Chapter 4 - NIMS Observation Summaries

Contents

Introduction to Chapter 4

This chapter summarizes the NIMS I33 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 I33 Sequence. The information in this summary is derived from the I33 SEFs (Spacecraft Event File) and PBTs (Playback Tables) with inputs from the NIMS Science Coordinators regarding the start time and duration of the NIMS observations. There are twelve columns of information in this table:

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

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

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

The NIMS Obstab (Observation Table) is a time-ordered listing of the NIMS obsrvation parameters for use by downlink data processing of the NIMS I33 data. It is also derived from the I33 SEFs and PBTs. Each Obstab entry is 512 bytes long but is presented here as 4 lines of 128 characters per entry.

Sequence: I33AFE + I33ATB Created: 03/12/02 Begin: 02-051/02:00:00 Finish: 02-021/13:00:00

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
1	2	15	01:59:59.866		DMS:	: READY	RDY, TRACK 1, FWD, TIC 202.12 +/-	1O0	4	0	6,385,573:76:0
2	**2**	**15**	**02:00:00.000**	**20A3FA**	**37F1PR**	**Initial Condition**	**Radiator Flash Heater OFF (primary relay)**	**1O0**	**4**	**0**	**6,385,573:76:2**
3	**2**	**15**	**02:00:00.000**	**20A3EW**	**37A**	**Initial Condition**	**NIMS Power ON**	**1O0**	**4**	**0**	**6,385,573:76:2**
4	**2**	**15**	**02:00:00.000**	**20A3EX**	**37HR**	**Initial Condition**	**Replacement Heaters OFF**	**1O0**	**4**	**0**	**6,385,573:76:2**
5	**2**	**15**	**02:00:00.000**	**20A3EY**	**37C1PR**	**Initial Condition**	**Optics Heater 1 OFF (primary relay)**	**1O0**	**4**	**0**	**6,385,573:76:2**
6	**2**	**15**	**02:00:00.000**	**20A3EZ**	**37C2PR**	**Initial Condition**	**Optics Heater 2 OFF (primary relay)**	**1O0**	**4**	**0**	**6,385,573:76:2**
7	**2**	**15**	**02:00:00.000**	**20A3FB**	**37F2PR**	**Initial Condition**	**Shield Flash Heater OFF (primary relay)**	**1O0**	**4**	**0**	**6,385,573:76:2**
8	**2**	**15**	**02:00:00.000**	**20A3FD**	**40HRPR**	**Initial Condition**	**RCT Heater OFF (primary relay)**	**1O0**	**4**	**0**	**6,385,573:76:2**
9	**2**	**15**	**02:00:00.000**	**20A3FE**	**40T1PR**	**Initial Condition**	**PCT Heater 1 OFF (primary relay)**	**1O0**	**4**	**0**	**6,385,573:76:2**
10	**2**	**15**	**02:00:00.000**	**20A3FF**	**40T2R**	**Initial Condition**	**PCT Heater 2 OFF**	**1O0**	**4**	**0**	**6,385,573:76:2**
11	2	15	02:01:56.533	488AA6A	6TMSED	NORM,EL6	Sci, Eng, and D/L Chan	1O0	4	0	6,385,575:69:0
12	2	15	02:03:11.200	432JB431A6A	6RCDSL	DDSDSL,PLSDSL,EP	Record Deselect (DDS o	1O0	4	0	6,385,576:90:0
13	2	15	02:03:11.866	432JB6A	6RTSL1		R/T Select of DDS and	1O0	4	0	6,385,577:00:0
14	**2**	**15**	**02:03:11.866**	**432JB6B**	**6RTSL2**	**NIMNCG,AACSEL,RT**	**AACS SELECT**	**1O0**	**4**	**0**	**6,385,577:00:0**
15	2	15	02:05:17.200	20OB6A	6HICON			1O0	4	0	6,385,579:06:0
16	2	15	02:59:59.866	488AA6D	6TMSED	NORM,EH6	Sci, Eng, and D/L Chan	1O0	4	0	6,385,633:16:0
17	2	15	03:11:05.866	432OT431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	1O0	4	0	6,385,644:14:0
18	2	15	03:11:06.533	432OT6A	6RTSL1		R/T Select of DDS and	1O0	4	0	6,385,644:15:0
19	2	15	03:45:58.533	488AA6E	6TMSED	FILL,EH6	Sci, Eng, and D/L Chan	1O0	4	0	6,385,678:59:0
20	2	15	04:17:48.533	488AB6A	6TMSED	NORM,EH6	Sci, Eng, and D/L Chan	1O0	4	0	6,385,710:12:0
21	2	15	08:43:00.533	488AB6B	6TMSED	NORM,EH5	Sci, Eng, and D/L Chan	1O0	4	0	6,385,972:38:0
22	2	15	09:59:36.533	488AB6C	6TMSED	FILL,EH5	Sci, Eng, and D/L Chan	1O0	4	0	6,386,048:16:0
23	2	15	10:31:48.533	488AC6A	6TMSED	FILL,EH6	Sci, Eng, and D/L Chan	1O0	4	0	6,386,080:02:0
24	2	15	10:37:03.866	488AC6B	6TMSED	NORM,EH6	Sci, Eng, and D/L Chan	1O0	4	0	6,386,085:20:0
25	2	15	14:37:08.533	488AC6C	6TMSED	NORM,EH5	Sci, Eng, and D/L Chan	1O0	4	0	6,386,322:60:0
26	2	15	16:02:28.533	488AC6D	6TMSED	NORM,EH4	Sci, Eng, and D/L Chan	1O0	4	0	6,386,407:05:0
27	2	15	16:25:56.533	488AC6E	6TMSED	NORM,EH5	Sci, Eng, and D/L Chan	1O0	4	0	6,386,430:24:0
28	2	15	17:14:37.200	488AD6A	6TMSED	FILL,EH5	Sci, Eng, and D/L Chan	1O0	4	0	6,386,478:37:0
29	2	15	17:48:43.800	488AD6B	6TMSED	NORM,EH5	Sci, Eng, and D/L Chan	1O0	4	0	6,386,512:13:0
30	2	15	17:55:32.466	488AD6C	6TMSED	NORM,EH6	Sci, Eng, and D/L Chan	1O0	4	0	6,386,518:80:0
31	2	16	03:46:01.800	488AE6A	6TMSED	FILL,EH6	Sci, Eng, and D/L Chan	1O0	4	0	6,387,102:80:0
32	2	16	04:22:51.133	488AE6B	6TMSED	NORM,EH6	Sci, Eng, and D/L Chan	1O0	4	0	6,387,139:27:0
33	2	16	09:35:00.466	480SB6A	6MROH	44,23E8,0,A10	read from LLM2A44,23E8,0,A1	1O0	4	0	6,387,448:02:0
34	2	16	09:36:20.466	480SB6B	6MROH	45,23E8,0,B10	read from LLM2B45,23E8,0,B1	1O0	4	0	6,387,449:31:0
35	2	16	10:04:04.466	488AF6A	6TMSED	NORM,EH5	Sci, Eng, and D/L Chan	1O0	4	0	6,387,476:70:0
36	2	16	11:24:39.800	488AF6B	6TMSED	FILL,EH5	Sci, Eng, and D/L Chan	1O0	4	0	6,387,556:43:0
37	2	16	11:57:08.466	488AF6C	6TMSED	FILL,EH6	Sci, Eng, and D/L Chan	1O0	4	0	6,387,588:54:0
38	2	16	12:02:11.133	488AF6D	6TMSED	NORM,EH6	Sci, Eng, and D/L Chan	1O0	4	0	6,387,593:53:0
39	2	16	12:19:59.800	20TO4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	1O0	4	0	6,387,611:18:0
40	2	16	12:20:49.800	20TO4B	7SLEW	DIS,POS,0.0	Stator movement	1O0	4	0	6,387,612:02:0
41	2	16	12:20:55.800	20TO4E	7STAR	1,1235,23.9660,-	Star catalog update	1O0	4	0	6,387,612:11:0
42	2	16	12:20:57.800	20TO4F	7STAR	2,9000,2.664,14.	Star catalog update	1O0	4	0	6,387,612:14:0
43	2	16	12:20:59.800	20TO4G	7STAR	3,1235,23.9660,-	Star catalog update	1O0	4	0	6,387,612:17:0
44	2	16	12:21:01.800	20TO4H	7STAR	4,9000,2.664,14.	Star catalog update	1O0	4	0	6,387,612:20:0
45	2	16	12:21:03.800	20TO4I	7STAR	5,1235,23.9660,-	Star catalog update	1O0	4	0	6,387,612:23:0
46	2	16	12:21:05.800	20TO4J	7STAR	6,9000,2.664,14.	Star catalog update	1O0	4	0	6,387,612:26:0
47	2	16	12:25:02.466	432OE431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	1O0	4	0	6,387,616:17:0
48	2	16	12:25:03.133	432OE6A	6RTSL1		R/T Select of DDS and	1O0	4	0	6,387,616:18:0
49	2	16	12:37:40.466	488AF6E	6TMSED	NORM,EH5	Sci, Eng, and D/L Chan	1O0	4	0	6,387,628:62:0
50	2	16	12:49:59.800	488AG6A	6TMSED	NORM,EL5	Sci, Eng, and D/L Chan	1O0	4	0	6,387,640:79:0
51	2	16	12:58:27.133	488AG6B	6TMSED	FILL,EL5	Sci, Eng, and D/L Chan	1O0	4	0	6,387,649:21:0
52	2	16	13:03:16.466	488AG6C	6TMSED	FILL,EL2	Sci, Eng, and D/L Chan	1O0	4	0	6,387,654:00:0
53	2	16	13:59:59.800	488AG6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	1O0	4	0	6,387,710:09:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
54	2	16	14:44:00.466	480SC6A	6MROH	44,23E8,0,A2	read from LLM2A44,23E8,0,A2	1O0	4	0	6,387,753:57:0
55	2	16	14:50:40.466	480SC6B	6MROH	45,23E8,0,B2	read from LLM2B45,23E8,0,B2	1O0	4	0	6,387,760:20:0
56	2	16	15:55:27.800	488AG6E	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	6,387,824:27:0
57	2	16	16:00:20.466	488AH6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	6,387,829:11:0
58	2	16	16:40:52.466	488AH6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,387,869:19:0
59	2	16	16:57:43.133		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 202.12 +/-	1O0	4	0	6,387,885:79:0
60	2	16	16:57:43.133	465KA6A	6DMSC	P7,1	DMS Control Tape P/B 7.68kbps	1O0	4	0	6,387,885:79:0
61	2	16	16:57:49.800		DMS:	: *RUNUP	P7, TRACK 1, FWD, TIC 202.12 +/-	1O0	4	0	6,387,885:89:0
62	2	16	16:57:51.200		DMS:	: *P_SLEW	P7, TRACK 1, FWD, TIC * 202.24 +/-	1O0	4	0	6,387,886:00:1
63	2	16	16:57:51.200		DMS:	: *AT_SPD	P7, TRACK 1, FWD, TIC 202.24 +/-	1O0	4	0	6,387,886:00:1
64	2	16	17:14:40.466	488AH6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,387,902:58:0
65	2	16	17:43:46.466	488AH6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,387,931:38:0
66	2	16	18:07:59.800	488AH6E	6TMSED	NORM,EL5	Sci, Eng, and D/L Chan	1O0	4	0	6,387,955:34:0
67	2	16	19:48:59.800	480SD6A	6MROH	44,23E8,0,A2	read from LLM2A44,23E8,0,A2	1O0	4	0	6,388,055:24:0
68	2	16	19:55:39.800	480SD6B	6MROH	45,23E8,0,B2	read from LLM2B45,23E8,0,B2	1O0	4	0	6,388,061:78:0
69	2	16	20:02:59.800	488AI6A	6TMSED	NORM,EH5	Sci, Eng, and D/L Chan	1O0	4	0	6,388,069:10:0
70	2	16	20:52:31.133	465KA6B	6DMSC	RDY,1	DMS Control Tape stop	1O0	4	0	6,388,118:08:0
71	2	16	20:52:31.133		DMS:	**: *RUNDOWN**	P7, TRACK 1, FWD, TIC *3502.23 +/-	1O0	4	0	6,388,118:08:0
72	2	16	20:52:32.333		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *3502.29 +/-	1O0	4	0	6,388,118:09:8
73	2	16	21:02:32.466	465KB6A	6DMST	2262	DMS Slew to TIC	1O0	4	0	6,388,128:00:0
74	2	16	21:02:32.466		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 3502.29 +/-	1O0	4	0	6,388,128:00:0
75	2	16	21:02:32.466		DMS:	: *SLEW-TIC	P7, TRACK *2, *REV, TIC 3502.29 +/-	1O0	4	0	6,388,128:00:0
76	2	16	21:02:33.866		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *3502.41 +/-	1O0	4	0	6,388,128:02:1
77	2	16	21:02:39.133		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *3503.64 +/-	1O0	4	0	6,388,128:10:0
78	2	16	21:02:40.333		DMS:	: *RUNUP	P7, TRACK *2, *REV, TIC *3503.70 +/-	1O0	4	0	6,388,128:11:8
79	2	16	21:02:41.733		DMS:	: *AT_SPD	P7, TRACK 2, REV, TIC *3503.58 +/-	1O0	4	0	6,388,128:13:9
80	2	16	22:30:49.266		DMS:	**: *RUNDOWN**	P7, TRACK 2, REV, TIC *2264.06 +/-	1O0	4	0	6,388,215:28:2
81	2	16	22:30:50.466		DMS:	: *READY	RDY, TRACK 2, REV, TIC *2264.00 +/-	1O0	4	0	6,388,215:30:0
82	2	16	22:51:44.466	465KC6A	6DMSC	RDY,1	DMS Control Tape stop	1O0	4	0	6,388,236:00:0
83	2	16	22:51:44.466		DMS:	: READY	RDY, TRACK *1, *FWD, TIC 2264.00 +/-	1O0	4	0	6,388,236:00:0
84	2	16	22:51:44.466	192GA4A	**7CONE**	**9.0,0.0**	Check S/P Position	1O0	4	0	6,388,236:00:0
85	2	16	22:58:49.133	176GA6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	1O0	4	0	6,388,243:00:0
86	2	16	23:01:03.800	176GA6B	6TMREC	**NRC**	NO RECORD Record Mode Change	1O0	4	0	6,388,245:20:0
87	2	16	23:01:05.800		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 2264.00 +/-	1O0	4	0	6,388,245:23:0
88	2	16	23:01:05.800	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	1O0	4	0	6,388,245:23:0
89	2	16	23:01:12.466		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 2264.00 +/-	1O0	4	0	6,388,245:33:0
90	2	16	23:01:13.866		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC *2264.12 +/-	1O0	4	0	6,388,245:35:1
91	2	16	23:01:15.800		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *2264.57 +/-	1O0	4	0	6,388,245:38:0
92	2	16	23:01:27.133		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *2267.23 +/-	1O0	4	0	6,388,245:55:0
93	2	16	23:01:27.133	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	1O0	4	0	6,388,245:55:0
94	2	16	23:01:28.333		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *2267.29 +/-	1O0	4	0	6,388,245:56:8
95	2	16	23:03:52.466	192GA4B	**7CONE**	**9.0,90.0**	Check S/P Position	1O0	4	0	6,388,248:00:0
96	2	16	23:19:01.800	165GB4A	7SCAN	NORM,248.529999,	Check S/P Position	1O0	4	0	6,388,262:90:0
97	2	16	23:22:04.466	176GB6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	1O0	4	0	6,388,266:00:0
98	2	16	23:22:55.800	117GB	**CSMOS**	GS	***** GROUP START CSMOS	1O0	4	0	6,388,266:77:0
99	2	16	23:23:05.133	117GB105A106A4A	7STRP	0.0056,-0.0006,0	Slew =,0.11	1O0	4	0	6,388,267:00:0
100	2	16	23:24:02.466	117GB105A106A4B	7STRP	-0.0063,0.0017,0	Slew =12.01	1O0	4	0	6,388,267:86:0
101	2	16	23:24:15.800	117GB105A106A4C	7STRP	0.0056,-0.0006,0	Slew =,0.11	1O0	4	0	6,388,268:15:0
102	2	16	23:25:13.133	117GB105A106A4D	7STRP	-0.0063,0.0017,0	Slew =12.01	1O0	4	0	6,388,269:10:0
103	2	16	23:25:26.466	117GB105A106A4E	7STRP	0.0056,-0.0006,0	Slew =,0.11	1O0	4	0	6,388,269:30:0
104	2	16	23:26:23.800	117GB105A106A4F	7STRP	-0.0063,0.0017,0	Slew =12.01	1O0	4	0	6,388,270:25:0
105	2	16	23:26:37.133	117GB105A106A4G	7STRP	0.0056,-0.0006,0	Slew =,0.11	1O0	4	0	6,388,270:45:0
106	2	16	23:27:34.466	117GB105A106A4H	7STRP	-0.0063,0.0017,0	Slew =12.01	1O0	4	0	6,388,271:40:0
107	2	16	23:27:47.800	117GB105A106A4I	7STRP	0.0056,-0.0006,0	Slew =,0.11	1O0	4	0	6,388,271:60:0
108	2	16	23:28:45.133	117GB105A106A4J	7STRP	-0.0063,0.0017,0	Slew =12.01	1O0	4	0	6,388,272:55:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
109	2	16	23:28:58.466	117GB105A106A4K	7STRP	0.0056,-0.0006,0	Slew =,0.11	1O0	4	0	6,388,272:75:0
110	2	16	23:29:55.800	117GB105A106A4L	7STRP	-0.0063,0.0017,0	Slew =12.01	1O0	4	0	6,388,273:70:0
111	2	16	23:30:09.133	117GB105A106A4M	7STRP	0.0056,-0.0006,0	Slew =,0.11	1O0	4	0	6,388,273:90:0
112	2	16	23:31:06.466	117GB11A	**CSMOS**	GE	***** GROUP END CSMOS	1O0	4	0	6,388,274:85:0
113	2	16	23:31:40.466	176GB6B	6TMREC	**NRC**	NO RECORD Record Mode Change	1O0	4	0	6,388,275:45:0
114	2	16	23:31:42.466	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	1O0	4	0	6,388,275:48:0
115	2	16	23:31:42.466		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 2267.29 +/-	1O0	4	0	6,388,275:48:0
116	2	16	23:31:49.133		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 2267.29 +/-	1O0	4	0	6,388,275:58:0
117	2	16	23:31:50.533		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC *2267.41 +/-	1O0	4	0	6,388,275:60:1
118	2	16	23:31:52.466		DMS:	: *RECORD	R7, TRACK 1, FWD, TIC *2267.86 +/-	1O0	4	0	6,388,275:63:0
119	2	16	23:32:11.133	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	1O0	4	0	6,388,276:00:0
120	2	16	23:32:11.133		DMS:	: *RUNDOWN	R7, TRACK 1, FWD, TIC *2272.24 +/-	1O0	4	0	6,388,276:00:0
121	2	16	23:32:12.333		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *2272.30 +/-	1O0	4	0	6,388,276:01:8
122	2	16	23:33:03.800	20WA4A	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	1O0	4	0	6,388,276:79:0
123	2	17	01:02:59.800	480SE6A	6MROH	44,23E8,0,A10	read from LLM2A44,23E8,0,A1	1O0	4	0	6,388,365:74:0
124	2	17	01:04:19.800	480SE6B	6MROH	45,23E8,0,B10	read from LLM2B45,23E8,0,B1	1O0	4	0	6,388,367:12:0
125	2	17	04:07:48.400	488AJ6A	6TMSED	NORM,EH4	Sci, Eng, and D/L Chan	1O0	4	0	6,388,548:54:0
126	2	17	04:48:20.400	488AJ6B	6TMSED	NORM,EH6	Sci, Eng, and D/L Chan	1O0	4	0	6,388,588:62:0
127	2	17	05:01:04.400	488AJ6C	6TMSED	FILL,EH6	Sci, Eng, and D/L Chan	1O0	4	0	6,388,601:25:0
128	2	17	05:27:54.400	488AJ6D	6TMSED	NORM,EH6	Sci, Eng, and D/L Chan	1O0	4	0	6,388,627:74:0
129	2	17	05:58:44.400	488AJ6E	6TMSED	NORM,EH5	Sci, Eng, and D/L Chan	1O0	4	0	6,388,658:28:0
130	2	17	05:59:41.733	488AK6A	6TMSED	FILL,EH5	Sci, Eng, and D/L Chan	1O0	4	0	6,388,659:23:0
131	2	17	06:26:00.400	480SF6A	6MROH	44,23E8,0,A10	read from LLM2A44,23E8,0,A1	1O0	4	0	6,388,685:25:0
132	2	17	06:27:20.400	480SF6B	6MROH	45,23E8,0,B10	read from LLM2B45,23E8,0,B1	1O0	4	0	6,388,686:54:0
133	2	17	06:28:47.733	488AK6B	6TMSED	NORM,EH5	Sci, Eng, and D/L Chan	1O0	4	0	6,388,688:03:0
134	2	17	09:09:59.733	488AK6C	6TMSED	NORM,EL5	Sci, Eng, and D/L Chan	1O0	4	0	6,388,847:42:0
135	2	17	09:59:59.733	488AK6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,388,896:83:0
136	2	17	10:15:36.400	488AK6E	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,388,912:32:0
137	2	17	10:57:24.400	488AL6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	1O0	4	0	6,388,953:63:0
138	2	17	12:09:00.400	480SG6A	6MROH	44,23E8,0,A2	read from LLM2A44,23E8,0,A2	1O0	4	0	6,389,024:46:0
139	2	17	12:15:40.400	480SG6B	6MROH	45,23E8,0,B2	read from LLM2B45,23E8,0,B2	1O0	4	0	6,389,031:09:0
140	2	17	12:49:57.066	411JA6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	1O0	4	0	6,389,065:00:0
141	2	17	12:49:57.066		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 2272.30 +/-	1O0	4	0	6,389,065:00:0
142	2	17	12:50:03.733		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 2272.30 +/-	1O0	4	0	6,389,065:10:0
143	2	17	12:50:05.133		DMS:	: *RECORD	R7, TRACK 1, FWD, TIC *2272.42 +/-	1O0	4	0	6,389,065:12:1
144	2	17	12:50:05.133		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 2272.42 +/-	1O0	4	0	6,389,065:12:1
145	2	17	12:50:07.066	411JA6B	6TMREC	**BDT**	7.68 KBPS BUFFER DUMP TO TAPE Record Mode	1O0	4	0	6,389,065:15:0
146	2	17	12:52:08.400	411JA6C	6TMREC	**NRC**	NO RECORD Record Mode Change	1O0	4	0	6,389,067:15:0
147	2	17	12:52:09.066		DMS:	: *RUNDOWN	R7, TRACK 1, FWD, TIC *2301.46 +/-	1O0	4	0	6,389,067:16:0
148	2	17	12:52:09.066	411JA6D	6DMSC	RDY,0	DMS Control Tape stop	1O0	4	0	6,389,067:16:0
149	2	17	12:52:10.266		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *2301.52 +/-	1O0	4	0	6,389,067:17:8
150	2	17	12:59:59.733	481UA4A	7VECT	BB1	Inert vect update UTC	1O0	4	0	6,389,074:85:0
151	2	17	13:03:05.066	165GD4A	7SCAN	NORM,249.743999,	Check S/P Position	1O0	4	0	6,389,077:90:0
152	2	17	13:06:07.733	176GD6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	1O0	4	0	6,389,081:00:0
153	2	17	13:06:59.066	117GD	**CSMOS**	GS	***** GROUP START CSMOS	1O0	4	0	6,389,081:77:0
154	2	17	13:07:08.400	117GD105A106A4A	7STRP	0.002,0.010402,0	Slew =,0.34	1O0	4	0	6,389,082:00:0
155	2	17	13:08:24.400	117GD105A106A4B	7STRP	0.0002,-0.012003	Slew =12.01	1O0	4	0	6,389,083:23:0
156	2	17	13:08:40.400	117GD105A106A4C	7STRP	0.002,0.010402,0	Slew =,0.34	1O0	4	0	6,389,083:47:0
157	2	17	13:09:56.400	117GD105A106A4D	7STRP	0.0002,-0.012003	Slew =12.01	1O0	4	0	6,389,084:70:0
158	2	17	13:10:12.400	117GD105A106A4E	7STRP	0.002,0.010402,0	Slew =,0.34	1O0	4	0	6,389,085:03:0
159	2	17	13:11:28.400	117GD105A106A4F	7STRP	0.0002,-0.012003	Slew =12.01	1O0	4	0	6,389,086:26:0
160	2	17	13:11:44.400	117GD105A106A4G	7STRP	0.002,0.010402,0	Slew =,0.34	1O0	4	0	6,389,086:50:0
161	2	17	13:13:00.400	117GD105A106A4H	7STRP	0.0002,-0.012003	Slew =12.01	1O0	4	0	6,389,087:73:0
162	2	17	13:13:16.400	117GD105A106A4I	7STRP	0.002,0.010402,0	Slew =,0.34	1O0	4	0	6,389,088:06:0
163	2	17	13:14:32.400	117GD105A106A4J	7STRP	0.0002,-0.012003	Slew =12.01	1O0	4	0	6,389,089:29:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
164	2	17	13:14:48.400	117GD105A106A4K	7STRP	0.002,0.010402,0	Slew =,0.34	1O0	4	0	6,389,089:53:0
165	2	17	13:16:04.400	117GD105A106A4L	7STRP	0.0002,-0.012003	Slew =12.01	1O0	4	0	6,389,090:76:0
166	2	17	13:16:20.400	117GD105A106A4M	7STRP	0.002,0.010402,0	Slew =,0.34	1O0	4	0	6,389,091:09:0
167	2	17	13:17:36.400	117GD105A106A4N	7STRP	0.0002,-0.012003	Slew =12.01	1O0	4	0	6,389,092:32:0
168	2	17	13:17:52.400	117GD105A106A4O	7STRP	0.002,0.010402,0	Slew =,0.34	1O0	4	0	6,389,092:56:0
169	2	17	13:18:42.400	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	1O0	4	0	6,389,093:40:0
170	2	17	13:18:42.400		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 2301.52 +/-	1O0	4	0	6,389,093:40:0
171	2	17	13:18:49.066		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 2301.52 +/-	1O0	4	0	6,389,093:50:0
172	2	17	13:18:50.466		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC *2301.64 +/-	1O0	4	0	6,389,093:52:1
173	2	17	13:19:07.733		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *2305.69 +/-	1O0	4	0	6,389,093:78:0
174	2	17	13:19:08.400	117GD105A106A4P	7STRP	0.0002,-0.012003	Slew =12.01	1O0	4	0	6,389,093:79:0
175	2	17	13:19:16.400	432OC431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	1O0	4	0	6,389,094:00:0
176	2	17	13:19:17.066	432OC6A	6RTSL1		R/T Select of DDS and	1O0	4	0	6,389,094:01:0
177	2	17	13:19:24.400	117GD105A106A4Q	7STRP	0.002,0.010402,0	Slew =,0.34	1O0	4	0	6,389,094:12:0
178	2	17	13:19:30.400		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *2311.00 +/-	1O0	4	0	6,389,094:21:0
179	2	17	13:19:30.400	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	1O0	4	0	6,389,094:21:0
180	2	17	13:19:31.600		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *2311.06 +/-	1O0	4	0	6,389,094:22:8
181	2	17	13:20:40.400	117GD105A106A4R	7STRP	0.0002,-0.012003	Slew =12.01	1O0	4	0	6,389,095:35:0
182	2	17	13:20:56.400	117GD105A106A4S	7STRP	0.002,0.010402,0	Slew =,0.34	1O0	4	0	6,389,095:59:0
183	2	17	13:22:12.400	117GD11A	**CSMOS**	GE	***** GROUP END CSMOS	1O0	4	0	6,389,096:82:0
184	2	17	13:22:48.400	176GD6B	6TMREC	**NRC**	NO RECORD Record Mode Change	1O0	4	0	6,389,097:45:0
185	2	17	13:22:50.400		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 2311.06 +/-	1O0	4	0	6,389,097:48:0
186	2	17	13:22:50.400	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	1O0	4	0	6,389,097:48:0
187	2	17	13:22:57.066		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 2311.06 +/-	1O0	4	0	6,389,097:58:0
188	2	17	13:22:58.466		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC *2311.18 +/-	1O0	4	0	6,389,097:60:1
189	2	17	13:23:00.400		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *2311.64 +/-	1O0	4	0	6,389,097:63:0
190	2	17	13:23:13.066		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *2314.61 +/-	1O0	4	0	6,389,097:82:0
191	2	17	13:23:13.066	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	1O0	4	0	6,389,097:82:0
192	2	17	13:23:14.266		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *2314.67 +/-	1O0	4	0	6,389,097:83:8
193	2	17	13:26:23.733	488AL6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	6,389,101:04:0
194	2	17	13:29:22.400	165GE4A	7SCAN	NORM,246.132,-20	Check S/P Position	1O0	4	0	6,389,103:90:0
195	2	17	13:29:23.066	176GE6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	1O0	4	0	6,389,104:00:0
196	2	17	13:30:14.400	117GE	**CSMOS**	GS	***** GROUP START CSMOS	1O0	4	0	6,389,104:77:0
197	2	17	13:30:23.733	117GE105A106A4A	7STRP	-0.026906,-0.011	Slew =,0.15	1O0	4	0	6,389,105:00:0
198	2	17	13:33:25.733	117GE11A	**CSMOS**	GE	***** GROUP END CSMOS	1O0	4	0	6,389,108:00:0
199	2	17	13:33:55.733	176GE6B	6TMREC	**NRC**	NO RECORD Record Mode Change	1O0	4	0	6,389,108:45:0
200	2	17	13:33:57.733	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	1O0	4	0	6,389,108:48:0
201	2	17	13:33:57.733		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 2314.67 +/-	1O0	4	0	6,389,108:48:0
202	2	17	13:34:04.400		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 2314.67 +/-	1O0	4	0	6,389,108:58:0
203	2	17	13:34:05.800		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC *2314.79 +/-	1O0	4	0	6,389,108:60:1
204	2	17	13:34:07.733		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *2315.24 +/-	1O0	4	0	6,389,108:63:0
205	2	17	13:34:21.733	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	1O0	4	0	6,389,108:84:0
206	2	17	13:34:21.733		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *2318.52 +/-	1O0	4	0	6,389,108:84:0
207	2	17	13:34:22.933		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *2318.58 +/-	1O0	4	0	6,389,108:85:8
208	2	17	13:34:25.733	165GF4A	7SCAN	NORM,249.054998,	Check S/P Position	1O0	4	0	6,389,108:90:0
209	2	17	13:36:17.066	175TA422A6A	6DMSC	R7,1	DMS Control Tape runup 7.68kbp	1O0	4	0	6,389,110:75:0
210	2	17	13:36:17.066		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 2318.58 +/-	1O0	4	0	6,389,110:75:0
211	2	17	13:36:18.400	117GF	**CSMOS**	GS	***** GROUP START CSMOS	1O0	4	0	6,389,110:77:0
212	2	17	13:36:23.733		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 2318.58 +/-	1O0	4	0	6,389,110:85:0
213	2	17	13:36:25.066	282NA431A6A	6RCSEL	DDSNCG,PLSSEL,EP	Record Select (DDS onl	1O0	4	0	6,389,110:87:0
214	2	17	13:36:25.066	175TA176A6A	6TMREC	**LPW**	7.68 KBPS LOW RATE SCI PWS RECORD Record	1O0	4	0	6,389,110:87:0
215	2	17	13:36:25.133		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 2318.70 +/-	1O0	4	0	6,389,110:87:1
216	2	17	13:36:25.133		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *2318.70 +/-	1O0	4	0	6,389,110:87:1
217	2	17	13:36:27.733	431OA6A	6RCSEL	DDSNCG,PLSNCG,EP	Record Select (DDS onl	1O0	4	0	6,389,111:00:0
218	2	17	13:36:27.733	117GF105A106A4A	7STRP	0.014101,-0.0015	Slew =,0.31	1O0	4	0	6,389,111:00:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
219	2	17	13:37:17.733	117GF105A106A4B	7STRP	-0.009,0.002,0,0	Slew =12.01	1O0	4	0	6,389,111:75:0	
220	2	17	13:37:29.066	117GF105A106A4C	7STRP	0.014101,-0.0015	Slew =,0.31	1O0	4	0	6,389,112:01:0	
221	2	17	13:38:19.066	117GF105A106A4D	7STRP	-0.009,0.002,0,0	Slew =12.01	1O0	4	0	6,389,112:76:0	
222	2	17	13:38:30.400	117GF105A106A4E	7STRP	0.014101,-0.0015	Slew =,0.31	1O0	4	0	6,389,113:02:0	
