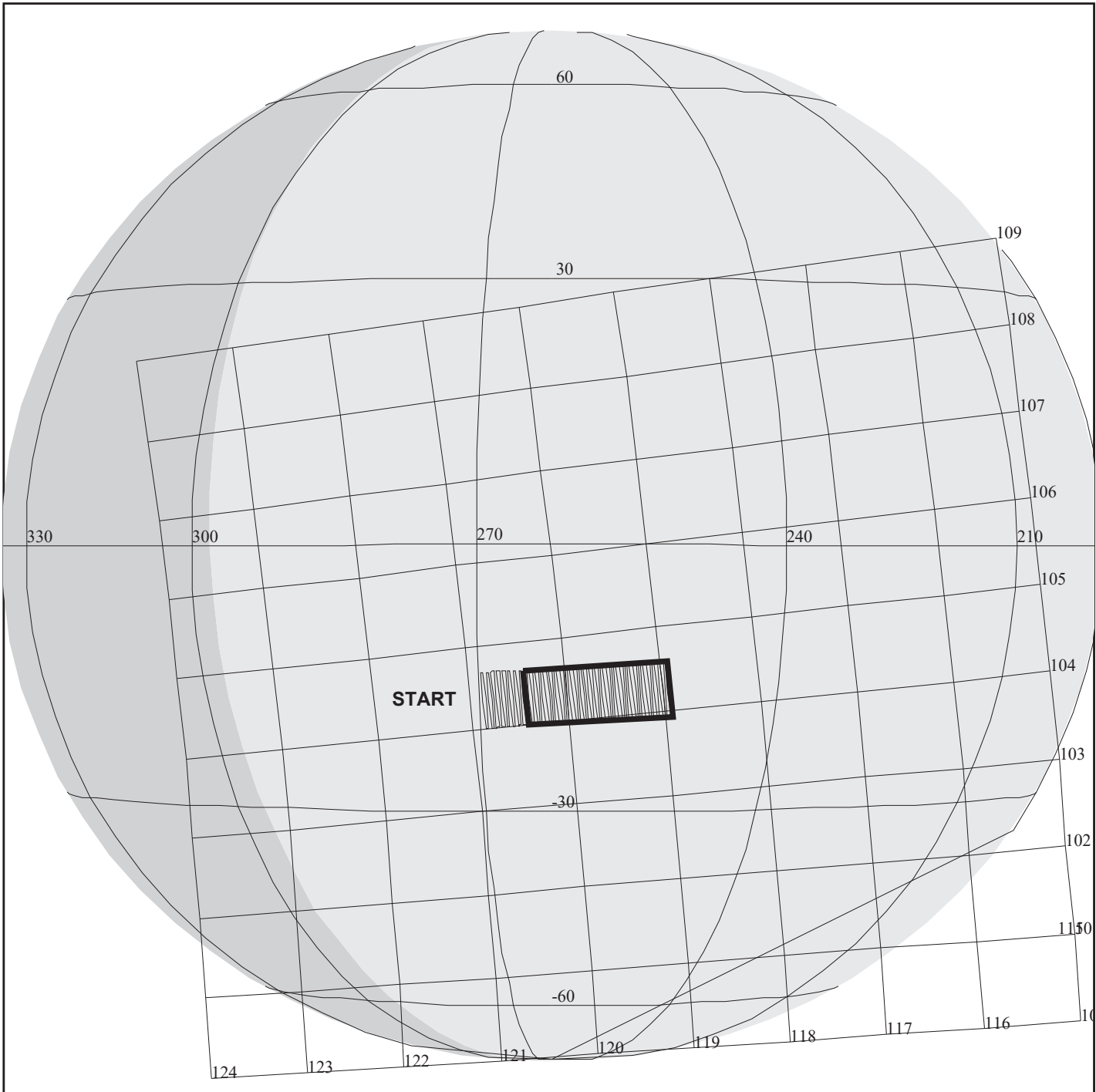
OBSERVATION:20JNHOTMAP01

THINNING:NIM 1

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

DESCRIP:Jupiter_Hot_Map

NIMS Jupiter HotMap		ACTIVITY ID: 20JNHOTMAP01-	
		START TIME: 99-123/11:00:39.467	
Activity ID: Orbit 20 Target J Inst N OAPEL HOTMAP SeqNo 01 -			
Title	NIMS Jupiter HotMap	Instrument	
Requestor	NIMS-AWG/K. BAINES	Team	NIMS Working Group
			NIMS AWG
Time System	CDS	Load ID	Calendar Date 05/03/99 Week 70
Start	JEE-CDS 00000356:00:0	99-123/11:00:39.467	JEE-000/05:59:57.333
End	JEE-CDS 00000337:00:0	99-123/11:19:52.134	JEE-000/05:40:44.666
Duration	00000019:00:0	000/00:19:12.667	000/00:19:12.667
Top Label	20JNHOTMAP01-		
Bottom Label			
Plot Key	NIMS	Type	SCI
CDS Bytes	150	Report Options	BOTH
CDS Source	OAP	Spin State	DUAL
		Scan Platform	Yes
		DMS	Yes
Observation Objective			
<p>The hotspot region observed in E19 is observed again at nighttime to look for temporal changes. The thermal spectrum will be analyzed to constrain (1) cloud opacity, (2) relative humidity of water and ammonia, and (3) abundance of trace disequilibrium species (phosphine and germane). Together, these measurements will allow an increased understanding of both local meteorology and regional dynamics in these unusually 5-micron-bright, nearly cloud-free regions of purported downdrafts. As well, nearby plumes of purported updraft material may be observed and studied with this same spectral map. A contiguous spectral map of the 4-5.2 um region is obtained, in longmap mode.</p>			
Data Returned			
Design Detail			
<p>CSMOS PA_TIME: JEE-CDS 352:00:0 Duration: About 15 RIMs Centered at +7 degrees North Latitude, 315 degrees West Longitude. This is a night-time observation. Long Map mode. Gain state 4. Send down 80 wavelengths from 4 - 5.2 um.</p> <p>Design modified so that the second swath is centered at +7 degrees N. Only enough BTG to return 1 swath, so return the second swath.</p>			
Long Map (LM), Gain 4, Grating Start 0, LPU, JHT253A, JHT100A			
Galileo Activity Plan Form		03/29/99 12:47:01	rev 6/95



20JNGRWAKE02

165DE:TT= 0 TMC= 1 C= 16.00 XC= 0.00 BS= 0/5092 TC= 1(-16 261)
 A= 728 pD= 0 SR=17.450 RA50=322.02 DEC50=-17.17 cone=120.87 clock=104.35
 117DE:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/5092
 1:#s= 1 Cs= -18.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 1820 rD= 40

TARGET G3.1 lisac: 4/16/1999 13: 4:30

FILE:P.20JNGRWAKE02

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/990201-tour.NS

PERIAPSIS:

THINNING:NIM 2

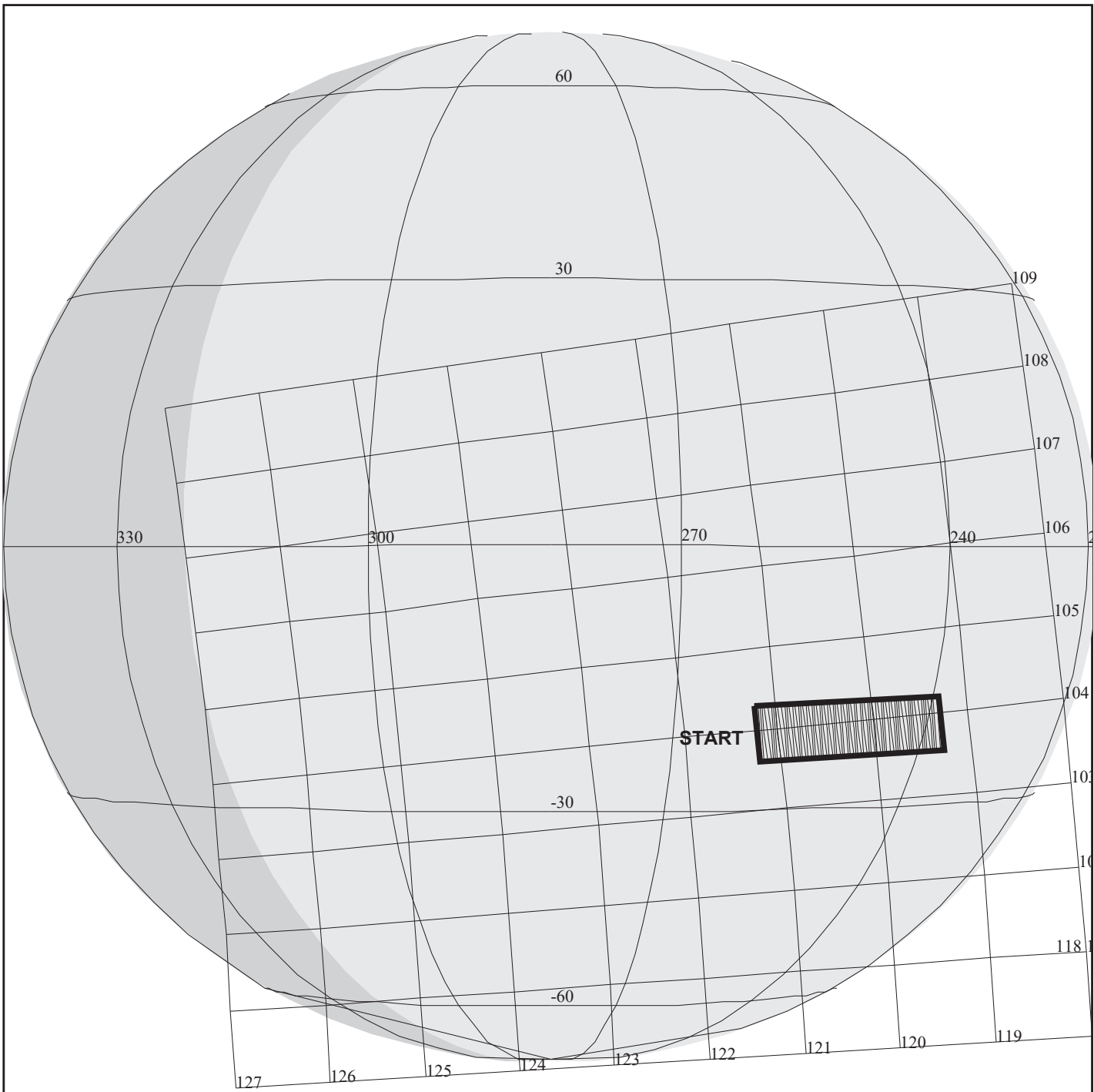
START:JEE 99-123/17:00:36.800 -CDS 333:00:0

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

OBSERVATION:20JNGRWAKE02

DESCRIP:GRWAKE02

GRWAKE02	ACTIVITY ID: 20JNGRWAKE02-		START TIME: 99-123/11:19:52.134	
Activity ID: Orbit 20 Target J Inst N OAPEL GRWAKE SeqNo 02 -				
Title	GRWAKE02	Instrument		NIMS
Requestor	NIMS-AWG/M. SEGURA	Team	NIMS Working Group	AWG
Time System	CDS	Load ID	Calendar Date	05/03/99 Week 70
Start	JEE-CDS 00000337:00:0	99-123/11:19:52.134	JEE-000/05:40:44.666	
End	JEE-CDS 00000318:00:0	99-123/11:39:04.800	JEE-000/05:21:32.000	
Duration	00000019:00:0	000/00:19:12.666	000/00:19:12.666	
Top Label	20JNGRWAKE02-			
Bottom Label				
Plot Key	NIMS	Type	SCI	
CDS Bytes	0	Report Options	BOTH	
CDS Source	OAP	Spin State	DUAL	Scan Platform Yes
			DMS	Yes
Observation Objective				
<p>The turbulent wake region downstream of the Great Red Spot is observed during daylight near minimum airmass. The reflected spectrum will be analyzed to constrain (1) microphysical cloud properties, such as particle size and wavelength-dependent single-scattering albedo - key clues for the determination of particle composition, (2) the vertical distribution of clouds and hazes materials, and their spatial variability - clues to the nature of vertical dynamics and wave motions, and (3) the spatial variability of ammonia abundances, the primary condensate materials forming the uppermost clouds. Sub-spectra are sent back which include the most diagnostic methane, ammonia, and hydrogen absorption wavelengths, as well as nearby pseudo-continua.</p>				
Data Returned				
Design Detail				
<p>CSMOS PA_TIME: JEE-CDS 333:00:0 Duration: 10 RIMs Centered at -16 degrees South Latitude, 270 degrees West Longitude. A near-zenith view during daytime. Long map mode. Gain state 2. Record at least 253 wavelengths to try to send down</p>				
Long Map (LM), Gain 2, Grating Start 0, LPU, JSB253C, JSB140C				
Galileo Activity Plan Form			03/29/99 12:47:01	rev 6/95



20JNGRWAKE03

165DF:TT= 0 TMC= 1 C= 16.00 XC= 0.00 BS= 0/1826 TC= 1(-20 251)
 A= 728 pD= 0 SR=17.450 RA50=322.45 DEC50=-17.41 cone=121.21 clock=103.95
 117DF:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/1826
 1:#s= 1 Cs= -18.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 1820 rD= 40

TARGET G3.1 lisac: 4/16/1999 13: 4:30

FILE:P.20JNGRWAKE03

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/990201-tour.NS

PERIAPSIS:

THINNING:NIM 2

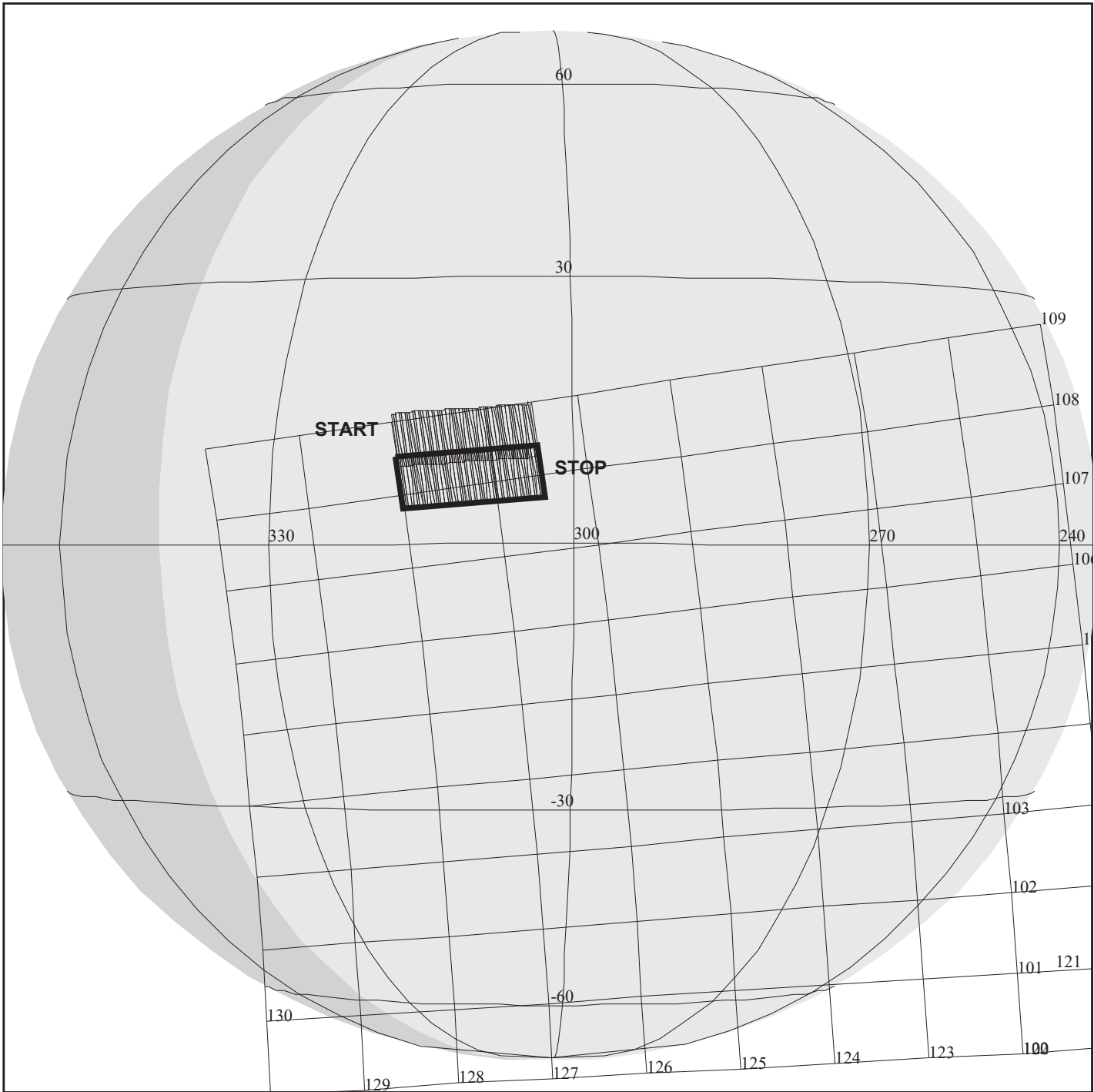
START:JEE 99-123/17:00:36.800 -CDS 296:00:0

BODY PLOT TIME:99-123/12:01:28.333 D= 0 S= 1.000

OBSERVATION:20JNGRWAKE03

DESCRIP:GRWAKE03

GRWAKE03	ACTIVITY ID:	20JNGRWAKE03-	START TIME:	99-123/12:05:22.134
Activity ID: Orbit 20 Target J Inst N OAPEL GRWAKE SeqNo 03 -				
Title	GRWAKE03	Instrument	NIMS	
Requestor	NIMS-AWG/M. SEGURA	Team	NIMS Working Group	AWG
Time System	CDS	Load ID	Calendar Date	05/03/99 Week 70
Start	JEE-CDS 00000292:00:0	99-123/12:05:22.134	JEE-000/04:55:14.666	
End	JEE-CDS 00000273:00:0	99-123/12:24:34.800	JEE-000/04:36:02.000	
Duration	00000019:00:0	000/00:19:12.666	000/00:19:12.666	
Top Label	20JNGRWAKE03-			
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				
<p>A cross section through the Great Red Spot (GRS) is observed, spanning the region just overlapping the south-eastern border of the wake region observed in the previous Wake #2 OAPEL and extending to near the core of the GRS. This extends the studies of aerosol microphysical properties, aerosol vertical distributions, and ammonia abundances to this largest anti-cyclonic feature on the planet. Sub-spectra are sent back which include the most diagnostic methane, ammonia, and hydrogen absorption wavelengths, as well as nearby pseudo-continua.</p>				
Data Returned				
Design Detail				
<p>CSMOS PA_TIME: JEE-CDS 288:00:0 Duration: 10 RIMs Centered at -16 degrees South Latitude, 270 degrees West Longitude. A low-airmass view during daytime. Long Map mode. Gain state 2. Record at least 253 wavelengths to try to send down.</p>				
Long Map (LM), Gain 2, Grating Start 0, LPU, JSB253C, JSB140C				
Galileo Activity Plan Form			03/29/99 12:47:01	rev 6/95



165DG:TT= 0 TMC=1 C= 3.00 XC= 7.70 BS= 0/8742 TC= 1(7 315)
 A= 728 pD= 0 SR=17.450 RA50=328.25 DEC50=-11.91 cone=128.00 clock=108.75
 117DG:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/8742
 1:#s= 2 Cs= -13.40 XCs= 0.00 Cr= 26.50 XCr= -6.00 sD= 1344 rD= 40

20JNHOTMAP02

TARGET G3.1 lisac: 4/16/1999 13: 4:30

FILE:P.20JNHOTMAP02

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/990201-tour.NS

PERIAPSIS:

START:JEE 99-123/17:00:36.800 -CDS 258:00:0

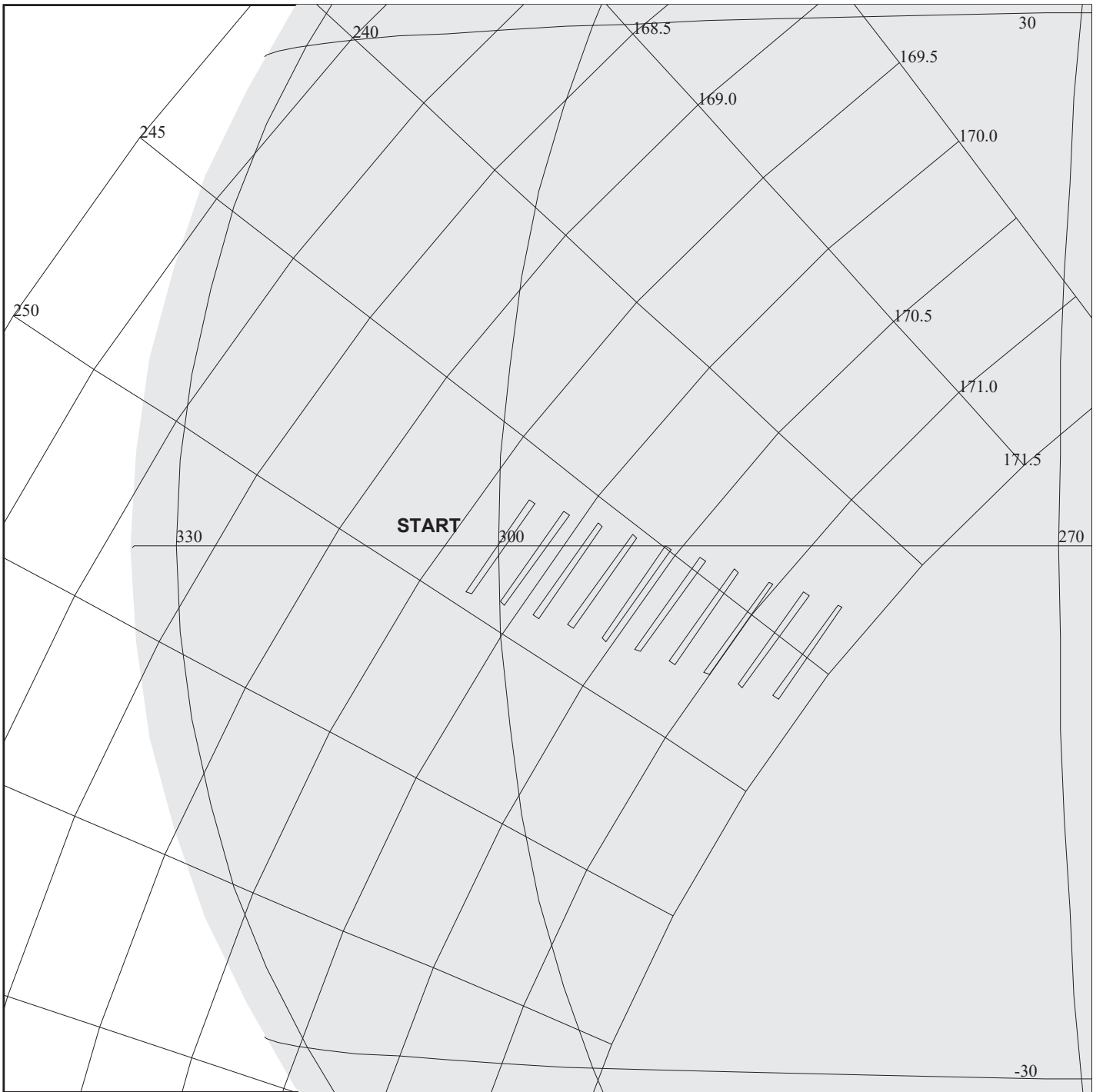
OBSERVATION:20JNHOTMAP02

THINNING:NIM 1

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

DESCRIP:Jupiter_Hot_Map

NIMS Jupiter HotMap		ACTIVITY ID:	20JNHOTMAP02-		
		START TIME:	99-123/12:35:42.134		
Activity ID: Orbit 20 Target J Inst N OAPEL HOTMAP SeqNo 02 -					
Title	NIMS Jupiter HotMap		Instrument		NIMS
Requestor	NIMS-AWG/K. BAINES		Team	NIMS Working Group	AWG
Time System	CDS	Load ID	Calendar Date	05/03/99	Week 70
Start	JEE-CDS	00000262:00:0	99-123/12:35:42.134	JEE-000/04:24:54.666	
End	JEE-CDS	00000243:00:0	99-123/12:54:54.800	JEE-000/04:05:42.000	
Duration		00000019:00:0	000/00:19:12.666	000/00:19:12.666	
Top Label	20JNHOTMAP02				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH		
CDS Source	OAP	Spin State	DUAL	Scan Platform	Yes
			DMS		Yes
Observation Objective					
<p>The hotspot region observed in E19 is observed again during daytime to look for temporal changes. Observations are made during daylight near minimum airmass. The reflected spectrum will be analyzed to constrain (1) microphysical cloud properties, such as particle size and wavelength-dependent single-scattering albedo - key clues for the determination of particle composition, (2) the vertical distribution of clouds and hazes materials, and their spatial variability - clues to the nature of vertical dynamics and wave motions, and (3) the spatial variability of ammonia abundances, the primary condensate materials forming the uppermost clouds. Sub-spectra are sent back which include the most diagnostic methane, ammonia, and hydrogen absorption wavelengths, as well as nearby pseudo-continua.</p>					
Data Returned					
Design Detail					
<p>CSMOS PA_TIME: JEE-CDS 258:00:0 Duration: About 15 RIMs. Centered at +7 degrees North Latitude, 315 degrees West Longitude. A near-zenith view during daytime. Long Map mode. Gain state 2. Record at least 253 wavelengths to try to send down.</p> <p>Design modified so that the second swath is centered at +7 degrees N. Only enough BTG to return 1 swath, so return the second swath.</p>					
Long Map (LM), Gain 2, Grating Start 0, LPU, JSB253C, JSB140C					
Galileo Activity Plan Form			03/29/99	12:47:02	rev 6/95



20JNJUPRTS03

165DJ:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/1218 TC= 1(0 300)
 A= 728 pD= 0 SR=17.450 RA50= 23.80 DEC50= 11.78 cone=169.74 clock=247.94
 117DJ:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/1218
 1:#s= 1 Cs= 18.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 1820 rD= 40

DESIGN G3.2 lisac: 4/21/1999 16:21:51

FILE:P.20JNJUPRTS03

CENTRAL BODY:JUPITER III

MINI:m.20JNJUPRTS03

S/C EPH:/DATA/NAVIO/990201-tour.NS

PERIAPSIS:

THINNING:NIM 7

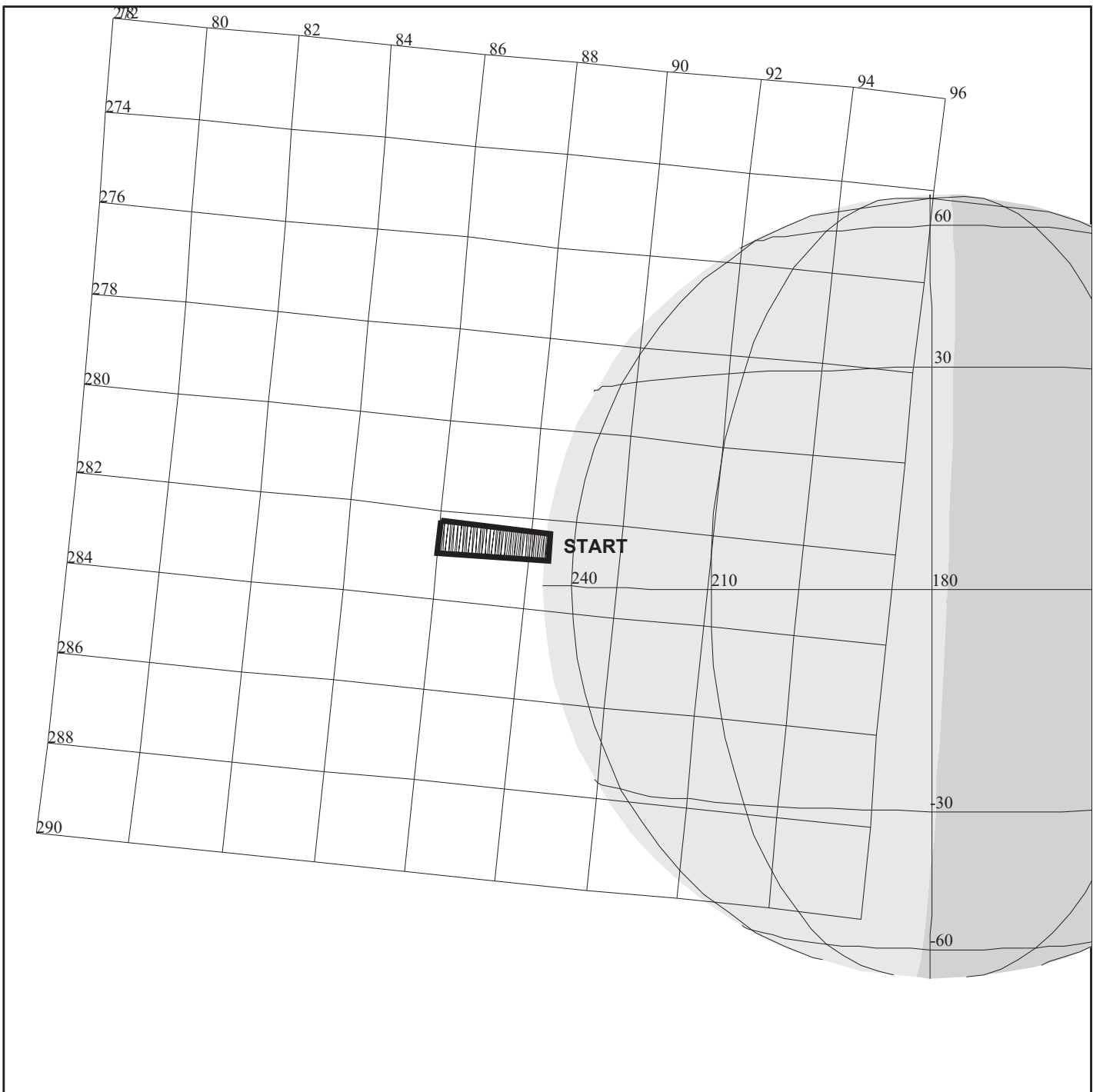
START:JEE 99-123/17:00:36.800 +CDS 360:00:0

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

OBSERVATION:20JNJUPRTS03

DESCRIP:Jupiter_Realtime_Observation

Jupiter Realtime Observation		ACTIVITY ID:	20JNJUPRTS03*		
		START TIME:	99-123/23:00:34.133		
Activity ID: Orbit 20 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	05/03/99	Week 70
Start	JEE+CDS	00000356:00:0	99-123/23:00:34.133	JEE+000/05:59:57.333	
End	JEE+CDS	00000370:00:0	99-123/23:14:43.466	JEE+000/06:14:06.666	
Duration		00000014:00:0	000/00:14:09.333	000/00:14:09.333	
Top Label	20JNJUPRTS03*				
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 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.					
Mirror Blocked (1B,1B) (11011,11011)					
Observation in the Cone Pole.					
Long Map (LM), Gain 2, Grating Start 0, R/T, JLM408					
Galileo Activity Plan Form			03/29/99	12:47:02	rev 6/95



165DO:TT= 0 TMC=1 C= -146.00 XC= 0.00 BS= 0/6552 TC= 3
 A= 524 pD= 1810 SR= 8.000 RA50=111.40 DEC50= 23.72 cone= 88.45 clock=282.60

20CNCATMOS01

DESIGN G3.2 lisac: 4/21/1999 8:56:38

FILE:P.20CNCATMOS01

TARGET BODY : CALLISTO

MINI:m.20CNCATMOS01

S/C EPH:/DATA/NAVIO/990201-tour.NS

PERIAPSIS:

START:CEE 99-125/13:56:14.000 +CDS 31:00:0

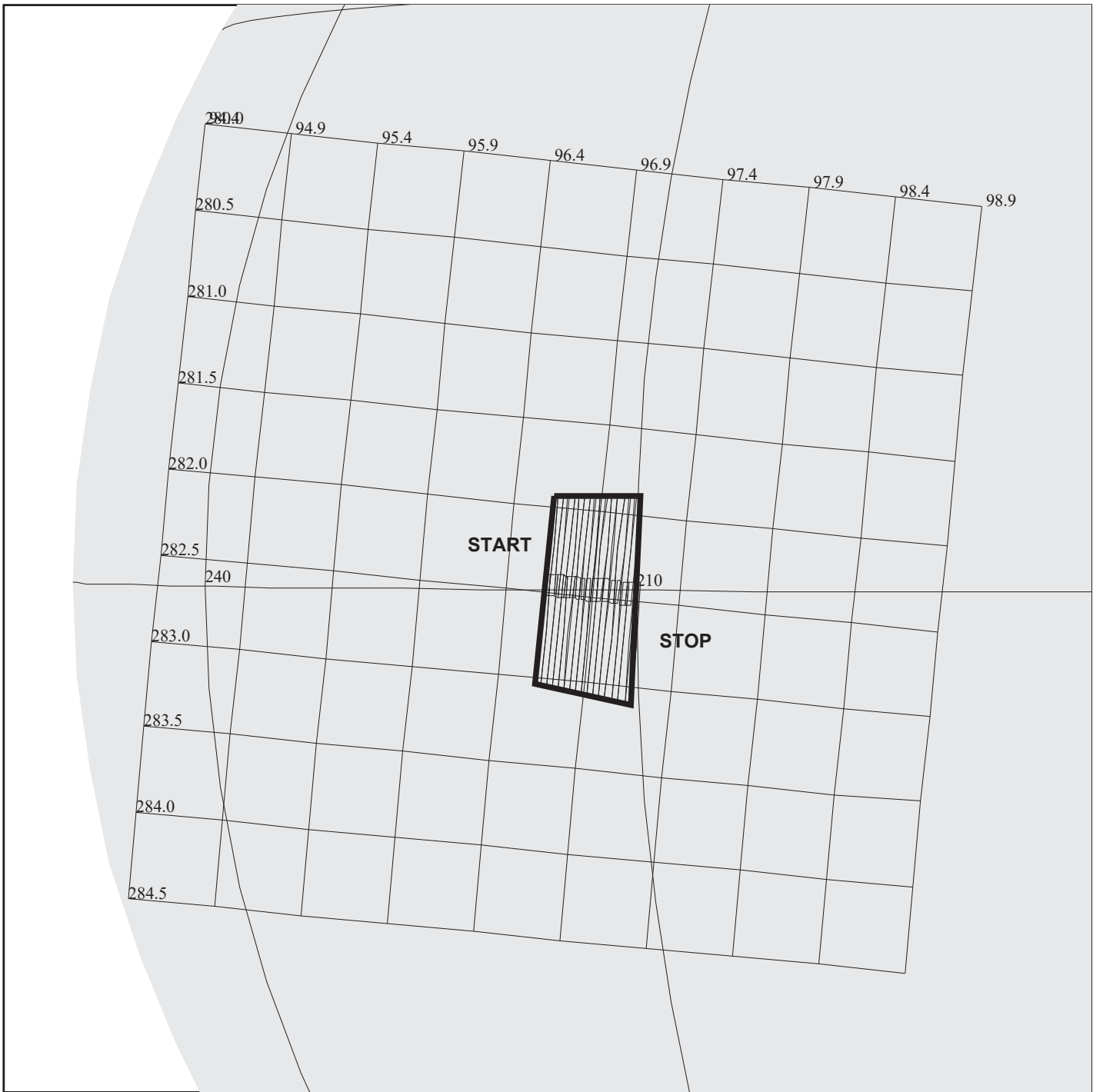
OBSERVATION:20CNCATMOS01

THINNING:NIM 2

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

DESCRIP:NIMS_CALLISTO_LIMB_DRIFT

Callisto Limb Scan		ACTIVITY ID:	20CNCATMOS01-		
		START TIME:	99-125/14:24:32.666		
Activity ID: Orbit 20 Target C Inst N OAPEL CATMOS SeqNo 01 -					
Title	Callisto Limb Scan		Instrument		NIMS
Requestor	NIMS-SWG/M. SEGURA		Team	NIMS Working Group	SWG
Time System	CDS	Load ID	Calendar Date	05/05/99	Week 70
Start	CEE+CDS	00000028:00:0	99-125/14:24:32.666	CEE+000/00:28:18.666	
End	CEE+CDS	00000041:00:0	99-125/14:37:41.333	CEE+000/00:41:27.333	
Duration		00000013:00:0	000/00:13:08.667	000/00:13:08.667	
Top Label	20CNCATMOS01-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	0	Report Options	BOTH		
CDS Source	OAP	Spin State	DUAL	Scan Platform	Yes
			DMS		Yes
Observation Objective					
<p>Callisto atmospheric limb scan. Search for carbon dioxide molecules and other constituents in Callisto's tenuous atmosphere. This observation is a view of the trailing side versus the leading side view in C10/prime mission.</p>					
Data Returned					
Design Detail					
<p>Limb Scan 3 RIMS targeting time CSMOS duration: 10 RIMS</p>					
<p>NOTE: An icy satellite, either Europa or Ganymede, is visible in part of the limb scan!</p>					
<p>SPACECRAFT IN CRUISE MODE - UNCOMPENSATED SPACECRAFT WOBBLE PRESENT</p>					
<p>Long Map (LM), Gain 4, Grating Start 0, LPU, CLM247L, CLM228L</p>					
Galileo Activity Plan Form			03/29/99	12:47:02	rev 6/95



165DK:TT= 0 TMC=1 C= -4.50 XC= -4.00 BS= 0/8554 TC= 1(0 212.5)
 A= 182 pD= 1810 SR=17.450 RA50=102.44 DEC50= 24.37 cone= 96.64 clock=282.26
 117DK:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/8554
 1:#s= 2 Cs= 8.00 XCs= 0.00 Cr= -7.60 XCr= 8.00 sD= 806 rD= 32

20CNFEATRE01

TARGET G3.1 lisac: 4/16/1999 13: 4:30

FILE:P.20CNFEATRE01

TARGET BODY : CALLISTO

MINI:m.target

S/C EPH:/DATA/NAVIO/990201-tour.NS

PERIAPSIS:

START:CEE 99-125/13:56:14.000 +CDS 42:00:0

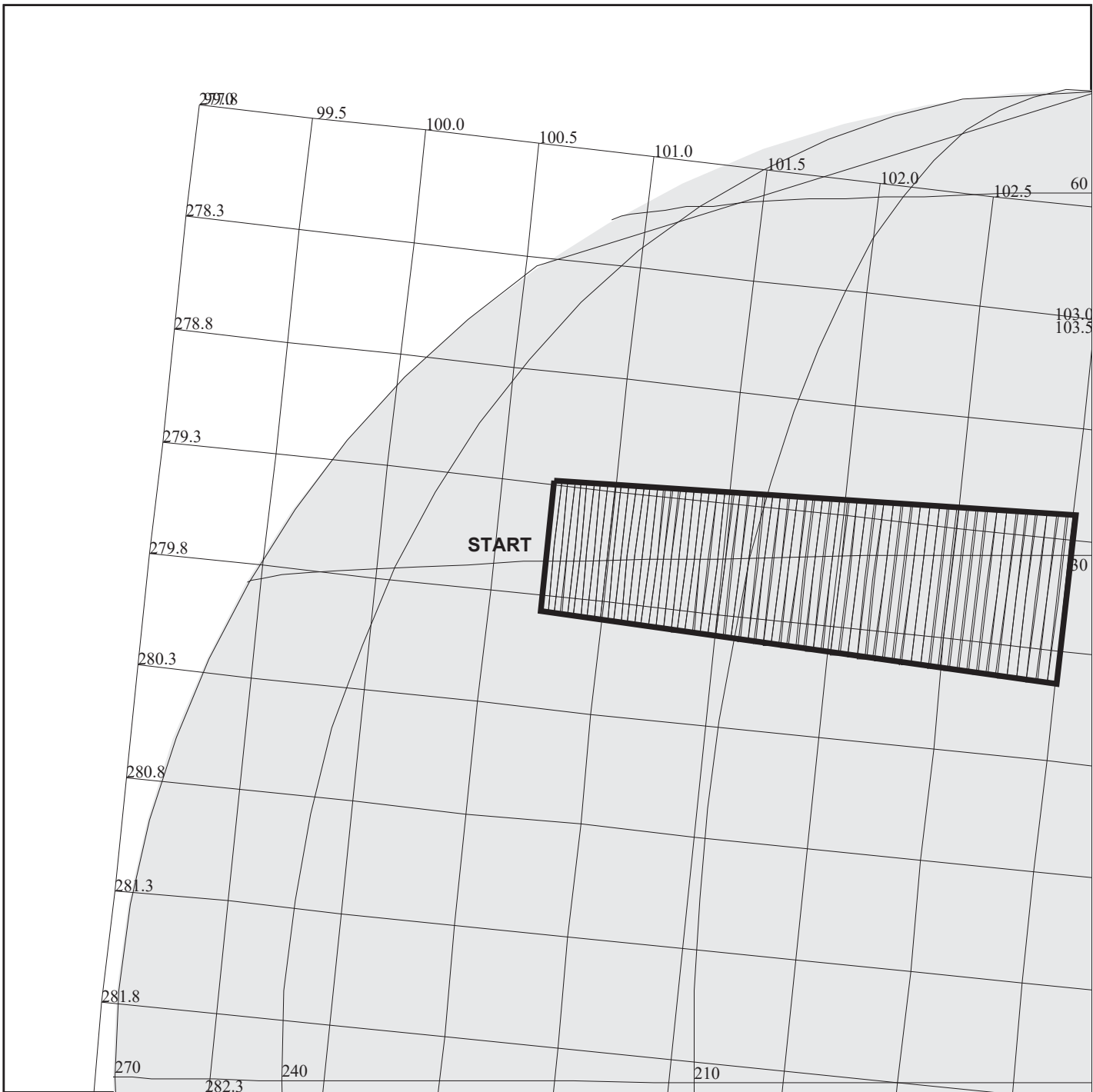
OBSERVATION:20CNFEATRE01

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 1810 S= 2.000

DESCRIP:NIMS_CALLISTO_FEATURE

Callisto Feature	ACTIVITY ID: 20CNFEATRE01-	START TIME: 99-125/14:37:41.333
Activity ID: Orbit 20	Target C	Inst N OAPEL FEATRE SeqNo 01 -
Title Requestor	Callisto Feature NIMS-SWG/M.SEGURA	Instrument NIMS Working Group
Team	NIMS	SWG
Time System	CDS	Load ID
Calendar Date	05/05/99	Week 70
Start	CEE+CDS 00000041:00:0	99-125/14:37:41.333
End	CEE+CDS 00000052:00:0	99-125/14:48:48.666
Duration	00000011:00:0	000/00:11:07.333
Top Label	20CNFEATRE01-	
Bottom Label		
Plot Key	NIMS	Type
CDS Bytes	150	Report Options
CDS Source	OAP	Spin State
SCI	BOTH	Scan Platform
DUAL	DMS	Yes
Observation Objective		
To determine minor surface constituents on the trailing hemisphere of Callisto.		
TICS=530, FMT=MPW, MBTG= 1.6, PPR_RA= 0.0		
Data Returned		
Design Detail		
Instrument mode = LM.		
Gain state = 4.		
Nyquist sampling, two scans at equator over lit longitudes.		
1 RIM targeting time		
CSMOS Duration: 10 RIMs		
SPACECRAFT IN CRUISE MODE - UNCOMPENSATED SPACECRAFT WOBBLE PRESENT		
Long Map (LM), Gain 4, Grating Start 0, MPW, CLM442, CLM228D_1		
Galileo Activity Plan Form	03/29/99 12:47:02	rev 6/95



START

20CNFEATRE02

165DL:TT= 0 TMC= 1 C= -9.00 XC= 0.00 BS= 0/2194 TC= 1(30 216)
 A= 728 pD= 3266 SR=17.450 RA50= 97.84 DEC50= 27.00 cone=100.75 clock=279.54
 117DL:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/2194
 1:#s= 1 Cs= 32.50 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 3266 rD= 2

TARGET G3.1 lisac: 4/16/1999 13: 4:30

FILE:P.20CNFEATRE02

TARGET BODY : CALLISTO

MINI:m.target

S/C EPH:/DATA/NAVIO/990201-tour.NS

PERIAPSIS:

THINNING:NIM 2

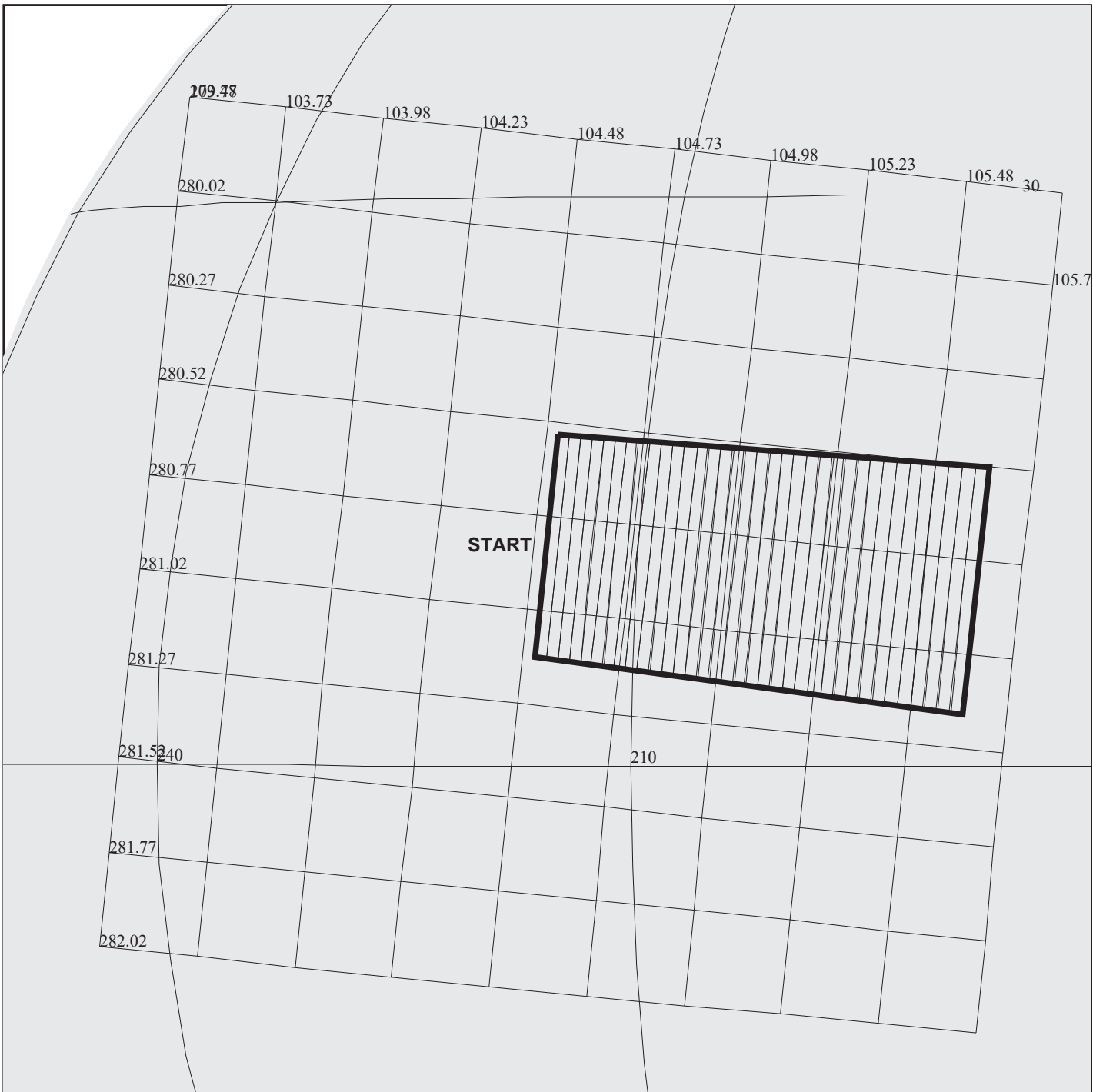
START:CEE 99-125/13:56:14.000 +CDS 62:00:0

BODY PLOT TIME:TARGET-TIME D= 3266 S= 1.800

OBSERVATION:20CNFEATRE02

DESCRIP:NIMS_CALLISTO_FEATURE

Callisto Feature	ACTIVITY ID: 20CNFEATRE02-	START TIME: 99-125/14:54:52.666
Activity ID: Orbit 20	Target C	Inst N OAPEL FEATRE SeqNo 02 -
Title Requestor	Callisto Feature NIMS-SWG/M.SEGURA	Instrument NIMS Working Group
Team	NIMS	NIMS SWG
Time System	CDS	Load ID
Calendar Date	05/05/99	Week 70
Start	CEE+CDS 00000058:00:0	99-125/14:54:52.666
End	CEE+CDS 00000072:00:0	99-125/15:09:02.000
Duration	00000014:00:0	000/00:14:09.334
Top Label	20CNFEATRE02-	
Bottom Label		
Plot Key	NIMS	Type
CDS Bytes	150	Report Options
CDS Source	OAP	Spin State
SCI	BOTH	Scan Platform
DUAL	DMS	Yes
Observation Objective		
To determine minor surface constituents on the trailing hemisphere of Callisto.		
TICS=971, FMT=MPW, MBTG= 2.0, PPR_RA= 0.0		
Data Returned		
Design Detail		
Instrument mode = LM.		
Gain state = 4.		
Nyquist sampling, two scans at equator over lit longitudes.		
1 RIM targeting time		
CSMOS Duration: 10 RIMs		
SPACECRAFT IN CRUISE MODE - UNCOMPENSATED SPACECRAFT WOBBLE PRESENT		
Long Map (LM), Gain 4, Grating Start 0, MPW, CLM442, CLM228D_1		
Galileo Activity Plan Form	03/29/99 12:47:02	rev 6/95



20CNFEATRE03

165DM:TT= 0 TMC=1 C= -9.00 XC= 0.00 BS= 0/8382 TC= 1(10 204)
 A= 728 pD= 1810 SR= 8.000 RA50= 93.71 DEC50= 25.54 cone=104.52 clock=280.85
 117DM:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/8382
 1:#s= 1 Cs= 18.00 XCs= 0.00 Cr= 0.00 XCcr= 0.00 sD= 1810 rD= 2

TARGET G3.1 lisac: 4/16/1999 13: 4:30

FILE:P.20CNFEATRE03

TARGET BODY : CALLISTO

MINI:m.target

S/C EPH:/DATA/NAVIO/990201-tour.NS

PERIAPSIS:

START:CEE 99-125/13:56:14.000 +CDS 96:00:0

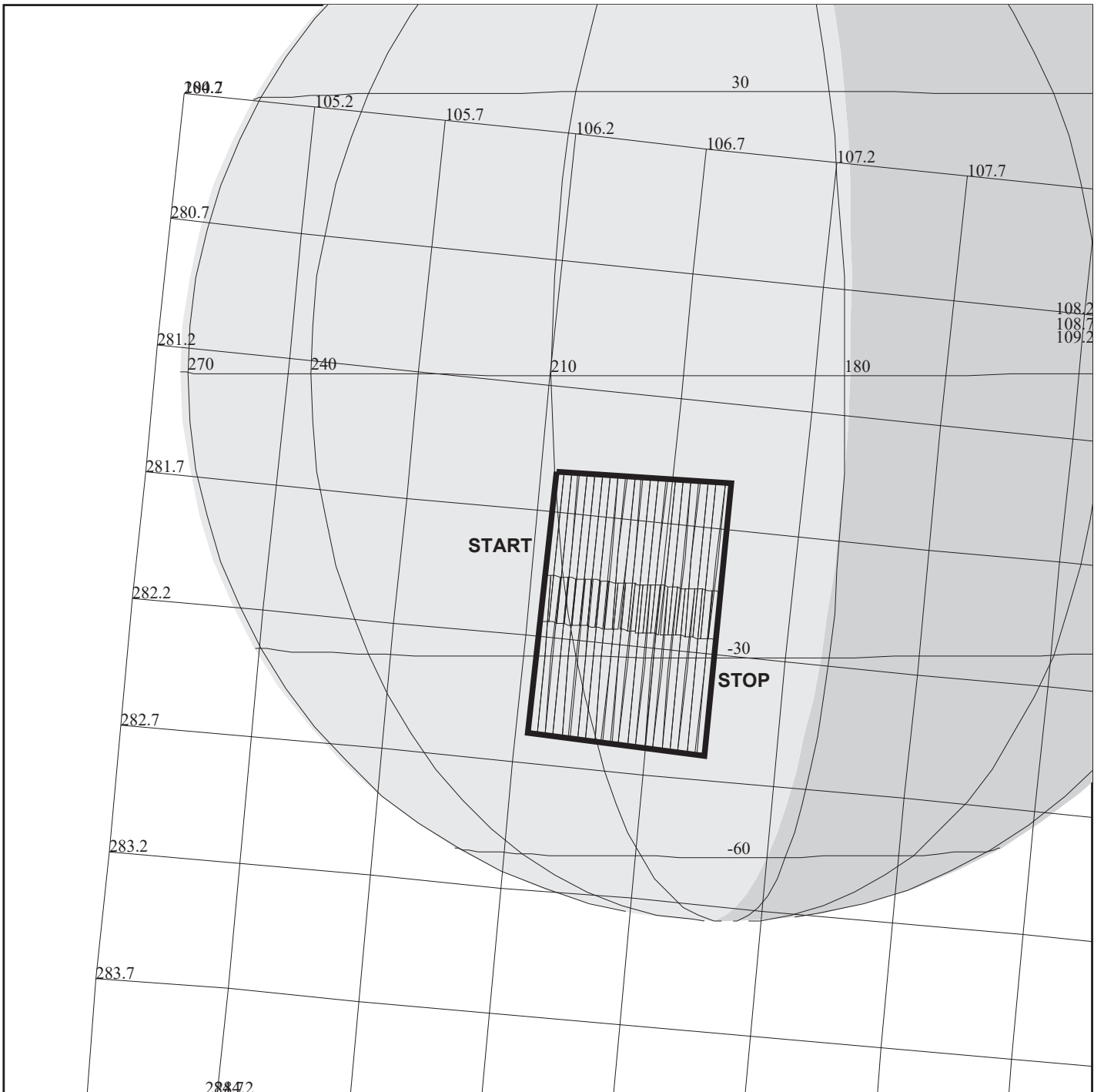
OBSERVATION:20CNFEATRE03

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 1810 S= 2.000

DESCRIP:NIMS_CALLISTO_FEATURE

Callisto Feature Observation	ACTIVITY ID: 20CNFEATRE03-	START TIME: 99-125/15:29:15.333
Activity ID: Orbit 20 Target C Inst N OAPEL FEATRE SeqNo 03 -		
Title	Callisto Feature Observation	Instrument NIMS
Requestor	NIMS-SWG/M.SEGURA	Team NIMS Working Group SWG
Time System	CDS	Load ID
		Calendar Date 05/05/99 Week 70
Start	CEE+CDS 00000092:00:0	99-125/15:29:15.333 CEE+000/01:33:01.333
End	CEE+CDS 00000106:00:0	99-125/15:43:24.666 CEE+000/01:47:10.666
Duration	00000014:00:0	000/00:14:09.333 000/00:14:09.333
Top Label	20CNFEATRE03-	
Bottom Label		
Plot Key	NIMS	Type SCI
CDS Bytes	150	Report Options BOTH
CDS Source	OAP	Spin State DUAL
		Scan Platform DMS
		Yes Yes
Observation Objective		
To determine minor surface constituents on the trailing hemisphere of Callisto.		
TICS=530, FMT=MPW, MBTG= 1.7, PPR_RA= 0.0		
Data Returned		
Design Detail		
Instrument mode = LM.		
Gain state = 4.		
Nyquist sampling, two scans at equator over lit longitudes.		
1 RIM targeting time		
CSMOS Duration: 10 RIMs		
SPACECRAFT IN CRUISE MODE - UNCOMPENSATED SPACECRAFT WOBBLE PRESENT		
Long Map (LM), Gain 4, Grating Start 0, MPW, CLM442, CLM228D_1		
Galileo Activity Plan Form	03/29/99 12:47:02	rev 6/95



165DP:TT= 0 TMC= 1 C= -5.00 XC= -3.50 BS= 0/4388 TC= 1(-24.2 204)
 A= 728 pD= 2366 SR=17.450 RA50= 91.85 DEC50= 24.43 cone=106.28 clock=281.88
 117DP:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/4388
 1:#s= 2 Cs= 11.00 XCs= 0.00 Cr= -11.00 XCr= 7.00 sD= 1104 rD= 32

20CNBRANCR01

TARGET G3.1 lisac: 4/16/1999 13: 4:30

FILE:P.20CNBRANCR01

TARGET BODY : CALLISTO

MINI:m.target

S/C EPH:/DATA/NAVIO/990201-tour.NS

PERIAPSIS:

START:CEE 99-125/13:56:14.000 +CDS 129:00:0

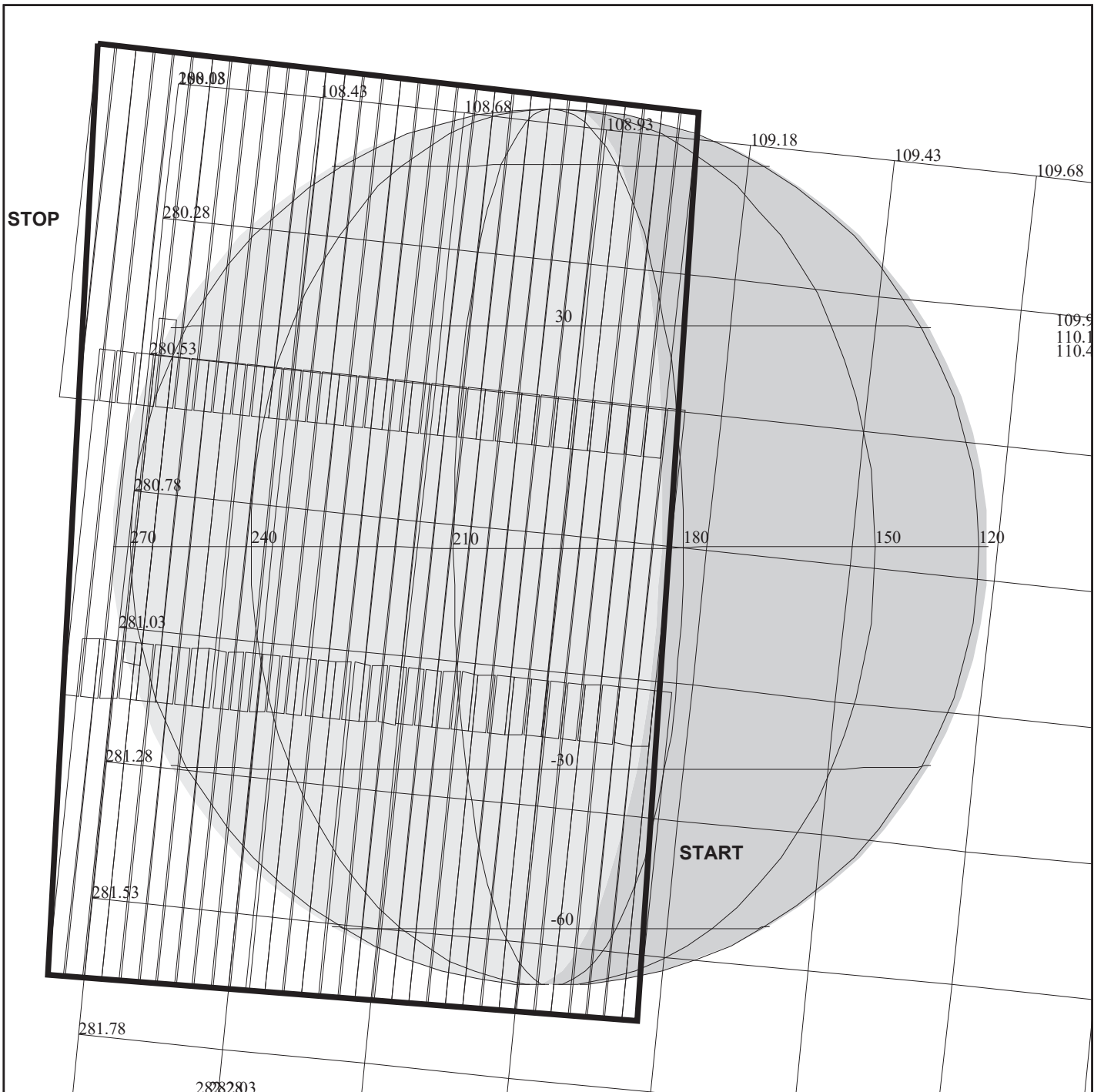
OBSERVATION:20CNBRANCR01

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 2366 S= 1.000

DESCRIP:NIMS_CALLISTO_FEATURE

Bran Crater		ACTIVITY ID: 20CNBRANCR01-	
		START TIME: 99-125/16:02:37.333	
Activity ID: Orbit 20 Target C Inst N OAPEL BRANCR SeqNo 01 -			
Title	Bran Crater	Instrument	
Requestor	NIMS-SWG/M. SEGURA	Team	NIMS Working Group
			NIMS SWG
Time System	CDS	Load ID	Calendar Date 05/05/99 Week 70
Start	CEE+CDS 00000125:00:0	99-125/16:02:37.333	CEE+000/02:06:23.333
End	CEE+CDS 00000185:00:0	99-125/17:03:17.333	CEE+000/03:07:03.333
Duration	00000060:00:0	000/01:00:40.000	000/01:00:40.000
Top Label	20CNBRANCR01-		
Bottom Label			
Plot Key	NIMS	Type	SCI
CDS Bytes	0	Report Options	BOTH
CDS Source	OAP	Spin State	DUAL
		Scan Platform	Yes
		DMS	Yes
Observation Objective			
Observe Bran crater and surrounding area to determine chemical composition and variations of the surface.			
Data Returned			
Design Detail			
Long Map, Nyquist sampling			
Observation center: -24.2 degrees latitude, 204.0 degrees longitude			
2 scans with 20% overlap			
Cover 20 degrees of longitude per scan			
NOTE - use as much time as necessary			
SPACECRAFT IN CRUISE MODE - UNCOMPENSATED SPACECRAFT WOBBLE PRESENT			
Long Map (LM), Gain 4, Grating Start 0, MPW, CLM442, CLM228D_1			
Galileo Activity Plan Form		03/29/99 12:47:02	rev 6/95