223	2	17	13:39:20.400	117GF105A106A4F	7STRP	-0.009,0.002,0,0	Slew =12.01	1O0	4	0	6,389,113:77:0	
224	2	17	13:39:25.733	428JA6A	6RCCLR			1O0	4	0	6,389,113:85:0	
225	2	17	13:39:26.400	428JA6B	6RCSET	12		1O0	4	0	6,389,113:86:0	
226	2	17	13:39:31.733	117GF105A106A4G	7STRP	0.014101,-0.0015	Slew =,0.31	1O0	4	0	6,389,114:03:0	
227	2	17	13:40:21.733	117GF105A106A4H	7STRP	-0.009,0.002,0,0	Slew =12.01	1O0	4	0	6,389,114:78:0	
228	2	17	13:40:33.066	117GF105A106A4I	7STRP	0.014101,-0.0015	Slew =,0.31	1O0	4	0	6,389,115:04:0	
229	**2**	**17**	**13:41:10.000**	**I33_SC_SAFE01**		**I33_SC_SAFE01**					**: :**	
230	**2**	**17**	**13:47:39.000**	**33NNMARDUK01-**		**-----START------**					**: :**	
231	**2**	**17**	**13:50:39.166**	**33NNMARDUK01-**		**-----STOP-------**					**: :**	
232	**2**	**17**	**13:51:33.000**	**33INMARDUK01-**		**-----START------**					**: :**	
233	**2**	**17**	**14:02:42.433**	**33INMARDUK01-**		**-----STOP-------**					**: :**	
234	**2**	**17**	**14:15:33.633**	**33NNKANEHE01-**		**-----START------**					**: :**	
235	**2**	**17**	**14:17:47.833**	**33NNKANEHE01-**		**-----STOP-------**					**: :**	
236	**2**	**17**	**14:17:54.300**	**33INKANEHE01-**		**-----START------**					**: :**	
237	**2**	**17**	**14:24:15.000**	**33INKANEHE01-**		**-----STOP-------**					**: :**	
238	**2**	**17**	**14:34:26.333**	**33NNMOSAIC01-**		**-----START------**					**: :**	
239	**2**	**17**	**14:36:00.500**	**33NNMOSAIC01-**		**-----STOP-------**					**: :**	
240	**2**	**17**	**14:36:33.000**	**33INMOSAIC01-**		**-----START------**					**: :**	
241	**2**	**17**	**14:53:28.300**	**33INMOSAIC01-**		**-----STOP-------**					**: :**	
242	**2**	**17**	**15:15:37.000**	**33NNMOSAIC02-**		**-----START------**					**: :**	
243	**2**	**17**	**15:17:27.800**	**33NNMOSAIC02-**		**-----STOP-------**					**: :**	
244	**2**	**17**	**15:17:33.000**	**33INMOSAIC02-**		**-----START------**					**: :**	
245	**2**	**17**	**15:36:51.100**	**33INMOSAIC02-**		**-----STOP-------**					**: :**	
246	**2**	**17**	**15:37:51.633**	**33NNREGION01-**		**-----START------**					**: :**	
247	**2**	**17**	**15:38:47.000**	**33INREGION01-**		**-----START------**					**: :**	
248	**2**	**17**	**15:40:51.833**	**33NNREGION01-**		**-----STOP-------**					**: :**	
249	**2**	**17**	**16:30:39.100**	**33INREGION01-**		**-----STOP-------**					**: :**	
250	**2**	**17**	**19:06:12.300**	**33NNGLOBAL01-**		**-----START------**					**: :**	
251	**2**	**17**	**19:07:04.000**	**33NNGLOBAL01-**		**-----STOP-------**					**: :**	
252	**2**	**17**	**19:07:04.300**	**33INGLOBAL01-**		**-----START------**					**: :**	
253	**2**	**17**	**20:06:47.000**	**33INGLOBAL01-**		**-----STOP-------**					**: :**	
254	**2**	**18**	**00:06:30.300**	**33NNGLOBAL02-**		**-----START------**					**: :**	
255	**2**	**18**	**00:08:17.800**	**33NNGLOBAL02-**		**-----STOP-------**					**: :**	
256	**2**	**18**	**00:09:04.333**	**33INGLOBAL02-**		**-----START------**					**: :**	
257	**2**	**18**	**00:27:49.700**	**33INGLOBAL02-**		**-----STOP-------**					**: :**	
258	2	18	03:59:59.733		DMS:	: READY	RDY, TRACK 2, REV, TIC 2387.00 +/-				6,389,965:04:0	
259	**2**	**18**	**04:00:00.000**	**20A3FB**	**37F2PR**	**CMD,37F2PR,20A3F**	**Shield Flash Heater OFF (primary relay)**				**6,389,965:04:4**	
260	**2**	**18**	**04:00:00.000**	**20A3EW**	**37AR**	**CMD,37AR,20A3EW,**	**NIMS Power OFF**				**6,389,965:04:4**	
261	**2**	**18**	**04:00:00.000**	**20A3FF**	**40T2R**	**CMD,40T2R,20A3FF**	**PCT Heater 2 OFF**				**6,389,965:04:4**	
262	**2**	**18**	**04:00:00.000**	**20A3FE**	**40T1PR**	**CMD,40T1PR,20A3F**	**PCT Heater 1 OFF (primary relay)**				**6,389,965:04:4**	
263	**2**	**18**	**04:00:00.000**	**20A3FA**	**37F1PR**	**CMD,37F1PR,20A3F**	**Radiator Flash Heater OFF (primary relay)**				**6,389,965:04:4**	
264	**2**	**18**	**04:00:00.000**	**20A3EZ**	**37C2PR**	**CMD,37C2PR,20A3E**	**Optics Heater 2 OFF (primary relay)**				**6,389,965:04:4**	
265	**2**	**18**	**04:00:00.000**	**20A3EY**	**37C1PR**	**CMD,37C1PR,20A3E**	**Optics Heater 1 OFF (primary relay)**				**6,389,965:04:4**	
266	**2**	**18**	**04:00:00.000**	**20A3FD**	**40HRPR**	**CMD,40HRPR,20A3F**	**RCT Heater OFF (primary relay)**				**6,389,965:04:4**	
267	**2**	**18**	**04:00:00.000**	**20A3EX**	**37H**	**CMD,37H,20A3EX,,**	**Replacement Heaters ON**				**6,389,965:04:4**	
268	2	18	04:00:20.400	20QR6E	6TMSED	NORM,EH6	Sci, Eng, and D/L Chan				6,389,965:35:0	
269	2	18	04:03:03.733	282NB431A6A	6RCDSL	DDSNCG,PLSDSL,EP	Record Deselect (DDS o				6,389,968:07:0	
270	2	18	04:03:52.400	282NB432A431A6A	6RCDSL	DDSNCG,PLSDSL,EP	Record Deselect (DDS o				6,389,968:80:0	
271	2	18	04:03:53.066	282NB432A6A	6RTSL1		R/T Select of DDS and				6,389,968:81:0	
272	**2**	**18**	**04:19:11.733**	**20ZU3Q**	**37HR**	**1**	**Replacement Heaters OFF**				**6,389,984:03:0**	
273	**2**	**18**	**04:19:13.733**	**20ZU3S**	**37HR**	**2**	**Replacement Heaters OFF**				**6,389,984:06:0**	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
274	2	18	04:19:39.733	20ZU3R	37A	1	NIMS Power ON	260	4	0	6,389,984:45:0	
275	2	18	04:19:41.733	20ZU3T	37A	2	NIMS Power ON	260	4	0	6,389,984:48:0	
276	2	18	04:21:41.066	20ZU4A	37IST	1,2,0,OFF,0,0,0	Chopper ON, Sync, Chopper (Ref)	2R0	4	0	6,389,986:45:0	
277	2	18	04:25:34.400	20DZ5A	37PL		Program Load (halts microprocessor & unwri		4	0	6,389,990:31:0	
278	2	18	04:25:37.733	20DZ5B	37MRL		Memory Realocate (software operates from R		4	0	6,389,990:36:0	
279	2	18	04:25:41.066	20DZ6A	6MCOPY	NIMS	NIMS,1000,LLM1A,7300,77F7		4	0	6,389,990:41:0	
280	2	18	04:25:51.066	20DZ6B	6MCOPY	NIMS	NIMS,1598,LLM1A,77F8,781D		4	0	6,389,990:56:0	
281	2	18	04:26:01.066	20DZ5C	37IRT		Instrument Reset (goes into POR state)		4	0	6,389,990:71:0	
282	2	18	04:26:04.400	20DZ5D	37MN		Memory Normal (software operates from ROM)	260	4	0	6,389,990:76:0	
283	2	18	04:27:08.400	20DZ4A	37IST	1,2,0,OFF,0,0,0	Chopper ON, Sync, Chopper (Ref)	2R0	4	0	6,389,991:81:0	
284	2	18	05:05:24.400	20IF6B	6MCOPY	HLM1A,E700,B1A1A	HLM1A,E700,B1A1A,5D2F,5DC	2R0	4	0	6,390,029:67:0	
285	2	18	05:17:56.400	165JY4A	7SCAN	NORM,53.967,20.8	Check S/P Position	2R0	4	0	6,390,042:12:0	
286	2	18	05:21:49.733		DMS:	: *E4-DELAY	RDY, TRACK *1, *FWD, TIC 2387.00 +/-	2R0	4	0	6,390,045:89:0	
287	2	18	05:21:49.733	175JY422A6A	6DMSC	R806,1	DMS Control	2R0	4	0	6,390,045:89:0	
288	2	18	05:21:56.400		DMS:	: *RUNUP	R806, TRACK 1, FWD, TIC 2387.00 +/-	2R0	4	0	6,390,046:08:0	
289	2	18	05:21:58.400	165JY4B	7VECT		Inert vect update UTC	2R0	4	0	6,390,046:11:0	
290	2	18	05:22:01.066	175JY176A6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	2R0	4	0	6,390,046:15:0	
291	2	18	05:22:01.666		DMS:	: *AT_SPD	R806, TRACK 1, FWD, TIC 2453.00 +/-	2R0	4	0	6,390,046:15:9	
292	2	18	05:22:01.666		DMS:	: *RECORD	R806, TRACK 1, FWD, TIC *2453.00 +/-	2R0	4	0	6,390,046:15:9	
293	2	18	05:22:04.400	175JY422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R0	4	0	6,390,046:20:0	
294	2	18	05:22:04.400		DMS:	: *RUNDOWN	R806, TRACK 1, FWD, TIC *2520.27 +/-	2R0	4	0	6,390,046:20:0	
295	2	18	05:22:07.133		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *2531.77 +/-	2R0	4	0	6,390,046:24:1	
296	2	18	05:40:03.733	20WC4A	7SAFE	UNSTOW	S/P TO 153 deg cone	2R0	4	0	6,390,064:01:0	
297	2	18	07:12:00.400	480SJ6A	6MROH	44,23E8,0,A10	read from LLM2A44,23E8,0,A1	2R0	4	0	6,390,154:86:0	
298	2	18	07:13:20.400	480SJ6B	6MROH	45,23E8,0,B10	read from LLM2B45,23E8,0,B1	2R0	4	0	6,390,156:24:0	
299	2	18	07:32:25.066	20MD6A	6CKSUM	MAG,4040,46F0		2R0	4	0	6,390,175:12:0	
300	2	18	07:33:21.733	480MA6	6MROH	12	read from LLM1A12,2282,0,A1	2R0	4	0	6,390,176:06:0	
301	2	18	07:33:21.733	480MA6A	6MROH	12,2282,0,A10	read from LLM1A12,2282,0,A1	2R0	4	0	6,390,176:06:0	
302	2	18	07:53:56.400	488AP6A	6TMSED	NORM,EH5	Sci, Eng, and D/L Chan	2R0	4	0	6,390,196:38:0	
303	2	18	11:42:12.400	488AP6B	6TMSED	NORM,EH4	Sci, Eng, and D/L Chan	2R0	4	0	6,390,422:16:0	
304	2	18	11:59:59.733	20TS4A	7SAFE	STOP	S/P NO MOVEMENT	2R0	4	0	6,390,439:70:0	
305	2	18	12:00:49.733	20TS4B	7SLEW	DIS,POS,0.0	Stator movement	2R0	4	0	6,390,440:54:0	
306	2	18	12:00:57.733	20TS4F	7STAR	1,1235,23.9660,-	Star catalog update	2R0	4	0	6,390,440:66:0	
307	2	18	12:00:59.733	20TS4G	7STAR	2,333,138.16	Star catalog update	2R0	4	0	6,390,440:69:0	
308	2	18	12:01:01.733	20TS4H	7STAR	3,167,345.57	Star catalog update	2R0	4	0	6,390,440:72:0	
309	2	18	12:01:03.733	20TS4I	7STAR	4,0,0.0,0.0	Star catalog update	2R0	4	0	6,390,440:75:0	
310	2	18	12:01:05.733	20TS4J	7STAR	5,0,0.0,0.0	Star catalog update	2R0	4	0	6,390,440:78:0	
311	2	18	12:01:07.733	20TS4K	7STAR	6,0,0.0,0.0	Star catalog update	2R0	4	0	6,390,440:81:0	
312	2	18	12:05:02.400	432OZ431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	2R0	4	0	6,390,444:69:0	
313	2	18	12:05:03.066	432OZ6A	6RTSL1		R/T Select of DDS and	2R0	4	0	6,390,444:70:0	
314	2	18	12:12:04.400	488AP6C	6TMSED	NORM,EH5	Sci, Eng, and D/L Chan	2R0	4	0	6,390,451:65:0	
315	2	18	12:45:00.400	480SK6A	6MROH	44,23E8,0,A10	read from LLM2A44,23E8,0,A1	2R0	4	0	6,390,484:26:0	
316	2	18	12:46:20.400	480SK6B	6MROH	45,23E8,0,B10	read from LLM2B45,23E8,0,B1	2R0	4	0	6,390,485:55:0	
317	2	18	13:09:39.733	488AP6D	6TMSED	FILL,EH5	Sci, Eng, and D/L Chan	2R0	4	0	6,390,508:61:0	
318	2	18	13:51:11.000	20IG6B	6MCOPY	HLM1A,E700,B1A1A	HLM1A,E700,B1A1A,5D2F,5DC	2R0	4	0	6,390,549:67:0	
319	2	18	13:53:45.666	488AP6E	6TMSED	NORM,EH5	Sci, Eng, and D/L Chan	2R0	4	0	6,390,552:26:0	
320	2	18	14:02:42.333	165JZ4A	7SCAN	NORM,76.304999,2	Check S/P Position	2R0	4	0	6,390,561:12:0	
321	2	18	14:06:35.666		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 2531.77 +/-	2R0	4	0	6,390,564:89:0	
322	2	18	14:06:35.666	175JZ422A6A	6DMSC	R806,1	DMS Control	2R0	4	0	6,390,564:89:0	
323	2	18	14:06:42.333		DMS:	: *RUNUP	R806, TRACK 1, FWD, TIC 2531.77 +/-	2R0	4	0	6,390,565:08:0	
324	2	18	14:06:44.333	165JZ4B	7VECT		Inert vect update UTC	2R0	4	0	6,390,565:11:0	
325	2	18	14:06:47.000	175JZ176A6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	2R0	4	0	6,390,565:15:0	
326	2	18	14:06:47.600		DMS:	: *AT_SPD	R806, TRACK 1, FWD, TIC 2597.77 +/-	2R0	4	0	6,390,565:15:9	
327	2	18	14:06:47.600		DMS:	: *RECORD	R806, TRACK 1, FWD, TIC *2597.77 +/-	2R0	4	0	6,390,565:15:9	
328	2	18	14:06:50.333		DMS:	: *RUNDOWN	R806, TRACK 1, FWD, TIC *2665.03 +/-	2R0	4	0	6,390,565:20:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
329	2	18	14:06:50.333	175JZ422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R0	4	0	6,390,565:20:0	
330	2	18	14:06:53.066		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *2676.53 +/-	2R0	4	0	6,390,565:24:1	
331	2	18	15:00:57.000	20IH6B	6MCOPY	HLM1A,E700,B1A1A	HLM1A,E700,B1A1A,5D2F,5DC	2R0	4	0	6,390,618:67:0	
332	2	18	15:12:19.666	165IN4A	7SCAN	NORM,87.042999,2	Check S/P Position	2R0	4	0	6,390,629:90:0	
333	2	18	15:13:24.333	488AQ6A	6TMSED	NORM,EH4	Sci, Eng, and D/L Chan	2R0	4	0	6,390,631:05:0	
334	2	18	15:16:15.000	118IN	SMOS	GS		2R0	4	0	6,390,633:79:0	
335	2	18	15:16:21.666	165IN4B	7VECT		Inert vect update UTC	2R0	4	0	6,390,633:89:0	
336	2	18	15:16:25.000	118IN110A111A4A	7STRP	-0.002,0.0,26,0,	Slew =,1.01	2R0	4	0	6,390,634:03:0	
337	2	18	15:16:39.000	175IN422A6A	6DMSC	R806,1	DMS Control	2R0	4	0	6,390,634:24:0	
338	2	18	15:16:39.000		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 2676.53 +/-	2R0	4	0	6,390,634:24:0	
339	2	18	15:16:45.666		DMS:	: *RUNUP	R806, TRACK 1, FWD, TIC 2676.53 +/-	2R0	4	0	6,390,634:34:0	
340	2	18	15:16:50.333	175IN176A6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	2R0	4	0	6,390,634:41:0	
341	2	18	15:16:50.933		DMS:	: *AT_SPD	R806, TRACK 1, FWD, TIC 2742.53 +/- 1	2R0	4	0	6,390,634:41:9	
342	2	18	15:16:50.933		DMS:	: *RECORD	R806, TRACK 1, FWD, TIC *2742.53 +/-	2R0	4	0	6,390,634:41:9	
343	2	18	15:16:51.000	118IN11A	SMOS	GE		2R0	4	0	6,390,634:42:0	
344	2	18	15:16:54.333	175IN422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R0	4	0	6,390,634:47:0	
345	2	18	15:16:54.333		DMS:	: *RUNDOWN	R806, TRACK 1, FWD, TIC *2826.20 +/- 1	2R0	4	0	6,390,634:47:0	
346	2	18	15:16:57.066		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *2837.70 +/- 1	2R0	4	0	6,390,634:51:1	
347	2	18	15:30:04.333	20WD4A	7SAFE	UNSTOW	S/P TO 153 deg cone	2R0	4	0	6,390,647:49:0	
348	2	18	16:55:48.333	488AQ6B	6TMSED	NORM,EH5	Sci, Eng, and D/L Chan	2R0	4	0	6,390,732:30:0	
349	2	18	16:59:39.666	488AQ6C	6TMSED	FILL,EH5	Sci, Eng, and D/L Chan	2R0	4	0	6,390,736:13:0	
350	2	18	17:38:00.333	480SL6A	6MROH	44,23E8,0,A10	read from LLM2A44,23E8,0,A1	2R0	4	0	6,390,774:06:0	
351	2	18	17:39:20.333	480SL6B	6MROH	45,23E8,0,B10	read from LLM2B45,23E8,0,B1	2R0	4	0	6,390,775:35:0	
352	2	18	17:43:45.666	488AQ6D	6TMSED	NORM,EH5	Sci, Eng, and D/L Chan	2R0	4	0	6,390,779:69:0	
353	2	18	17:55:04.333	20UP4A	7SAFE	STOP	S/P NO MOVEMENT	2R0	4	0	6,390,790:86:0	
354	2	18	17:55:54.333	20UP4B	7SLEW	DIS,POS,0.0	Stator movement	2R0	4	0	6,390,791:70:0	
355	2	18	18:27:00.333	20RM4I	7MODE	INT	AACS INERTIAL MODE	2R0	4	0	6,390,822:48:0	
356	2	18	18:42:00.333	20RM4K	7SLEW	INIT,POS,17.45	Stator movement	2R0	4	0	6,390,837:33:0	
357	2	18	18:54:00.333	20RM4L	7SLEW	DIS,POS,0.0	Stator movement	2R0	4	0	6,390,849:21:0	
358	2	18	19:01:00.333	20RM4M	7SLEW	INIT,NEG,17.45	Stator movement	2R0	4	0	6,390,856:14:0	
359	2	18	19:13:00.333	20RM4N	7SLEW	DIS,POS,0.0	Stator movement	2R0	4	0	6,390,868:02:0	
360	2	18	19:25:00.333	20RM4AH	7MODE	CRU	AACS CRUISE MODE	2R0	4	0	6,390,879:81:0	
361	2	18	22:58:00.333	480SM6A	6MROH	44,23E8,0,A10	read from LLM2A44,23E8,0,A1	2R0	4	0	6,391,090:50:0	
362	2	18	22:59:20.333	480SM6B	6MROH	45,23E8,0,B10	read from LLM2B45,23E8,0,B1	2R0	4	0	6,391,091:79:0	
363	2	19	02:19:39.666	488AR6A	6TMSED	FILL,EH5	Sci, Eng, and D/L Chan	2R0	4	0	6,391,289:90:0	
364	2	19	02:58:45.666	488AR6B	6TMSED	NORM,EH5	Sci, Eng, and D/L Chan	2R0	4	0	6,391,328:60:0	
365	2	19	11:33:40.333	488AS6A	6TMSED	NORM,EH4	Sci, Eng, and D/L Chan	2R0	4	0	6,391,837:83:0	
366	2	19	12:03:32.333	488AS6B	6TMSED	NORM,EH5	Sci, Eng, and D/L Chan	2R0	4	0	6,391,867:41:0	
367	2	19	13:00:00.333	488AS6C	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	2R0	4	0	6,391,923:27:0	
368	2	19	13:04:39.666	488AS6D	6TMSED	FILL,AH5	Sci, Eng, and D/L Chan	2R0	4	0	6,391,927:82:0	
369	2	19	13:43:45.666	488AS6E	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	2R0	4	0	6,391,966:52:0	
370	2	19	15:07:00.333	488AT6A	6TMSED	NORM,AH4	Sci, Eng, and D/L Chan	2R0	4	0	6,392,048:82:0	
371	2	19	16:53:55.000	488AT6B	6TMSED	FILL,AH4	Sci, Eng, and D/L Chan	2R0	4	0	6,392,154:58:0	
372	2	19	16:55:48.333	488AT6C	6TMSED	FILL,AH5	Sci, Eng, and D/L Chan	2R0	4	0	6,392,156:46:0	
373	2	19	17:38:45.666	488AT6D	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	2R0	4	0	6,392,198:90:0	
374	2	19	23:37:02.166	33NNGLOBAL01-		-----START------		2R0	4	0	: :	
375	2	19	23:37:06.266	20DH5A	37PL		Program Load (halts microprocessor & unwri		4	0	6,392,553:36:0	
376	2	19	23:37:09.600	20DH5B	37MRL		Memory Realocate (software operates from R		4	0	6,392,553:41:0	
377	2	19	23:37:12.933	20DH6A	6MCOPY	NIMS	NIMS,1000,LLM1A,7300,77F7		4	0	6,392,553:46:0	
378	2	19	23:37:22.933	20DH6B	6MCOPY	NIMS	NIMS,1598,LLM1A,77F8,781D		4	0	6,392,553:61:0	
379	2	19	23:37:32.933	20DH5C	37IRT		Instrument Reset (goes into POR state)		4	0	6,392,553:76:0	
380	2	19	23:37:36.266	20DH5D	37MN		Memory Normal (software operates from ROM)	260	4	0	6,392,553:81:0	
381	2	19	23:38:36.933	20DH4A	37IST	1,2,0,OFF,0,0,0	Chopper ON, Sync, Chopper (Ref)	2R0	4	0	6,392,554:81:0	
382	2	19	23:40:02.366	33NNGLOBAL01-		-----STOP-------		2R0	4	0	: :	
383	2	19	23:40:40.166	33JNGLOBAL01-		-----START------		2R0	4	0	: :	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
384	2	19	23:40:40.266	127DH4A	37IOP	7,0	Fixed Map, Grating Start Position =00	2R7	4	0	6,392,556:84:0
385	2	19	23:40:40.266	127DH	NIMSTAB	GS	%%%%% GROUP START TAB	2R7	4	0	6,392,556:84:0
386	2	19	23:40:40.933	127DH4B	37ETB	07,C7,18,3C,D7,0	Loads wavelength edit table	2R7	4	0	6,392,556:85:0
387	2	19	23:40:48.933	127DH11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R7	4	0	6,392,557:06:0
388	2	19	23:42:45.600	165DH4A	7SCAN	NORM,107.125,22.	Check S/P Position	2R7	4	0	6,392,558:90:0
389	2	19	23:46:39.600	117DH	CSMOS	GS	***** GROUP START CSMOS	2R7	4	0	6,392,562:77:0
390	2	19	23:46:40.266	175DH422A6A	6DMSC	R7,1	DMS Control Tape runup 7.68kbp	2R7	4	0	6,392,562:78:0
391	2	19	23:46:40.266		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 2837.70 +/- 1	2R7	4	0	6,392,562:78:0
392	2	19	23:46:46.933		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 2837.70 +/- 1	2R7	4	0	6,392,562:88:0
393	2	19	23:46:48.266	175DH176A6A	6TMREC	LPU	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R7	4	0	6,392,562:90:0
394	2	19	23:46:48.333		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 2837.82 +/- 1	2R7	4	0	6,392,562:90:1
395	2	19	23:46:48.333		DMS:	: *RECORD	R7, TRACK 1, FWD, TIC *2837.82 +/- 1	2R7	4	0	6,392,562:90:1
396	2	19	23:46:48.933	117DH105A106A4A	7STRP	0.058567,0.0,0,0	Slew =,0.76	2R7	4	0	6,392,563:00:0
397	2	19	23:46:52.933	33JNGLOBAL01-	NIMPBK	301DH	JUPITER GLOBAL OBSERVATION	2R7	4	0	: :
398	2	19	23:48:45.600	117DH105A106A4B	7STRP	-0.057965,-0.007	Slew =12.01	2R7	4	0	6,392,564:84:0
399	2	19	23:49:02.933	117DH105A106A4C	7STRP	0.058567,0.0,0,0	Slew =,0.76	2R7	4	0	6,392,565:19:0
400	2	19	23:50:59.600	117DH105A106B4A	7STRP	-0.057965,-0.007	Slew =12.01	2R7	4	0	6,392,567:12:0
401	2	19	23:51:14.933	117DH105A106B4B	7STRP	0.058567,0.0,0,0	Slew =,0.76	2R7	4	0	6,392,567:35:0
402	2	19	23:53:30.266	117DH105A106C4A	7STRP	-0.058667,-0.007	Slew =12.01	2R7	4	0	6,392,569:56:0
403	2	19	23:53:45.600	117DH105A106C4B	7STRP	0.059972,0.0,0,0	Slew =,0.76	2R7	4	0	6,392,569:79:0
404	2	19	23:56:46.266	117DH105A106D4A	7STRP	-0.059069,-0.007	Slew =12.01	2R7	4	0	6,392,572:77:0
405	2	19	23:57:06.933	117DH105A106D4B	7STRP	0.05957,0.0,0,0,	Slew =,0.76	2R7	4	0	6,392,573:17:0
406	2	20	00:01:22.266	117DH105A106D4C	7STRP	-0.059069,-0.007	Slew =12.01	2R7	4	0	6,392,577:36:0
407	2	20	00:01:42.933	117DH105A106D4D	7STRP	0.05957,0.0,0,0,	Slew =,0.76	2R7	4	0	6,392,577:67:0
408	2	20	00:05:58.266	117DH105A106E4A	7STRP	-0.053551,-0.007	Slew =12.01	2R7	4	0	6,392,581:86:0
409	2	20	00:06:20.266	117DH105A106E4B	7STRP	0.045531,0.0,0,0	Slew =,0.76	2R7	4	0	6,392,582:28:0
410	2	20	00:07:17.700	33JNGLOBAL01-		-----STOP-------		2R7	4	0	: :
411	2	20	00:10:00.933	117DH11A	CSMOS	GE	***** GROUP END CSMOS	2R7	4	0	6,392,585:86:0
412	2	20	00:10:04.266	175DH422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R7	4	0	6,392,586:00:0
413	2	20	00:10:04.266	33JNGLOBAL01-	DESELC	300DH	JUPITER GLOBAL OBSERVATION	2R7	4	0	: :
414	2	20	00:10:04.266		DMS:	: *RUNDOWN	R7, TRACK 1, FWD, TIC *3164.99 +/- 1	2R7	4	0	6,392,586:00:0
415	2	20	00:10:04.266	175DH6A	6TMREC	NRC	NO RECORD Record Mode Change	2R7	4	0	6,392,586:00:0
416	2	20	00:10:05.466		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *3165.05 +/- 1	2R7	4	0	6,392,586:01:8
417	2	20	02:40:00.266	488AU6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R7	4	0	6,392,734:26:0
418	2	20	02:56:13.500	33NNGLOBAL02-		-----START------		2R7	4	0	: :
419	2	20	02:56:17.600	20DI5A	37PL		Program Load (halts microprocessor & unwri		4	0	6,392,750:36:0
420	2	20	02:56:20.933	20DI5B	37MRL		Memory Realocate (software operates from R		4	0	6,392,750:41:0
421	2	20	02:56:24.266	20DI6A	6MCOPY	NIMS	NIMS,1000,LLM1A,7300,77F7		4	0	6,392,750:46:0
422	2	20	02:56:34.266	20DI6B	6MCOPY	NIMS	NIMS,1598,LLM1A,77F8,781D		4	0	6,392,750:61:0
423	2	20	02:56:44.266	20DI5C	37IRT		Instrument Reset (goes into POR state)		4	0	6,392,750:76:0
424	2	20	02:56:47.600	20DI5D	37MN		Memory Normal (software operates from ROM)	260	4	0	6,392,750:81:0
425	2	20	02:57:48.266	20DI4A	37IST	1,2,0,OFF,0,0,0	Chopper ON, Sync, Chopper (Ref)	2R0	4	0	6,392,751:81:0
426	2	20	02:58:50.833	33JNGLOBAL02-		-----START------		2R0	4	0	: :
427	2	20	02:58:50.933	127DI	NIMSTAB	GS	%%%%% GROUP START TAB	2R0	4	0	6,392,752:84:0
428	2	20	02:58:50.933	127DI4A	37IOP	7,0	Fixed Map, Grating Start Position =00	2R7	4	0	6,392,752:84:0
429	2	20	02:58:51.600	127DI4B	37ETB	07,C7,18,3C,D7,0	Loads wavelength edit table	2R7	4	0	6,392,752:85:0
430	2	20	02:58:59.600	127DI11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R7	4	0	6,392,753:06:0
431	2	20	02:59:13.700	33NNGLOBAL02-		-----STOP-------		2R7	4	0	: :
432	2	20	03:02:57.600	165DI4A	7SCAN	NORM,108.308,22.	Check S/P Position	2R7	4	0	6,392,756:90:0
433	2	20	03:06:51.600	117DI	CSMOS	GS	***** GROUP START CSMOS	2R7	4	0	6,392,760:77:0
434	2	20	03:06:52.266		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 3165.05 +/- 1	2R7	4	0	6,392,760:78:0
435	2	20	03:06:52.266	175DI422A6A	6DMSC	R7,1	DMS Control Tape runup 7.68kbp	2R7	4	0	6,392,760:78:0
436	2	20	03:06:58.933		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 3165.05 +/- 1	2R7	4	0	6,392,760:88:0
437	2	20	03:07:00.266	175DI176A6A	6TMREC	LPU	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R7	4	0	6,392,760:90:0
438	2	20	03:07:00.333		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 3165.17 +/- 1	2R7	4	0	6,392,760:90:1

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
439	2	20	03:07:00.333		DMS:	: *RECORD	R7, TRACK 1, FWD, TIC *3165.17 +/- 1	2R7	4	0	6,392,760:90:1	
440	2	20	03:07:00.933	33JNGLOBAL02-	NIMPBK	301DI	JUPITER GLOBAL OBSERVATION	2R7	4	0	: :	
441	2	20	03:07:00.933	117DI105A106A4A	7STRP	0.058065,-0.0008	Slew =,0.76	2R7	4	0	6,392,761:00:0	
442	2	20	03:08:48.933	117DI105A106A4B	7STRP	-0.057563,-0.006	Slew =12.01	2R7	4	0	6,392,762:71:0	
443	2	20	03:09:06.266	117DI105A106A4C	7STRP	0.058065,-0.0008	Slew =,0.76	2R7	4	0	6,392,763:06:0	
444	2	20	03:10:54.266	117DI105A106A4D	7STRP	-0.057563,-0.006	Slew =12.01	2R7	4	0	6,392,764:77:0	
445	2	20	03:11:11.600	117DI105A106A4E	7STRP	0.058065,-0.0008	Slew =,0.76	2R7	4	0	6,392,765:12:0	
446	2	20	03:12:59.600	117DI105A106B4A	7STRP	-0.057563,-0.006	Slew =12.01	2R7	4	0	6,392,766:83:0	
447	2	20	03:13:16.933	117DI105A106B4B	7STRP	0.058065,-0.0008	Slew =,0.76	2R7	4	0	6,392,767:18:0	
448	2	20	03:16:34.266	117DI105A106B4C	7STRP	-0.057563,-0.006	Slew =12.01	2R7	4	0	6,392,770:41:0	
449	2	20	03:16:51.600	117DI105A106B4D	7STRP	0.058065,-0.0008	Slew =,0.76	2R7	4	0	6,392,770:67:0	
450	2	20	03:20:08.933	117DI105A106B4E	7STRP	-0.057563,-0.006	Slew =12.01	2R7	4	0	6,392,773:90:0	
451	2	20	03:20:26.266	117DI105A106B4F	7STRP	0.058065,-0.0008	Slew =,0.76	2R7	4	0	6,392,774:25:0	
452	2	20	03:23:43.600	117DI105A106C4A	7STRP	-0.053551,-0.006	Slew =12.01	2R7	4	0	6,392,777:48:0	
453	2	20	03:24:04.933	117DI105A106C4B	7STRP	0.048037,-0.0008	Slew =,0.76	2R7	4	0	6,392,777:80:0	
454	2	20	03:27:10.933	117DI11A	CSMOS	GE	***** GROUP END CSMOS	2R7	4	0	6,392,780:86:0	
455	2	20	03:27:14.266		DMS:	: *RUNDOWN	R7, TRACK 1, FWD, TIC *3449.69 +/- 1	2R7	4	0	6,392,781:00:0	
456	2	20	03:27:14.266	33JNGLOBAL02-	DESELC	300DI	JUPITER GLOBAL OBSERVATION	2R7	4	0	: :	
457	2	20	03:27:14.266	175DI422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R7	4	0	6,392,781:00:0	
458	2	20	03:27:14.266	175DI6A	6TMREC	NRC	NO RECORD Record Mode Change	2R7	4	0	6,392,781:00:0	
459	2	20	03:27:15.466		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *3449.75 +/- 1	2R7	4	0	6,392,781:01:8	
460	2	20	03:27:29.700	33JNGLOBAL02-		-----STOP-------		2R7	4	0	: :	
461	2	20	03:39:20.933	432SA6A	6RTDS2	NIMNCG,AACNCG,RT	R/T ENG DESLECT	2R7	4	0	6,392,792:89:0	
462	2	20	03:48:36.266	488AU6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2R7	4	0	6,392,802:12:0	
463	2	20	03:56:28.266	488AU6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2R7	4	0	6,392,809:83:0	
464	2	20	04:05:40.266	488AU6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2R7	4	0	6,392,819:01:0	
465	2	20	06:16:25.500	33NNGLOBAL03-		-----START------		2R7	4	0	: :	
466	2	20	06:16:29.600	20DJ5A	37PL		Program Load (halts microprocessor & unwri		4	0	6,392,948:36:0	
467	2	20	06:16:32.933	20DJ5B	37MRL		Memory Realocate (software operates from R		4	0	6,392,948:41:0	
468	2	20	06:16:36.266	20DJ6A	6MCOPY	NIMS	NIMS,1000,LLM1A,7300,77F7		4	0	6,392,948:46:0	
469	2	20	06:16:46.266	20DJ6B	6MCOPY	NIMS	NIMS,1598,LLM1A,77F8,781D		4	0	6,392,948:61:0	
470	2	20	06:16:56.266	20DJ5C	37IRT		Instrument Reset (goes into POR state)		4	0	6,392,948:76:0	
471	2	20	06:16:59.600	20DJ5D	37MN		Memory Normal (software operates from ROM)	260	4	0	6,392,948:81:0	
472	2	20	06:18:00.266	20DJ4A	37IST	1,2,0,OFF,0,0,0	Chopper ON, Sync, Chopper (Ref)	2R0	4	0	6,392,949:81:0	
473	2	20	06:19:02.833	33JNGLOBAL03-		-----START------		2R0	4	0	: :	
474	2	20	06:19:02.933	127DJ	NIMSTAB	GS	%%%%% GROUP START TAB	2R0	4	0	6,392,950:84:0	
475	2	20	06:19:02.933	127DJ4A	37IOP	7,0	Fixed Map, Grating Start Position =00	2R7	4	0	6,392,950:84:0	
476	2	20	06:19:03.600	127DJ4B	37ETB	07,C7,18,3C,D7,0	Loads wavelength edit table	2R7	4	0	6,392,950:85:0	
477	2	20	06:19:11.600	127DJ11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R7	4	0	6,392,951:06:0	
478	2	20	06:19:25.700	33NNGLOBAL03-		-----STOP-------		2R7	4	0	: :	
479	2	20	06:24:10.266	165DM4A	7SCAN	NORM,109.374,22.	Check S/P Position	2R7	4	0	6,392,955:90:0	
480	2	20	06:28:04.266	117DM	CSMOS	GS	***** GROUP START CSMOS	2R7	4	0	6,392,959:77:0	
481	2	20	06:28:04.933		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 3449.75 +/- 1	2R7	4	0	6,392,959:78:0	
482	2	20	06:28:04.933	175DJ422A6A	6DMSC	R7,1	DMS Control Tape runup 7.68kbp	2R7	4	0	6,392,959:78:0	
483	2	20	06:28:11.600		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 3449.75 +/- 1	2R7	4	0	6,392,959:88:0	
484	2	20	06:28:12.933	175DJ176A6A	6TMREC	LPU	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R7	4	0	6,392,959:90:0	
485	2	20	06:28:13.000		DMS:	: *RECORD	R7, TRACK 1, FWD, TIC *3449.87 +/- 1	2R7	4	0	6,392,959:90:1	
486	2	20	06:28:13.000		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 3449.87 +/- 1	2R7	4	0	6,392,959:90:1	
487	2	20	06:28:13.600	117DM105A106A4A	7STRP	0.05656,-0.0011,	Slew =,0.76	2R7	4	0	6,392,960:00:0	
488	2	20	06:28:14.933	33JNGLOBAL03-	NIMPBK	301DJ	JUPITER GLOBAL OBSERVATION	2R7	4	0	: :	
489	2	20	06:30:02.933	117DM105A106A4B	7STRP	-0.056059,-0.006	Slew =12.01	2R7	4	0	6,392,961:73:0	
490	2	20	06:30:20.266	117DM105A106A4C	7STRP	0.05656,-0.0011,	Slew =,0.76	2R7	4	0	6,392,962:08:0	
491	2	20	06:32:09.600	117DM105A106A4D	7STRP	-0.056059,-0.006	Slew =12.01	2R7	4	0	6,392,963:81:0	
492	2	20	06:32:26.933	117DM105A106A4E	7STRP	0.05656,-0.0011,	Slew =,0.76	2R7	4	0	6,392,964:16:0	
493	2	20	06:34:16.266	117DM105A106A4F	7STRP	-0.056059,-0.006	Slew =12.01	2R7	4	0	6,392,965:89:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
494	2	20	06:34:33.600	117DM105A106A4G	7STRP	0.05656,-0.0011,	Slew =,0.76	2R7	4	0	6,392,966:24:0
495	2	20	06:36:22.933	117DM105A106B4A	7STRP	-0.055557,-0.006	Slew =12.01	2R7	4	0	6,392,968:06:0
496	2	20	06:36:40.266	117DM105A106B4B	7STRP	0.056059,-0.0011	Slew =,0.76	2R7	4	0	6,392,968:32:0
497	2	20	06:39:22.933	117DM105A106B4C	7STRP	-0.055557,-0.006	Slew =12.01	2R7	4	0	6,392,971:03:0
498	2	20	06:39:40.266	117DM105A106B4D	7STRP	0.056059,-0.0011	Slew =,0.76	2R7	4	0	6,392,971:29:0
499	2	20	06:42:22.933	117DM105A106C4A	7STRP	-0.052548,-0.006	Slew =12.01	2R7	4	0	6,392,974:00:0
500	2	20	06:42:44.266	117DM105A106C4B	7STRP	0.048037,-0.0011	Slew =,0.76	2R7	4	0	6,392,974:32:0
501	2	20	06:45:22.933	117DM11A	**CSMOS**	GE	***** GROUP END CSMOS	2R7	4	0	6,392,976:88:0
502	**2**	**20**	**06:45:24.933**	**33JNGLOBAL03-**	**DESELC**	**300DJ**	**JUPITER GLOBAL OBSERVATION**	**2R7**	**4**	**0**	**: :**
503	2	20	06:45:24.933		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *3691.73 +/- 1	2R7	4	0	6,392,977:00:0
504	2	20	06:45:24.933	175DJ6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R7	4	0	6,392,977:00:0
505	2	20	06:45:24.933	175DJ422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R7	4	0	6,392,977:00:0
506	2	20	06:45:26.133		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *3691.79 +/- 1	2R7	4	0	6,392,977:01:8
507	**2**	**20**	**06:48:42.366**	**33JNGLOBAL03-**		**-----STOP-------**		**2R7**	**4**	**0**	**: :**
508	2	20	07:00:04.266	20WE4A	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	2R7	4	0	6,392,991:45:0
509	**2**	**20**	**08:27:06.833**	**33NNRELOAD01-**		**-----START------**		**2R7**	**4**	**0**	**: :**
510	**2**	**20**	**08:27:12.266**	**20FN5A**	**37PL**		**Program Load (halts microprocessor & unwri**		**4**	**0**	**6,393,077:61:0**
511	**2**	**20**	**08:27:15.600**	**20FN5B**	**37MRL**		**Memory Realocate (software operates from R**		**4**	**0**	**6,393,077:66:0**
512	**2**	**20**	**08:27:18.933**	**20FN6A**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**		**4**	**0**	**6,393,077:71:0**
513	**2**	**20**	**08:27:28.933**	**20FN6B**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**		**4**	**0**	**6,393,077:86:0**
514	**2**	**20**	**08:27:42.933**	**20FN5C**	**37IRT**		**Instrument Reset (goes into POR state)**		**4**	**0**	**6,393,078:16:0**
515	**2**	**20**	**08:27:46.266**	**20FN5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**6,393,078:21:0**
516	**2**	**20**	**08:28:26.266**	**20FN4A**	**37IST**	**1,2,0,OFF,0,1,0**	**Chopper ON, Sync, Chopper (Ref)Gain State**	**2R0**	**4**	**0**	**6,393,078:81:0**
517	**2**	**20**	**08:29:28.933**	**127FN4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**6,393,079:84:0**
518	2	20	08:29:28.933	127FN	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	6,393,079:84:0
519	**2**	**20**	**08:29:29.600**	**127FN4B**	**37ETB**	**04,C4,35,FF,FF**	**Loads wavelength edit table**	**2R3**	**4**	**0**	**6,393,079:85:0**
520	2	20	08:29:37.600	127FN11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	6,393,080:06:0
521	**2**	**20**	**08:31:07.033**	**33NNRELOAD01-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**
522	**2**	**20**	**08:34:32.166**	**33NNCHOPOF01-**		**-----START------**		**2R3**	**4**	**0**	**: :**
523	**2**	**20**	**08:34:32.266**	**127FO4A**	**37IOP**	**0,0**	**Safe, Grating Start Position =00**	**2R0**	**4**	**0**	**6,393,084:84:0**
524	2	20	08:34:32.266	127FO	NIMSTAB	GS	%%%%% GROUP START TAB	2R0	4	0	6,393,084:84:0
525	**2**	**20**	**08:34:32.933**	**127FO4B**	**37ETB**	**04,C4,02,00,00**	**Loads wavelength edit table**	**2R0**	**4**	**0**	**6,393,084:85:0**
526	2	20	08:34:40.933	127FO11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R0	4	0	6,393,085:06:0
527	2	20	08:37:34.266	125FN	NIMSINIT	GS	##### GROUP START INIT	2R0	4	0	6,393,087:84:0
528	**2**	**20**	**08:37:34.266**	**125FN4A**	**37IST**	**1,0,0,OFF,0,0,0**	**Chopper ON, Sync, 63Hz (Ref)**	**260**	**4**	**0**	**6,393,087:84:0**
529	**2**	**20**	**08:38:34.933**	**125FN4B**	**37IST**	**1,1,0,OFF,0,0,0**	**Chopper OFF, N/A, 63Hz (Ref)**	**2O0**	**4**	**0**	**6,393,088:84:0**
530	2	20	08:39:35.600	125FN11A	NIMSINIT	GE	##### GROUP END INIT	2O0	4	0	6,393,089:84:0
531	**2**	**20**	**08:39:35.600**	**125FN4C**	**37MB**	**0,0,0,0,0,0**	**Selects mirror (spatial) edit table**	**2O0**	**4**	**0**	**6,393,089:84:0**
532	**2**	**20**	**08:39:35.700**	**33NNCHOPOF01-**		**-----STOP-------**		**2O0**	**4**	**0**	**: :**
533	2	20	11:03:14.933		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 3691.79 +/- 1	2O0	4	0	6,393,232:00:0
534	2	20	11:03:14.933	411JB6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2O0	4	0	6,393,232:00:0
535	2	20	11:03:21.600		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 3691.79 +/- 1	2O0	4	0	6,393,232:10:0
536	2	20	11:03:23.000		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 3691.91 +/- 1	2O0	4	0	6,393,232:12:1
537	2	20	11:03:23.000		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *3691.91 +/- 1	2O0	4	0	6,393,232:12:1
538	2	20	11:03:24.933	411JB6B	6TMREC	**BDT**	7.68 KBPS BUFFER DUMP TO TAPE Record Mode	2O0	4	0	6,393,232:15:0
539	2	20	11:05:26.266	411JB6C	6TMREC	**NRC**	NO RECORD Record Mode Change	2O0	4	0	6,393,234:15:0
540	2	20	11:05:26.933	411JB6D	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	6,393,234:16:0
541	2	20	11:05:26.933		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *3720.96 +/- 1	2O0	4	0	6,393,234:16:0
542	2	20	11:05:28.133		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *3721.02 +/- 1	2O0	4	0	6,393,234:17:8
543	2	20	18:23:04.933	411JC6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2O0	4	0	6,393,667:00:0
544	2	20	18:23:04.933		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 3721.02 +/- 1	2O0	4	0	6,393,667:00:0
545	2	20	18:23:11.600		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 3721.02 +/- 1	2O0	4	0	6,393,667:10:0
546	2	20	18:23:13.000		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 3721.14 +/- 1	2O0	4	0	6,393,667:12:1
547	2	20	18:23:13.000		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *3721.14 +/- 1	2O0	4	0	6,393,667:12:1
548	2	20	18:23:14.933	411JC6B	6TMREC	**BDT**	7.68 KBPS BUFFER DUMP TO TAPE Record Mode	2O0	4	0	6,393,667:15:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
549	**2**	**20**	**18:24:05.600**	**432SB6A**	**6RTSL2**	**NIMNCG,AACNCG,RT**	**R/T ENG SELECT**	**2O0**	**4**	**0**	**6,393,668:00:0**
550	2	20	18:25:16.266	411JC6C	6TMREC	**NRC**	NO RECORD Record Mode Change	2O0	4	0	6,393,669:15:0
551	2	20	18:25:16.933	411JC6D	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	6,393,669:16:0
552	2	20	18:25:16.933		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *3750.18 +/- 1	2O0	4	0	6,393,669:16:0
553	2	20	18:25:18.133		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *3750.24 +/- 1	2O0	4	0	6,393,669:17:8
554	2	20	18:53:08.933	20II6B	6MCOPY	HLM1A,E700,B1A1A	HLM1A,E700,B1A1A,5D2F,5DC	2O0	4	0	6,393,696:67:0
555	2	20	19:05:32.266	165IO4A	7SCAN	NORM,112.32,22.6	Check S/P Position	2O0	4	0	6,393,708:90:0
556	2	20	19:09:28.266	175IO422A6A	6DMSC	R115,1	DMS Control	2O0	4	0	6,393,712:80:0
557	2	20	19:09:28.266		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 3750.24 +/- 1	2O0	4	0	6,393,712:80:0
558	2	20	19:09:34.266	165IO4B	7VECT		Inert vect update UTC	2O0	4	0	6,393,712:89:0
559	2	20	19:09:34.933		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 3750.24 +/- 1	2O0	4	0	6,393,712:90:0
560	2	20	19:09:38.266	175IO176A6A	6TMREC	**HMA**	115.2 KBPS IMAGE(1-400)RECORD Record Mode	2O0	4	0	6,393,713:04:0
561	2	20	19:09:38.933		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *3756.54 +/- 1	2O0	4	0	6,393,713:05:0
562	2	20	19:09:38.933		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 3756.54 +/- 1	2O0	4	0	6,393,713:05:0
563	2	20	19:10:06.266		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *3852.64 +/- 1	2O0	4	0	6,393,713:46:0
564	2	20	19:10:06.266	175IO422A6B	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	6,393,713:46:0
565	2	20	19:10:07.466		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *3853.64 +/- 1	2O0	4	0	6,393,713:47:8
566	2	20	19:23:28.933	20IJ6B	6MCOPY	HLM1A,E700,B1A1A	HLM1A,E700,B1A1A,5D2F,5DC	2O0	4	0	6,393,726:67:0
567	2	20	19:34:51.600	165IP4A	7SCAN	NORM,112.436999,	Check S/P Position	2O0	4	0	6,393,737:90:0
568	2	20	19:38:47.600		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 3853.64 +/- 1	2O0	4	0	6,393,741:80:0
569	2	20	19:38:47.600	175IP422A6A	6DMSC	R115,1	DMS Control	2O0	4	0	6,393,741:80:0
570	2	20	19:38:53.600	165IP4B	7VECT		Inert vect update UTC	2O0	4	0	6,393,741:89:0
571	2	20	19:38:54.266		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 3853.64 +/- 1	2O0	4	0	6,393,741:90:0
572	2	20	19:38:57.600	175IP176A6A	6TMREC	**HMA**	115.2 KBPS IMAGE(1-400)RECORD Record Mode	2O0	4	0	6,393,742:04:0
573	2	20	19:38:58.266		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *3859.94 +/- 1	2O0	4	0	6,393,742:05:0
574	2	20	19:38:58.266		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 3859.94 +/- 1	2O0	4	0	6,393,742:05:0
575	2	20	19:39:25.600		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *3956.03 +/- 1	2O0	4	0	6,393,742:46:0
576	2	20	19:39:25.600	175IP422A6B	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	6,393,742:46:0
577	2	20	19:39:26.800		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *3957.03 +/- 1	2O0	4	0	6,393,742:47:8
578	2	20	19:52:48.266	20IK6B	6MCOPY	HLM1A,E700,B1A1A	HLM1A,E700,B1A1A,5D2F,5DC	2O0	4	0	6,393,755:67:0
579	2	20	20:04:10.933	165IQ4A	7SCAN	NORM,112.552999,	Check S/P Position	2O0	4	0	6,393,766:90:0
580	2	20	20:08:06.933	175IQ422A6A	6DMSC	R115,1	DMS Control	2O0	4	0	6,393,770:80:0
581	2	20	20:08:06.933		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 3957.03 +/- 1	2O0	4	0	6,393,770:80:0
582	2	20	20:08:12.933	165IQ4B	7VECT		Inert vect update UTC	2O0	4	0	6,393,770:89:0
583	2	20	20:08:13.600		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 3957.03 +/- 1	2O0	4	0	6,393,770:90:0
584	2	20	20:08:16.933	175IQ176A6A	6TMREC	**HMA**	115.2 KBPS IMAGE(1-400)RECORD Record Mode	2O0	4	0	6,393,771:04:0
585	2	20	20:08:17.600		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *3963.33 +/- 1	2O0	4	0	6,393,771:05:0
586	2	20	20:08:17.600		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 3963.33 +/- 1	2O0	4	0	6,393,771:05:0
587	2	20	20:08:44.933	175IQ422A6B	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	6,393,771:46:0
588	2	20	20:08:44.933		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *4059.42 +/- 1	2O0	4	0	6,393,771:46:0
589	2	20	20:08:46.133		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *4060.42 +/- 1	2O0	4	0	6,393,771:47:8
590	2	20	20:25:09.600	20IL6B	6MCOPY	HLM1A,E700,B1A1A	HLM1A,E700,B1A1A,5D2F,5DC	2O0	4	0	6,393,787:67:0
591	2	20	20:36:32.266	165IR4A	7SCAN	NORM,111.511,22.	Check S/P Position	2O0	4	0	6,393,798:90:0
592	2	20	20:40:28.266	175IR422A6A	6DMSC	R115,1	DMS Control	2O0	4	0	6,393,802:80:0
593	2	20	20:40:28.266		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 4060.42 +/- 1	2O0	4	0	6,393,802:80:0
594	2	20	20:40:34.266	165IR4B	7VECT		Inert vect update UTC	2O0	4	0	6,393,802:89:0
595	2	20	20:40:34.933		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 4060.42 +/- 1	2O0	4	0	6,393,802:90:0
596	2	20	20:40:38.266	175IR176A6A	6TMREC	**HMA**	115.2 KBPS IMAGE(1-400)RECORD Record Mode	2O0	4	0	6,393,803:04:0
597	2	20	20:40:38.933		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 4066.72 +/- 1	2O0	4	0	6,393,803:05:0
598	2	20	20:40:38.933		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *4066.72 +/- 1	2O0	4	0	6,393,803:05:0
599	2	20	20:41:06.266	175IR422A6B	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	6,393,803:46:0
600	2	20	20:41:06.266		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *4162.82 +/- 1	2O0	4	0	6,393,803:46:0
601	2	20	20:41:07.466		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *4163.82 +/- 1	2O0	4	0	6,393,803:47:8
602	2	20	20:54:28.933	20IM6B	6MCOPY	HLM1A,E700,B1A1A	HLM1A,E700,B1A1A,5D2F,5DC	2O0	4	0	6,393,816:67:0
603	2	20	21:05:51.600	165IS4A	7SCAN	NORM,111.625,22.	Check S/P Position	2O0	4	0	6,393,827:90:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
604	2	20	21:09:47.600	175IS422A6A	6DMSC	R115,1	DMS Control	2O0	4	0	6,393,831:80:0
605	2	20	21:09:47.600		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 4163.82 +/- 1	2O0	4	0	6,393,831:80:0
606	2	20	21:09:53.600	165IS4B	7VECT		Inert vect update UTC	2O0	4	0	6,393,831:89:0
607	2	20	21:09:54.266		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 4163.82 +/- 1	2O0	4	0	6,393,831:90:0
608	2	20	21:09:57.600	175IS176A6A	6TMREC	**HMA**	115.2 KBPS IMAGE(1-400)RECORD Record Mode	2O0	4	0	6,393,832:04:0
609	2	20	21:09:58.266		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 4170.12 +/- 1	2O0	4	0	6,393,832:05:0
610	2	20	21:09:58.266		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *4170.12 +/- 1	2O0	4	0	6,393,832:05:0
611	2	20	21:10:25.600		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *4266.21 +/- 1	2O0	4	0	6,393,832:46:0
612	2	20	21:10:25.600	175IS422A6B	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	6,393,832:46:0
613	2	20	21:10:26.800		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *4267.21 +/- 1	2O0	4	0	6,393,832:47:8
614	2	20	21:23:48.266	20IN6B	6MCOPY	HLM1A,E700,B1A1A	HLM1A,E700,B1A1A,5D2F,5DC	2O0	4	0	6,393,845:67:0
615	2	20	21:35:10.933	165IT4A	7SCAN	NORM,111.738999,	Check S/P Position	2O0	4	0	6,393,856:90:0
616	2	20	21:39:06.933		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 4267.21 +/- 1	2O0	4	0	6,393,860:80:0
617	2	20	21:39:06.933	175IT422A6A	6DMSC	R115,1	DMS Control	2O0	4	0	6,393,860:80:0
618	2	20	21:39:12.933	165IT4B	7VECT		Inert vect update UTC	2O0	4	0	6,393,860:89:0
619	2	20	21:39:13.600		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 4267.21 +/- 1	2O0	4	0	6,393,860:90:0
620	2	20	21:39:16.933	175IT176A6A	6TMREC	**HMA**	115.2 KBPS IMAGE(1-400)RECORD Record Mode	2O0	4	0	6,393,861:04:0
621	2	20	21:39:17.600		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 4273.51 +/- 1	2O0	4	0	6,393,861:05:0
622	2	20	21:39:17.600		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *4273.51 +/- 1	2O0	4	0	6,393,861:05:0
623	2	20	21:39:44.933	175IT422A6B	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	6,393,861:46:0
624	2	20	21:39:44.933		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *4369.61 +/- 1	2O0	4	0	6,393,861:46:0
625	2	20	21:39:46.133		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *4370.61 +/- 1	2O0	4	0	6,393,861:47:8
626	2	20	21:54:24.266	465KG6A	6DMSC	RDY,1	DMS Control Tape stop	2O0	4	0	6,393,876:00:0
627	2	20	21:56:09.600	20IO6B	6MCOPY	HLM1A,E700,B1A1A	HLM1A,E700,B1A1A,5D2F,5DC	2O0	4	0	6,393,877:67:0
628	2	20	22:07:32.266	165IU4A	7SCAN	NORM,110.759999,	Check S/P Position	2O0	4	0	6,393,888:90:0
629	2	20	22:11:28.266		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 4370.61 +/- 1	2O0	4	0	6,393,892:80:0
630	2	20	22:11:28.266	175IU422A6A	6DMSC	R115,1	DMS Control	2O0	4	0	6,393,892:80:0
631	2	20	22:11:34.266	165IU4B	7VECT		Inert vect update UTC	2O0	4	0	6,393,892:89:0
632	2	20	22:11:34.933		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 4370.61 +/- 1	2O0	4	0	6,393,892:90:0
633	2	20	22:11:38.266	175IU176A6A	6TMREC	**HMA**	115.2 KBPS IMAGE(1-400)RECORD Record Mode	2O0	4	0	6,393,893:04:0
634	2	20	22:11:38.933		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *4376.91 +/- 1	2O0	4	0	6,393,893:05:0
635	2	20	22:11:38.933		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 4376.91 +/- 1	2O0	4	0	6,393,893:05:0
636	2	20	22:12:04.933		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *4468.31 +/- 1	2O0	4	0	6,393,893:44:0
637	2	20	22:12:04.933	175IU422A6B	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	6,393,893:44:0
638	2	20	22:12:06.133		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *4469.31 +/- 1	2O0	4	0	6,393,893:45:8
639	2	20	22:25:28.933	20IP6B	6MCOPY	HLM1A,E700,B1A1A	HLM1A,E700,B1A1A,5D2F,5DC	2O0	4	0	6,393,906:67:0
640	2	20	22:36:51.600	165IV4A	7SCAN	NORM,110.870999,	Check S/P Position	2O0	4	0	6,393,917:90:0
641	2	20	22:40:47.600	175IV422A6A	6DMSC	R115,1	DMS Control	2O0	4	0	6,393,921:80:0
642	2	20	22:40:47.600		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 4469.31 +/- 1	2O0	4	0	6,393,921:80:0
643	2	20	22:40:53.600	165IV4B	7VECT		Inert vect update UTC	2O0	4	0	6,393,921:89:0
644	2	20	22:40:54.266		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 4469.31 +/- 1	2O0	4	0	6,393,921:90:0
645	2	20	22:40:57.600	175IV176A6A	6TMREC	**HMA**	115.2 KBPS IMAGE(1-400)RECORD Record Mode	2O0	4	0	6,393,922:04:0
646	2	20	22:40:58.266		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *4475.61 +/- 1	2O0	4	0	6,393,922:05:0
647	2	20	22:40:58.266		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 4475.61 +/- 1	2O0	4	0	6,393,922:05:0
648	2	20	22:41:24.266		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *4567.02 +/- 1	2O0	4	0	6,393,922:44:0
649	2	20	22:41:24.266	175IV422A6B	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	6,393,922:44:0
650	2	20	22:41:25.466		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *4568.02 +/- 1	2O0	4	0	6,393,922:45:8
651	2	20	22:54:48.266	20IQ6B	6MCOPY	HLM1A,E700,B1A1A	HLM1A,E700,B1A1A,5D2F,5DC	2O0	4	0	6,393,935:67:0
652	2	20	23:06:10.933	165IW4A	7SCAN	NORM,110.981999,	Check S/P Position	2O0	4	0	6,393,946:90:0
653	2	20	23:10:06.933	175IW422A6A	6DMSC	R115,1	DMS Control	2O0	4	0	6,393,950:80:0
654	2	20	23:10:06.933		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 4568.02 +/- 1	2O0	4	0	6,393,950:80:0
655	2	20	23:10:12.933	165IW4B	7VECT		Inert vect update UTC	2O0	4	0	6,393,950:89:0
656	2	20	23:10:13.600		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 4568.02 +/- 1	2O0	4	0	6,393,950:90:0
657	2	20	23:10:16.933	175IW176A6A	6TMREC	**HMA**	115.2 KBPS IMAGE(1-400)RECORD Record Mode	2O0	4	0	6,393,951:04:0
658	2	20	23:10:17.600		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 4574.32 +/- 2	2O0	4	0	6,393,951:05:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
659	2	20	23:10:17.600		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *4574.32 +/- 1	2O0	4	0	6,393,951:05:0
660	2	20	23:10:43.600		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *4665.72 +/- 2	2O0	4	0	6,393,951:44:0
661	2	20	23:10:43.600	175IW422A6B	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	6,393,951:44:0
662	2	20	23:10:44.800		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *4666.72 +/- 2	2O0	4	0	6,393,951:45:8
663	2	21	01:36:50.933		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 4666.72 +/- 2	2O0	4	0	6,394,096:00:0
664	2	21	01:36:50.933	411JD6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2O0	4	0	6,394,096:00:0
665	2	21	01:36:57.600		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 4666.72 +/- 2	2O0	4	0	6,394,096:10:0
666	2	21	01:36:59.000		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 4666.84 +/- 2	2O0	4	0	6,394,096:12:1
667	2	21	01:36:59.000		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *4666.84 +/- 2	2O0	4	0	6,394,096:12:1
668	2	21	01:37:00.933	411JD6B	6TMREC	**BDT**	7.68 KBPS BUFFER DUMP TO TAPE Record Mode	2O0	4	0	6,394,096:15:0
669	2	21	01:39:02.266	411JD6C	6TMREC	**NRC**	NO RECORD Record Mode Change	2O0	4	0	6,394,098:15:0
670	2	21	01:39:02.933	411JD6D	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	6,394,098:16:0
671	2	21	01:39:02.933		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *4695.89 +/- 2	2O0	4	0	6,394,098:16:0
672	2	21	01:39:04.133		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *4695.95 +/- 2	2O0	4	0	6,394,098:17:8
673	2	21	04:54:45.600	20IR6B	6MCOPY	HLM1A,E700,B1A1A	HLM1A,E700,B1A1A,5D2F,5DC	2O0	4	0	6,394,291:67:0
674	2	21	05:06:08.266	165IX4A	7SCAN	NORM,114.375,22.	Check S/P Position	2O0	4	0	6,394,302:90:0
675	2	21	05:10:04.266		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 4695.95 +/- 2	2O0	4	0	6,394,306:80:0
676	2	21	05:10:04.266	175IX422A6A	6DMSC	R115,1	DMS Control	2O0	4	0	6,394,306:80:0
677	2	21	05:10:10.266	165IX4B	7VECT		Inert vect update UTC	2O0	4	0	6,394,306:89:0
678	2	21	05:10:10.933		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 4695.95 +/- 2	2O0	4	0	6,394,306:90:0
679	2	21	05:10:14.266	175IX176A6A	6TMREC	**HMA**	115.2 KBPS IMAGE(1-400)RECORD Record Mode	2O0	4	0	6,394,307:04:0
680	2	21	05:10:14.933		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *4702.25 +/- 2	2O0	4	0	6,394,307:05:0
681	2	21	05:10:14.933		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 4702.25 +/- 2	2O0	4	0	6,394,307:05:0
682	2	21	05:10:40.266	175IX422A6B	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	6,394,307:43:0
683	2	21	05:10:40.266		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *4791.31 +/- 2	2O0	4	0	6,394,307:43:0
684	2	21	05:10:41.466		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *4792.31 +/- 2	2O0	4	0	6,394,307:44:8
685	2	21	05:24:04.933	20IS6B	6MCOPY	HLM1A,E700,B1A1A	HLM1A,E700,B1A1A,5D2F,5DC	2O0	4	0	6,394,320:67:0
686	2	21	05:35:27.600	165IY4A	7SCAN	NORM,114.473,22.	Check S/P Position	2O0	4	0	6,394,331:90:0