165DN:TT= 0 TMC=1 C= 4.00 XC= 9.00 BS= 0/5338 TC= 3
 A= 728 pD= 0 SR=17.450 RA50= 88.67 DEC50= 24.70 cone=109.14 clock=281.35
 117DN:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/5338
 1:#s= 3 Cs= -16.80 XCs= 0.00 Cr= 16.80 XCr= -8.50 sD= 1684 rD= 20

20CNGLOBAL01

DESIGN G3.2 lisac: 4/21/1999 16:21:26

FILE:P.20CNGLOBAL01

TARGET BODY : CALLISTO

MINI:m.20CNGLOBAL01

S/C EPH:/DATA/NAVIO/990201-tour.NS

PERIAPSIS:

START:CEE 99-125/13:56:14.000 +CDS 354:00:0

OBSERVATION:20CNGLOBAL01

THINNING:NIM 2

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

DESCRIP:Callisto_Global_Map

Callisto Global Map		ACTIVITY ID:	20CNGLOBAL01-		
		START TIME:	99-125/19:50:07.333		
Activity ID: Orbit 20 Target C Inst N OAPEL GLOBAL SeqNo 01 -					
Title	Callisto Global Map		Instrument		NIMS
Requestor	NIMS-SWG/M.SEGURA		Team	NIMS Working Group	SWG
Time System	CDS	Load ID	Calendar Date	05/05/99	Week 70
Start	CEE+CDS	00000350:00:0	99-125/19:50:07.333	CEE+000/05:53:53.333	
End	CEE+CDS	00000382:00:0	99-125/20:22:28.666	CEE+000/06:26:14.666	
Duration		00000032:00:0	000/00:32:21.333	000/00:32:21.333	
Top Label	20CNGLOBAL02-				
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					
<p>This observation will allow for trailing side compositional mapping. Prime mission observations as well as VGR and IUE observations have indicated compositional differences from leading side to trailing side.</p> <p>TICS=1426, FMT=MPW, MBTG=3.528, PPR_RA=0.26</p>					
Data Returned					
Design Detail					
<p>Instrument Mode = LM. Scan rate = 0.03 mrad, Nyquist sampling, twenty percent overlap. Phase angle = 16.82 degrees. Cone angle = 168.43 degrees. Resolution = 102 km/pixel.</p> <p>A NIMS OPCAL is performed at the end of this observation.</p>					
SPACECRAFT IN CRUISE MODE - UNCOMPENSATED SPACECRAFT WOBBLE PRESENT					
<p>Long Map (LM), Gain 4, Grating Start 0, LPU, CLM243D, CLM228D_0</p> <p>Long Map (LM), Gain 4, Grating Start 0, LPU, PCT252, OPCAL48</p>					
Galileo Activity Plan Form			03/29/99	12:47:03	rev 6/95

NIMS Chopper Off		ACTIVITY ID: 20NNCHOPOF01-	
		START TIME: 99-125/20:38:39.333	
Activity ID: Orbit 20 Target N Inst N OAPEL CHOPOF SeqNo 01 -			
Title	NIMS Chopper Off		Instrument
Requestor	NIMS-SWG/M. SEGURA		NIMS
	Team	NIMS	Working Group
Time System	CDS	Load ID	Calendar Date 05/05/99 Week 70
Start	CEE+CDS 00000398:00:0	99-125/20:38:39.333	CEE+000/06:42:25.333
End	CEE+CDS 00000408:00:0	99-125/20:48:46.000	CEE+000/06:52:32.000
Duration	00000010:00:0	000/00:10:06.667	000/00:10:06.667
Top Label	20NNCHOPOF01-		
Bottom Label			
Plot Key	NIMS	Type	SCI
CDS Bytes	0	Report Options	BOTH
CDS Source	OAP	Spin State	ALL
		Scan Platform	No
		DMS	No
Observation Objective			
NIMS Chopper Off			
Design Detail			
Galileo Activity Plan Form			
		03/29/99 12:47:03	rev 6/95

NIMS Real-Time PCT Calibration		ACTIVITY ID: 20NNPCTRLT01-	
		START TIME: 99-138/18:29:56.666	
Activity ID: Orbit 20 Target N Inst N OAPEL PCTRLT SeqNo 01 -			
Title	NIMS Real-Time PCT Calibration		Instrument
Requestor	NIMS-SWG/M. SEGURA	Team	NIMS Working Group
			NIMS SWG
Time System	CDS	Load ID	Calendar Date 05/18/99 Week 72
Start	PCT+CDS 0:00:0	99-138/18:29:56.666	PCT+000/00:00:00.000
End	PCT+CDS 00000465:00:0	99-139/02:20:06.666	PCT+000/07:50:10.000
Duration	00000465:00:0	000/07:50:10.000	000/07:50:10.000
Top Label	20NNPCTRLT01-		
Bottom Label			
Plot Key	NIMS	Type	SCI
CDS Bytes	275	Report Options	BOTH
CDS Source	OAP	Spin State	DUAL
		Scan Platform	Yes
		DMS	No
Observation Objective			
<p>This observation is an NIMS photometric calibration usint the PCT target. The data will be used to calibrate the NIMS visible detectors. The calibration data will be returned using Real-Time telemetry. At this time the off sun angle is about 5 degrees.</p>			
Data Returned			
Design Detail			
<ol style="list-style-type: none"> 1) Turn off PCT heaters 6 hours before calibration. 2) Scan Platform is at Safe/Unstow (cone = 153.00, clock = 0.00) 3) Chopper on, Gain State 4, 4) Set NIMS to Long Map Mode, ETB = PCT252, Mirror Blocking (1B, 1B) (11011, 11011) 5) Select 2 RIMs of Dark in Real-Time (Return 2 LM grating cycle) 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 (cone = 153.00, clock = 0.00) 9) NIMS to Safe Mode, Reset Mirror Blocking (00,00) (00000, 00000) 10) Chopper Off. 			
Long Map (LM), Gain 4, Grating Start 0, R/T, PCT252			
Galileo Activity Plan Form		03/29/99 12:47:03	rev 6/95

NIMS RCT Real Time Calibration		ACTIVITY ID:	20NNRCTRLT01-		
		START TIME:	99-157/12:00:00.000		
Activity ID: Orbit 20 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	06/06/99	Week 75
Start	RTA+CDS 0:00:0		99-157/12:00:00.000	RTA+000/00:00:00.000	
End	RTA+CDS 00000787:00:0		99-158/01:15:44.666	RTA+000/13:15:44.666	
Duration	00000787:00:0		000/13:15:44.666	000/13:15:44.666	
Top Label	20NNRCTRLT01-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	450	Report Options	BOTH		
CDS Source	OAP	Spin State	DUAL	Scan Platform	No
				DMS	No
Observation Objective					
<p>This observation is a NIMS radiometric calibration using the RCT target. The data will be used to calibrate the NIMS thermal detectors. The calibration data will be returned using Real-time Telemetry</p> <p>The NIMS OPCAL has been included in the RCT calibration for GEM. Perform NIMS Optical Calibration to calibrate the NIMS grating.</p> <p>This is a GEM Library Sequence The Dark cone angle must be selected using Pointer.</p> <p>Data Returned</p>					
Design Detail					
<ol style="list-style-type: none"> 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. <p>Long Map (LM), Gain 1, Grating Start 0, R/T, RCT252 Long Map (LM), Gain 4, Grating Start 0, R/T, OPCAL48</p>					
Galileo Activity Plan Form			03/29/99	12:47:03	rev 6/95

Chapter 6 - Edit Tables

Contents

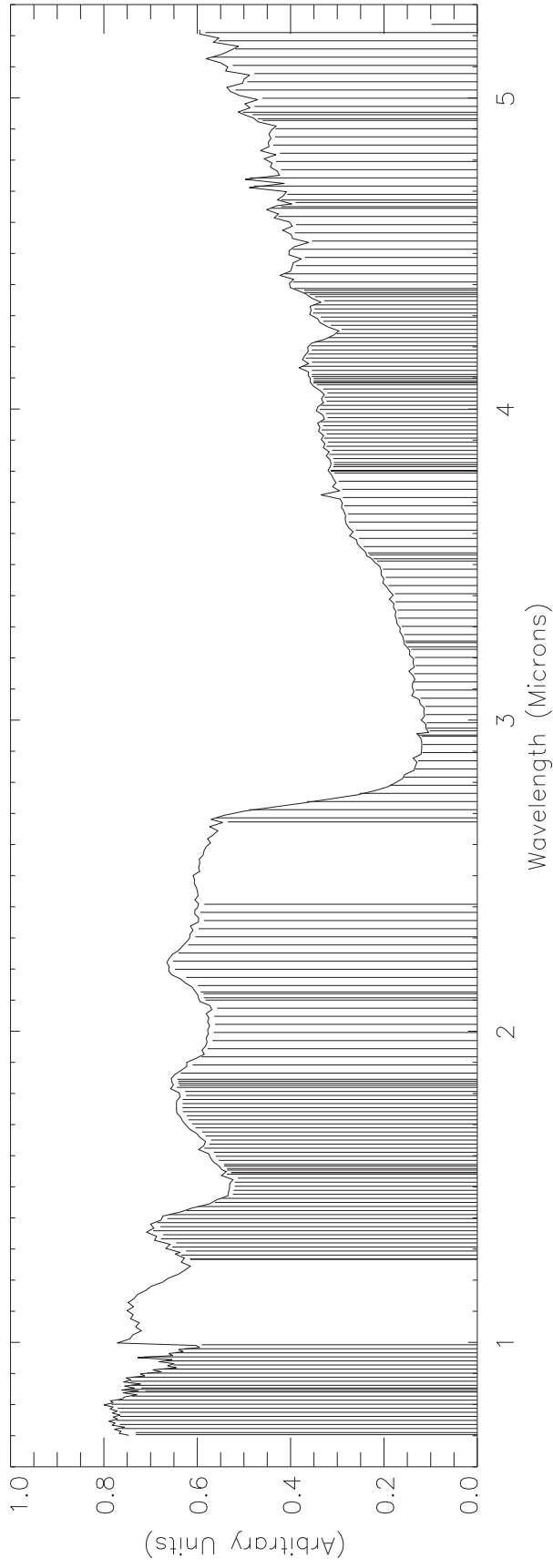
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Introduction to Chapter 6

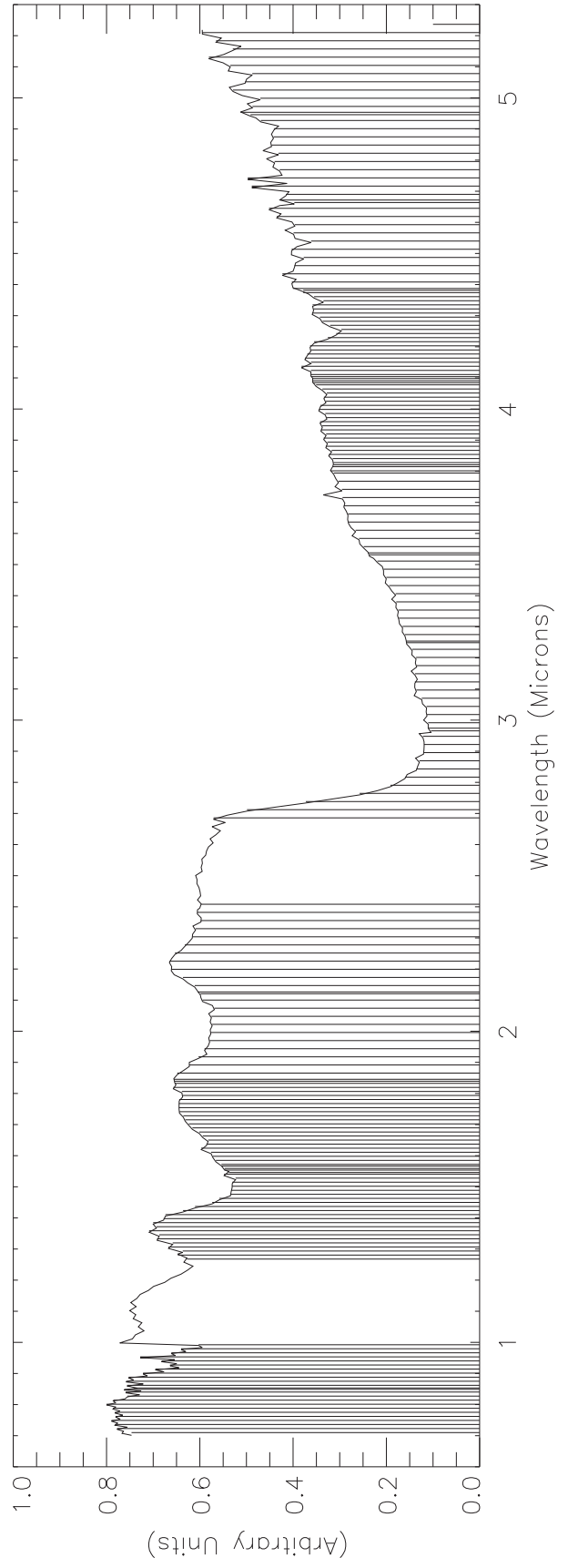
NIMS Edit Table Plots

This chapter contains plots of the NIMS Edit Tables used in C20. The representative spectra used in these plots are observational reference spectra for the target body as obtained from telescopic observations from the Earth. Each reference spectrum is a composite of multiple published sources. Vertical lines below the reference curves mark the wavelengths selected for return. Where no spectral information is available, the selected wavelengths are shown as lines with amplitude equal to .05 on the vertical axis.