687	2	21	05:39:23.600		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 4792.31 +/- 2	2O0	4	0	6,394,335:80:0
688	2	21	05:39:23.600	175IY422A6A	6DMSC	R115,1	DMS Control	2O0	4	0	6,394,335:80:0
689	2	21	05:39:29.600	165IY4B	7VECT		Inert vect update UTC	2O0	4	0	6,394,335:89:0
690	2	21	05:39:30.266		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 4792.31 +/- 2	2O0	4	0	6,394,335:90:0
691	2	21	05:39:33.600	175IY176A6A	6TMREC	**HMA**	115.2 KBPS IMAGE(1-400)RECORD Record Mode	2O0	4	0	6,394,336:04:0
692	2	21	05:39:34.266		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 4798.61 +/- 2	2O0	4	0	6,394,336:05:0
693	2	21	05:39:34.266		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *4798.61 +/- 2	2O0	4	0	6,394,336:05:0
694	2	21	05:39:59.600	175IY422A6B	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	6,394,336:43:0
695	2	21	05:39:59.600		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *4887.68 +/- 2	2O0	4	0	6,394,336:43:0
696	2	21	05:40:00.800		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *4888.68 +/- 2	2O0	4	0	6,394,336:44:8
697	2	21	05:53:24.266	20IT6B	6MCOPY	HLM1A,E700,B1A1A	HLM1A,E700,B1A1A,5D2F,5DC	2O0	4	0	6,394,349:67:0
698	2	21	06:04:46.933	165IZ4A	7SCAN	NORM,114.570999,	Check S/P Position	2O0	4	0	6,394,360:90:0
699	2	21	06:08:42.933		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 4888.68 +/- 2	2O0	4	0	6,394,364:80:0
700	2	21	06:08:42.933	175IZ422A6A	6DMSC	R115,1	DMS Control	2O0	4	0	6,394,364:80:0
701	2	21	06:08:48.933	165IZ4B	7VECT		Inert vect update UTC	2O0	4	0	6,394,364:89:0
702	2	21	06:08:49.600		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 4888.68 +/- 2	2O0	4	0	6,394,364:90:0
703	2	21	06:08:52.933	175IZ176A6A	6TMREC	**HMA**	115.2 KBPS IMAGE(1-400)RECORD Record Mode	2O0	4	0	6,394,365:04:0
704	2	21	06:08:53.600		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 4894.98 +/- 2	2O0	4	0	6,394,365:05:0
705	2	21	06:08:53.600		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *4894.98 +/- 2	2O0	4	0	6,394,365:05:0
706	2	21	06:09:18.933		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *4984.04 +/- 2	2O0	4	0	6,394,365:43:0
707	2	21	06:09:18.933	175IZ422A6B	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	6,394,365:43:0
708	2	21	06:09:20.133		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *4985.04 +/- 2	2O0	4	0	6,394,365:44:8
709	2	21	06:25:45.600	20IU6B	6MCOPY	HLM1A,E700,B1A1A	HLM1A,E700,B1A1A,5D2F,5DC	2O0	4	0	6,394,381:67:0
710	2	21	06:37:08.266	165JA4A	7SCAN	NORM,113.665999,	Check S/P Position	2O0	4	0	6,394,392:90:0
711	2	21	06:41:04.266		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 4985.04 +/- 2	2O0	4	0	6,394,396:80:0
712	2	21	06:41:04.266	175JA422A6A	6DMSC	R115,1	DMS Control	2O0	4	0	6,394,396:80:0
713	2	21	06:41:10.266	165JA4B	7VECT		Inert vect update UTC	2O0	4	0	6,394,396:89:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
714	2	21	06:41:10.933		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 4985.04 +/- 2	2O0	4	0	6,394,396:90:0
715	2	21	06:41:14.266	175JA176A6A	6TMREC	**HMA**	115.2 KBPS IMAGE(1-400)RECORD Record Mode	2O0	4	0	6,394,397:04:0
716	2	21	06:41:14.933		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 4991.34 +/- 2	2O0	4	0	6,394,397:05:0
717	2	21	06:41:14.933		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *4991.34 +/- 2	2O0	4	0	6,394,397:05:0
718	2	21	06:41:41.600	175JA422A6B	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	6,394,397:45:0
719	2	21	06:41:41.600		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *5085.09 +/- 2	2O0	4	0	6,394,397:45:0
720	2	21	06:41:42.800		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *5086.09 +/- 2	2O0	4	0	6,394,397:46:8
721	2	21	06:42:04.933		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 5086.09 +/- 2	2O0	4	0	6,394,397:80:0
722	2	21	06:42:04.933	175JG422A6A	6DMSC	R115,1	DMS Control	2O0	4	0	6,394,397:80:0
723	2	21	06:42:11.600		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 5086.09 +/- 2	2O0	4	0	6,394,397:90:0
724	2	21	06:42:14.933	175JG176A6A	6TMREC	**HMA**	115.2 KBPS IMAGE(1-400)RECORD Record Mode	2O0	4	0	6,394,398:04:0
725	2	21	06:42:15.600		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *5092.39 +/- 2	2O0	4	0	6,394,398:05:0
726	2	21	06:42:15.600		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 5092.39 +/- 2	2O0	4	0	6,394,398:05:0
727	2	21	06:42:42.266	175JG422A6B	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	6,394,398:45:0
728	2	21	06:42:42.266		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *5186.14 +/- 2	2O0	4	0	6,394,398:45:0
729	2	21	06:42:43.466		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *5187.14 +/- 2	2O0	4	0	6,394,398:46:8
730	2	21	06:54:04.266	20IV6B	6MCOPY	HLM1A,E700,B1A1A	HLM1A,E700,B1A1A,5D2F,5DC	2O0	4	0	6,394,409:67:0
731	2	21	07:06:27.600	165JB4A	7SCAN	NORM,113.761999,	Check S/P Position	2O0	4	0	6,394,421:90:0
732	2	21	07:10:23.600	175JB422A6A	6DMSC	R115,1	DMS Control	2O0	4	0	6,394,425:80:0
733	2	21	07:10:23.600		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 5187.14 +/- 2	2O0	4	0	6,394,425:80:0
734	2	21	07:10:29.600	165JB4B	7VECT		Inert vect update UTC	2O0	4	0	6,394,425:89:0
735	2	21	07:10:30.266		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 5187.14 +/- 2	2O0	4	0	6,394,425:90:0
736	2	21	07:10:33.600	175JB176A6A	6TMREC	**HMA**	115.2 KBPS IMAGE(1-400)RECORD Record Mode	2O0	4	0	6,394,426:04:0
737	2	21	07:10:34.266		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 5193.44 +/- 2	2O0	4	0	6,394,426:05:0
738	2	21	07:10:34.266		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *5193.44 +/- 2	2O0	4	0	6,394,426:05:0
739	2	21	07:11:00.933	175JB422A6B	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	6,394,426:45:0
740	2	21	07:11:00.933		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *5287.19 +/- 2	2O0	4	0	6,394,426:45:0
741	2	21	07:11:02.133		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *5288.19 +/- 2	2O0	4	0	6,394,426:46:8
742	2	21	07:11:24.266		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 5288.19 +/- 2	2O0	4	0	6,394,426:80:0
743	2	21	07:11:24.266	175JH422A6A	6DMSC	R115,1	DMS Control	2O0	4	0	6,394,426:80:0
744	2	21	07:11:30.933		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 5288.19 +/- 2	2O0	4	0	6,394,426:90:0
745	2	21	07:11:34.266	175JH176A6A	6TMREC	**HMA**	115.2 KBPS IMAGE(1-400)RECORD Record Mode	2O0	4	0	6,394,427:04:0
746	2	21	07:11:34.933		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *5294.49 +/- 2	2O0	4	0	6,394,427:05:0
747	2	21	07:11:34.933		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 5294.49 +/- 2	2O0	4	0	6,394,427:05:0
748	2	21	07:12:01.600	175JH422A6B	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	6,394,427:45:0
749	2	21	07:12:01.600		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *5388.24 +/- 2	2O0	4	0	6,394,427:45:0
750	2	21	07:12:02.800		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *5389.24 +/- 2	2O0	4	0	6,394,427:46:8
751	2	21	07:23:23.600	20IW6B	6MCOPY	HLM1A,E700,B1A1A	HLM1A,E700,B1A1A,5D2F,5DC	2O0	4	0	6,394,438:67:0
752	2	21	07:35:46.933	165JC4A	7SCAN	NORM,113.856999,	Check S/P Position	2O0	4	0	6,394,450:90:0
753	2	21	07:39:42.933	175JC422A6A	6DMSC	R115,1	DMS Control	2O0	4	0	6,394,454:80:0
754	2	21	07:39:42.933		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 5389.24 +/- 2	2O0	4	0	6,394,454:80:0
755	2	21	07:39:48.933	165JC4B	7VECT		Inert vect update UTC	2O0	4	0	6,394,454:89:0
756	2	21	07:39:49.600		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 5389.24 +/- 2	2O0	4	0	6,394,454:90:0
757	2	21	07:39:52.933	175JC176A6A	6TMREC	**HMA**	115.2 KBPS IMAGE(1-400)RECORD Record Mode	2O0	4	0	6,394,455:04:0
758	2	21	07:39:53.600		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 5395.54 +/- 2	2O0	4	0	6,394,455:05:0
759	2	21	07:39:53.600		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *5395.54 +/- 2	2O0	4	0	6,394,455:05:0
760	2	21	07:40:19.600		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *5486.95 +/- 2	2O0	4	0	6,394,455:44:0
761	2	21	07:40:19.600	175JC422A6B	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	6,394,455:44:0
762	2	21	07:40:20.800		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *5487.95 +/- 2	2O0	4	0	6,394,455:45:8
763	2	21	07:40:43.600	175JI422A6A	6DMSC	R115,1	DMS Control	2O0	4	0	6,394,455:80:0
764	2	21	07:40:43.600		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 5487.95 +/- 2	2O0	4	0	6,394,455:80:0
765	2	21	07:40:50.266		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 5487.95 +/- 2	2O0	4	0	6,394,455:90:0
766	2	21	07:40:53.600	175JI176A6A	6TMREC	**HMA**	115.2 KBPS IMAGE(1-400)RECORD Record Mode	2O0	4	0	6,394,456:04:0
767	2	21	07:40:54.266		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 5494.25 +/- 2	2O0	4	0	6,394,456:05:0
768	2	21	07:40:54.266		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *5494.25 +/- 2	2O0	4	0	6,394,456:05:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
769	2	21	07:41:20.266	175JI422A6B	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	6,394,456:44:0
770	2	21	07:41:20.266		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *5585.65 +/- 2	2O0	4	0	6,394,456:44:0
771	2	21	07:41:21.466		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *5586.65 +/- 2	2O0	4	0	6,394,456:45:8
772	2	21	07:55:44.933	20IX6B	6MCOPY	HLM1A,E700,B1A1A	HLM1A,E700,B1A1A,5D2F,5DC	2O0	4	0	6,394,470:67:0
773	2	21	08:08:08.266	165JD4A	7SCAN	NORM,112.957,22.	Check S/P Position	2O0	4	0	6,394,482:90:0
774	2	21	08:12:04.266	175JD422A6A	6DMSC	R115,1	DMS Control	2O0	4	0	6,394,486:80:0
775	2	21	08:12:04.266		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 5586.65 +/- 2	2O0	4	0	6,394,486:80:0
776	2	21	08:12:10.266	165JD4B	7VECT		Inert vect update UTC	2O0	4	0	6,394,486:89:0
777	2	21	08:12:10.933		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 5586.65 +/- 2	2O0	4	0	6,394,486:90:0
778	2	21	08:12:14.266	175JD176A6A	6TMREC	**HMA**	115.2 KBPS IMAGE(1-400)RECORD Record Mode	2O0	4	0	6,394,487:04:0
779	2	21	08:12:14.933		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 5592.95 +/- 2	2O0	4	0	6,394,487:05:0
780	2	21	08:12:14.933		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *5592.95 +/- 2	2O0	4	0	6,394,487:05:0
781	2	21	08:12:40.266	175JD422A6B	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	6,394,487:43:0
782	2	21	08:12:40.266		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *5682.01 +/- 2	2O0	4	0	6,394,487:43:0
783	2	21	08:12:41.466		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *5683.01 +/- 2	2O0	4	0	6,394,487:44:8
784	2	21	08:26:04.933	20IY6B	6MCOPY	HLM1A,E700,B1A1A	HLM1A,E700,B1A1A,5D2F,5DC	2O0	4	0	6,394,500:67:0
785	2	21	08:37:27.600	165JE4A	7SCAN	NORM,113.049999,	Check S/P Position	2O0	4	0	6,394,511:90:0
786	2	21	08:41:23.600	175JE422A6A	6DMSC	R115,1	DMS Control	2O0	4	0	6,394,515:80:0
787	2	21	08:41:23.600		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 5683.01 +/- 2	2O0	4	0	6,394,515:80:0
788	2	21	08:41:29.600	165JE4B	7VECT		Inert vect update UTC	2O0	4	0	6,394,515:89:0
789	2	21	08:41:30.266		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 5683.01 +/- 2	2O0	4	0	6,394,515:90:0
790	2	21	08:41:33.600	175JE176A6A	6TMREC	**HMA**	115.2 KBPS IMAGE(1-400)RECORD Record Mode	2O0	4	0	6,394,516:04:0
791	2	21	08:41:34.266		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *5689.31 +/- 2	2O0	4	0	6,394,516:05:0
792	2	21	08:41:34.266		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 5689.31 +/- 2	2O0	4	0	6,394,516:05:0
793	2	21	08:41:59.600		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *5778.38 +/- 2	2O0	4	0	6,394,516:43:0
794	2	21	08:41:59.600	175JE422A6B	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	6,394,516:43:0
795	2	21	08:42:00.800		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *5779.38 +/- 2	2O0	4	0	6,394,516:44:8
796	2	21	08:48:19.600	488AV6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,394,522:67:0
797	2	21	08:55:24.266	20IZ6B	6MCOPY	HLM1A,E700,B1A1A	HLM1A,E700,B1A1A,5D2F,5DC	2O0	4	0	6,394,529:67:0
798	2	21	09:06:46.933	165JF4A	7SCAN	NORM,113.143,22.	Check S/P Position	2O0	4	0	6,394,540:90:0
799	2	21	09:10:42.933		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 5779.38 +/- 2	2O0	4	0	6,394,544:80:0
800	2	21	09:10:42.933	175JF422A6A	6DMSC	R115,1	DMS Control	2O0	4	0	6,394,544:80:0
801	2	21	09:10:48.933	165JF4B	7VECT		Inert vect update UTC	2O0	4	0	6,394,544:89:0
802	2	21	09:10:49.600		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 5779.38 +/- 2	2O0	4	0	6,394,544:90:0
803	2	21	09:10:52.933	175JF176A6A	6TMREC	**HMA**	115.2 KBPS IMAGE(1-400)RECORD Record Mode	2O0	4	0	6,394,545:04:0
804	2	21	09:10:53.600		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 5785.68 +/- 2	2O0	4	0	6,394,545:05:0
805	2	21	09:10:53.600		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *5785.68 +/- 2	2O0	4	0	6,394,545:05:0
806	2	21	09:11:18.933	175JF422A6B	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	6,394,545:43:0
807	2	21	09:11:18.933		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *5874.74 +/- 2	2O0	4	0	6,394,545:43:0
808	2	21	09:11:20.133		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *5875.74 +/- 2	2O0	4	0	6,394,545:44:8
809	2	21	09:15:44.933	175KA422A6A	6DMSC	R7,1	DMS Control Tape runup 7.68kbp	2O0	4	0	6,394,549:78:0
810	2	21	09:15:44.933		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 5875.74 +/- 2	2O0	4	0	6,394,549:78:0
811	2	21	09:15:51.600		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 5875.74 +/- 2	2O0	4	0	6,394,549:88:0
812	2	21	09:15:52.933	175KA176A6A	6TMREC	**LPW**	7.68 KBPS LOW RATE SCI PWS RECORD Record	2O0	4	0	6,394,549:90:0
813	2	21	09:15:53.000		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 5875.86 +/- 2	2O0	4	0	6,394,549:90:1
814	2	21	09:15:53.000		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *5875.86 +/- 2	2O0	4	0	6,394,549:90:1
815	2	21	09:16:00.266	175KA422A6B	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	6,394,550:10:0
816	2	21	09:16:00.266		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *5877.56 +/- 2	2O0	4	0	6,394,550:10:0
817	2	21	09:16:01.466		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *5877.62 +/- 2	2O0	4	0	6,394,550:11:8
818	2	21	09:17:01.600	20KB4B	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	2O0	4	0	6,394,551:11:0
819	2	21	09:59:41.533	488AV6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,394,593:29:0
820	2	21	10:28:47.533	488AV6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,394,622:09:0
821	**2**	**21**	**13:00:00.000**	**20A3FB**	**37F2PR**	**Final Condition**	**Shield Flash Heater OFF (primary relay)**	**2O0**	**4**	**0**	**6,394,771:58:7**
822	**2**	**21**	**13:00:00.000**	**20A3FA**	**37F1PR**	**Final Condition**	**Radiator Flash Heater OFF (primary relay)**	**2O0**	**4**	**0**	**6,394,771:58:7**
823	**2**	**21**	**13:00:00.000**	**20A3EZ**	**37C2PR**	**Final Condition**	**Optics Heater 2 OFF (primary relay)**	**2O0**	**4**	**0**	**6,394,771:58:7**

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
824	**2**	**21**	**13:00:00.000**	**20A3EY**	**37C1PR**	**Final Condition**	**Optics Heater 1 OFF (primary relay)**	**2O0**	**4**	**0**	**6,394,771:58:7**	
825	**2**	**21**	**13:00:00.000**	**20A3EX**	**37HR**	**Final Condition**	**Replacement Heaters OFF**	**2O0**	**4**	**0**	**6,394,771:58:7**	
826	**2**	**21**	**13:00:00.000**	**20A3FD**	**40HRPR**	**Final Condition**	**RCT Heater OFF (primary relay)**	**2O0**	**4**	**0**	**6,394,771:58:7**	
827	**2**	**21**	**13:00:00.000**	**20A3FE**	**40T1PR**	**Final Condition**	**PCT Heater 1 OFF (primary relay)**	**2O0**	**4**	**0**	**6,394,771:58:7**	
828	**2**	**21**	**13:00:00.000**	**20A3EW**	**37A**	**Final Condition**	**NIMS Power ON**	**2O0**	**4**	**0**	**6,394,771:58:7**	
829	**2**	**21**	**13:00:00.000**	**20A3FF**	**40T2R**	**Final Condition**	**PCT Heater 2 OFF**	**2O0**	**4**	**0**	**6,394,771:58:7**	
830	2	21	13:00:00.200		DMS:	: READY	RDY, TRACK 1, FWD, TIC 5877.62 +/- 2	2O0	4	0	6,394,771:59:0	

Sequence: I33BED + BEG + BCAL   Created: 03/12/02   Begin: 02-021/13:00:00   Finish: 02-092/03:00:00

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
1	2	21	13:00:00.000	20A3EW	37A	Initial Condition	NIMS Power ON	2O0	4	0	6,394,771:58:7
2	2	21	13:00:00.000	20A3EX	37HR	Initial Condition	Replacement Heaters OFF	2O0	4	0	6,394,771:58:7
3	2	21	13:00:00.000	20A3EY	37C1PR	Initial Condition	Optics Heater 1 OFF (primary relay)	2O0	4	0	6,394,771:58:7
4	2	21	13:00:00.000	20A3EZ	37C2PR	Initial Condition	Optics Heater 2 OFF (primary relay)	2O0	4	0	6,394,771:58:7
5	2	21	13:00:00.000	20A3FA	37F1PR	Initial Condition	Radiator Flash Heater OFF (primary relay)	2O0	4	0	6,394,771:58:7
6	2	21	13:00:00.000	20A3FB	37F2PR	Initial Condition	Shield Flash Heater OFF (primary relay)	2O0	4	0	6,394,771:58:7
7	2	21	13:00:00.000	20A3FD	40HRPR	Initial Condition	RCT Heater OFF (primary relay)	2O0	4	0	6,394,771:58:7
8	2	21	13:00:00.000	20A3FE	40T1PR	Initial Condition	PCT Heater 1 OFF (primary relay)	2O0	4	0	6,394,771:58:7
9	2	21	13:00:00.000	20A3FF	40T2R	Initial Condition	PCT Heater 2 OFF	2O0	4	0	6,394,771:58:7
10	2	21	13:00:00.200		DMS:	: READY	RDY, TRACK 1, FWD, TIC 1880.85 +/- 9	2O0	4	0	6,394,771:59:0
11	2	21	13:01:08.200	488AA6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,394,772:70:0
12	2	21	13:01:20.866	432JB6B	6RTDS2	NIMDSL,AACNCG,RT	NIMS R/T DESELECT	2O0	4	0	6,394,772:89:0
13	2	21	13:01:21.533	432JB431A6A	6RCDSL	DDSNCG,PLSDSL,EP	Record Deselect (DDS o	2O0	4	0	6,394,772:90:0
14	2	21	13:01:22.200	432JB6D	6RTSL2	NIMNCG,AACSEL,RT	AACS SELECT	2O0	4	0	6,394,773:00:0
15	2	21	13:01:22.200	432JB6C	6RTSL1		R/T Select of DDS and	2O0	4	0	6,394,773:00:0
16	2	21	13:30:50.866	432OT431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	2O0	4	0	6,394,802:14:0
17	2	21	13:30:51.533	432OT6A	6RTSL1		R/T Select of DDS and	2O0	4	0	6,394,802:15:0
18	2	21	15:17:40.200	488AA6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	6,394,907:73:0
19	2	21	15:26:26.200	488AA6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	6,394,916:43:0
20	2	21	16:15:05.533	488AB6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	6,394,964:54:0
21	2	21	16:25:56.200	488AB6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,394,975:29:0
22	2	21	16:39:41.533	488AB6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,394,988:84:0
23	2	21	17:08:47.533	488AB6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,395,017:64:0
24	2	21	17:24:41.533	488AB6E	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,395,033:39:0
25	2	21	17:53:47.533	488AC6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,395,062:19:0
26	2	21	19:40:04.200	488AC6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,395,167:29:0
27	2	21	19:53:00.200	488AC6C	6TMSED	NORM,AH6	Sci, Eng, and D/L Chan	2O0	4	0	6,395,180:10:0
28	2	22	00:23:48.200	488AD6A	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	2O0	4	0	6,395,447:85:0
29	2	22	01:00:00.200	481UA4A	7VECT		Inert vect update UTC	2O0	4	0	6,395,483:67:0
30	2	22	01:01:00.200	488AD6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,395,484:66:0
31	2	22	01:15:00.200	488AD6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,395,498:52:0
32	2	22	01:36:05.533	488AD6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,395,519:39:0
33	2	22	02:07:55.533	488AD6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,395,550:83:0
34	2	22	03:02:00.200	20UU4B	7SLEW	DIS,POS,0.0	Stator movement	2O0	4	0	6,395,604:36:0
35	2	22	03:03:00.200	20UU4D	7MODE	SPNL	AACS ALL-SPIN LOW	2O0	4	0	6,395,605:35:0
36	2	22	03:05:00.200	20UU4E	7SAFE	UNSTOW	S/P TO 153 deg cone	2O0	4	0	6,395,607:33:0
37	2	22	03:10:30.200	20UU4G	7VENT	0.611,1.333,8	ALERT -- Thruster fire	2O0	4	0	6,395,612:73:0
38	2	22	03:10:30.866	20UU4H	7VENT	0.611,10.989,8	ALERT -- Thruster fire	2O0	4	0	6,395,612:74:0
39	2	22	03:10:50.866	20UU4I	7VENT	0.611,1.333,6	ALERT -- Thruster fire	2O0	4	0	6,395,613:13:0
40	2	22	03:10:51.533	20UU4J	7VENT	0.611,10.989,6	ALERT -- Thruster fire	2O0	4	0	6,395,613:14:0
41	2	22	03:11:11.533	20UU4K	7VENT	0.611,1.333,4	ALERT -- Thruster fire	2O0	4	0	6,395,613:44:0
42	2	22	03:11:12.200	20UU4L	7VENT	0.611,0.666,5	ALERT -- Thruster fire	2O0	4	0	6,395,613:45:0
43	2	22	03:11:22.200	20UU4M	7VENT	0.611,1.333,4	ALERT -- Thruster fire	2O0	4	0	6,395,613:60:0
44	2	22	03:11:22.866	20UU4N	7VENT	0.611,0.666,5	ALERT -- Thruster fire	2O0	4	0	6,395,613:61:0
45	2	22	03:11:32.866	20UU4O	7VENT	1.211,1.333,10	ALERT -- Thruster fire	2O0	4	0	6,395,613:76:0
46	2	22	03:11:33.533	20UU4P	7VENT	1.211,0.666,12	ALERT -- Thruster fire	2O0	4	0	6,395,613:77:0
47	2	22	03:13:20.200	20UU4S	7VENT	0.611,1.333,7	ALERT -- Thruster fire	2O0	4	0	6,395,615:55:0
48	2	22	03:13:20.866	20UU4T	7VENT	0.611,10.989,7	ALERT -- Thruster fire	2O0	4	0	6,395,615:56:0
49	2	22	03:13:40.866	20UU4U	7VENT	0.611,1.333,1	ALERT -- Thruster fire	2O0	4	0	6,395,615:86:0
50	2	22	03:13:41.533	20UU4V	7VENT	0.611,10.989,1	ALERT -- Thruster fire	2O0	4	0	6,395,615:87:0
51	2	22	03:14:01.533	20UU4AC	7VENT	0.611,1.333,2	ALERT -- Thruster fire	2O0	4	0	6,395,616:26:0
52	2	22	03:14:02.200	20UU4AD	7VENT	0.611,0.666,3	ALERT -- Thruster fire	2O0	4	0	6,395,616:27:0
53	2	22	03:14:12.200	20UU4AE	7VENT	0.611,1.333,2	ALERT -- Thruster fire	2O0	4	0	6,395,616:42:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
54	2	22	03:14:12.866	20UU4AF	7VENT	0.611,0.666,3	ALERT -- Thruster fire	2O0	4	0	6,395,616:43:0
55	2	22	03:14:22.866	20UU4W	7VENT	1.211,1.333,9	ALERT -- Thruster fire	2O0	4	0	6,395,616:58:0
56	2	22	03:14:23.533	20UU4X	7VENT	1.211,0.666,11	ALERT -- Thruster fire	2O0	4	0	6,395,616:59:0
57	2	22	03:15:20.200	20UU4Z	**7MODE**	**CRU**	AACS CRUISE MODE	2O0	4	0	6,395,617:53:0
58	2	22	03:36:00.200	432OZ431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	2O0	4	0	6,395,638:02:0
59	2	22	03:36:00.866	432OZ6A	6RTSL1		R/T Select of DDS and	2O0	4	0	6,395,638:03:0
60	2	22	03:40:04.200	20UG4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	2O0	4	0	6,395,642:04:0
61	2	22	03:40:54.200	20UG4B	7SLEW	DIS,POS,0.0	Stator movement	2O0	4	0	6,395,642:79:0
62	2	22	07:45:34.866	488AE6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,395,884:78:0
63	2	22	09:07:24.200	488AE6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,395,965:71:0
64	2	22	15:21:56.200	488AF6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,396,336:18:0
65	2	22	15:34:11.533	488AF6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,396,348:29:0
66	2	22	15:41:08.200	488AF6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,396,355:17:0
67	2	22	22:41:34.133	411JA6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2O0	4	0	6,396,771:00:0
68	2	22	22:41:34.133		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 1880.85 +/- 9	2O0	4	0	6,396,771:00:0
69	2	22	22:41:40.800		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 1880.85 +/- 9	2O0	4	0	6,396,771:10:0
70	2	22	22:41:42.200		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 1880.97 +/- 9	2O0	4	0	6,396,771:12:1
71	2	22	22:41:42.200		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *1880.97 +/- 9	2O0	4	0	6,396,771:12:1
72	2	22	22:41:44.133	411JA6B	6TMREC	**BDT**	7.68 KBPS BUFFER DUMP TO TAPE Record Mode	2O0	4	0	6,396,771:15:0
73	2	22	22:43:45.466	411JA6C	6TMREC	**NRC**	NO RECORD Record Mode Change	2O0	4	0	6,396,773:15:0
74	2	22	22:43:46.133		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *1910.02 +/- 9	2O0	4	0	6,396,773:16:0
75	2	22	22:43:46.133	411JA6D	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	6,396,773:16:0
76	2	22	22:43:47.333		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *1910.08 +/- 9	2O0	4	0	6,396,773:17:8
77	2	23	05:32:22.133	488AG6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,397,177:26:0
78	2	23	10:20:32.800	488AG6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,397,462:27:0
79	2	23	10:25:24.133	488AG6C	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	2O0	4	0	6,397,467:09:0
80	2	23	17:27:56.800	411JB6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2O0	4	0	6,397,885:00:0
81	2	23	17:27:56.800		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 1910.08 +/- 9	2O0	4	0	6,397,885:00:0
82	2	23	17:28:03.466		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 1910.08 +/- 9	2O0	4	0	6,397,885:10:0
83	2	23	17:28:04.866		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 1910.20 +/- 9	2O0	4	0	6,397,885:12:1
84	2	23	17:28:04.866		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *1910.20 +/- 9	2O0	4	0	6,397,885:12:1
85	2	23	17:28:06.800	411JB6B	6TMREC	**BDT**	7.68 KBPS BUFFER DUMP TO TAPE Record Mode	2O0	4	0	6,397,885:15:0
86	2	23	17:30:08.133	411JB6C	6TMREC	**NRC**	NO RECORD Record Mode Change	2O0	4	0	6,397,887:15:0
87	2	23	17:30:08.800		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *1939.25 +/- 9	2O0	4	0	6,397,887:16:0
88	2	23	17:30:08.800	411JB6D	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	6,397,887:16:0
89	2	23	17:30:10.000		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *1939.31 +/- 9	2O0	4	0	6,397,887:17:8
90	2	24	00:35:38.800		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 1939.31 +/- 9	2O0	4	0	6,398,308:00:0
91	2	24	00:35:38.800	411JC6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2O0	4	0	6,398,308:00:0
92	2	24	00:35:45.466		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 1939.31 +/- 9	2O0	4	0	6,398,308:10:0
93	2	24	00:35:46.866		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 1939.43 +/- 9	2O0	4	0	6,398,308:12:1
94	2	24	00:35:46.866		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *1939.43 +/- 9	2O0	4	0	6,398,308:12:1
95	2	24	00:35:48.800	411JC6B	6TMREC	**BDT**	7.68 KBPS BUFFER DUMP TO TAPE Record Mode	2O0	4	0	6,398,308:15:0
96	2	24	00:37:50.133	411JC6C	6TMREC	**NRC**	NO RECORD Record Mode Change	2O0	4	0	6,398,310:15:0
97	2	24	00:37:50.800	411JC6D	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	6,398,310:16:0
98	2	24	00:37:50.800		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *1968.47 +/- 9	2O0	4	0	6,398,310:16:0
99	2	24	00:37:52.000		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *1968.53 +/- 9	2O0	4	0	6,398,310:17:8
100	2	24	05:46:26.733	488AH6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	6,398,615:35:0
101	2	24	08:47:16.066	488AH6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,398,794:20:0
102	2	24	11:23:00.066	488AH6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,398,948:22:0
103	2	24	11:51:58.066	488AI6A	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,398,976:81:0
104	2	24	11:52:52.066	488AI6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	6,398,977:71:0
105	2	24	12:01:24.066	488AI6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,398,986:20:0
106	2	24	16:58:12.733	488AI6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,399,279:70:0
107	2	24	17:15:00.066	488AI6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,399,296:34:0
108	2	24	18:11:10.733	488AJ6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,399,351:85:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
109	2	24	18:38:00.066	488AJ6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,399,378:42:0
110	2	25	02:06:12.066	488AK6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	6,399,821:67:0
111	2	25	03:52:34.733	488AK6B	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	2O0	4	0	6,399,926:86:0
112	2	25	04:17:08.066	488AK6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	6,399,951:21:0
113	2	25	04:26:06.066	488AK6D	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	2O0	4	0	6,399,960:09:0
114	2	25	04:27:00.066	488AK6E	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,399,960:90:0
115	2	25	09:47:32.066		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 1968.53 +/- 9	2O0	4	0	6,400,278:00:0
116	2	25	09:47:32.066	411JD6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2O0	4	0	6,400,278:00:0
117	2	25	09:47:38.733		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 1968.53 +/- 9	2O0	4	0	6,400,278:10:0
118	2	25	09:47:40.133		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 1968.65 +/- 9	2O0	4	0	6,400,278:12:1
119	2	25	09:47:40.133		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *1968.65 +/- 9	2O0	4	0	6,400,278:12:1
120	2	25	09:47:42.066	411JD6B	6TMREC	**BDT**	7.68 KBPS BUFFER DUMP TO TAPE Record Mode	2O0	4	0	6,400,278:15:0
121	2	25	09:49:43.400	411JD6C	6TMREC	**NRC**	NO RECORD Record Mode Change	2O0	4	0	6,400,280:15:0
122	2	25	09:49:44.066	411JD6D	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	6,400,280:16:0
123	2	25	09:49:44.066		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *1997.70 +/- 9	2O0	4	0	6,400,280:16:0
124	2	25	09:49:45.266		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *1997.76 +/- 9	2O0	4	0	6,400,280:17:8
125	2	25	16:55:14.000	411JE6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2O0	4	0	6,400,701:00:0
126	2	25	16:55:14.000		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 1997.76 +/- 9	2O0	4	0	6,400,701:00:0
127	2	25	16:55:20.666		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 1997.76 +/- 9	2O0	4	0	6,400,701:10:0
128	2	25	16:55:22.066		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 1997.88 +/- 9	2O0	4	0	6,400,701:12:1
129	2	25	16:55:22.066		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *1997.88 +/- 9	2O0	4	0	6,400,701:12:1
130	2	25	16:55:24.000	411JE6B	6TMREC	**BDT**	7.68 KBPS BUFFER DUMP TO TAPE Record Mode	2O0	4	0	6,400,701:15:0
131	2	25	16:57:25.333	411JE6C	6TMREC	**NRC**	NO RECORD Record Mode Change	2O0	4	0	6,400,703:15:0
132	2	25	16:57:26.000		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *2026.93 +/- 9	2O0	4	0	6,400,703:16:0
133	2	25	16:57:26.000	411JE6D	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	6,400,703:16:0
134	2	25	16:57:27.200		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *2026.99 +/- 9	2O0	4	0	6,400,703:17:8
135	2	25	19:32:16.000	488AL6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,400,856:28:0
136	2	25	20:46:13.333	488AL6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,400,929:41:0
137	2	25	21:13:03.333	488AL6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,400,955:90:0
138	2	26	00:01:54.000	431ZL6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	2O0	4	0	6,401,122:89:0
139	2	26	00:01:55.333	432ZL6A	6RTSL1		R/T Select of DDS and	2O0	4	0	6,401,123:00:0
140	2	26	00:06:02.000	20ZM6A	6EUVON			2O0	4	0	6,401,127:06:0
141	2	26	00:06:58.666	431ZM6A	6RCSEL	DDSNCG,PLSNCG,EP	Record Select (DDS onl	2O0	4	0	6,401,128:00:0
142	2	26	02:42:28.000	488AM6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,401,281:71:0
143	2	26	04:03:32.000	488AM6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	6,401,361:87:0
144	2	26	04:20:36.000	488AM6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	6,401,378:76:0
145	2	26	04:22:38.000	488AM6D	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	2O0	4	0	6,401,380:77:0
146	2	26	04:47:10.666	488AM6E	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	6,401,405:11:0
147	2	26	09:08:36.000	488AN6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,401,663:61:0
148	2	26	09:20:25.333	488AN6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,401,675:33:0
149	2	26	16:27:45.333		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 2026.99 +/- 9	2O0	4	0	6,402,098:00:0
150	2	26	16:27:45.333	411JF6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2O0	4	0	6,402,098:00:0
151	2	26	16:27:52.000		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 2026.99 +/- 9	2O0	4	0	6,402,098:10:0
152	2	26	16:27:53.400		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 2027.11 +/- 9	2O0	4	0	6,402,098:12:1
153	2	26	16:27:53.400		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *2027.11 +/- 9	2O0	4	0	6,402,098:12:1
154	2	26	16:27:55.333	411JF6B	6TMREC	**BDT**	7.68 KBPS BUFFER DUMP TO TAPE Record Mode	2O0	4	0	6,402,098:15:0
155	2	26	16:29:56.666	411JF6C	6TMREC	**NRC**	NO RECORD Record Mode Change	2O0	4	0	6,402,100:15:0
156	2	26	16:29:57.333	411JF6D	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	6,402,100:16:0
157	2	26	16:29:57.333		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *2056.15 +/- 9	2O0	4	0	6,402,100:16:0
158	2	26	16:29:58.533		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *2056.21 +/- 9	2O0	4	0	6,402,100:17:8
159	2	26	22:17:13.333	488AO6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,402,443:57:0
160	2	27	03:37:55.933	488AO6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,402,760:74:0
161	2	27	04:07:47.933	488AO6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	6,402,790:32:0
162	2	27	09:08:35.933	488AP6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,403,087:77:0
163	2	27	11:12:19.933	488AP6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,403,210:20:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
164	2	27	11:13:58.600	488AP6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,403,211:77:0
165	2	27	11:20:51.933	488AP6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,403,218:60:0
166	2	27	21:42:09.933	488AQ6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,403,833:12:0
167	2	27	22:56:19.933	488AQ6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,403,906:44:0
168	2	27	23:23:09.266	488AQ6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,403,933:01:0
169	2	28	00:25:03.933	20UA4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	2O0	4	0	6,403,994:22:0
170	2	28	00:25:53.933	20UA4B	7SLEW	DIS,POS,0.0	Stator movement	2O0	4	0	6,403,995:06:0
171	2	28	00:29:52.600	176UA6A	6TMREC	**IPB**	INITIATE PLAYBACK (PB CONTROL) Record Mod	2O0	4	0	6,403,999:00:0
172	2	28	02:31:47.933	488AQ6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,404,119:53:0
173	2	28	03:52:51.933	488AR6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	6,404,199:69:0
174	2	28	03:56:09.933	488AR6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	6,404,203:02:0
175	2	28	04:05:39.933	488AR6C	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	2O0	4	0	6,404,212:38:0
176	2	28	04:11:15.933	488AR6D	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	6,404,217:87:0
177	2	28	04:12:43.933	488AR6E	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	2O0	4	0	6,404,219:37:0
178	2	28	04:37:16.600	488AS6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	6,404,243:62:0
179	2	28	09:02:11.933	488AS6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,404,505:63:0
180	2	28	10:40:18.600	488AT6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,404,602:66:0
181	2	28	21:32:07.200	488AU6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,405,247:34:0
182	2	28	22:46:23.866	488AU6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,405,320:76:0
183	2	28	23:13:13.200	488AU6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,405,347:33:0
184	2	29	02:27:31.866	488AU6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,405,539:49:0
185	2	29	02:48:14.533	488AU6E	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,405,560:02:0
186	2	29	02:53:07.866	488AV6A	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	2O0	4	0	6,405,564:78:0
187	2	29	07:45:05.866	488AV6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	2O0	4	0	6,405,853:56:0
188	2	29	07:49:39.866	488AV6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,405,858:12:0
189	2	29	08:45:01.200	488AV6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,405,912:80:0
190	2	29	09:10:43.866	488AW6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,405,938:28:0
191	2	29	09:13:21.866	488AW6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,405,940:83:0
192	2	29	11:52:59.866	488AW6C	6TMSED	NORM,AH6	Sci, Eng, and D/L Chan	2O0	4	0	6,406,098:72:0
193	2	29	11:56:14.533	176UQ6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	2O0	4	0	6,406,102:00:0
194	2	29	12:05:59.866	20RA4C	7STAT	5.00,275.58,-23.	Stator inertial point	2O0	4	0	6,406,111:59:0
195	2	29	12:06:11.866	20RA6D	6MROH	7,6744,0,A10	read from AACSA7,6744,0,A10	2O0	4	0	6,406,111:77:0
196	2	29	12:25:01.866	490UA412A4B	**7MODE**	**INT**	AACS INERTIAL MODE	2O0	4	0	6,406,130:43:0
197	2	29	12:29:59.866	490UA412A4D	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	2O0	4	0	6,406,135:35:0
198	2	29	12:30:19.866	20RA4D	7STAT	17.45,275.58,-23	Stator inertial point	2O0	4	0	6,406,135:65:0
199	2	29	12:34:09.866	490UA412A4E	7VECT		Inert vect update UTC	2O0	4	0	6,406,139:46:0
200	2	29	12:34:13.866	490UA412A4F	7TURN	2,RTH	ALERT Thruster	2O0	4	0	6,406,139:52:0
201	2	29	12:38:01.866	490UA412A406A4A	7STAR	1,1235,23.966,-5	Star catalog update	2O0	4	0	6,406,143:30:0
202	2	29	12:38:03.866	490UA412A406A4B	7STAR	2,333,138.16	Star catalog update	2O0	4	0	6,406,143:33:0
203	2	29	12:38:05.866	490UA412A406A4C	7STAR	3,110,186.82	Star catalog update	2O0	4	0	6,406,143:36:0
204	2	29	12:38:07.866	490UA412A406A4D	7STAR	4,185,345.57	Star catalog update	2O0	4	0	6,406,143:39:0
205	2	29	12:38:09.866	490UA412A406A4E	7STAR	5,0,0.0,0.0	Star catalog update	2O0	4	0	6,406,143:42:0
206	2	29	12:38:11.866	490UA412A406A4F	7STAR	6,0,0.0,0.0	Star catalog update	2O0	4	0	6,406,143:45:0
207	2	29	12:48:05.866	20RA4F	7SLEW	DIS,POS,0.0	Stator movement	2O0	4	0	6,406,153:26:0
208	2	29	12:56:09.866	490UA412A4G	**7MODE**	**CRU**	AACS CRUISE MODE	2O0	4	0	6,406,161:24:0
209	2	29	13:37:23.866	488AW6D	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	2O0	4	0	6,406,202:04:0
210	2	29	14:30:03.866	20UB4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	2O0	4	0	6,406,254:12:0
211	2	29	14:30:53.866	20UB4B	7SLEW	DIS,POS,0.0	Stator movement	2O0	4	0	6,406,254:87:0
212	2	29	14:30:59.866	488AW6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,406,255:05:0
213	2	29	14:32:57.866	176UB6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	2O0	4	0	6,406,257:00:0
214	2	29	15:02:43.866	488AX6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	6,406,286:40:0
215	2	29	15:11:05.200	488AX6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	6,406,294:64:0
216	2	29	15:19:47.866	488AX6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,406,303:29:0
217	2	29	20:47:03.200	488AX6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,406,626:89:0
218	2	30	02:55:13.800	488AY6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,406,991:10:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
219	2	30	02:59:31.800	488AY6B	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	2O0	4	0	6,406,995:33:0
220	2	30	04:31:09.133	488AY6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	6,407,085:89:0
221	2	30	08:47:15.800	488AY6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,407,339:25:0
222	2	30	09:45:12.466	488AZ6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,407,396:53:0
223	2	30	09:51:15.800	488AZ6B	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	2O0	4	0	6,407,402:52:0
224	2	30	11:41:07.800	488AZ6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	6,407,511:21:0
225	2	30	13:18:11.800	488AZ6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,407,607:21:0
226	2	30	14:58:27.800	488AZ6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,407,706:36:0
227	2	30	15:06:59.800	488BA6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	6,407,714:76:0
228	2	30	15:12:51.800	488BA6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	6,407,720:58:0
229	2	30	15:17:39.800	488BA6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	2O0	4	0	6,407,725:35:0
230	2	30	15:32:35.800	488BA6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,407,740:14:0
231	2	30	20:07:00.466	488BA6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,408,011:50:0
232	2	30	21:21:29.800	488BB6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,408,085:20:0
233	2	30	21:48:19.133	488BB6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,408,111:68:0
234	2	31	02:12:35.800	488BB6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,408,373:11:0
235	2	31	03:42:11.800	488BC6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	6,408,461:67:0
236	2	31	03:56:00.466	488BC6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	6,408,475:36:0
237	2	31	04:05:39.800	488BC6C	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	2O0	4	0	6,408,484:86:0
238	2	31	05:46:05.133	488BC6D	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	6,408,584:24:0
239	2	31	08:42:59.733	488BC6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,408,759:21:0
240	2	31	10:53:07.733	488BD6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,408,887:85:0
241	2	31	11:13:45.733	488BD6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,408,908:31:0
242	2	31	11:20:51.733	488BD6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,408,915:33:0
243	**2**	**31**	**12:59:33.733**	**432JF6B**	**6RTDS2**	**NIMNCG,AACDSL,RT**	**AACS DESELECT**	**2O0**	**4**	**0**	**6,409,012:89:0**
244	2	31	13:02:37.066	431MA6A	6RCSEL	DDSSEL,PLSNCG,EP	Record Select (DDS onl	2O0	4	0	6,409,016:00:0
245	2	32	00:26:56.400	488BE6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,409,692:73:0
246	2	32	01:14:59.733	488BE6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	6,409,740:30:0
247	2	32	08:32:19.733	488BF6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,410,172:78:0
248	2	32	08:45:04.400	488BF6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,410,185:42:0
249	2	32	08:49:23.733	488BF6C	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	2O0	4	0	6,410,189:67:0
250	2	32	10:11:01.066	488BF6D	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	6,410,270:42:0
251	**2**	**32**	**11:59:59.700**	**33NNRCTRLT01-**		**-----START------**		**2O0**	**4**	**0**	**: :**
252	2	32	12:10:52.400	176XU6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	2O0	4	0	6,410,389:00:0
253	2	32	12:14:09.066	20XE4A	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	2O0	4	0	6,410,392:22:0
254	2	32	12:18:15.733	20DA4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	2O0	4	0	6,410,396:28:0
255	2	32	12:19:05.733	20DA4B	7SLEW	DIS,POS,0.0	Stator movement	2O0	4	0	6,410,397:12:0
256	**2**	**32**	**12:21:59.733**	**185XE10A3A**	**40HRP**	**1**	**RCT Heater ON (primary relay)**	**2O0**	**4**	**0**	**6,410,400:00:0**
257	**2**	**32**	**12:22:05.066**	**185XE10B3A**	**40HRP**	**2**	**RCT Heater ON (primary relay)**	**2O0**	**4**	**0**	**6,410,400:08:0**
258	2	32	13:07:31.733	488BF6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,410,445:03:0
259	2	32	14:47:47.733	488BG6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,410,544:18:0
260	2	32	14:56:51.733	488BG6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,410,553:15:0
261	2	32	14:58:27.733	488BG6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	6,410,554:68:0
262	2	32	15:06:59.733	488BG6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,410,563:17:0
263	2	32	19:11:52.333	488BG6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,410,805:34:0
264	2	32	20:26:37.666	488BH6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,410,879:28:0
265	2	32	20:53:27.000	488BH6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,410,905:76:0
266	**2**	**33**	**00:13:45.666**	**20DC5A**	**37PL**		**Program Load (halts microprocessor & unwri**		**4**	**0**	**6,411,103:86:0**
267	**2**	**33**	**00:13:53.000**	**20DC5B**	**37MRL**		**Memory Realocate (software operates from R**		**4**	**0**	**6,411,104:06:0**
268	**2**	**33**	**00:14:01.000**	**20DC6A**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**		**4**	**0**	**6,411,104:18:0**
269	**2**	**33**	**00:14:11.000**	**20DC6B**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**		**4**	**0**	**6,411,104:33:0**
270	**2**	**33**	**00:14:21.000**	**20DC5C**	**37IRT**		**Instrument Reset (goes into POR state)**		**4**	**0**	**6,411,104:48:0**
271	**2**	**33**	**00:14:22.333**	**20DC5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**6,411,104:50:0**
272	2	33	00:16:46.333	125XE	NIMSINIT	GS	##### GROUP START INIT	260	4	0	6,411,106:84:0
273	**2**	**33**	**00:16:46.333**	**125XE4A**	**37IST**	**1,0,0,OFF,0,0,0**	**Chopper ON, Sync, 63Hz (Ref)**	**260**	**4**	**0**	**6,411,106:84:0**

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
274	2	33	00:17:47.000	125XE4B	37IST	1,2,0,OFF,0,0,0	Chopper ON, Sync, Chopper (Ref)	2R0	4	0	6,411,107:84:0
275	2	33	00:18:47.666	125XE4C	37IST	0,2,0,OFF,0,1,3	Gain State 1	1R0	4	0	6,411,108:84:0
276	2	33	00:19:48.333	125XE11A	NIMSINIT	GE	##### GROUP END INIT	1R0	4	0	6,411,109:84:0
277	2	33	00:19:48.333	125XE4D	37MB	1B,1B,0,0,0,0	Selects mirror (spatial) edit table	1R0	4	0	6,411,109:84:0
278	2	33	00:21:49.666	127XE	NIMSTAB	GS	%%%%% GROUP START TAB	1R0	4	0	6,411,111:84:0
279	2	33	00:21:49.666	127XE4A	37IOP	3,0	Long Map, Grating Start Position =00	1R3	4	0	6,411,111:84:0
280	2	33	00:21:50.333	127XE4B	37ETB	0A,CA,18,03,FF,1	Loads wavelength edit table	1R3	4	0	6,411,111:85:0
281	2	33	00:22:09.666	127XE11A	NIMSTAB	GE	%%%%% GROUP END TAB	1R3	4	0	6,411,112:23:0
282	2	33	00:27:35.000	185XE10C3A	40HRPR	1	RCT Heater OFF (primary relay)	1R3	4	0	6,411,117:56:0
283	2	33	00:27:40.333	185XE10D3A	40HRPR	2	RCT Heater OFF (primary relay)	1R3	4	0	6,411,117:64:0
284	2	33	00:32:01.000	192XE4A	7CONE	17.0,0.0	Check S/P Position	1R3	4	0	6,411,122:00:0
285	2	33	00:32:21.000	432XE6A	6RTSL2	NIMSEL,AACNCG,RT	NIMS R/T SELECT	1R3	4	0	6,411,122:30:0
286	2	33	00:40:25.000	432XF6A	6RTDS2	NIMDSL,AACNCG,RT	NIMS R/T DESELECT	1R3	4	0	6,411,130:28:0
287	2	33	00:44:09.000	192XE4B	7CONE	17.0,119.7	Check S/P Position	1R3	4	0	6,411,134:00:0
288	2	33	00:46:30.333	432XU6A	6RTSL2	NIMSEL,AACNCG,RT	NIMS R/T SELECT	1R3	4	0	6,411,136:30:0
289	2	33	00:48:30.333	432XV6A	6RTDS2	NIMDSL,AACNCG,RT	NIMS R/T DESELECT	1R3	4	0	6,411,138:28:0
290	2	33	00:50:13.000	192XE4C	7CONE	17.0,153.0	Check S/P Position	1R3	4	0	6,411,140:00:0
291	2	33	00:57:13.000	127XF4A	37IOP	0,0	Safe, Grating Start Position =00	1R0	4	0	6,411,146:84:0
292	2	33	00:57:13.000	127XF	NIMSTAB	GS	%%%%% GROUP START TAB	1R0	4	0	6,411,146:84:0
293	2	33	00:57:13.666	127XF4B	37ETB	04,C4,02,00,00	Loads wavelength edit table	1R0	4	0	6,411,146:85:0
294	2	33	00:57:33.000	127XF11A	NIMSTAB	GE	%%%%% GROUP END TAB	1R0	4	0	6,411,147:23:0
295	2	33	01:00:15.000	125XF4A	37MB	0,0,0,0,0,0	Selects mirror (spatial) edit table	1R0	4	0	6,411,149:84:0
296	2	33	01:00:15.000	125XF	NIMSINIT	GS	##### GROUP START INIT	1R0	4	0	6,411,149:84:0
297	2	33	01:01:15.666	125XF4B	37IST	1,0,0,OFF,0,0,0	Chopper ON, Sync, 63Hz (Ref)	160	4	0	6,411,150:84:0
298	2	33	01:02:16.333	125XF11A	NIMSINIT	GE	##### GROUP END INIT	160	4	0	6,411,151:84:0
299	2	33	01:02:16.333	125XF4C	37IST	1,1,0,OFF,0,0,0	Chopper OFF, N/A, 63Hz (Ref)	1O0	4	0	6,411,151:84:0
300	2	33	01:18:51.000	20DB4A	7SAFE	STOP	S/P NO MOVEMENT	1O0	4	0	6,411,168:29:0
301	2	33	01:19:41.000	20DB4B	7SLEW	DIS,POS,0.0	Stator movement	1O0	4	0	6,411,169:13:0
302	2	33	01:21:33.666	176XF6A	6TMREC	RPB	RESUME PLAYBACK (PB CONTROL) Record Mode	1O0	4	0	6,411,171:00:0
303	2	33	01:21:34.400	33NNRCTRLT01-		-----STOP-------		1O0	4	0	: :
304	2	33	02:01:55.666	488BH6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,411,210:84:0
305	2	33	03:31:31.666	488BI6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	6,411,299:49:0
306	2	33	03:40:52.333	488BI6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	1O0	4	0	6,411,308:71:0
307	2	33	03:50:43.666	488BI6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,411,318:48:0
308	2	33	20:51:48.333	488BJ6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,412,328:35:0
309	2	34	02:57:23.666	488BK6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,412,689:87:0
310	2	34	03:28:34.333	488BK6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,412,720:72:0
311	2	34	03:35:47.666	488BK6C	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	1O0	4	0	6,412,727:85:0