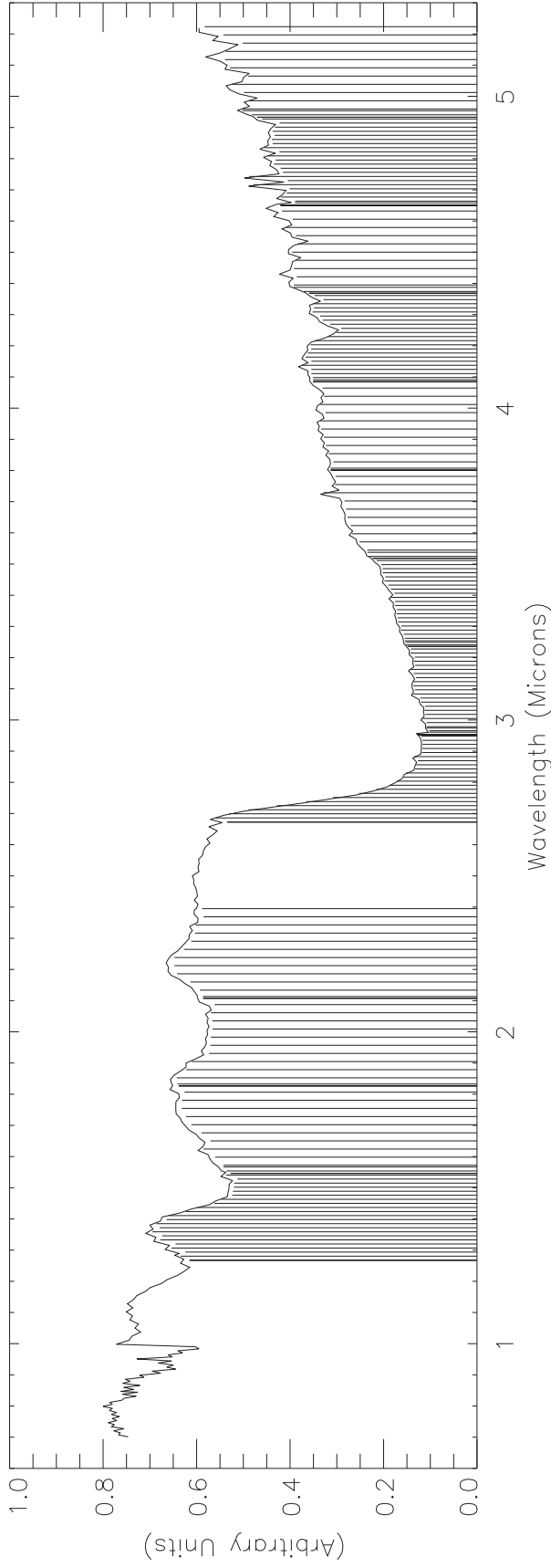
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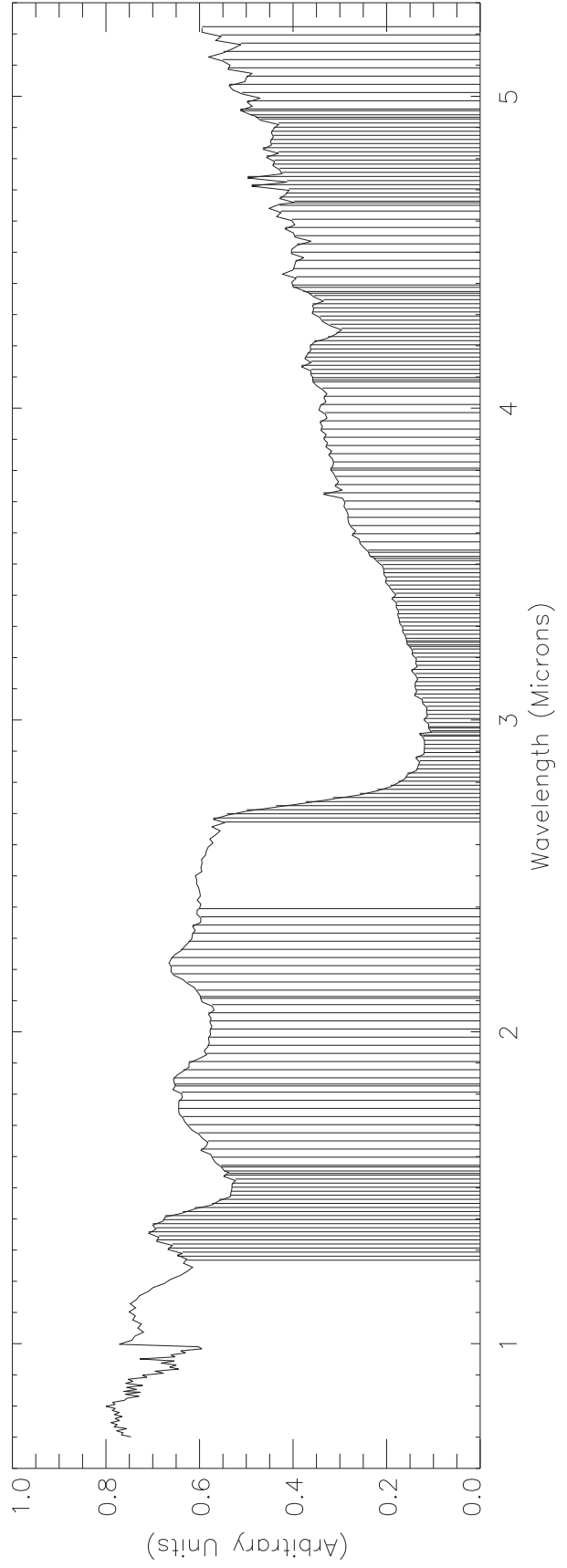
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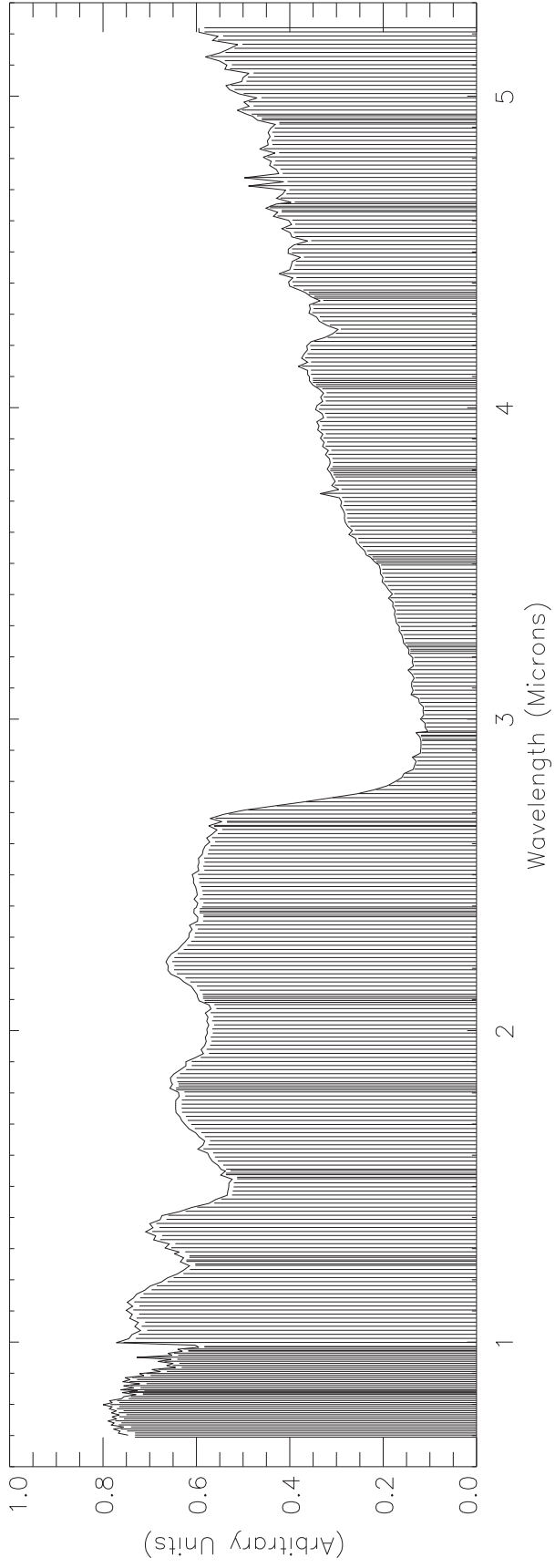
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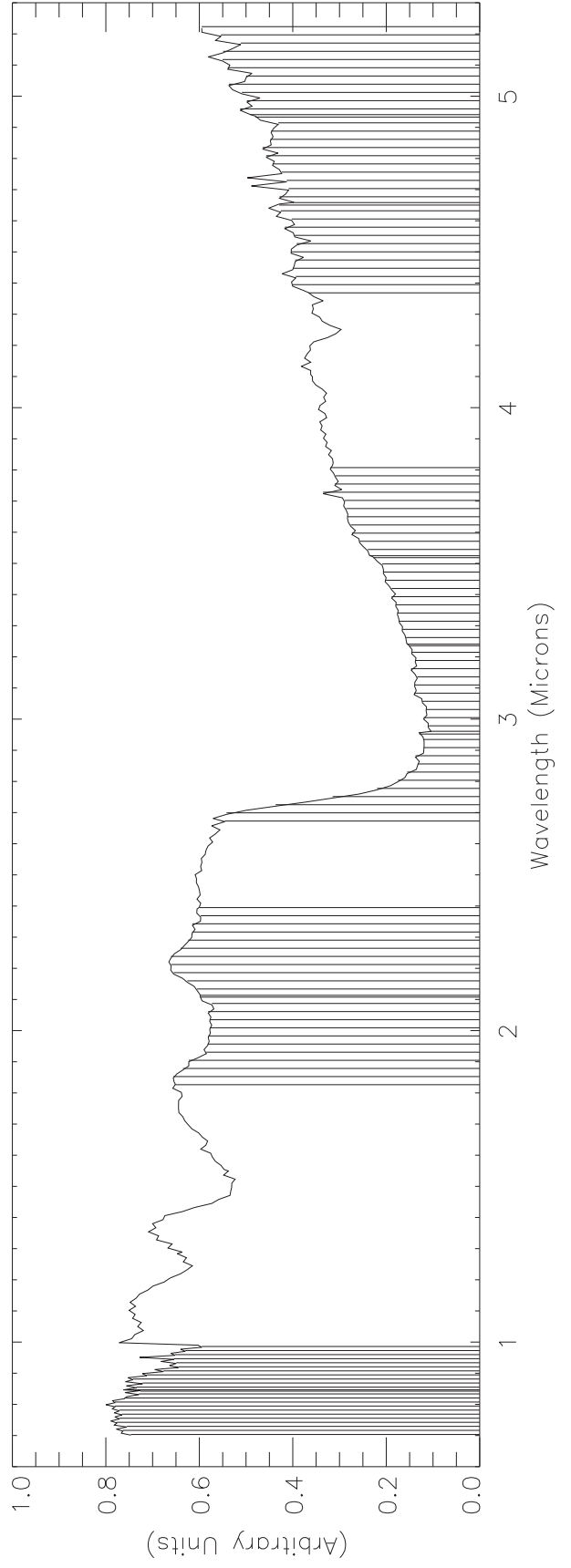
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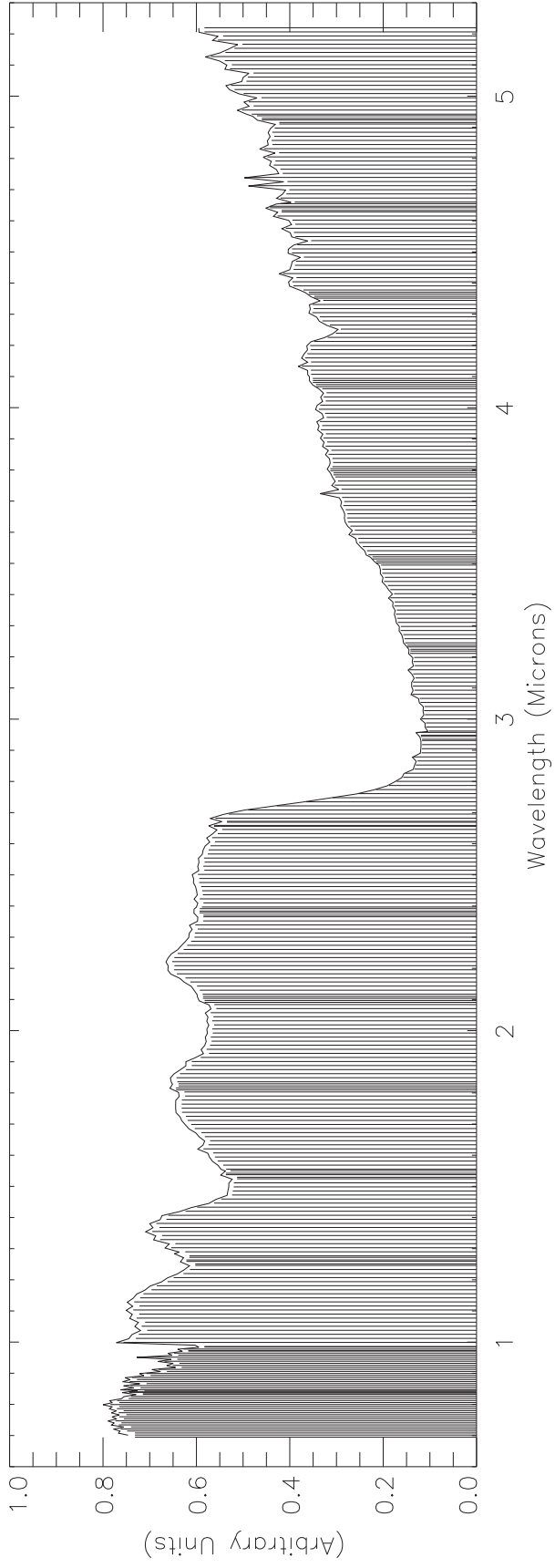
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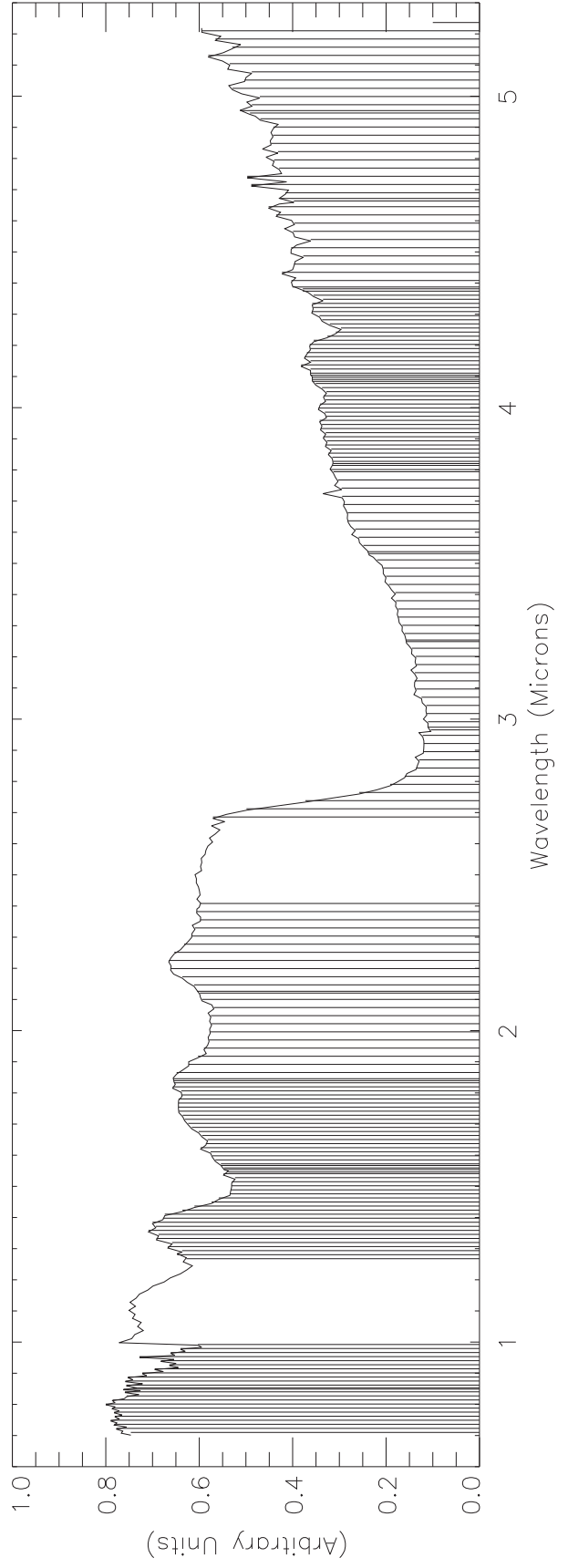
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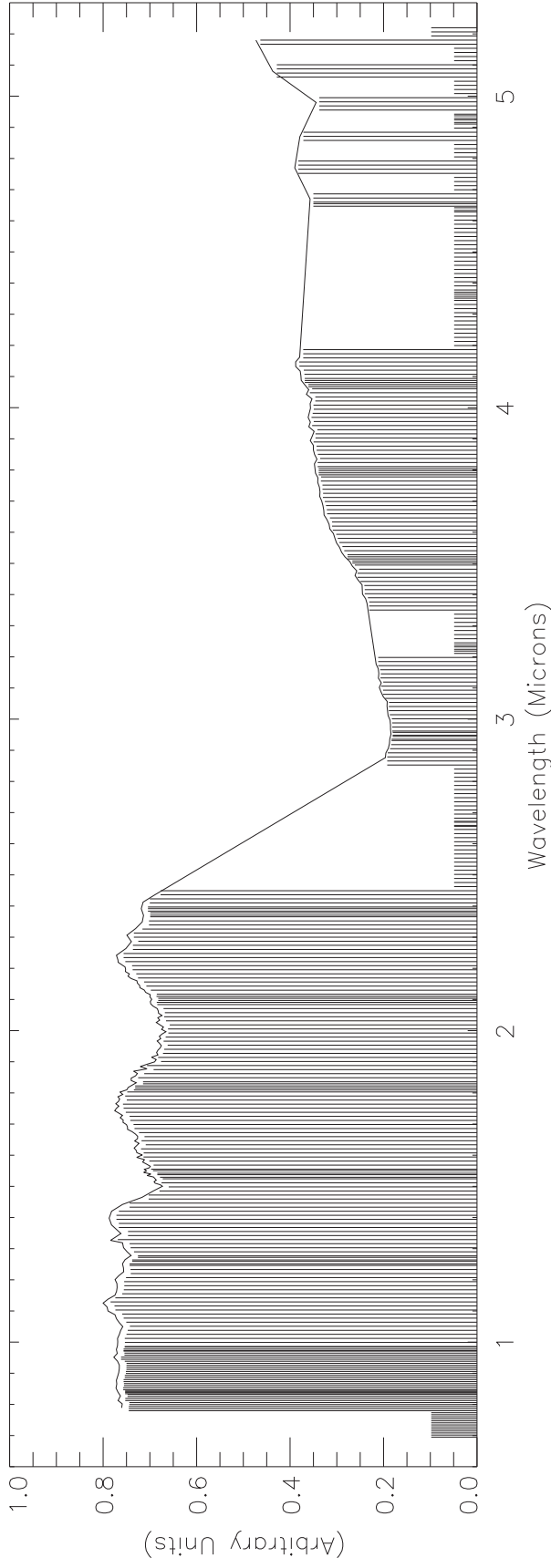
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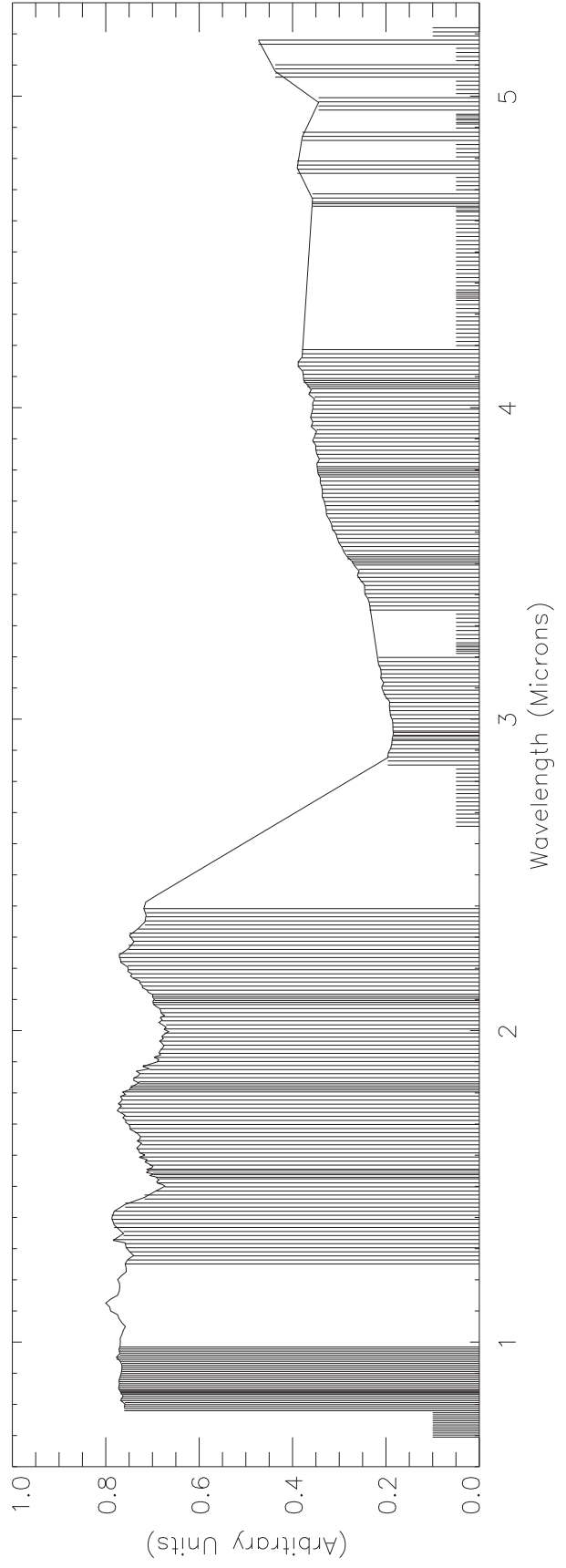
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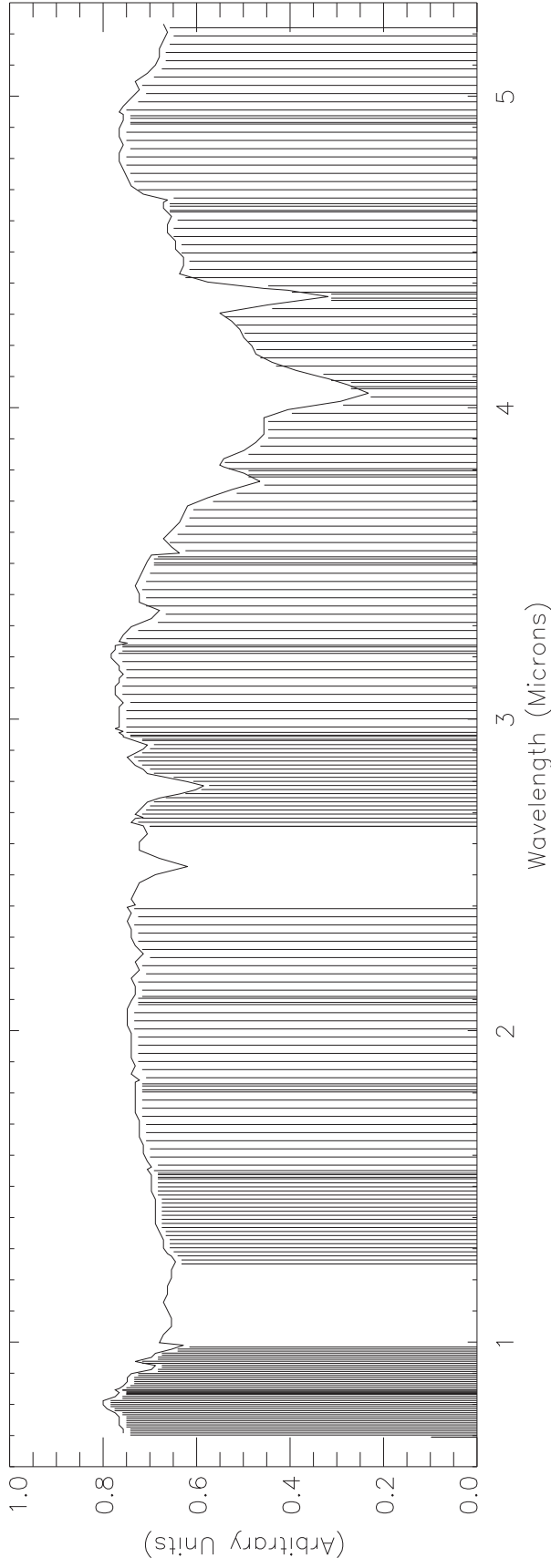
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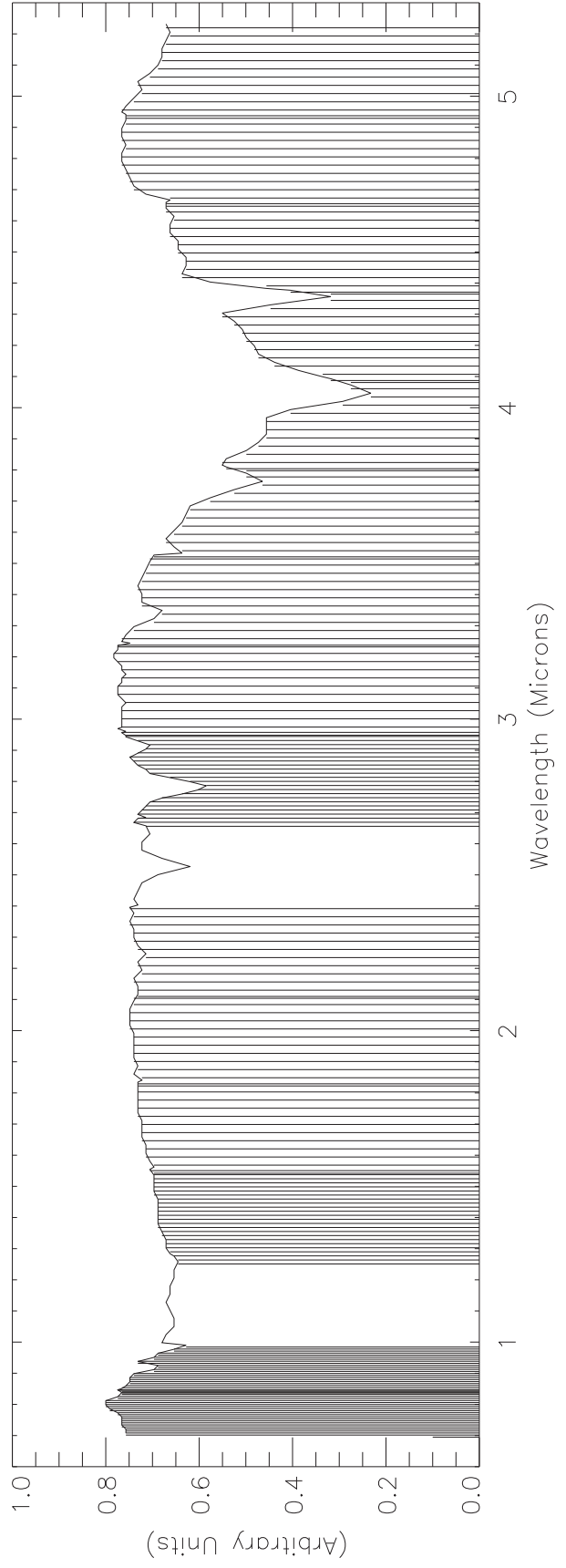
CLM360.PBK