312	2	34	07:10:52.933	488BK6D	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	6,412,940:60:0
313	2	34	08:17:23.600	488BK6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,413,006:40:0
314	2	34	10:38:11.600	488BL6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,413,145:63:0
315	2	34	10:58:33.600	488BL6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,413,165:76:0
316	2	34	11:05:55.600	488BL6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,413,173:11:0
317	2	34	19:16:44.266	488BM6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,413,658:49:0
318	2	35	02:53:07.600	488BN6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,414,109:83:0
319	2	35	03:36:34.933	488BN6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,414,152:81:0
320	2	35	03:37:55.600	488BN6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	1O0	4	0	6,414,154:20:0
321	2	35	03:46:27.600	488BN6D	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	1O0	4	0	6,414,162:60:0
322	2	35	10:55:47.600	488BO6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	6,414,587:25:0
323	2	35	12:48:19.600	488BO6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,414,698:52:0
324	2	35	14:32:51.533	488BO6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,414,801:87:0
325	2	35	14:41:02.200	488BO6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,414,810:04:0
326	2	35	14:41:23.533	488BO6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	1O0	4	0	6,414,810:36:0
327	2	35	14:49:55.533	488BP6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,414,818:76:0
328	2	35	22:11:39.533	488BQ6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,415,255:65:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
329	2	36	01:41:51.533	488BQ6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,415,463:55:0	
330	2	36	02:08:41.533	488BQ6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,415,490:13:0	
331	2	36	09:42:43.533	488BR6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,415,939:17:0	
332	2	36	10:42:27.533	488BR6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	6,415,998:24:0	
333	2	36	11:53:16.866	488BR6C	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	1O0	4	0	6,416,068:28:0	
334	2	36	12:17:49.533	488BR6D	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	6,416,092:53:0	
335	2	36	12:37:39.533	488BR6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,416,112:18:0	
336	2	36	14:26:27.533	488BS6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,416,219:73:0	
337	2	36	14:38:23.533	488BS6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,416,231:55:0	
338	2	36	14:45:39.533	488BS6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,416,238:72:0	
339	2	36	19:36:35.533	488BS6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,416,526:48:0	
340	2	37	02:42:27.466	488BT6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,416,947:65:0	
341	2	37	02:53:21.466	488BT6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,416,958:45:0	
342	2	37	02:59:31.466	488BT6C	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	1O0	4	0	6,416,964:54:0	
343	2	37	05:45:40.133	488BT6D	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	6,417,128:83:0	
344	2	37	07:51:47.466	488BT6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,417,253:59:0	
345	2	37	10:21:07.466	488BU6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,417,401:31:0	
346	2	37	10:43:19.466	488BU6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,417,423:27:0	
347	2	37	10:50:59.466	488BU6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,417,430:80:0	
348	2	37	16:56:31.466	488BV6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,417,792:36:0	
349	2	37	18:11:59.466	488BV6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,417,867:03:0	
350	2	37	18:38:49.466	488BV6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,417,893:52:0	
351	2	38	01:27:47.466	488BW6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,418,298:04:0	
352	2	38	01:43:16.800	488BW6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,418,313:33:0	
353	2	38	01:49:07.466	488BW6C	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	1O0	4	0	6,418,319:13:0	
354	2	38	04:55:36.133	488BW6D	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	6,418,503:52:0	
355	2	38	07:41:07.466	488BX6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,418,667:25:0	
356	2	38	10:16:51.400	488BX6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,418,821:27:0	
357	2	38	10:18:14.733	488BX6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,418,822:61:0	
358	2	38	10:25:23.400	488BX6D	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	1O0	4	0	6,418,829:67:0	
359	2	38	10:40:34.066	488BX6E	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	6,418,844:68:0	
360	2	38	12:26:59.400	488BY6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,418,950:00:0	
361	2	38	14:17:55.400	488BY6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,419,059:65:0	
362	2	38	14:32:50.733	488BY6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,419,074:43:0	
363	2	38	14:32:51.400	488BY6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	1O0	4	0	6,419,074:44:0	
364	2	38	15:02:43.400	488BY6E	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,419,104:02:0	
365	2	38	22:26:25.400	488BZ6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,419,542:77:0	
366	2	39	02:31:47.400	488BZ6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,419,785:47:0	
367	2	39	03:13:11.400	488BZ6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,419,826:42:0	
368	2	39	03:20:51.400	488BZ6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,419,834:04:0	
369	2	39	22:16:20.000	488CA6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,420,957:04:0	
370	2	39	23:32:09.333	488CA6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,421,032:03:0	
371	2	39	23:58:59.333	488CA6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,421,058:52:0	
372	2	40	01:12:51.333	488CA6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,421,131:57:0	
373	2	40	02:50:59.333	488CA6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	6,421,228:62:0	
374	2	40	03:05:20.000	488CB6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	1O0	4	0	6,421,242:79:0	
375	2	40	03:14:27.333	488CB6B	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	1O0	4	0	6,421,251:81:0	
376	2	40	05:40:24.666	488CB6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	6,421,396:22:0	
377	2	40	07:26:11.333	488CB6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,421,500:78:0	
378	2	40	10:06:11.333	488CC6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,421,659:09:0	
379	2	40	10:13:04.666	488CC6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,421,665:83:0	
380	2	40	10:18:59.333	488CC6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,421,671:69:0	
381	2	40	19:31:16.000	488CD6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,422,217:88:0	
382	2	41	02:21:07.333	488CE6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,422,623:29:0	
383	2	41	03:03:01.333	488CE6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,422,664:69:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
384	2	41	03:10:11.333	488CE6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,422,671:77:0	
385	2	41	04:11:14.000	488CE6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,422,732:20:0	
386	2	41	05:27:16.666	488CE6E	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,422,807:39:0	
387	2	41	05:54:06.000	488CF6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,422,833:87:0	
388	2	41	09:12:51.266	488CF6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,423,030:48:0	
389	2	41	10:21:07.266	488CF6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	6,423,098:04:0	
390	2	41	10:25:13.266	488CF6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	1O0	4	0	6,423,102:09:0	
391	2	41	21:48:50.600	488CG6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	6,423,778:19:0	
392	2	41	21:58:43.266	488CG6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,423,787:89:0	
393	2	41	22:24:19.266	488CG6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,423,813:27:0	
394	2	42	01:14:59.266	488CG6D	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	6,423,982:08:0	
395	2	42	07:02:43.266	488CH6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,424,326:00:0	
396	2	42	09:57:39.266	488CH6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,424,499:01:0	
397	2	42	10:16:51.266	488CH6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	6,424,518:00:0	
398	2	42	11:50:43.266	488CH6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,424,610:76:0	
399	2	42	13:56:35.266	488CI6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,424,735:29:0	
400	2	42	14:10:41.933	488CI6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,424,749:25:0	
401	2	42	14:11:31.266	488CI6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	1O0	4	0	6,424,750:08:0	
402	2	42	14:20:03.266	488CI6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,424,758:48:0	
403	2	42	22:06:04.533	488CJ6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,425,219:39:0	
404	2	42	23:22:25.866	488CJ6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,425,294:86:0	
405	2	42	23:49:15.200	488CJ6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,425,321:43:0	
406	2	43	00:47:15.200	488CJ6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,425,378:76:0	
407	2	43	01:40:35.200	488CJ6E	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	6,425,431:53:0	
408	2	43	03:03:49.866	488CK6A	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	1O0	4	0	6,425,513:83:0	
409	2	43	03:28:22.533	488CK6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	6,425,538:17:0	
410	2	43	03:56:29.866	176UO6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	1O0	4	0	6,425,566:00:0	
411	2	43	04:01:59.866	20UZ4B	7SLEW	DIS,POS,0.0	Stator movement	1O0	4	0	6,425,571:40:0	
412	2	43	04:02:59.866	20UZ4D	**7MODE**	**SPNL**	AACS ALL-SPIN LOW	1O0	4	0	6,425,572:39:0	
413	2	43	04:04:59.866	20UZ4E	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	1O0	4	0	6,425,574:37:0	
414	2	43	04:10:29.866	20UZ4G	7VENT	0.611,1.333,8	ALERT -- Thruster fire	1O0	4	0	6,425,579:77:0	
415	2	43	04:10:30.533	20UZ4H	7VENT	0.611,10.989,8	ALERT -- Thruster fire	1O0	4	0	6,425,579:78:0	
416	2	43	04:10:50.533	20UZ4I	7VENT	0.611,1.333,6	ALERT -- Thruster fire	1O0	4	0	6,425,580:17:0	
417	2	43	04:10:51.200	20UZ4J	7VENT	0.611,10.989,6	ALERT -- Thruster fire	1O0	4	0	6,425,580:18:0	
418	2	43	04:11:11.200	20UZ4K	7VENT	0.611,1.333,4	ALERT -- Thruster fire	1O0	4	0	6,425,580:48:0	
419	2	43	04:11:11.866	20UZ4L	7VENT	0.611,0.666,5	ALERT -- Thruster fire	1O0	4	0	6,425,580:49:0	
420	2	43	04:11:21.866	20UZ4M	7VENT	0.611,1.333,4	ALERT -- Thruster fire	1O0	4	0	6,425,580:64:0	
421	2	43	04:11:22.533	20UZ4N	7VENT	0.611,0.666,5	ALERT -- Thruster fire	1O0	4	0	6,425,580:65:0	
422	2	43	04:11:32.533	20UZ4O	7VENT	1.211,1.333,10	ALERT -- Thruster fire	1O0	4	0	6,425,580:80:0	
423	2	43	04:11:33.200	20UZ4P	7VENT	1.211,0.666,12	ALERT -- Thruster fire	1O0	4	0	6,425,580:81:0	
424	2	43	04:13:19.866	20UZ4S	7VENT	0.611,1.333,7	ALERT -- Thruster fire	1O0	4	0	6,425,582:59:0	
425	2	43	04:13:20.533	20UZ4T	7VENT	0.611,10.989,7	ALERT -- Thruster fire	1O0	4	0	6,425,582:60:0	
426	2	43	04:13:40.533	20UZ4U	7VENT	0.611,1.333,1	ALERT -- Thruster fire	1O0	4	0	6,425,582:90:0	
427	2	43	04:13:41.200	20UZ4V	7VENT	0.611,10.989,1	ALERT -- Thruster fire	1O0	4	0	6,425,583:00:0	
428	2	43	04:14:01.200	20UZ4AC	7VENT	0.611,1.333,2	ALERT -- Thruster fire	1O0	4	0	6,425,583:30:0	
429	2	43	04:14:01.866	20UZ4AD	7VENT	0.611,0.666,3	ALERT -- Thruster fire	1O0	4	0	6,425,583:31:0	
430	2	43	04:14:11.866	20UZ4AE	7VENT	0.611,1.333,2	ALERT -- Thruster fire	1O0	4	0	6,425,583:46:0	
431	2	43	04:14:12.533	20UZ4AF	7VENT	0.611,0.666,3	ALERT -- Thruster fire	1O0	4	0	6,425,583:47:0	
432	2	43	04:14:22.533	20UZ4W	7VENT	1.211,1.333,9	ALERT -- Thruster fire	1O0	4	0	6,425,583:62:0	
433	2	43	04:14:23.200	20UZ4X	7VENT	1.211,0.666,11	ALERT -- Thruster fire	1O0	4	0	6,425,583:63:0	
434	2	43	04:15:19.866	20UZ4Z	**7MODE**	**CRU**	AACS CRUISE MODE	1O0	4	0	6,425,584:57:0	
435	2	43	04:40:03.866	20UJ4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	1O0	4	0	6,425,609:08:0	
436	2	43	04:40:53.866	20UJ4B	7SLEW	DIS,POS,0.0	Stator movement	1O0	4	0	6,425,609:83:0	
437	2	43	04:41:59.866	176UR6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	1O0	4	0	6,425,611:00:0	
438	2	43	06:52:03.200	488CK6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,425,739:57:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
439	2	43	08:04:12.533	488CK6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,425,810:90:0
440	2	43	08:08:51.200	488CK6E	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	1O0	4	0	6,425,815:53:0
441	2	43	11:15:07.866	488CL6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	6,425,999:74:0
442	2	43	11:46:27.200	488CL6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,426,030:72:0
443	2	43	13:52:19.200	488CL6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,426,155:25:0
444	2	43	14:07:15.200	488CL6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	6,426,170:04:0
445	2	43	14:10:02.533	488CL6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	1O0	4	0	6,426,172:73:0
446	2	43	14:20:03.200	488CM6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,426,182:64:0
447	2	44	01:15:58.533	488CN6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,426,831:38:0
448	2	44	02:32:31.800	488CN6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,426,907:12:0
449	2	44	02:59:21.133	488CN6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,426,933:60:0
450	2	44	08:51:31.133	488CO6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,427,281:87:0
451	2	44	09:54:15.133	176VA6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	1O0	4	0	6,427,344:00:0
452	2	44	10:02:20.466	465WA6A	6DMST	5050	DMS Slew to TIC	1O0	4	0	6,427,352:00:0
453	2	44	10:02:20.466		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 2056.21 +/- 9	1O0	4	0	6,427,352:00:0
454	2	44	10:02:20.466		DMS:	: *SLEW-TIC	P7, TRACK 1, FWD, TIC 2056.21 +/- 9	1O0	4	0	6,427,352:00:0
455	2	44	10:02:27.133		DMS:	: *RUNUP	P7, TRACK 1, FWD, TIC 2056.21 +/- 9	1O0	4	0	6,427,352:10:0
456	2	44	10:02:28.533		DMS:	: *AT_SPD	P7, TRACK 1, FWD, TIC *2056.33 +/- 9	1O0	4	0	6,427,352:12:1
457	2	44	10:06:11.133	488CO6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	6,427,355:73:0
458	2	44	10:09:57.133	488CO6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	1O0	4	0	6,427,359:48:0
459	2	44	10:18:59.133	488CO6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,427,368:42:0
460	2	44	13:35:11.933		DMS:	**: *RUNDOWN**	P7, TRACK 1, FWD, TIC *5047.94 +/- 9	1O0	4	0	6,427,562:47:2
461	2	44	13:35:13.133		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *5048.00 +/- 9	1O0	4	0	6,427,562:49:0
462	2	44	15:40:55.133	488CP6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,427,686:78:0
463	2	44	16:00:04.466		DMS:	: *US-RUNUP	P7, TRACK 1, FWD, TIC 5048.00 +/- 9	1O0	4	0	6,427,705:73:0
464	2	44	16:00:04.466	465WB6A	6DMSC	P100,4	DMS Control Tape P/B 100.8kbps	1O0	4	0	6,427,705:73:0
465	2	44	16:00:05.866		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *5048.12 +/- 9	1O0	4	0	6,427,705:75:1
466	2	44	16:00:11.133		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *5049.35 +/- 9	1O0	4	0	6,427,705:83:0
467	2	44	16:00:12.333		DMS:	: *RUNUP	P100, TRACK *4, *REV, TIC *5049.41 +/- 9	1O0	4	0	6,427,705:84:8
468	2	44	16:00:16.200		DMS:	: *AT_SPD	P100, TRACK 4, REV, TIC 5043.91 +/- 9	1O0	4	0	6,427,705:90:6
469	2	44	16:00:16.200		DMS:	: *P_SLEW	P100, TRACK 4, REV, TIC *5043.91 +/- 9	1O0	4	0	6,427,705:90:6
470	2	44	16:25:56.466	465WB6B	6DMSC	RDY,4	DMS Control Tape stop	1O0	4	0	6,427,731:35:0
471	2	44	16:25:56.466		DMS:	**: *RUNDOWN**	P100, TRACK 4, REV, TIC * 305.79 +/- 9	1O0	4	0	6,427,731:35:0
472	2	44	16:25:57.666		DMS:	: *READY	RDY, TRACK 4, REV, TIC * 304.99 +/- 9	1O0	4	0	6,427,731:36:8
473	2	44	18:26:46.466	465WC6A	6DTRN	CMD,6DTRN,465WC6	DMS TRACK TURNAROUND	1O0	4	0	6,427,850:81:0
474	2	44	18:26:46.466		DMS:	: *DMS-TURN	P7, TRACK 4, REV, TIC 304.99 +/- 9	1O0	4	0	6,427,850:81:0
475	2	44	18:26:46.466		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 304.99 +/- 9	1O0	4	0	6,427,850:81:0
476	2	44	18:26:47.866		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 305.11 +/- 9	1O0	4	0	6,427,850:83:1
477	2	44	18:26:53.133		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 306.34 +/- 9	1O0	4	0	6,427,851:00:0
478	2	44	18:26:54.333		DMS:	: *RUNUP	P7, TRACK *4, *REV, TIC * 306.40 +/- 9	1O0	4	0	6,427,851:01:8
479	2	44	18:26:55.733		DMS:	: *AT_SPD	P7, TRACK 4, REV, TIC * 306.28 +/- 9	1O0	4	0	6,427,851:03:9
480	2	44	18:34:09.133	488CP6B	6TMSED	NORM,AH6	Sci, Eng, and D/L Chan	1O0	4	0	6,427,858:17:0
481	2	44	18:34:29.733		DMS:	: *REVERSE	P7, TRACK 4, REV, TIC * 199.87 +/- 9	1O0	4	0	6,427,858:47:9
482	2	44	18:34:30.933		DMS:	: *TURNARND	P7, TRACK *1, *FWD, TIC * 199.81 +/- 9	1O0	4	0	6,427,858:49:7
483	2	44	18:34:30.933		DMS:	: *RUNUP	P7, TRACK 1, FWD, TIC 199.81 +/- 9	1O0	4	0	6,427,858:49:7
484	2	44	18:34:32.333		DMS:	: *AT_SPD	P7, TRACK 1, FWD, TIC * 199.93 +/-	1O0	4	0	6,427,858:51:8
485	2	44	18:34:44.333		DMS:	: *AUTOSTOP	P7, TRACK 1, FWD, TIC * 202.06 +/-	1O0	4	0	6,427,858:69:8
486	2	44	18:34:45.533		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 202.12 +/-	1O0	4	0	6,427,858:71:6
487	2	44	18:40:51.800	465WD6A	6DMSC	P100,1	DMS Control Tape P/B 100.8kbps	1O0	4	0	6,427,864:75:0
488	2	44	18:40:51.800		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 202.12 +/-	1O0	4	0	6,427,864:75:0
489	2	44	18:40:58.466		DMS:	: *RUNUP	P100, TRACK 1, FWD, TIC 202.12 +/-	1O0	4	0	6,427,864:85:0
490	2	44	18:41:02.333		DMS:	: *P_SLEW	P100, TRACK 1, FWD, TIC * 207.62 +/-	1O0	4	0	6,427,864:90:8
491	2	44	18:41:02.333		DMS:	: *AT_SPD	P100, TRACK 1, FWD, TIC 207.62 +/-	1O0	4	0	6,427,864:90:8
492	2	44	19:12:45.800	465WD6B	6DMSC	RDY,1	DMS Control Tape stop	1O0	4	0	6,427,896:34:0
493	2	44	19:12:45.800		DMS:	**: *RUNDOWN**	P100, TRACK 1, FWD, TIC *6063.01 +/-	1O0	4	0	6,427,896:34:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
494	2	44	19:12:47.000		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *6063.81 +/-	1O0	4	0	6,427,896:35:8	
495	2	44	19:28:21.800	465WE6A	6DMSC	P100,2	DMS Control Tape P/B 100.8kbps	1O0	4	0	6,427,911:73:0	
496	2	44	19:28:21.800		DMS:	: *US-RUNUP	P7, TRACK 1, FWD, TIC 6063.81 +/-	1O0	4	0	6,427,911:73:0	
497	2	44	19:28:23.200		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *6063.93 +/-	1O0	4	0	6,427,911:75:1	
498	2	44	19:28:28.466		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *6065.17 +/-	1O0	4	0	6,427,911:83:0	
499	2	44	19:28:29.666		DMS:	: *RUNUP	P100, TRACK *2, *REV, TIC *6065.23 +/-	1O0	4	0	6,427,911:84:8	
500	2	44	19:28:33.533		DMS:	: *P_SLEW	P100, TRACK 2, REV, TIC *6059.73 +/-	1O0	4	0	6,427,911:90:6	
501	2	44	19:28:33.533		DMS:	: *AT_SPD	P100, TRACK 2, REV, TIC 6059.73 +/-	1O0	4	0	6,427,911:90:6	
502	2	44	20:00:29.800		DMS:	**: *RUNDOWN**	P100, TRACK 2, REV, TIC * 164.96 +/-	1O0	4	0	6,427,943:53:0	
503	2	44	20:00:29.800	465WF6A	6DMSC	P100,3	DMS Control Tape P/B 100.8kbps	1O0	4	0	6,427,943:53:0	
504	2	44	20:00:31.000		DMS:	: *RUNUP	P100, TRACK *3, *FWD, TIC * 164.16 +/-	1O0	4	0	6,427,943:54:8	
505	2	44	20:00:34.866		DMS:	: *P_SLEW	P100, TRACK 3, FWD, TIC * 169.66 +/-	1O0	4	0	6,427,943:60:6	
506	2	44	20:00:34.866		DMS:	: *AT_SPD	P100, TRACK 3, FWD, TIC 169.66 +/-	1O0	4	0	6,427,943:60:6	
507	2	44	20:32:30.466		DMS:	**: *RUNDOWN**	P100, TRACK 3, FWD, TIC *6062.38 +/-	1O0	4	0	6,427,975:22:0	
508	2	44	20:32:30.466	465WF6B	6DMSC	RDY,3	DMS Control Tape stop	1O0	4	0	6,427,975:22:0	
509	2	44	20:32:31.666		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *6063.18 +/-	1O0	4	0	6,427,975:23:8	
510	2	44	20:47:13.800		DMS:	: *US-RUNUP	P7, TRACK *1, FWD, TIC 6063.18 +/-	1O0	4	0	6,427,989:73:0	
511	2	44	20:47:13.800	465WG6A	6DMSC	P100,4	DMS Control Tape P/B 100.8kbps	1O0	4	0	6,427,989:73:0	
512	2	44	20:47:15.200		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *6063.30 +/-	1O0	4	0	6,427,989:75:1	
513	2	44	20:47:20.466		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *6064.53 +/-	1O0	4	0	6,427,989:83:0	
514	2	44	20:47:21.666		DMS:	: *RUNUP	P100, TRACK *4, *REV, TIC *6064.59 +/-	1O0	4	0	6,427,989:84:8	
515	2	44	20:47:25.533		DMS:	: *AT_SPD	P100, TRACK 4, REV, TIC 6059.09 +/-	1O0	4	0	6,427,989:90:6	
516	2	44	20:47:25.533		DMS:	: *P_SLEW	P100, TRACK 4, REV, TIC *6059.09 +/-	1O0	4	0	6,427,989:90:6	
517	2	44	21:19:21.133		DMS:	**: *RUNDOWN**	P100, TRACK 4, REV, TIC * 166.38 +/-	1O0	4	0	6,428,021:52:0	
518	2	44	21:19:21.133	465WH6A	6DMSC	P100,3	DMS Control Tape P/B 100.8kbps	1O0	4	0	6,428,021:52:0	
519	2	44	21:19:22.333		DMS:	: *RUNUP	P100, TRACK *3, *FWD, TIC * 165.58 +/-	1O0	4	0	6,428,021:53:8	
520	2	44	21:19:26.200		DMS:	: *AT_SPD	P100, TRACK 3, FWD, TIC 171.08 +/-	1O0	4	0	6,428,021:59:6	
521	2	44	21:19:26.200		DMS:	: *P_SLEW	P100, TRACK 3, FWD, TIC * 171.08 +/-	1O0	4	0	6,428,021:59:6	
522	2	44	21:20:27.133		DMS:	**: *RUNDOWN**	P100, TRACK 3, FWD, TIC * 358.52 +/-	1O0	4	0	6,428,022:60:0	
523	2	44	21:20:27.133	465WH6B	6DMSC	RDY,3	DMS Control Tape stop	1O0	4	0	6,428,022:60:0	
524	2	44	21:20:28.333		DMS:	: *READY	RDY, TRACK 3, FWD, TIC * 359.32 +/-	1O0	4	0	6,428,022:61:8	
525	2	44	21:20:59.133	488CP6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,428,023:17:0	
526	2	44	21:34:57.133		DMS:	: READY	RDY, TRACK *4, *REV, TIC 359.32 +/-	1O0	4	0	6,428,037:00:0	
527	2	44	21:34:57.133	465WI6A	6DMSC	RDY,4	DMS Control Tape stop	1O0	4	0	6,428,037:00:0	
528	2	44	21:35:51.133	465WJ6A	6DTRN	CMD,6DTRN,465WJ6	DMS TRACK TURNAROUND	1O0	4	0	6,428,037:81:0	
529	2	44	21:35:51.133		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 359.32 +/-	1O0	4	0	6,428,037:81:0	
530	2	44	21:35:51.133		DMS:	: *DMS-TURN	P7, TRACK 4, REV, TIC 359.32 +/-	1O0	4	0	6,428,037:81:0	
531	2	44	21:35:52.533		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 359.44 +/-	1O0	4	0	6,428,037:83:1	
532	2	44	21:35:57.800		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 360.67 +/-	1O0	4	0	6,428,038:00:0	
533	2	44	21:35:59.000		DMS:	: *RUNUP	P7, TRACK *4, *REV, TIC * 360.73 +/-	1O0	4	0	6,428,038:01:8	
534	2	44	21:36:00.400		DMS:	: *AT_SPD	P7, TRACK 4, REV, TIC * 360.61 +/-	1O0	4	0	6,428,038:03:9	
535	2	44	21:47:26.200		DMS:	: *REVERSE	P7, TRACK 4, REV, TIC * 199.87 +/-	1O0	4	0	6,428,049:31:6	
536	2	44	21:47:27.400		DMS:	: *TURNARND	P7, TRACK *1, *FWD, TIC * 199.81 +/-	1O0	4	0	6,428,049:33:4	
537	2	44	21:47:27.400		DMS:	: *RUNUP	P7, TRACK 1, FWD, TIC 199.81 +/-	1O0	4	0	6,428,049:33:4	
538	2	44	21:47:28.800		DMS:	: *AT_SPD	P7, TRACK 1, FWD, TIC * 199.93 +/-	1O0	4	0	6,428,049:35:5	
539	2	44	21:47:40.800		DMS:	: *AUTOSTOP	P7, TRACK 1, FWD, TIC * 202.06 +/-	1O0	4	0	6,428,049:53:5	
540	2	44	21:47:42.000		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 202.12 +/-	1O0	4	0	6,428,049:55:3	
541	2	44	22:04:16.466	176VB6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	1O0	4	0	6,428,066:00:0	
542	2	44	22:59:03.800	488CQ6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,428,120:17:0	
543	2	44	23:04:51.133	488CQ6B	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	1O0	4	0	6,428,125:83:0	
544	2	45	01:54:59.133	488CQ6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	6,428,294:16:0	
545	2	45	06:22:11.133	488CR6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,428,558:40:0	
546	2	45	09:40:35.133	488CR6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,428,754:60:0	
547	2	45	10:12:37.800	488CR6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,428,786:32:0	