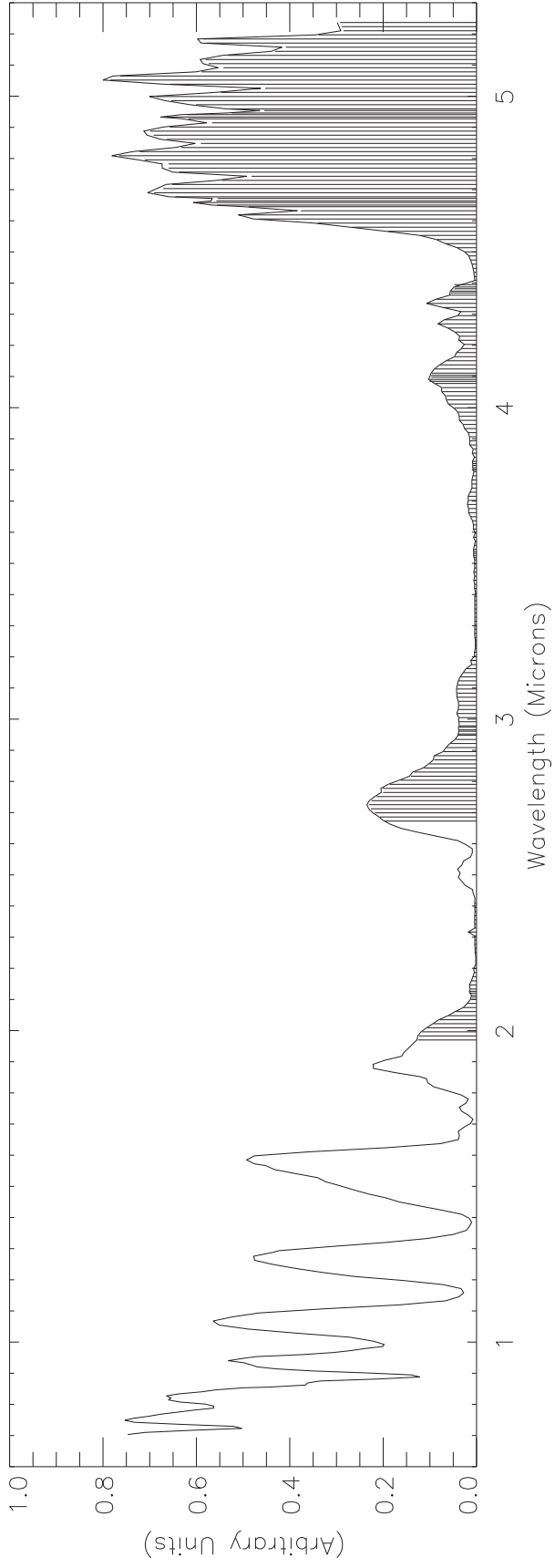
ILMDK243D.ETB



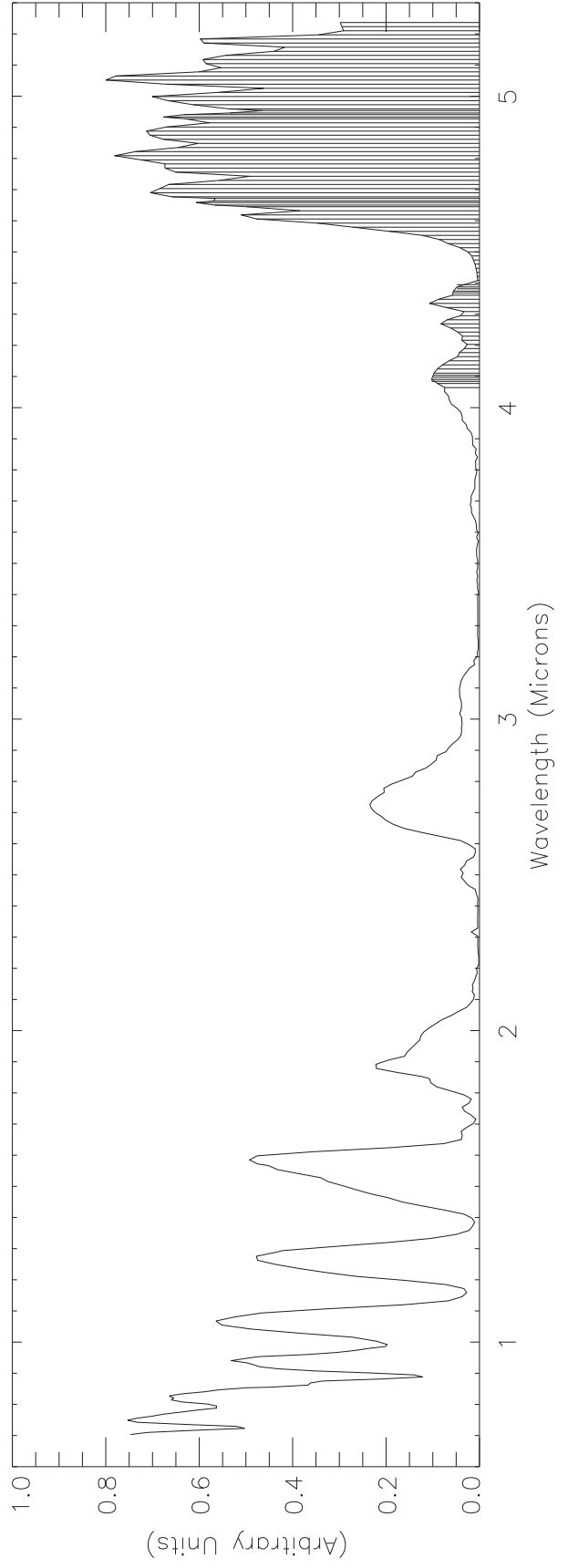
ILMDK228D.PBK



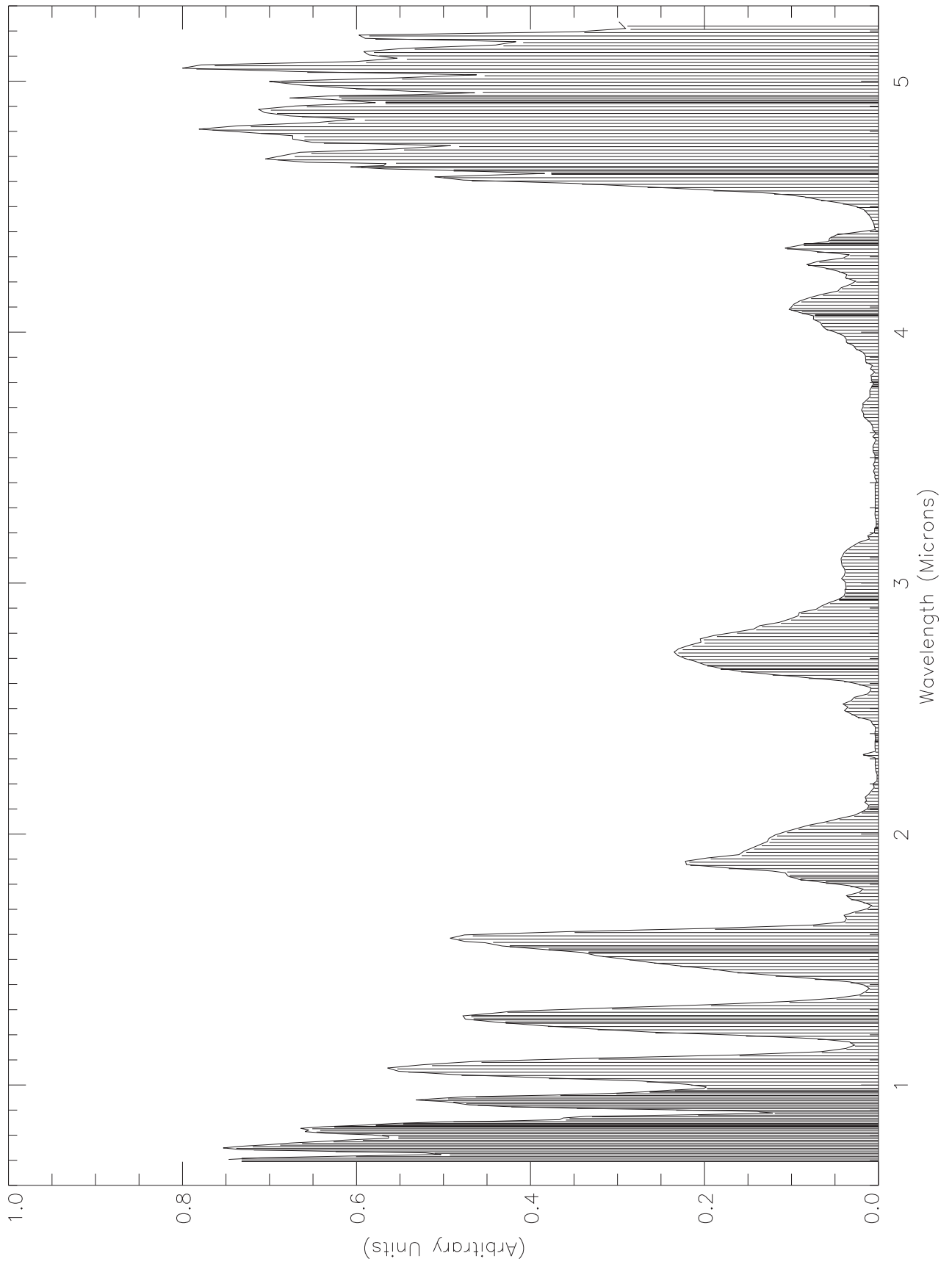
JHT253A.ETB



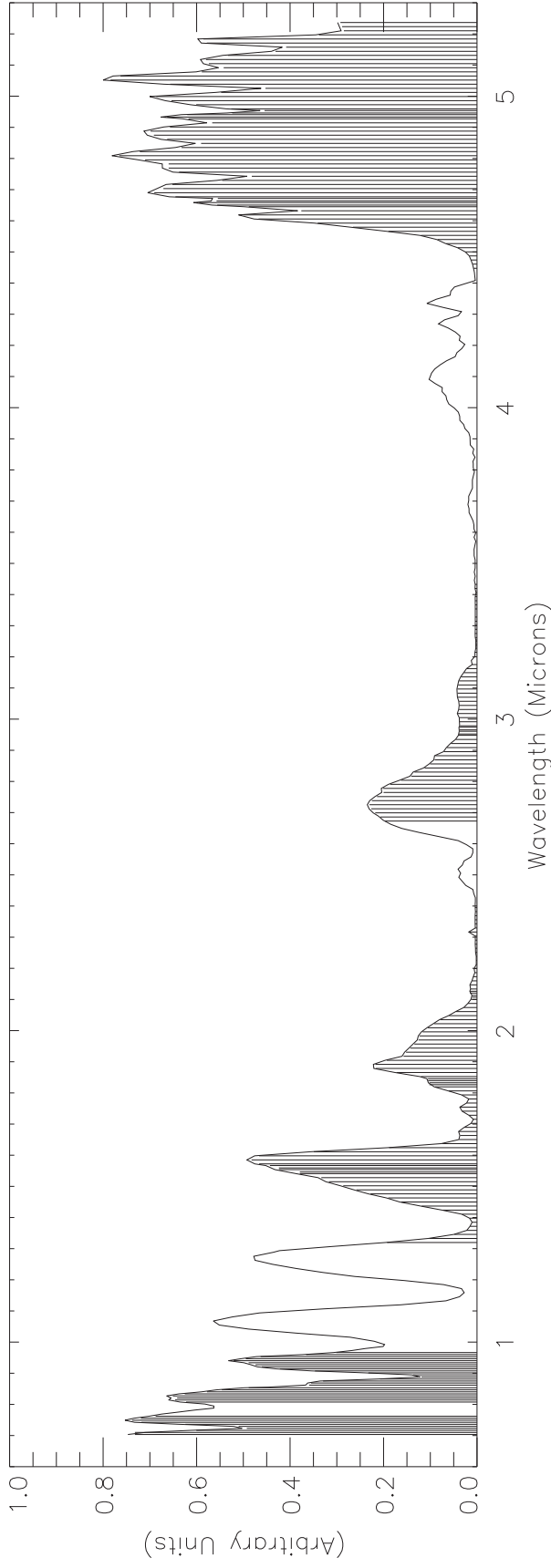
JHT100A.PBK



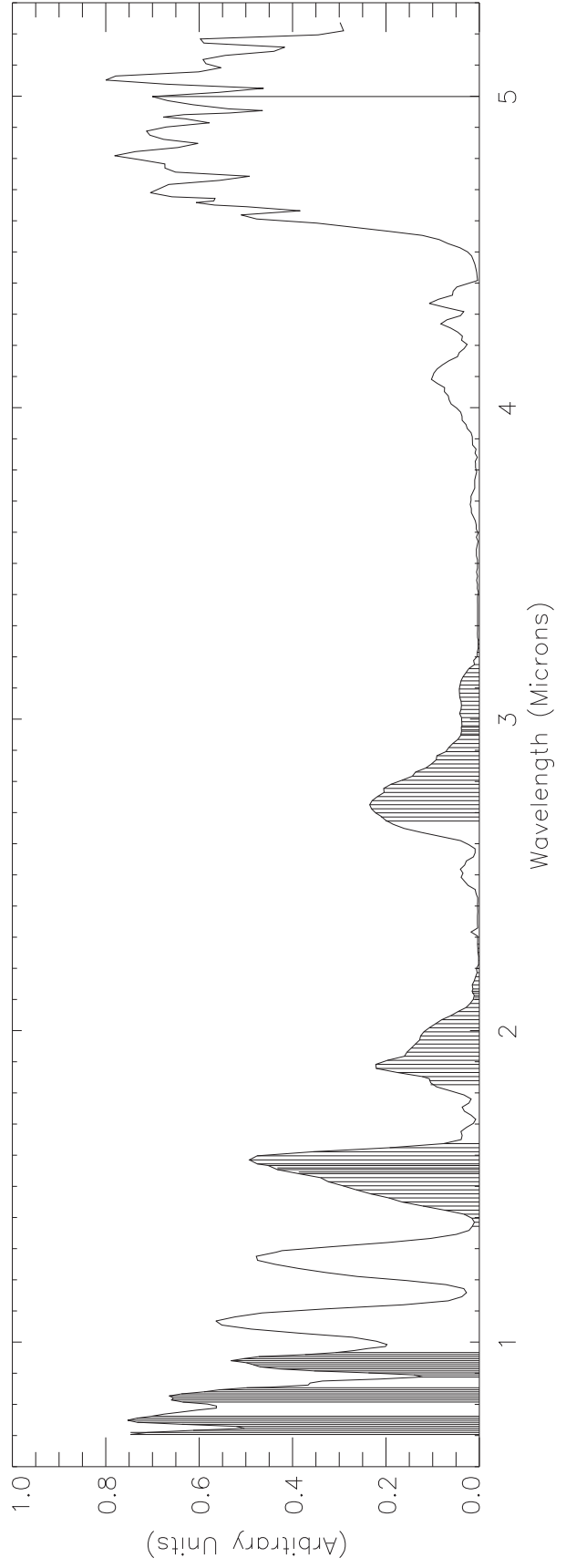
JLM408



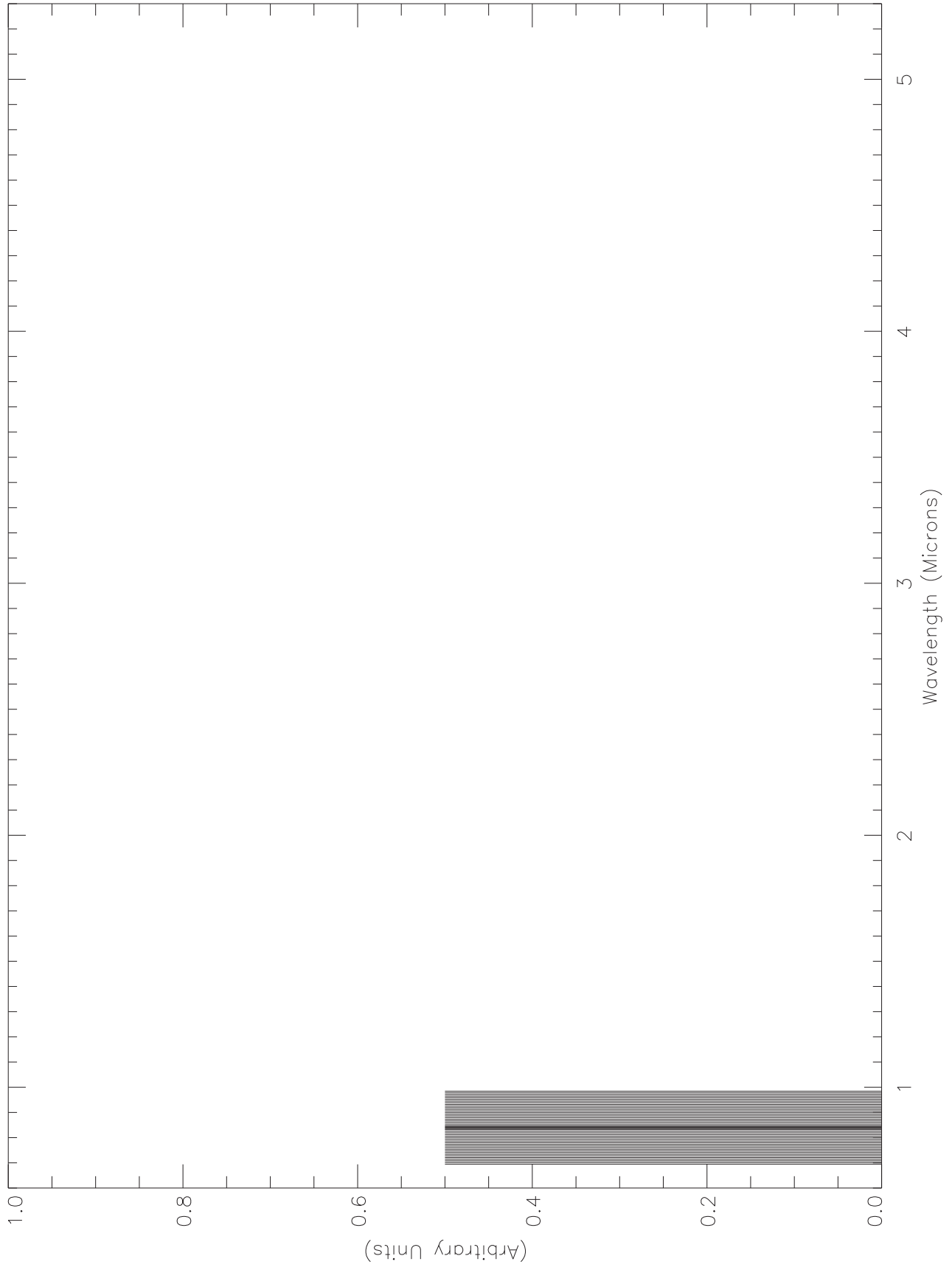
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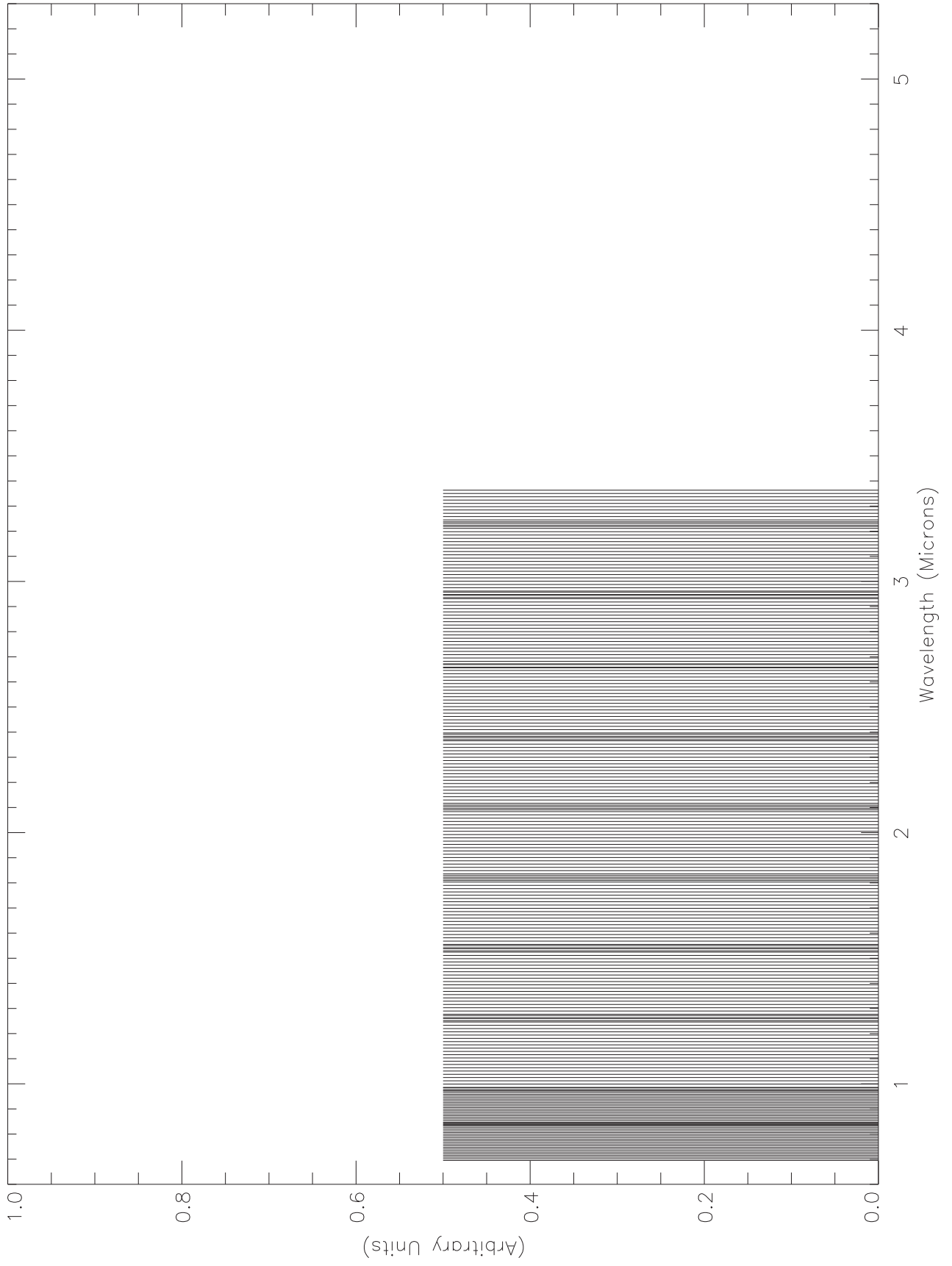
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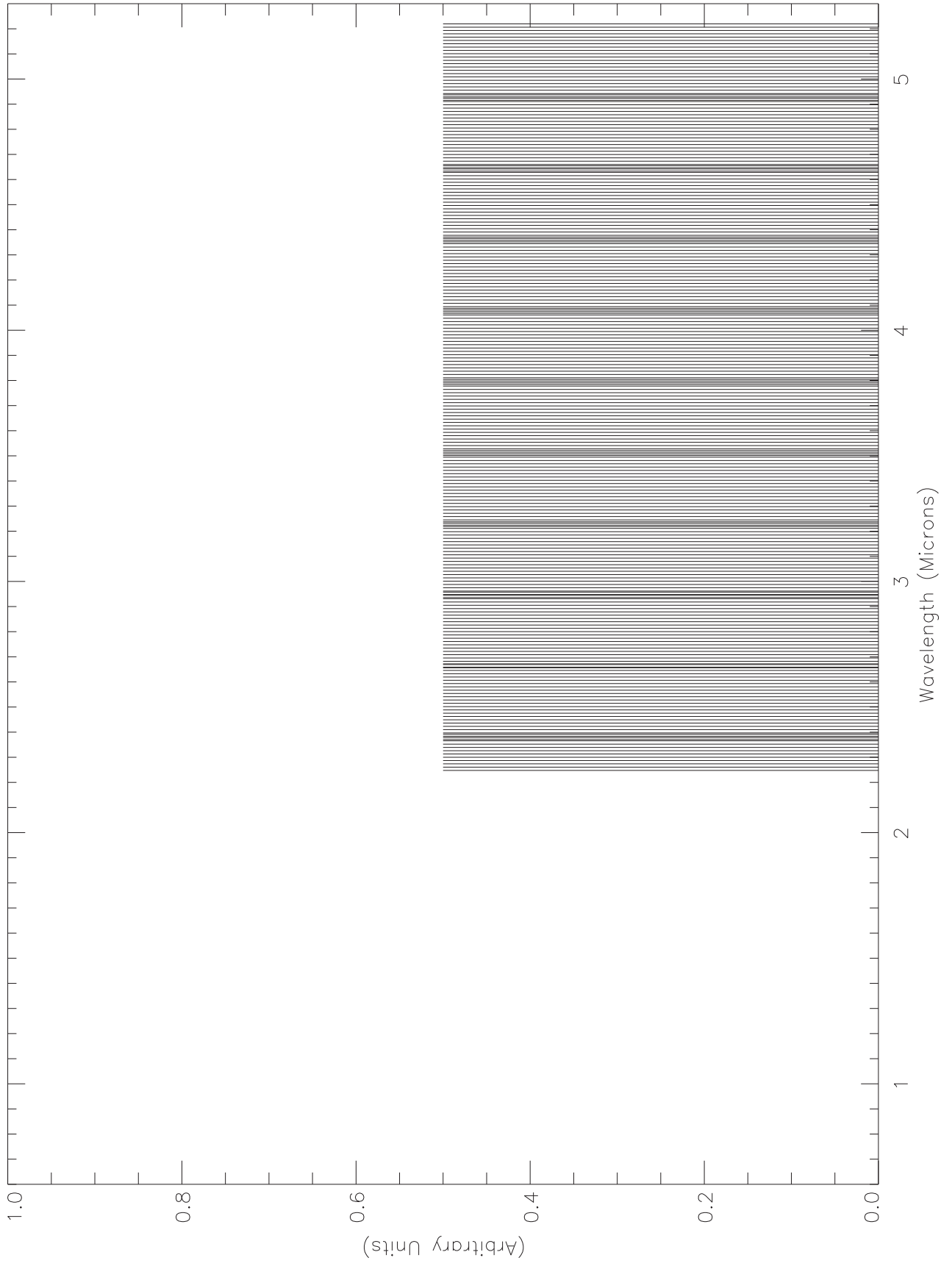
OPCAL48.ETB



PCT252.ETB



RCT252.PBK



Chapter 7 - Data Return

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Introduction to Chapter 7

This chapter is a report on the NIMS data return for the C20 orbit. Due to the low downlink data rates available for Galileo Jupiter Operations and other unforeseen and unpredictable events during the C20 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 fourteen autonomous reloads of the NIMS RAM code from CDS during the C20 encounter, one just before each science observation. No observations were lost due to a NIMS processor halt. 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 successfully survived two CDS Bus Resets using the new CDS Bus Upset Reset Patch (BURP). Each BURP event caused the NIMS software to halt. NIMS was halted for about 28 hours, from just after C20 perijove until the start of the Callisto flyby.

AACS dropped into Cruise mode at the start of the Callisto flyby in response to errors in the gyro rates. All Callisto observations were performed in Cruise mode.

The plots on the pages 3 and 4 show the geometry of the NIMS C20 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' C20 and E17 data returned during C20 cruise.

The text on page 7 gives a 'recap' of the C20 playback events which affected which observations were returned.

A Timeline of C20 playback events is on pages 7 through 12.

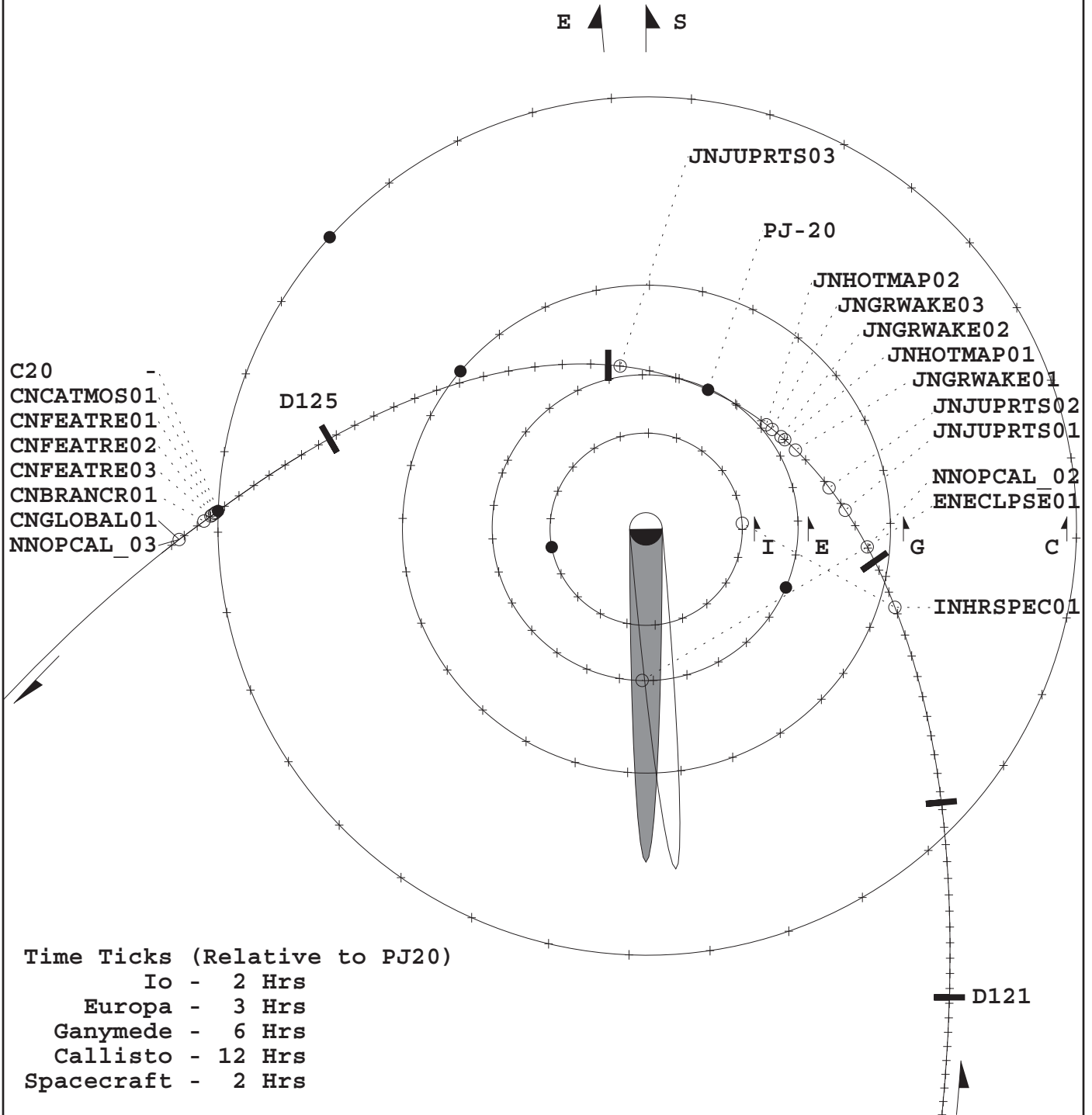
The text on pages 13 and 14 describes the C20 NIMS and Spacecraft Anomalies.

The text on page 15 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 16 and 17.

The text on page 18 is a guide to understanding the NIMS MASK.

NIMS C20 OBSERVATIONS

Bold - Returned
 Gray - Not Returned



Time Ticks (Relative to PJ20)
 Io - 2 Hrs
 Europa - 3 Hrs
 Ganymede - 6 Hrs
 Callisto - 12 Hrs
 Spacecraft - 2 Hrs

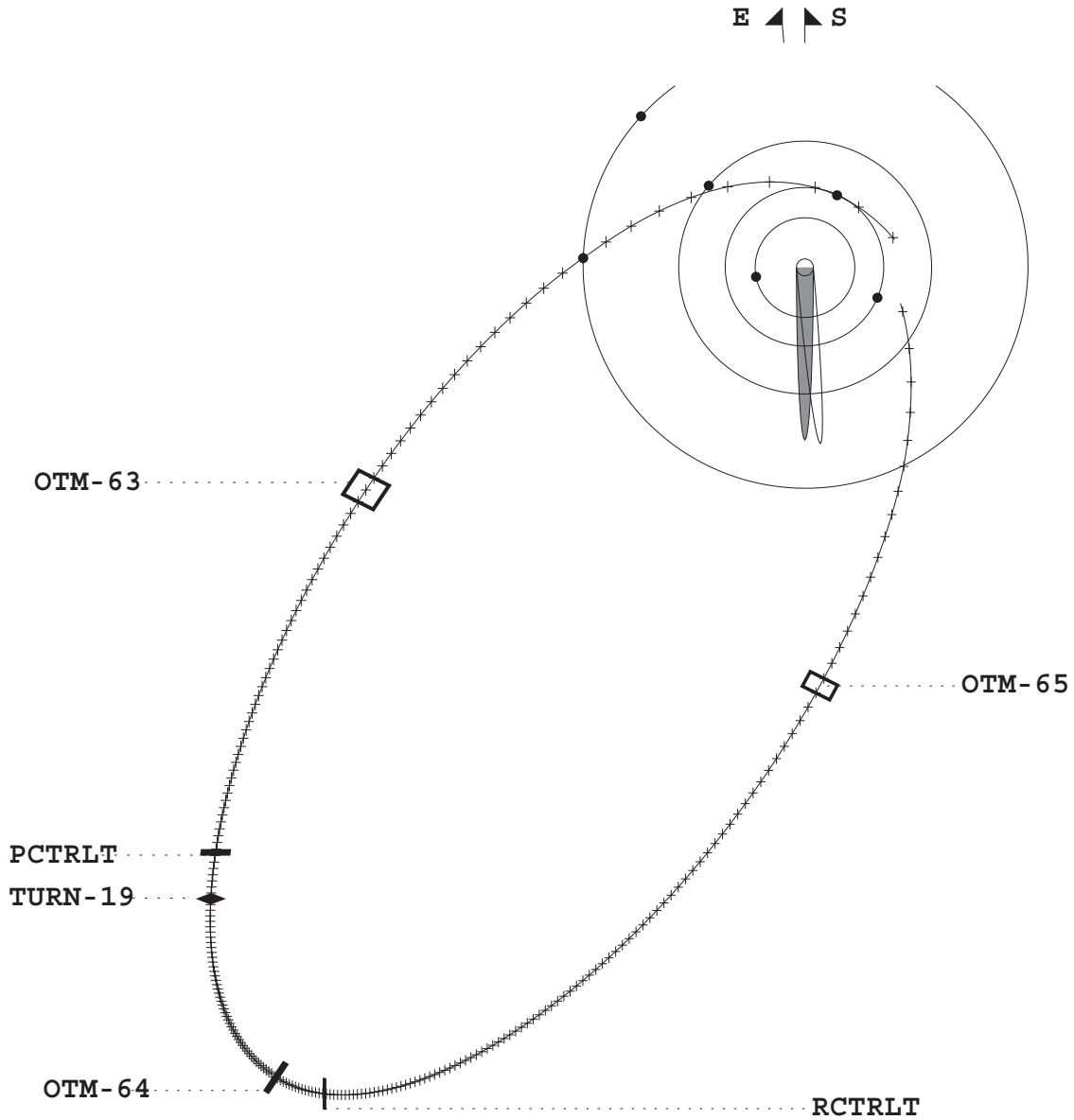
Callisto Flyby (C20): 05-MAY-1999 (D125) 14:07:24 UTC
 Perijove (PJ20): 03-MAY-1999 (D123) 17:12:24 UTC

C20 North Trajectory Pole View

NIMS C20 CRUISE CALIBRATIONS

Callisto Flyby (C20): 05-MAY-1999 (D125) 14:07:24 UTC
Perijove (PJ20): 03-MAY-1999 (D123) 17:12:24 UTC
Apojove (AJ20): 02-JUN-1999 (D153) 16:00:00 UTC