548	2	45	10:18:59.133	488CR6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,428,792:58:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
549	2	45	22:00:48.400	488CS6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,429,486:68:0	
550	2	45	23:17:42.400	488CS6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,429,562:73:0	
551	2	45	23:44:32.400	488CS6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,429,589:31:0	
552	2	46	00:21:39.066	488CS6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,429,626:04:0	
553	2	46	02:21:07.066	488CS6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	6,429,744:18:0	
554	2	46	02:39:48.400	488CT6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	1O0	4	0	6,429,762:62:0	
555	2	46	02:48:51.066	488CT6B	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	1O0	4	0	6,429,771:57:0	
556	2	46	05:39:53.066	488CT6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	6,429,940:71:0	
557	2	46	06:00:51.066	488CT6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,429,961:47:0	
558	2	46	09:36:19.066	488CU6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,430,174:56:0	
559	2	46	10:02:32.400	488CU6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,430,200:50:0	
560	2	46	10:08:19.066	488CU6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,430,206:24:0	
561	2	46	20:40:42.400	488CV6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,430,831:64:0	
562	2	46	21:57:47.733	488CV6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,430,907:86:0	
563	2	46	22:24:37.000	488CV6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,430,934:43:0	
564	2	47	00:15:15.000	488CV6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,431,043:81:0	
565	2	47	02:16:51.000	488CV6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	6,431,164:14:0	
566	2	47	02:44:42.333	488CW6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	1O0	4	0	6,431,191:64:0	
567	2	47	02:53:07.000	488CW6B	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	1O0	4	0	6,431,200:02:0	
568	2	47	04:09:47.000	488CW6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	6,431,275:77:0	
569	2	47	05:35:15.000	488CW6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,431,360:34:0	
570	2	47	09:32:03.000	488CX6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,431,594:52:0	
571	2	47	10:02:26.333	488CX6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,431,624:57:0	
572	2	47	10:08:19.000	488CX6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,431,630:40:0	
573	2	47	19:20:37.000	488CY6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,432,176:61:0	
574	**2**	**47**	**20:50:56.300**	**33_SC_SAFE02**		**-----START------**		**1O0**	**4**	**0**	**: :**	
575	**2**	**47**	**20:50:57.300**	**33_SC_SAFE02**		**-----STOP-------**		**1O0**	**4**	**0**	**: :**	
576	**2**	**53**	**01:30:00.000**	**20A3EX**	**37H**	**CMD,37H,20A3EX,,**	**Replacement Heaters ON**	**1O0**	**4**	**0**	**6,439,662:79:9**	
577	**2**	**53**	**01:30:00.000**	**20A3EW**	**37AR**	**CMD,37AR,20A3EW,**	**NIMS Power OFF**				**6,439,662:79:9**	
578	**2**	**53**	**01:30:00.000**	**20A3EY**	**37C1PR**	**CMD,37C1PR,20A3E**	**Optics Heater 1 OFF (primary relay)**				**6,439,662:79:9**	
579	**2**	**53**	**01:30:00.000**	**20A3EZ**	**37C2PR**	**CMD,37C2PR,20A3E**	**Optics Heater 2 OFF (primary relay)**				**6,439,662:79:9**	
580	**2**	**53**	**01:30:00.000**	**20A3FA**	**37F1PR**	**CMD,37F1PR,20A3F**	**Radiator Flash Heater OFF (primary relay)**				**6,439,662:79:9**	
581	**2**	**53**	**01:30:00.000**	**20A3FB**	**37F2PR**	**CMD,37F2PR,20A3F**	**Shield Flash Heater OFF (primary relay)**				**6,439,662:79:9**	
582	**2**	**53**	**01:30:00.000**	**20A3FD**	**40HRPR**	**CMD,40HRPR,20A3F**	**RCT Heater OFF (primary relay)**				**6,439,662:79:9**	
583	**2**	**53**	**01:30:00.000**	**20A3FE**	**40T1PR**	**CMD,40T1PR,20A3F**	**PCT Heater 1 OFF (primary relay)**				**6,439,662:79:9**	
584	**2**	**53**	**01:30:00.000**	**20A3FF**	**40T2R**	**CMD,40T2R,20A3FF**	**PCT Heater 2 OFF**				**6,439,662:79:9**	
585	2	53	01:30:00.066		DMS:	: READY	RDY, TRACK 1, FWD, TIC 3802.00 +/-				6,439,662:80:0	
586	2	53	01:31:00.066	488XH6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan				6,439,663:79:0	
587	2	53	01:43:25.400	488XH6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan				6,439,676:14:0	
588	**2**	**53**	**01:53:24.733**	**20ZU3Q**	**37HR**	**1**	**Replacement Heaters OFF**				**6,439,686:03:0**	
589	**2**	**53**	**01:53:26.733**	**20ZU3S**	**37HR**	**2**	**Replacement Heaters OFF**				**6,439,686:06:0**	
590	**2**	**53**	**01:53:52.733**	**20ZU3R**	**37A**	**1**	**NIMS Power ON**	**260**	**4**	**0**	**6,439,686:45:0**	
591	**2**	**53**	**01:53:54.733**	**20ZU3T**	**37A**	**2**	**NIMS Power ON**	**260**	**4**	**0**	**6,439,686:48:0**	
592	**2**	**53**	**01:55:54.066**	**20ZU4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**260**	**4**	**0**	**6,439,688:45:0**	
593	**2**	**53**	**01:59:47.400**	**20DZ5A**	**37PL**		**Program Load (halts microprocessor & unwri**		**4**	**0**	**6,439,692:31:0**	
594	**2**	**53**	**01:59:50.733**	**20DZ5B**	**37MRL**		**Memory Realocate (software operates from R**		**4**	**0**	**6,439,692:36:0**	
595	**2**	**53**	**01:59:54.066**	**20DZ6A**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**		**4**	**0**	**6,439,692:41:0**	
596	**2**	**53**	**02:00:04.066**	**20DZ6B**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**		**4**	**0**	**6,439,692:56:0**	
597	**2**	**53**	**02:00:14.066**	**20DZ5C**	**37IRT**		**Instrument Reset (goes into POR state)**		**4**	**0**	**6,439,692:71:0**	
598	**2**	**53**	**02:00:17.400**	**20DZ5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**6,439,692:76:0**	
599	**2**	**53**	**02:01:21.400**	**20DZ4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**6,439,693:81:0**	
600	2	53	02:06:31.400		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 3802.00 +/-	2R0	4	0	6,439,699:00:0	
601	2	53	02:06:31.400		DMS:	: *SLEW-TIC	P7, TRACK 1, FWD, TIC 3802.00 +/-	2R0	4	0	6,439,699:00:0	
602	2	53	02:06:31.400	465XB6A	6DMST	3925	DMS Slew to TIC	2R0	4	0	6,439,699:00:0	
603	2	53	02:06:38.066		DMS:	: *RUNUP	P7, TRACK 1, FWD, TIC 3802.00 +/-	2R0	4	0	6,439,699:10:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
604	2	53	02:06:39.466		DMS:	: *AT_SPD	P7, TRACK 1, FWD, TIC *3802.12 +/-	2R0	4	0	6,439,699:12:1	
605	2	53	02:10:15.400	488XH6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2R0	4	0	6,439,702:63:0	
606	2	53	02:15:14.200		DMS:	**: *RUNDOWN**	P7, TRACK 1, FWD, TIC *3922.94 +/-	2R0	4	0	6,439,707:56:2	
607	2	53	02:15:15.400		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *3923.00 +/-	2R0	4	0	6,439,707:58:0	
608	2	53	02:17:38.733	465XC6A	6DMSC	RDY,4	DMS Control Tape stop	2R0	4	0	6,439,710:00:0	
609	2	53	02:17:38.733		DMS:	: READY	RDY, TRACK *4, *REV, TIC 3923.00 +/-	2R0	4	0	6,439,710:00:0	
610	2	53	02:18:47.400	20UG4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	2R0	4	0	6,439,711:12:0	
611	2	53	02:19:33.400	20UG4B	7SLEW	DIS,POS,0.0	Stator movement	2R0	4	0	6,439,711:81:0	
612	2	53	02:21:41.400	176XA6A	6TMREC	**IPB**	INITIATE PLAYBACK (PB CONTROL) Record Mod	2R0	4	0	6,439,714:00:0	
613	2	53	02:31:46.733	431ZL6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	2R0	4	0	6,439,723:89:0	
614	2	53	02:31:48.066	432ZL6A	6RTSL1		R/T Select of DDS and	2R0	4	0	6,439,724:00:0	
615	2	53	02:35:54.733	20ZM6A	6EUVON			2R0	4	0	6,439,728:06:0	
616	2	53	02:36:51.400	431ZM6A	6RCSEL	DDSNCG,PLSNCG,EP	Record Select (DDS onl	2R0	4	0	6,439,729:00:0	
617	2	53	07:49:38.733	488DI6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R0	4	0	6,440,038:32:0	
618	2	53	08:56:49.400	488DI6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2R0	4	0	6,440,104:72:0	
619	2	53	09:04:18.733	488DI6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2R0	4	0	6,440,112:18:0	
620	2	53	18:25:00.066	488DJ6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2R0	4	0	6,440,666:66:0	
621	2	54	00:00:50.733	488DJ6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2R0	4	0	6,440,998:80:0	
622	2	54	01:06:26.666	488DK6A	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2R0	4	0	6,441,063:69:0	
623	2	54	01:59:46.666	488DK6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2R0	4	0	6,441,116:46:0	
624	2	54	05:52:36.666	488DK6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2R0	4	0	6,441,346:71:0	
625	2	54	06:17:54.666	488DK6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R0	4	0	6,441,371:73:0	
626	2	54	07:07:10.666	488DL6A	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2R0	4	0	6,441,420:48:0	
627	2	54	07:36:16.666	488DL6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R0	4	0	6,441,449:28:0	
628	2	54	12:50:26.666	488DL6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2R0	4	0	6,441,760:02:0	
629	2	54	13:22:45.333	488DM6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2R0	4	0	6,441,791:89:0	
630	2	54	13:24:34.666	488DM6B	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	2R0	4	0	6,441,793:71:0	
631	2	54	13:39:30.666	488DM6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2R0	4	0	6,441,808:50:0	
632	2	54	23:09:52.000	488DN6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2R0	4	0	6,442,372:58:0	
633	2	55	08:45:06.666	488DO6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R0	4	0	6,442,941:51:0	
634	2	55	09:26:36.666	488DO6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2R0	4	0	6,442,982:55:0	
635	2	55	09:34:10.666	488DO6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2R0	4	0	6,442,990:08:0	
636	2	56	16:24:39.933	488DP6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2R0	4	0	6,444,820:22:0	
637	2	57	00:45:06.533	488DQ6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R0	4	0	6,445,315:17:0	
638	2	57	01:51:14.533	488DQ6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2R0	4	0	6,445,380:54:0	
639	2	57	01:53:38.533	488DQ6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2R0	4	0	6,445,382:88:0	
640	2	57	02:04:02.533	488DQ6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2R0	4	0	6,445,393:23:0	
641	2	57	05:40:30.533	488DQ6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R0	4	0	6,445,607:31:0	
642	2	57	06:02:58.533	488DR6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2R0	4	0	6,445,629:51:0	
643	2	57	12:39:46.533	488DS6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R0	4	0	6,446,022:00:0	
644	2	57	13:05:22.533	488DS6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2R0	4	0	6,446,047:29:0	
645	2	57	13:10:09.866	488DS6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2R0	4	0	6,446,052:05:0	
646	2	57	13:16:02.533	488DS6D	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	2R0	4	0	6,446,057:79:0	
647	2	57	13:52:18.533	488DS6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2R0	4	0	6,446,093:67:0	
648	2	57	20:42:12.533	488DT6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2R0	4	0	6,446,499:12:0	
649	2	57	21:13:54.533	488DT6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R0	4	0	6,446,530:44:0	
650	2	57	22:02:34.533	488DT6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2R0	4	0	6,446,578:56:0	
651	2	57	22:31:40.533	488DT6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R0	4	0	6,446,607:36:0	
652	2	57	22:52:02.533	488DT6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2R0	4	0	6,446,627:49:0	
653	2	58	07:09:06.466	488DU6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R0	4	0	6,447,119:13:0	
654	2	58	07:36:16.466	488DU6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2R0	4	0	6,447,146:01:0	
655	2	58	07:43:14.466	488DU6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2R0	4	0	6,447,152:82:0	
656	2	58	20:54:25.133	488DV6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2R0	4	0	6,447,935:35:0	
657	2	59	00:34:26.466	488DV6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R0	4	0	6,448,152:90:0	
658	2	59	01:40:34.466	488DV6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2R0	4	0	6,448,218:36:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
659	2	59	01:43:25.133	488DV6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2R0	4	0	6,448,221:19:0	
660	2	59	01:53:22.466	488DV6E	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2R0	4	0	6,448,231:05:0	
661	2	59	05:29:23.133	488DW6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2R0	4	0	6,448,444:63:0	
662	2	59	08:25:54.466	488DW6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R0	4	0	6,448,619:25:0	
663	2	59	09:09:16.466	488DW6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2R0	4	0	6,448,662:15:0	
664	2	59	09:10:42.466	488DW6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2R0	4	0	6,448,663:53:0	
665	2	59	09:19:14.466	488DW6E	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2R0	4	0	6,448,672:02:0	
666	2	60	00:24:17.066	488DX6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2R0	4	0	6,449,567:11:0	
667	2	60	01:44:12.400	488DX6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2R0	4	0	6,449,646:15:0	
668	2	60	02:11:02.400	488DX6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2R0	4	0	6,449,672:64:0	
669	2	60	06:54:10.400	488DY6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R0	4	0	6,449,952:66:0	
670	2	60	08:45:06.400	488DY6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2R0	4	0	6,450,062:40:0	
671	2	60	09:03:16.400	488DY6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2R0	4	0	6,450,080:37:0	
672	2	60	09:12:50.400	488DY6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2R0	4	0	6,450,089:79:0	
673	2	60	18:09:12.400	488DZ6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2R0	4	0	6,450,620:31:0	
674	2	61	00:19:30.400	488EA6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R0	4	0	6,450,986:52:0	
675	2	61	01:29:54.400	488EA6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2R0	4	0	6,451,056:18:0	
676	2	61	08:15:14.333	488EB6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R0	4	0	6,451,457:07:0	
677	2	61	08:55:33.666	488EB6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2R0	4	0	6,451,496:87:0	
678	2	61	09:00:02.333	488EB6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2R0	4	0	6,451,501:35:0	
679	2	61	12:46:47.666	488EB6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2R0	4	0	6,451,725:59:0	
680	2	61	13:07:30.333	488EB6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R0	4	0	6,451,746:12:0	
681	2	61	14:17:54.333	488EC6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2R0	4	0	6,451,815:69:0	
682	2	61	17:41:38.333	488EC6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2R0	4	0	6,452,017:23:0	
683	2	61	17:44:50.333	488EC6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2R0	4	0	6,452,020:38:0	
684	2	62	12:41:40.266	488ED6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2R0	4	0	6,453,144:69:0	
685	2	62	13:07:30.266	488ED6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R0	4	0	6,453,170:28:0	
686	2	62	14:17:54.266	488ED6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2R0	4	0	6,453,239:85:0	
687	2	63	00:04:34.266	488EE6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R0	4	0	6,453,820:14:0	
688	2	63	01:19:14.266	488EE6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2R0	4	0	6,453,894:00:0	
689	2	63	01:27:56.933	488EE6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2R0	4	0	6,453,902:56:0	
690	2	63	01:36:18.266	488EE6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2R0	4	0	6,453,910:80:0	
691	2	63	21:53:50.266	488EF6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2R0	4	0	6,455,115:03:0	
692	2	64	00:00:18.200	488EF6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R0	4	0	6,455,240:10:0	
693	2	64	00:23:46.200	488EF6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2R0	4	0	6,455,263:29:0	
694	2	64	01:44:40.866	488EF6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2R0	4	0	6,455,343:31:0	
695	2	64	02:11:30.200	488EF6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2R0	4	0	6,455,369:79:0	
696	2	64	06:13:38.200	488EG6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R0	4	0	6,455,609:31:0	
697	2	64	08:19:30.200	488EG6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2R0	4	0	6,455,733:75:0	
698	2	64	08:47:48.200	488EG6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2R0	4	0	6,455,761:74:0	
699	2	64	08:57:54.200	488EG6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2R0	4	0	6,455,771:73:0	
700	2	64	22:53:42.200	488EH6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2R0	4	0	6,456,598:38:0	
701	2	64	23:53:54.200	488EH6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R0	4	0	6,456,657:87:0	
702	2	65	01:06:26.200	488EH6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2R0	4	0	6,456,729:63:0	
703	2	65	01:14:58.200	488EH6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2R0	4	0	6,456,738:12:0	
704	2	65	07:49:38.200	488EI6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R0	4	0	6,457,128:42:0	
705	2	65	08:40:26.800	488EI6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2R0	4	0	6,457,178:65:0	
706	2	65	16:54:30.800	488EJ6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R0	4	0	6,457,667:32:0	
707	2	65	18:13:30.800	488EJ6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2R0	4	0	6,457,745:44:0	
708	2	65	18:42:36.800	488EJ6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R0	4	0	6,457,774:24:0	
709	2	66	00:23:46.133	488EK6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2R0	4	0	6,458,111:61:0	
710	2	66	01:12:35.466	488EK6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2R0	4	0	6,458,159:87:0	
711	2	66	01:21:22.133	488EK6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2R0	4	0	6,458,168:58:0	
712	2	66	04:18:33.466	488EK6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2R0	4	0	6,458,343:80:0	
713	2	66	06:52:22.133	176US6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	2R0	4	0	6,458,496:00:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
714	2	66	07:02:00.133	20UX4B	7SLEW	DIS,POS,0.0	Stator movement	2R0	4	0	6,458,505:48:0
715	2	66	07:03:00.133	20UX4D	**7MODE**	**SPNL**	AACS ALL-SPIN LOW	2R0	4	0	6,458,506:47:0
716	2	66	07:05:00.133	20UX4E	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	2R0	4	0	6,458,508:45:0
717	2	66	07:10:30.133	20UX4G	7VENT	0.611,1.333,8	ALERT -- Thruster fire	2R0	4	0	6,458,513:85:0
718	2	66	07:10:30.800	20UX4H	7VENT	0.611,10.989,8	ALERT -- Thruster fire	2R0	4	0	6,458,513:86:0
719	2	66	07:10:50.800	20UX4I	7VENT	0.611,1.333,6	ALERT -- Thruster fire	2R0	4	0	6,458,514:25:0
720	2	66	07:10:51.466	20UX4J	7VENT	0.611,10.989,6	ALERT -- Thruster fire	2R0	4	0	6,458,514:26:0
721	2	66	07:11:11.466	20UX4K	7VENT	0.611,1.333,4	ALERT -- Thruster fire	2R0	4	0	6,458,514:56:0
722	2	66	07:11:12.133	20UX4L	7VENT	0.611,0.666,5	ALERT -- Thruster fire	2R0	4	0	6,458,514:57:0
723	2	66	07:11:22.133	20UX4M	7VENT	0.611,1.333,4	ALERT -- Thruster fire	2R0	4	0	6,458,514:72:0
724	2	66	07:11:22.800	20UX4N	7VENT	0.611,0.666,5	ALERT -- Thruster fire	2R0	4	0	6,458,514:73:0
725	2	66	07:11:32.800	20UX4O	7VENT	1.211,1.333,10	ALERT -- Thruster fire	2R0	4	0	6,458,514:88:0
726	2	66	07:11:33.466	20UX4P	7VENT	1.211,0.666,12	ALERT -- Thruster fire	2R0	4	0	6,458,514:89:0
727	2	66	07:13:20.133	20UX4S	7VENT	0.611,1.333,7	ALERT -- Thruster fire	2R0	4	0	6,458,516:67:0
728	2	66	07:13:20.800	20UX4T	7VENT	0.611,10.989,7	ALERT -- Thruster fire	2R0	4	0	6,458,516:68:0
729	2	66	07:13:40.800	20UX4U	7VENT	0.611,1.333,1	ALERT -- Thruster fire	2R0	4	0	6,458,517:07:0
730	2	66	07:13:41.466	20UX4V	7VENT	0.611,10.989,1	ALERT -- Thruster fire	2R0	4	0	6,458,517:08:0
731	2	66	07:14:01.466	20UX4AC	7VENT	0.611,1.333,2	ALERT -- Thruster fire	2R0	4	0	6,458,517:38:0
732	2	66	07:14:02.133	20UX4AD	7VENT	0.611,0.666,3	ALERT -- Thruster fire	2R0	4	0	6,458,517:39:0
733	2	66	07:14:12.133	20UX4AE	7VENT	0.611,1.333,2	ALERT -- Thruster fire	2R0	4	0	6,458,517:54:0
734	2	66	07:14:12.800	20UX4AF	7VENT	0.611,0.666,3	ALERT -- Thruster fire	2R0	4	0	6,458,517:55:0
735	2	66	07:14:22.800	20UX4W	7VENT	1.211,1.333,9	ALERT -- Thruster fire	2R0	4	0	6,458,517:70:0
736	2	66	07:14:23.466	20UX4X	7VENT	1.211,0.666,11	ALERT -- Thruster fire	2R0	4	0	6,458,517:71:0
737	2	66	07:15:20.133	20UX4Z	**7MODE**	**CRU**	AACS CRUISE MODE	2R0	4	0	6,458,518:65:0
738	2	66	07:40:04.133	20UY4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	2R0	4	0	6,458,543:16:0
739	2	66	07:40:54.133	20UY4B	7SLEW	DIS,POS,0.0	Stator movement	2R0	4	0	6,458,544:00:0
740	2	66	07:43:14.133	488EL6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R0	4	0	6,458,546:28:0
741	2	66	07:44:56.800	176UT6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	2R0	4	0	6,458,548:00:0
742	2	66	08:38:02.800	488EL6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2R0	4	0	6,458,600:47:0
743	2	66	08:38:42.133	488EL6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2R0	4	0	6,458,601:15:0
744	2	66	08:47:14.133	488EL6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2R0	4	0	6,458,609:55:0
745	2	67	00:23:27.400	488EM6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2R0	4	0	6,459,535:49:0
746	2	67	07:38:58.066	488EN6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R0	4	0	6,459,966:24:0
747	2	67	08:34:26.066	488EN6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2R0	4	0	6,460,021:11:0
748	2	67	08:37:26.066	488EN6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2R0	4	0	6,460,024:08:0
749	2	67	08:47:14.066	488EN6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2R0	4	0	6,460,033:71:0
750	2	67	17:59:15.400	488EO6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R0	4	0	6,460,579:67:0
751	2	67	19:18:45.400	488EO6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2R0	4	0	6,460,658:33:0
752	2	67	19:47:51.400	488EO6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R0	4	0	6,460,687:13:0
753	2	68	00:13:06.066	488EP6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2R0	4	0	6,460,949:43:0
754	2	68	01:07:21.400	488EP6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2R0	4	0	6,461,003:12:0
755	2	68	01:17:06.066	488EP6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2R0	4	0	6,461,012:70:0
756	2	68	04:54:12.666	488EP6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R0	4	0	6,461,227:45:0
757	2	68	05:30:58.000	488EP6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2R0	4	0	6,461,263:77:0
758	2	68	11:44:18.000	488EQ6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R0	4	0	6,461,633:07:0
759	2	68	12:23:14.666	488EQ6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2R0	4	0	6,461,671:54:0
760	2	68	12:24:50.000	488EQ6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2R0	4	0	6,461,673:15:0
761	2	68	12:33:22.000	488EQ6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2R0	4	0	6,461,681:55:0
762	2	68	20:33:14.000	488ER6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2R0	4	0	6,462,156:18:0
763	2	68	23:28:18.000	488ER6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R0	4	0	6,462,329:31:0
764	2	69	00:49:22.000	488ER6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2R0	4	0	6,462,409:47:0
765	2	69	01:02:13.333	488ER6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2R0	4	0	6,462,422:21:0
766	2	69	01:10:42.000	488ER6E	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2R0	4	0	6,462,430:56:0
767	2	70	00:53:05.266	488ES6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2R0	4	0	6,463,837:34:0
768	2	70	07:24:01.933	488ET6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R0	4	0	6,464,224:02:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
769	2	70	08:14:50.600	488ET6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2R0	4	0	6,464,274:25:0	
770	2	70	08:21:37.933	488ET6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2R0	4	0	6,464,280:90:0	
771	2	70	22:07:57.933	488EU6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2R0	4	0	6,465,098:22:0	