Time Ticks (Relative to C20)
Spacecraft - 6 Hours



C20 North Trajectory Pole View, Perijove to Perijove

NIMS C20 DATA RETURN

Activity ID	Observation Title	NIMS Edit Table	NIMS PB Table	Mode	Gain	Grating	Grating	Offset	Record	PSID
20INHRSEPC01*	Io Monitoring at High Spectral Resolutio	C20IIMDK243D	C20IIMDK228D	LM	4	0	4	4	LPU	
20ENECLPSE01 0	Europa Eclipse Obs(O)	C20PCT252	C20OPCAL48	LM	4	0	4	4	MPW	
20JNJUPRTS01*	Jupiter Realtime Observation	C20JLM442/MB	R/T	LM	2	0	4	4	R/T	
20JNJUPRTS02*	Jupiter Realtime Observation	C20JRT204A/MB	R/T	LM	2	0	4	4	R/T	
20JNHOTMAP01-	NIMS Jupiter HotMap	C20JHT253A	C20JHT100A	LM	4	0	4	4	LPU	
20JNGRWAKE03-	GRWAKE03	C20JSB253C	C20JSB140C	LM	2	0	4	4	LPU	
20JNJUPRTS03*	Jupiter Realtime Observation	C20JLM442/MB	R/T	LM	2	0	4	4	R/T	
20CNCATMOS01-	Callisto Limb Scan	C20CLM247L	C20CLM228L	LM	4	0	4	4	LPU	
20CNFEATRE01-	Callisto Feature	C20CLM442	C20CLM228D 1	LM	4	0	4	4	MPW	
20CNFEATRE02-	Callisto Feature	C20CLM442	C20CLM228D 1	LM	4	0	4	4	MPW	
20CNFEATRE03-	Callisto Feature Observation	C20CLM442	C20CLM228D 1	LM	4	0	4	4	MPW	
20CNBRANCR01-	Bran Crater	C20CLM442	C20CLM228D 1	LM	4	0	4	4	MPW	
20CNGLOBAL01-	Callisto Global Map	C20CLM243D	C20CLM228D 0	LM	4	0	4	4	LPU	
20CNGLOBAL01 0	Callisto Global Map(O)	C20PCT252	C20OPCAL48	LM	4	0	4	4	LPU	
20NNRCTRLT01-	NIMS RCT Real Time Calibration	C20RCT252	R/T	LM	1	0	4	4	R/T	
20NNOPCAL01	NIMS OPAL	C20OPCAL48	R/T	LM	4	0	4	4	R/T	
20NNPCTRLT01-	NIMS Real-Time PCT Calibration	C20PCT252	R/T	LM	4	0	4	4	R/T	
20INHRSEPC01* gf	Io Monitoring at High Spectral Resolutio	C20IIMDK243D	C20IIMDK228D	LM	4	0	4	4	LPU	
20ENECLPSE01*	Europa Eclipse Obs	C20ELM442	C20ELM360	LM	4	0	4	4	MPW	
20JNGRWAKE01-	GRWAKE01	C20JHT253A	C20JHT100A	LM	4	0	4	4	LPU	
20JNHOTMAP01-gf	NIMS Jupiter HotMap	C20JHT253A	C20JHT100A	LM	4	0	4	4	LPU	
20JNGRWAKE02-	GRWAKE02	C20JSB253C	C20JSB140C	LM	2	0	4	4	LPU	
20JNGRWAKE03- gf	GRWAKE03	C20JSB253C	C20JSB140C	LM	2	0	4	4	LPU	
20JNHOTMAP02-	NIMS Jupiter HotMap	C20JSB253C	C20JSB140C	LM	2	0	4	4	LPU	
20CNCATMOS01-gf	Callisto Limb Scan	C20CLM247L	C20CLM228L	LM	4	0	4	4	LPU	
20CNFEATRE01-	Callisto Feature	C20CLM442	C20CLM132D	LM	4	0	4	4	MPW	
20CNFEATRE01-	Callisto Feature	C20CLM442	C20CLM360	LM	4	0	4	4	MPW	
20CNFEATRE02-	Callisto Feature	C20CLM442	C20CLM228D 1	LM	4	0	4	4	MPW	
20CNFEATRE03-	Callisto Feature Observation	C20CLM442	C20CLM228D 1	LM	4	0	4	4	MPW	
20CNBRANCR01-gf	Bran Crater	C20CLM442	C20CLM228D 1	LM	4	0	4	4	MPW	
20CNGLOBAL01-gf	Callisto Global Map	C20CLM243D	C20CLM228D 0	LM	4	0	4	4	LPU	
20CNGLOBAL01-	Callisto Global Map	C20CLM243D	C20CLM228D 0	LM	4	0	4	4	LPU	
gf = gap fill										

RECAP OF C20 PLAYBACK EVENTS

C20 was highly successful, both in terms of the quality of the data returned (for Callisto, and for Jupiter), and for the successful adaptations to circumstances accomplished by the Galileo flight team. C20 was the first of the "perijove reduction campaign" orbits of GEM, and downlink bits were relatively scarce. Nonetheless, thanks to good compression, a very nice set of Callisto observations was obtained.

Although Galileo twice experienced "bus reset" faults during the encounter, similar to the one which safed the spacecraft in E16, in both cases a new software patch enabled an immediate recovery. The second of these corresponded in time to a NIMS software crash, which likewise led to no adverse consequences because of a following standard software reload. Late in the encounter Galileo was commanded to inertial mode, in order for NIMS to obtain the best possible Callisto data. However, shortly thereafter the spacecraft dropped back into cruise mode, due to gyro problems, and stayed there for the Callisto encounter.

The following timeline details the most significant events of the C20 playback period. Most of the text below is excerpted from messages issued at the time.

C20 Playback Events Timeline (03-10-99: to 06-28-99:)

03-10-99: This is a summary of our actions taken to bring C20 playback into line with our allocation. As you know the allocation is only about 20 Mbits and we are recording much more data than that. Based on Bob Carlson's priority list we gave lowest priority to the Jupiter HOTMAP observations. Spatial coverage for these was cut in half (lower scan of two, in each case, centered over latitude 5 North). The cuts in wavelength coverage from Kevin Baines were implemented and we increased the dayside compression estimates to conform with E19 experience. The JNGRWAKE observations are retained with full spatial coverage and with wavelengths as specified by Kevin Baines. Only the third (dayside) will come down in pass 1 so that we can identify the locations of key features, and possibly trim spatial coverage for the two remaining in pass 2. By projecting less conservative compression estimates for Callisto we were able to increase spatial coverage for all of the observations. Only CNFEATRE02 is not fully selected. 20ENCLIPSE01 has two full scans over the target and so the first scan was deleted. 20INHRSPEC01 is only 3 Rims in duration and was retained unchanged (228 wavelengths). "Stealth" OPCALS are to be appended to 20ENCLIPSE01 and to 20CNGLOBAL01. We estimated that these would have 1 Rim of recording, using a 252 band table, and would return 48 wavelengths in playback.

C20 Playback Events Timeline (03-10-99: to 06-28-99:)

The Callisto limb scan with highest priority will be returned in full with 228 wavelengths using the table created for the E19 Ganymede aurora observations.

The above changes bring us into line with allocation and will permit the playback coordinators to model playback events with some confidence.

- 03-19-99: NIMS playback allocation is 21.972 Megabits.
- 04-21-99: (K. Schimmels) C20 Allocations have been reduced due to station losses - total capability loss was 5.65 MB between the last cruise product (C20BFA) and the upcoming (C20BFE) product. We were holding an additional 3.5 MB to cover these anticipated losses, so 2.15 MB will need to be reduced from your allocations. The new allocations are below.
NIMS 21.758
- 04-22-99: The C20 encounter begins on 2 May. The final pre-uplink playback table delivery happened today. The 20CNCATMOS01 (limb scan) observation was moved from the second tape pass to the first to permit gap filling. Otherwise there were only minor changes (to data reduction factors).
A software patch to prevent spacecraft safing due to despun bus resets will be employed this time to help avoid the safing condition that impacted us in E16. We hope for the best since our Callisto observations come on the outbound portion of the encounter. In the current plan we will return nearly all of our spatial coverage for all targets (we will get only 50% for the two Jupiter HOTMAP observations). We will leave behind a substantial number of wavelengths for many observations, however. Our total bits allocation is only 21.4 Mb for this orbit.
Calibration fans will be happy to know that two OPCALs are included, at the start and end of the encounter period. These are tacked on to the ends of other NIMS recorded observations.
- 05-02-99: C20 encounter begins at 17:00 UTC.
- 05-03-99: Perijove occurs at 17:12:24. Between 17:57 and 18:51, a despun bus reset occurs. CDS software handles this as planned and the encounter continues.
- 05-04-99: A second bus reset occurs at about 00:08:05 UTC. CDS handles this one as well.
- 05-05-99: (M. Segura) Here is an update on the spacecraft activities for C20. The CDS "Burp" patch designed to protect us from Bus RESET safing occurrences executed twice in the early part of C20 Encounter. Once at 123/17:57ish (SCET) and again at 124/00:08. As a result - the spacecraft reverted to Cruise mode from inertial.

C20 Playback Events Timeline (03-10-99: to 06-28-99:)

There was a decision made yesterday afternoon to attempt to return the spacecraft to inertial mode for Callisto observing to provide NIMS with the best data possible. AACS supported this based on knowledge at hand. The commands were sent to the spacecraft last evening. At the first SSI slew of Callisto C/A, the spacecraft dropped into cruise mode again. So.... all our observations will be executed in cruise mode. As a result of our attempt, SSI has probably lost their highest resolution observation at worst and mispointed at best.

Bob Mehlman reported one inconsequential reset at rim 4979800. While it didn't impact our data (we do have a reload prior our first Callisto observation), it does have great significance. That was at the exact time that the second Burp patch executed to protect us from safing. We were to expect up to a 5 minor frame loss of CDS timing pulses whenever the patch executed. There were two possible scenarios for NIMS - that we would have a momentary lapse in data or that the software would crash. We now know what will happen.

This knowledge will be factored into our sequence development. Now we not only have radiation to contend with for reloads but this as well.

05-07-99: (J. Erickson) The gyros did not behave well this encounter, so we have spent most of the time in cruise mode. We had a gyro high rate trip early in the sequence which hasd only minimal impact. After we returned to inertial mode for the beginning of the Callisto observations, we tripped out of inertial again (at 99-125/14:08 SCET). This was due to a Y-axis mismatch. The spacecraft has fully redundant gyro capability in the Y axis, and the Attitude Control System has fault protection checks that both of the Y axis gyros are reporting consistent values. Subsequent gyro tests have indicated that the -1 Y gyro axis error increased during the perijove pass to almost 10%. This would almost guarantee a fault trip. The gyro test has also shown that the -1 X gyro axis has now increased to a 60% mismatch.

05-26-99: The first Callisto data will be coming down about June 6 or so. We have several large observations and a relatively tight budget for downlink bits. Four changes to the playback table were made this week to enable us to adapt to possible undercompression of the Callisto data. Marcia Segura gave highest priority to 20CNGLOBAL01 which sees new territory and completes our global mapping. One of 3 scans will be returned in pass 1, giving us an accurate value for compression. Second priority is the Bran crater observation. This was moved from pass 2 to pass 1 to enable later filling of any gaps.

C20 Playback Events Timeline (03-10-99: to 06-28-99:)

The three 20CNFEATRE0n observations were planned for playback in pass 1. All of these are now split between the two tape passes. If compression is lower than expected, or if one observation turns out to be very interesting, we will be able to shift our bits around to adapt to conditions in pass 2. There are large gaps in 20INHRSPEC01 and 20JNGRWAKE03. Next week we will need to enter our gap-fill commands for these, possibly (temporarily) stealing bits from pass 2 Callisto observations to get this done.

- 06-02-99: The second pass over the C20 recorded observations begins next week. The current update represents the last chance to fill gaps in our Io and Jupiter observations. We have not received any Callisto data so far, and the compression values for those observations are unknown at the moment. For this update we made no changes to the Callisto plan, other than moving one playback command earlier by 3 seconds. Six new sets of commands were added to the table this week to fill gaps in the observations that have reached the ground. Since we have not received any additional downlink bits, the addition of the new commands required some trimming of other observations. Kevin Baines spent some time reviewing the Jupiter observations and came up with the following strategy:
1. Bit savings were accomplished by trimming spatial coverage of 20JNGRWAKE01 (dark side, longitudes ≥ 270), and 20JNGRWAKE02 (easternmost scans that do not overlap with 20JNGRWAKE03).
 2. Large gaps in 20JNGRWAKE03 will all be filled, and the most significant 70% of 20JNGRWAKE02 will come down. No changes to the coverage of the two HOTMAPs were implemented. One gap in 20JNHOTMAP01 will be filled. In addition we are filling the significant gap in 20INHRSPEC01.
- 06-07-99: (K. Schimmels) There will be bits released this week based on lower inefficiencies than expected. 2.6 MB of unused inefficiency margin will be released by relative OPG percentage to those teams that still have playback left to affect in Segments 13 on. If this includes anyone other than SSI and NIMS, please let me know before Wednesday.
- 06-09-99: (K. Schimmels) Unused bits (inefficiency 2.6 MB and PPR 0.325 MB) release for C20 is as follows:
- | | |
|--------|----------|
| SSI: | 1.886 MB |
| NIMS: | 1.038 MB |
| Total: | 2.924 MB |
- 06-10-99: MWG has decided to release their 3.0 MB by OPG percentage to SSI and NIMS, as well as help UVS out. UVS has been undercompressing and needs 0.3 MB to solve their overage and fill 2 small gaps. The remainder (2.7 MB) will be split between SSI and NIMS as follows:
- | |
|-----------|
| 1.74 SSI |
| 0.96 NIMS |

C20 Playback Events Timeline (03-10-99: to 06-28-99:)

- 06-10-99: Playback is currently running about half a day behind schedule, apparently due to SSI undercompression. NIMS Callisto data is compressing slightly better than predicted, yielding bit savings of approximately 0.6 Mbits to this point. We should start the second pass over the tape tonight if all goes as planned. We received 1 Mb from office margin this week. There may or may not be an additional release for the final update cycle next week. Also this week, the MWG found that they had some 3.3 Mbits of downlink allocation that they could not use. Of this, we received nearly 1 Mbit. SSI and UVS also received needed bits. Two changes to the table were made this week. We are requesting gap fill for 20CNCATMOS01; there was a 2-Rim gap in our pass 1 playback. This requires 0.4 Mbits. In addition, we are extending the playback time for our pass 2 20CNGLOBAL01 to return an additional 4.3 Rims of recorded data. A portion of this consists of off-limb scans that will be very valuable for determining detector dark values for this orbit. This requires about .7 Mbits using our assumed compression of 2.0 for this observation. We have 1.5 Mbits available for use in the final update cycle next week. The only place we can apply the bits are to the pass 2 Callisto observations. If there are major gaps to be filled, we will use the bits for that purpose. If we have a significant quantity of bits left, we could use them to increase wavelength coverage of one or possibly more of the high-resolution Callisto observations (20CNBRANC01, 20CNFEATRE01-03).
- 06-15-99: (K. Schimmels) The cost of the BURP early enable / early TPB is 1.35 MB, of which we have retained 2.0 MB to protect. Therefore, we have 0.65 MB remaining to release from this, and an additional .24 MB of MWG unused bits. Therefore, the btg released this week for C20 is as follows:
- | | |
|--------|------|
| SSI: | 0.22 |
| NIMS: | 0.66 |
| Total: | 0.88 |
- This was done by relative percentage of playback remaining in the affectable segments (15 and 16), as per discussion in today's SPOT meeting.
- 06-14-99: (R. Mehlman) 1. There was an error in the playback request for 20NNOPCAL_03 (the last pass 1 request for 20CNGLOBAL01). The request is for two RIMs, but should only have been for one RIM, the second one. The first RIM contains GLOBAL01 data, probably off-limb, but it was played back with an OPCAL WET table. The result would contain only 24 wavelengths of the 228 recorded for GLOBAL01. I have set the SCLK for those (five) packets to zero, so MIPS will not process them. If you want that RIM of data, you can ask for it in the 2nd pass.

C20 Playback Events Timeline (03-10-99: to 06-28-99:)

- 06-16-99: Playback of C20 data will end on about 28 June. Today's update is the final opportunity to modify the playback table. C20 is developing nicely for Callisto aficionados. Compression performance is good with all of the high-resolution observations at about 2.0 or better. 100% of spatial coverage of all observations is planned for return, with the uncertainty centering on the possibility of gaps in data yet to be received as a result of DSN problems. Today's update includes 5 new sets of playback commands to fill gaps in the pass 1 playback of 20CNBRANCR01, along with an additional set to fill a long gap at the start of 20CNGLOBAL01. Thanks to an earlier release of margin bits and a windfall from MWG we were also able to significantly improve on 20CNFEATRE01. This is the highest resolution observation. We will be returning an additional 132 bands for the upper scan, which came down in pass 1, and in addition have commanded all 360 bands of the second scan. The finished product will therefore have full (LM) wavelength resolution for the complete observation. 20CNGLOBAL01 has high priority since it fills significant gaps in our longitudinal coverage. It is the last thing to be played back, and may be at some risk if SSI undercompresses on an observation or two. At present we have a small margin (0.37 Mbits) of our own allocation remaining to protect it.
- 06-28-99: Playback terminates at 06:24:59.933 UTC.

NIMS Anomaly Report - C20 Sequence

There were two NIMS processor halts detected during the C20 Encounter. Detectors 3 and 8 are still not functioning and are expected to be lost for the rest of the mission.

The spacecraft survived two CDS bus resets. The new CDS bus reset patch (BURP) executed properly so that the spacecraft did not safe itself. AACS went into Cruise mode just before the C20 Callisto flyby. All Callisto observations were performed in Cruise mode.

Unfortunately, each BURP event caused the NIMS software to halt. A secondary effect of the BURP is that AACS went into Cruise mode after each BURP recovery. But, at least the sequence was not completely lost due to spacecraft safing.

Testing to better understand the ongoing changes to the NIMS grating mechanism started in C20.

Processor Halts

Facts:

0. There were two NIMS processor halts in C20. The NIMS flight software was successfully reloaded after each halt.

1. A NIMS processor halt was detected at SCLK 04979800 from the analysis of the NIMS SCLK engineering telemetry channels S-1931 and S-1932. This occurred about 5 hours after perijove, very close in time to the second CDS BURP recovery. In ground testing, it was determined that NIMS would lose RTI synch with CDS for about 5mf during the BURP, which causes the NIMS software to halt. NIMS remained halted for about 28 hours until the next NIMS software reload just before the Callisto flyby.

2. The first BURP event occurred 6 hours earlier. According to ground testing, NIMS should have halted at that time also. There were no NIMS SCLKs reported at the time, but the NIMS hardware status engineering channel, S-1929, went to zero near the time of the first BURP. From this it was inferred that NIMS had halted.

Timing:

SCLK	Comments
04979390.00	PJ-20 Jupiter Closest Approach
04979433.00	First CDS BURP
04979527.04	NIMS Hardware Status Zeroed.
04979731.16	NIMS Software Reload
04979800.00	Second CDS BURP
04980133.58	BAD SCLK reported: 04979800
04982069.16	NIMS Software Reload

NIMS Anomaly Report - C20 Sequence

Spacecraft Anomaly

AACS dropped into Cruise mode at the start of the C20 Callisto flyby. This was apparently in response to errors in the gyro rates.

Grating Anomaly

The NIMS grating mechanism developed a new degree of freedom sometime after the C3 encounter. The grating step size is no longer a fixed parameter anymore but is changing, mostly increasing, in size over time. This new grating 'parameter' has been dubbed Inflation. Now there are two grating parameters, pshift and inflation. Pshift, which gives the correction to the grating start position, is also changing with time. The grating parameters are determined using Opcals (Optics Calibration) and also by fitting spectral features in the NIMS data, such as SO₂ absorption bands in the Io data.

The cause of this change in the grating mechanism is not well understood. Radiation damage to electronic components is the best candidate. The two grating parameters could be changing continuously or in a step-wise manner, most likely near perijove where radiation is highest. To test these models, two Opcals were inserted into the encounter sequence, one inbound and one outbound. These encounter Opcals were compared to Opcals taken at E19 perijove and C20 perijove. The result favors a model which has the grating parameters changing in a step-wise manner at or near perijove.

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.

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.