772	2	70	23:13:21.933	488EU6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R0	4	0	6,465,162:84:0	
773	2	71	00:23:45.933	488EU6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2R0	4	0	6,465,232:50:0	
774	2	71	05:18:09.866	488EV6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2R0	4	0	6,465,523:65:0	
775	2	71	05:41:37.866	488EV6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R0	4	0	6,465,546:84:0	
776	2	71	06:44:10.533	488EV6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2R0	4	0	6,465,608:71:0	
777	2	71	07:13:16.533	488EV6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R0	4	0	6,465,637:51:0	
778	2	71	11:08:01.866	488EV6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2R0	4	0	6,465,869:67:0	
779	2	71	12:06:55.200	488EW6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2R0	4	0	6,465,927:89:0	
780	2	71	12:16:17.866	488EW6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2R0	4	0	6,465,937:23:0	
781	2	71	21:07:51.200	488EX6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2R0	4	0	6,466,462:88:0	
782	2	71	23:02:41.866	488EX6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R0	4	0	6,466,576:50:0	
783	2	72	00:34:25.866	488EX6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2R0	4	0	6,466,667:25:0	
784	2	72	00:56:51.200	488EX6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2R0	4	0	6,466,689:41:0	
785	2	72	01:06:25.866	488EX6E	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2R0	4	0	6,466,698:84:0	
786	2	72	04:32:49.200	488EY6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2R0	4	0	6,466,903:04:0	
787	2	72	07:09:05.866	488EY6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R0	4	0	6,467,057:55:0	
788	2	72	08:08:49.866	488EY6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2R0	4	0	6,467,116:62:0	
789	2	72	08:16:48.533	488EY6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2R0	4	0	6,467,124:52:0	
790	2	72	08:25:53.866	488EY6E	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2R0	4	0	6,467,133:51:0	
791	2	73	04:33:34.466	488EZ6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R0	4	0	6,468,327:88:0	
792	2	73	05:54:25.800	488EZ6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2R0	4	0	6,468,407:85:0	
793	2	73	06:23:31.800	488EZ6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R0	4	0	6,468,436:65:0	
794	2	73	07:32:33.800	488EZ6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2R0	4	0	6,468,504:90:0	
795	2	73	08:16:41.133	488EZ6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2R0	4	0	6,468,548:57:0	
796	2	73	08:25:53.800	488FA6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2R0	4	0	6,468,557:67:0	
797	2	74	00:22:35.066	488FB6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2R0	4	0	6,469,503:83:0	
798	2	74	06:02:57.733	488FB6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R0	4	0	6,469,840:50:0	
799	2	74	07:29:33.733	488FC6A	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2R0	4	0	6,469,926:18:0	
800	2	74	07:58:39.733	488FC6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R0	4	0	6,469,954:89:0	
801	2	74	10:48:49.733	488FC6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2R0	4	0	6,470,123:25:0	
802	2	74	11:54:16.400	176UL6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	2R0	4	0	6,470,188:00:0	
803	2	74	11:55:03.066	488FC6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2R0	4	0	6,470,188:70:0	
804	2	74	11:57:05.733	488FC6E	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	2R0	4	0	6,470,190:72:0	
805	2	74	12:02:21.733	465WK6A	6DMST	5050	DMS Slew to TIC	2R0	4	0	6,470,196:00:0	
806	2	74	12:02:21.733		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 3923.00 +/-	2R0	4	0	6,470,196:00:0	
807	2	74	12:02:21.733		DMS:	: *SLEW-TIC	P7, TRACK *1, *FWD, TIC 3923.00 +/-	2R0	4	0	6,470,196:00:0	
808	2	74	12:02:28.400		DMS:	: *RUNUP	P7, TRACK 1, FWD, TIC 3923.00 +/-	2R0	4	0	6,470,196:10:0	
809	2	74	12:02:29.800		DMS:	: *AT_SPD	P7, TRACK 1, FWD, TIC *3923.12 +/-	2R0	4	0	6,470,196:12:1	
810	2	74	12:07:45.733	488FD6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2R0	4	0	6,470,201:31:0	
811	2	74	13:22:27.866		DMS:	**: *RUNDOWN**	P7, TRACK 1, FWD, TIC *5047.94 +/-	2R0	4	0	6,470,275:20:2	
812	2	74	13:22:29.066		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *5048.00 +/-	2R0	4	0	6,470,275:22:0	
813	2	74	18:00:05.733		DMS:	: *US-RUNUP	P7, TRACK 1, FWD, TIC 5048.00 +/-	2R0	4	0	6,470,549:73:0	
814	2	74	18:00:05.733	465WL6A	6DMSC	P100,4	DMS Control Tape P/B 100.8kbps	2R0	4	0	6,470,549:73:0	
815	2	74	18:00:07.133		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *5048.12 +/-	2R0	4	0	6,470,549:75:1	
816	2	74	18:00:12.400		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *5049.35 +/-	2R0	4	0	6,470,549:83:0	
817	2	74	18:00:13.600		DMS:	: *RUNUP	P100, TRACK *4, *REV, TIC *5049.41 +/-	2R0	4	0	6,470,549:84:8	
818	2	74	18:00:17.466		DMS:	: *AT_SPD	P100, TRACK 4, REV, TIC 5043.91 +/-	2R0	4	0	6,470,549:90:6	
819	2	74	18:00:17.466		DMS:	: *PLAYBACK	P100, TRACK 4, REV, TIC *5043.91 +/-	2R0	4	0	6,470,549:90:6	
820	2	74	18:25:57.733	465WL6B	6DMSC	RDY,4	DMS Control Tape stop	2R0	4	0	6,470,575:35:0	
821	2	74	18:25:57.733		DMS:	**: *RUNDOWN**	P100, TRACK 4, REV, TIC * 305.79 +/-	2R0	4	0	6,470,575:35:0	
822	2	74	18:25:58.933		DMS:	: *READY	RDY, TRACK 4, REV, TIC * 304.99 +/-	2R0	4	0	6,470,575:36:8	
823	2	74	19:02:29.066	488FE6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2R0	4	0	6,470,611:46:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
824	2	74	20:26:47.733	465WM6A	6DTRN	CMD,6DTRN,465WM6	DMS TRACK TURNAROUND	2R0	4	0	6,470,694:81:0	
825	2	74	20:26:47.733		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 304.99 +/-	2R0	4	0	6,470,694:81:0	
826	2	74	20:26:47.733		DMS:	: *DMS-TURN	P7, TRACK 4, REV, TIC 304.99 +/-	2R0	4	0	6,470,694:81:0	
827	2	74	20:26:49.133		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 305.11 +/-	2R0	4	0	6,470,694:83:1	
828	2	74	20:26:54.400		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 306.34 +/-	2R0	4	0	6,470,695:00:0	
829	2	74	20:26:55.600		DMS:	: *RUNUP	P7, TRACK *4, *REV, TIC * 306.40 +/-	2R0	4	0	6,470,695:01:8	
830	2	74	20:26:57.000		DMS:	: *AT_SPD	P7, TRACK 4, REV, TIC * 306.28 +/-	2R0	4	0	6,470,695:03:9	
831	2	74	20:34:09.066	488FE6B	6TMSED	NORM,AH6	Sci, Eng, and D/L Chan	2R0	4	0	6,470,702:15:0	
832	2	74	20:34:31.000		DMS:	: *REVERSE	P7, TRACK 4, REV, TIC * 199.87 +/-	2R0	4	0	6,470,702:47:9	
833	2	74	20:34:32.200		DMS:	: *RUNUP	P7, TRACK 1, FWD, TIC 199.81 +/-	2R0	4	0	6,470,702:49:7	
834	2	74	20:34:32.200		DMS:	: *TURNARND	P7, TRACK *1, *FWD, TIC * 199.81 +/-	2R0	4	0	6,470,702:49:7	
835	2	74	20:34:33.600		DMS:	: *AT_SPD	P7, TRACK 1, FWD, TIC * 199.93 +/-	2R0	4	0	6,470,702:51:8	
836	2	74	20:34:45.600		DMS:	: *AUTOSTOP	P7, TRACK 1, FWD, TIC * 202.06 +/-	2R0	4	0	6,470,702:69:8	
837	2	74	20:34:46.800		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 202.12 +/-	2R0	4	0	6,470,702:71:6	
838	2	74	20:40:53.066	465WN6A	6DMSC	P100,1	DMS Control Tape P/B 100.8kbps	2R0	4	0	6,470,708:75:0	
839	2	74	20:40:53.066		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 202.12 +/-	2R0	4	0	6,470,708:75:0	
840	2	74	20:40:59.733		DMS:	: *RUNUP	P100, TRACK 1, FWD, TIC 202.12 +/-	2R0	4	0	6,470,708:85:0	
841	2	74	20:41:03.600		DMS:	: *AT_SPD	P100, TRACK 1, FWD, TIC 207.62 +/-	2R0	4	0	6,470,708:90:8	
842	2	74	20:41:03.600		DMS:	: *PLAYBACK	P100, TRACK 1, FWD, TIC * 207.62 +/-	2R0	4	0	6,470,708:90:8	
843	2	74	21:12:47.066		DMS:	**: *RUNDOWN**	P100, TRACK 1, FWD, TIC *6063.01 +/-	2R0	4	0	6,470,740:34:0	
844	2	74	21:12:47.066	465WN6B	6DMSC	RDY,1	DMS Control Tape stop	2R0	4	0	6,470,740:34:0	
845	2	74	21:12:48.266		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *6063.81 +/-	2R0	4	0	6,470,740:35:8	
846	2	74	21:28:23.066	465WO6A	6DMSC	P100,2	DMS Control Tape P/B 100.8kbps	2R0	4	0	6,470,755:73:0	
847	2	74	21:28:23.066		DMS:	: *US-RUNUP	P7, TRACK 1, FWD, TIC 6063.81 +/-	2R0	4	0	6,470,755:73:0	
848	2	74	21:28:24.466		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *6063.93 +/-	2R0	4	0	6,470,755:75:1	
849	2	74	21:28:29.733		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *6065.17 +/-	2R0	4	0	6,470,755:83:0	
850	2	74	21:28:30.933		DMS:	: *RUNUP	P100, TRACK *2, *REV, TIC *6065.23 +/-	2R0	4	0	6,470,755:84:8	
851	2	74	21:28:34.800		DMS:	: *PLAYBACK	P100, TRACK 2, REV, TIC *6059.73 +/-	2R0	4	0	6,470,755:90:6	
852	2	74	21:28:34.800		DMS:	: *AT_SPD	P100, TRACK 2, REV, TIC 6059.73 +/-	2R0	4	0	6,470,755:90:6	
853	2	74	22:00:31.066	465WP6A	6DMSC	P100,3	DMS Control Tape P/B 100.8kbps	2R0	4	0	6,470,787:53:0	
854	2	74	22:00:31.066		DMS:	**: *RUNDOWN**	P100, TRACK 2, REV, TIC * 164.96 +/-	2R0	4	0	6,470,787:53:0	
855	2	74	22:00:32.266		DMS:	: *RUNUP	P100, TRACK *3, *FWD, TIC * 164.16 +/-	2R0	4	0	6,470,787:54:8	
856	2	74	22:00:36.133		DMS:	: *PLAYBACK	P100, TRACK 3, FWD, TIC * 169.66 +/-	2R0	4	0	6,470,787:60:6	
857	2	74	22:00:36.133		DMS:	: *AT_SPD	P100, TRACK 3, FWD, TIC 169.66 +/-	2R0	4	0	6,470,787:60:6	
858	2	74	22:32:31.733	465WP6B	6DMSC	RDY,3	DMS Control Tape stop	2R0	4	0	6,470,819:22:0	
859	2	74	22:32:31.733		DMS:	**: *RUNDOWN**	P100, TRACK 3, FWD, TIC *6062.38 +/-	2R0	4	0	6,470,819:22:0	
860	2	74	22:32:32.933		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *6063.18 +/-	2R0	4	0	6,470,819:23:8	
861	2	74	22:43:29.733	488FE6C	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	2R0	4	0	6,470,830:08:0	
862	2	74	22:47:15.066		DMS:	: *US-RUNUP	P7, TRACK *1, FWD, TIC 6063.18 +/-	2R0	4	0	6,470,833:73:0	
863	2	74	22:47:15.066	465WQ6A	6DMSC	P100,4	DMS Control Tape P/B 100.8kbps	2R0	4	0	6,470,833:73:0	
864	2	74	22:47:16.466		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *6063.30 +/-	2R0	4	0	6,470,833:75:1	
865	2	74	22:47:21.733		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *6064.53 +/-	2R0	4	0	6,470,833:83:0	
866	2	74	22:47:22.933		DMS:	: *RUNUP	P100, TRACK *4, *REV, TIC *6064.59 +/-	2R0	4	0	6,470,833:84:8	
867	2	74	22:47:26.800		DMS:	: *AT_SPD	P100, TRACK 4, REV, TIC 6059.09 +/-	2R0	4	0	6,470,833:90:6	
868	2	74	22:47:26.800		DMS:	: *PLAYBACK	P100, TRACK 4, REV, TIC *6059.09 +/-	2R0	4	0	6,470,833:90:6	
869	2	74	23:19:22.400	465WR6A	6DMSC	P100,3	DMS Control Tape P/B 100.8kbps	2R0	4	0	6,470,865:52:0	
870	2	74	23:19:22.400		DMS:	**: *RUNDOWN**	P100, TRACK 4, REV, TIC * 166.38 +/-	2R0	4	0	6,470,865:52:0	
871	2	74	23:19:23.600		DMS:	: *RUNUP	P100, TRACK *3, *FWD, TIC * 165.58 +/-	2R0	4	0	6,470,865:53:8	
872	2	74	23:19:27.466		DMS:	: *PLAYBACK	P100, TRACK 3, FWD, TIC * 171.08 +/-	2R0	4	0	6,470,865:59:6	
873	2	74	23:19:27.466		DMS:	: *AT_SPD	P100, TRACK 3, FWD, TIC 171.08 +/-	2R0	4	0	6,470,865:59:6	
874	2	74	23:20:28.400	465WR6B	6DMSC	RDY,3	DMS Control Tape stop	2R0	4	0	6,470,866:60:0	
875	2	74	23:20:28.400		DMS:	**: *RUNDOWN**	P100, TRACK 3, FWD, TIC * 358.52 +/-	2R0	4	0	6,470,866:60:0	
876	2	74	23:20:29.600		DMS:	: *READY	RDY, TRACK 3, FWD, TIC * 359.32 +/-	2R0	4	0	6,470,866:61:8	
877	2	74	23:20:59.066	488FE6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R0	4	0	6,470,867:15:0	
878	2	74	23:34:58.400	465WS6A	6DMSC	RDY,4	DMS Control Tape stop	2R0	4	0	6,470,881:00:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
879	2	74	23:34:58.400		DMS:	: READY	RDY, TRACK *4, *REV, TIC 359.32 +/-	2R0	4	0	6,470,881:00:0
880	2	74	23:35:52.400	465WT6A	6DTRN	CMD,6DTRN,465WT6	DMS TRACK TURNAROUND	2R0	4	0	6,470,881:81:0
881	2	74	23:35:52.400		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 359.32 +/-	2R0	4	0	6,470,881:81:0
882	2	74	23:35:52.400		DMS:	: *DMS-TURN	P7, TRACK 4, REV, TIC 359.32 +/-	2R0	4	0	6,470,881:81:0
883	2	74	23:35:53.800		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 359.44 +/-	2R0	4	0	6,470,881:83:1
884	2	74	23:35:59.066		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 360.67 +/-	2R0	4	0	6,470,882:00:0
885	2	74	23:36:00.266		DMS:	: *RUNUP	P7, TRACK *4, *REV, TIC * 360.73 +/-	2R0	4	0	6,470,882:01:8
886	2	74	23:36:01.666		DMS:	: *AT_SPD	P7, TRACK 4, REV, TIC * 360.61 +/-	2R0	4	0	6,470,882:03:9
887	2	74	23:47:27.466		DMS:	: *REVERSE	P7, TRACK 4, REV, TIC * 199.87 +/-	2R0	4	0	6,470,893:31:6
888	2	74	23:47:28.666		DMS:	: *TURNARND	P7, TRACK *1, *FWD, TIC * 199.81 +/-	2R0	4	0	6,470,893:33:4
889	2	74	23:47:28.666		DMS:	: *RUNUP	P7, TRACK 1, FWD, TIC 199.81 +/-	2R0	4	0	6,470,893:33:4
890	2	74	23:47:29.733	488FE6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2R0	4	0	6,470,893:35:0
891	2	74	23:47:30.066		DMS:	: *AT_SPD	P7, TRACK 1, FWD, TIC * 199.93 +/-	2R0	4	0	6,470,893:35:5
892	2	74	23:47:42.066		DMS:	: *AUTOSTOP	P7, TRACK 1, FWD, TIC * 202.06 +/-	2R0	4	0	6,470,893:53:5
893	2	74	23:47:43.266		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 202.12 +/-	2R0	4	0	6,470,893:55:3
894	2	75	00:04:17.733	176UK6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	2R0	4	0	6,470,910:00:0
895	2	75	04:22:41.733	488FF6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2R0	4	0	6,471,165:51:0
896	2	75	05:41:37.733	488FF6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R0	4	0	6,471,243:57:0
897	2	75	05:49:41.733	488FF6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2R0	4	0	6,471,251:55:0
898	2	75	06:18:47.733	488FF6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R0	4	0	6,471,280:35:0
899	2	75	10:42:25.666	488FG6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2R0	4	0	6,471,541:11:0
900	2	75	11:54:57.000	488FG6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2R0	4	0	6,471,612:77:0
901	2	75	11:57:05.666	488FG6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	2R0	4	0	6,471,614:88:0
902	2	75	12:07:45.666	488FG6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2R0	4	0	6,471,625:47:0
903	2	75	23:47:20.333	488FH6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2R0	4	0	6,472,317:37:0
904	2	76	06:47:45.666	488FI6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R0	4	0	6,472,733:19:0
905	2	76	07:47:29.666	488FI6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2R0	4	0	6,472,792:26:0
906	2	76	08:06:41.666	488FI6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2R0	4	0	6,472,811:25:0
907	2	76	10:57:21.666	488FI6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R0	4	0	6,472,980:06:0
908	2	76	11:48:33.666	488FI6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2R0	4	0	6,473,030:64:0
909	2	76	11:51:17.000	488FJ6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2R0	4	0	6,473,033:36:0
910	2	76	12:01:21.666	488FJ6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2R0	4	0	6,473,043:33:0
911	2	76	20:52:12.933	488FK6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2R0	4	0	6,473,568:35:0
912	2	76	22:28:33.600	488FK6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R0	4	0	6,473,663:61:0
913	2	77	00:08:49.600	488FK6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2R0	4	0	6,473,762:76:0
914	2	77	00:31:12.933	488FK6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2R0	4	0	6,473,784:89:0
915	2	77	00:40:49.600	488FK6E	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2R0	4	0	6,473,794:44:0
916	2	77	04:13:04.933	488FL6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R0	4	0	6,474,004:37:0
917	2	77	05:34:56.266	488FL6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2R0	4	0	6,474,085:33:0
918	2	77	06:04:02.933	488FL6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R0	4	0	6,474,114:14:0
919	2	77	06:30:00.266		DMS:	: READY	RDY, TRACK 1, FWD, TIC 201.00 +/-	2R0	4	0	6,474,139:75:0
920	2	77	06:34:13.600	176MC6A	6TMREC	**TPB**	TERMINATE PLAYBACK (PB CONTROL) Record Mo	2R0	4	0	6,474,144:00:0
921	2	77	06:36:14.933	465MA6A	6DMST	3900	DMS Slew to TIC	2R0	4	0	6,474,146:00:0
922	2	77	06:36:14.933		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 201.00 +/-	2R0	4	0	6,474,146:00:0
923	2	77	06:36:14.933		DMS:	: *SLEW-TIC	P7, TRACK 1, FWD, TIC 201.00 +/-	2R0	4	0	6,474,146:00:0
924	2	77	06:36:21.600		DMS:	: *RUNUP	P7, TRACK 1, FWD, TIC 201.00 +/-	2R0	4	0	6,474,146:10:0
925	2	77	06:36:23.000		DMS:	: *AT_SPD	P7, TRACK 1, FWD, TIC * 201.12 +/-	2R0	4	0	6,474,146:12:1
926	2	77	10:59:15.066		DMS:	**: *RUNDOWN**	P7, TRACK 1, FWD, TIC *3897.94 +/-	2R0	4	0	6,474,406:10:2
927	2	77	10:59:16.266		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *3898.00 +/-	2R0	4	0	6,474,406:12:0
928	2	77	12:24:04.266	465MB6A	6DMSC	RDY,4	DMS Control Tape stop	2R0	4	0	6,474,490:00:0
929	2	77	12:24:04.266		DMS:	: READY	RDY, TRACK *4, *REV, TIC 3898.00 +/-	2R0	4	0	6,474,490:00:0
930	**2**	**77**	**12:30:12.000**	**33NNRCTCAL01-**		**-----START------**		**2R0**	**4**	**0**	**: :**
931	2	77	12:44:21.600	20FX4A	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	2R0	4	0	6,474,510:06:0
932	2	77	12:48:28.266	20FX4B	**7SAFE**	**STOP**	S/P NO MOVEMENT	2R0	4	0	6,474,514:12:0
933	2	77	12:49:18.266	20FX4C	7SLEW	DIS,POS,0.0	Stator movement	2R0	4	0	6,474,514:87:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters		Description	GCM	GO	GS	RIM MF I
934	2	77	12:52:22.933	185XE10A3A	40HRP		1	RCT Heater ON (primary relay)	2R0	4	0	6,474,518:00:0
935	2	77	12:52:28.266	185XE10B3A	40HRP		2	RCT Heater ON (primary relay)	2R0	4	0	6,474,518:08:0
936	2	78	00:43:57.600	20FX5A	37PL			Program Load (halts microprocessor & unwri		4	0	6,475,221:69:0
937	2	78	00:44:04.933	20FX5B	37MRL			Memory Realocate (software operates from R		4	0	6,475,221:80:0
938	2	78	00:44:12.933	20FX6A	6MCOPY	NIMS		NIMS,1000,LLM1A,7300,77F7		4	0	6,475,222:01:0
939	2	78	00:44:22.933	20FX6B	6MCOPY	NIMS		NIMS,1598,LLM1A,77F8,781D		4	0	6,475,222:16:0
940	2	78	00:44:32.933	20FX5C	37IRT			Instrument Reset (goes into POR state)		4	0	6,475,222:31:0
941	2	78	00:44:34.266	20FX5D	37MN			Memory Normal (software operates from ROM)	260	4	0	6,475,222:33:0
942	2	78	00:47:09.600	125XE	NIMSINIT	GS		##### GROUP START INIT	260	4	0	6,475,224:84:0
943	2	78	00:47:09.600	125XE4A	37IST	1,0,0,OFF,0,0,0		Chopper ON, Sync, 63Hz (Ref)	260	4	0	6,475,224:84:0
944	2	78	00:48:10.266	125XE4B	37IST	1,2,0,OFF,0,0,0		Chopper ON, Sync, Chopper (Ref)	2R0	4	0	6,475,225:84:0
945	2	78	00:49:10.933	125XE4C	37IST	0,2,0,OFF,0,1,3		Gain State 1	1R0	4	0	6,475,226:84:0
946	2	78	00:50:11.600	125XE11A	NIMSINIT	GE		##### GROUP END INIT	1R0	4	0	6,475,227:84:0
947	2	78	00:50:11.600	125XE4D	37MB	0,0,0,0,0,0		Selects mirror (spatial) edit table	1R0	4	0	6,475,227:84:0
948	2	78	00:52:12.933	127XE4A	37IOP	3,0		Long Map, Grating Start Position =00	1R3	4	0	6,475,229:84:0
949	2	78	00:52:12.933	127XE	NIMSTAB	GS		%%%%% GROUP START TAB	1R3	4	0	6,475,229:84:0
950	2	78	00:52:13.600	127XE4B	37ETB	04,C4,35,FF,FF		Loads wavelength edit table	1R3	4	0	6,475,229:85:0
951	2	78	00:52:21.600	127XE11A	NIMSTAB	GE		%%%%% GROUP END TAB	1R3	4	0	6,475,230:06:0
952	2	78	00:57:58.266	185XE10C3A	40HRPR		1	RCT Heater OFF (primary relay)	1R3	4	0	6,475,235:56:0
953	2	78	00:58:00.266	20FX4F	7SCAN	NORM,106.89,22.6		Check S/P Position	1R3	4	0	6,475,235:59:0
954	2	78	00:58:03.600	185XE10D3A	40HRPR		2	RCT Heater OFF (primary relay)	1R3	4	0	6,475,235:64:0
955	2	78	01:02:09.600		DMS:	: *US-RUNUP		P7, TRACK *1, *FWD, TIC 3898.00 +/-	1R3	4	0	6,475,239:69:0
956	2	78	01:02:09.600	20XE422A6B	6DMSC	R28,0		DMS Control Tape runup 28.8kbp	1R3	4	0	6,475,239:69:0
957	2	78	01:02:11.000		DMS:	: *US_AT_SP		P7, TRACK 1, FWD, TIC *3898.12 +/-	1R3	4	0	6,475,239:71:1
958	2	78	01:02:16.266		DMS:	: *US_RD		P7, TRACK 1, FWD, TIC *3899.35 +/-	1R3	4	0	6,475,239:79:0
959	2	78	01:02:17.466		DMS:	: *RUNUP		R28, TRACK *4, *REV, TIC *3899.41 +/-	1R3	4	0	6,475,239:80:8
960	2	78	01:02:20.933	20XE176A6B	6TMREC	MPW		28.8 KBPS PWS + NIMS RECORD Record Mode C	1R3	4	0	6,475,239:86:0
961	2	78	01:02:21.466		DMS:	: *AT_SPD		R28, TRACK 4, REV, TIC 3897.91 +/-	1R3	4	0	6,475,239:86:8
962	2	78	01:02:21.466		DMS:	: *RECORD		R28, TRACK 4, REV, TIC *3897.91 +/-	1R3	4	0	6,475,239:86:8
963	2	78	01:02:22.266	33NNRCTCAL01,	NIMPBK	301FE		NIMS RCT CAL	1R3	4	0	: :
964	2	78	01:02:24.266	192XE4A	7CONE	17.0,0.0		Check S/P Position	1R3	4	0	6,475,240:00:0
965	2	78	01:14:32.266	192XE4B	7CONE	17.0,119.7		Check S/P Position	1R3	4	0	6,475,252:00:0
966	2	78	01:15:28.000	33NNRCTCAL01,	DESELC	300FE		NIMS RCT CAL	1R3	4	0	: :
967	2	78	01:15:30.266	20XE422A6C	6DMSC	RDY,0		DMS Control Tape stop	1R3	4	0	6,475,252:87:0
968	2	78	01:15:30.266		DMS:	: *RUNDOWN		R28, TRACK 4, REV, TIC *3204.63 +/-	1R3	4	0	6,475,252:87:0
969	2	78	01:15:31.466		DMS:	: *READY		RDY, TRACK 4, REV, TIC *3204.33 +/-	1R3	4	0	6,475,252:88:8
970	2	78	01:20:36.266	192XE4C	7CONE	17.0,153.0		Check S/P Position	1R3	4	0	6,475,258:00:0
971	2	78	01:27:36.266	127XF	NIMSTAB	GS		%%%%% GROUP START TAB	1R3	4	0	6,475,264:84:0
972	2	78	01:27:36.266	127XF4A	37IOP	0,0		Safe, Grating Start Position =00	1R0	4	0	6,475,264:84:0
973	2	78	01:27:36.933	127XF4B	37ETB	04,C4,02,00,00		Loads wavelength edit table	1R0	4	0	6,475,264:85:0
974	2	78	01:27:44.933	127XF11A	NIMSTAB	GE		%%%%% GROUP END TAB	1R0	4	0	6,475,265:06:0
975	2	78	01:30:38.266	125XF4A	37MB	0,0,0,0,0,0		Selects mirror (spatial) edit table	1R0	4	0	6,475,267:84:0
976	2	78	01:30:38.266	125XF	NIMSINIT	GS		##### GROUP START INIT	1R0	4	0	6,475,267:84:0
977	2	78	01:31:38.933	125XF4B	37IST	1,0,0,OFF,0,0,0		Chopper ON, Sync, 63Hz (Ref)	160	4	0	6,475,268:84:0
978	2	78	01:32:39.600	125XF11A	NIMSINIT	GE		##### GROUP END INIT	160	4	0	6,475,269:84:0
979	2	78	01:32:39.600	125XF4C	37IST	1,1,0,OFF,0,0,0		Chopper OFF, N/A, 63Hz (Ref)	1O0	4	0	6,475,269:84:0
980	2	78	01:49:02.933	20FX4D	7SAFE	STOP		S/P NO MOVEMENT	1O0	4	0	6,475,286:12:0
981	2	78	01:49:52.933	20FX4E	7SLEW	DIS,POS,0.0		Stator movement	1O0	4	0	6,475,286:87:0
982	2	78	01:51:58.000	33NNRCTCAL01-		-----STOP-------			1O0	4	0	: :
983	2	78	01:58:56.933		DMS:	: *US-RUNUP		P7, TRACK *1, *FWD, TIC 3204.33 +/-	1O0	4	0	6,475,295:84:0
984	2	78	01:58:56.933	20XE422A6D	6DMSC	R115,0		DMS Control Tape runup 115.2kb	1O0	4	0	6,475,295:84:0
985	2	78	01:58:58.333		DMS:	: *US_AT_SP		P7, TRACK 1, FWD, TIC *3204.45 +/-	1O0	4	0	6,475,295:86:1
986	2	78	01:59:03.600		DMS:	: *US_RD		P7, TRACK 1, FWD, TIC *3205.69 +/-	1O0	4	0	6,475,296:03:0
987	2	78	01:59:04.800		DMS:	: *RUNUP		R115, TRACK *4, *REV, TIC *3205.75 +/-	1O0	4	0	6,475,296:04:8
988	2	78	01:59:08.266	20XE176A6D	6TMREC	HIM		115.2 KBPS SSI + NIMS RECORD Record Mode	1O0	4	0	6,475,296:10:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
989	2	78	01:59:08.800		DMS:	**: *RECORD**	R115, TRACK 4, REV, TIC *3199.45 +/-	1O0	4	0	6,475,296:10:8
990	2	78	01:59:08.800		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC 3199.45 +/-	1O0	4	0	6,475,296:10:8
991	2	78	02:02:04.266	20XE422A6E	6DMSC	RDY,0	DMS Control Tape stop	1O0	4	0	6,475,299:01:0
992	2	78	02:02:04.266		DMS:	**: *RUNDOWN**	R115, TRACK 4, REV, TIC *2582.57 +/-	1O0	4	0	6,475,299:01:0
993	2	78	02:02:05.466		DMS:	: *READY	RDY, TRACK 4, REV, TIC *2581.57 +/-	1O0	4	0	6,475,299:02:8
994	2	78	02:03:56.266	20XE422A6F	6DMSC	R115,0	DMS Control Tape runup 115.2kb	1O0	4	0	6,475,300:78:0
995	2	78	02:03:56.266		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 2581.57 +/-	1O0	4	0	6,475,300:78:0
996	2	78	02:03:57.666		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *2581.69 +/-	1O0	4	0	6,475,300:80:1
997	2	78	02:04:02.933		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *2582.93 +/-	1O0	4	0	6,475,300:88:0
998	2	78	02:04:04.133		DMS:	: *RUNUP	R115, TRACK *4, *REV, TIC *2582.99 +/-	1O0	4	0	6,475,300:89:8
999	2	78	02:04:07.600	20XE176A6F	6TMREC	**HMA**	115.2 KBPS IMAGE(1-400)RECORD Record Mode	1O0	4	0	6,475,301:04:0
1000	2	78	02:04:08.133		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC 2576.69 +/-	1O0	4	0	6,475,301:04:8
1001	2	78	02:04:08.133		DMS:	**: *RECORD**	R115, TRACK 4, REV, TIC *2576.69 +/-	1O0	4	0	6,475,301:04:8
1002	2	78	02:04:35.600	20XE422A6G	6DMSC	RDY,0	DMS Control Tape stop	1O0	4	0	6,475,301:46:0
1003	2	78	02:04:35.600		DMS:	**: *RUNDOWN**	R115, TRACK 4, REV, TIC *2480.12 +/-	1O0	4	0	6,475,301:46:0
1004	2	78	02:04:36.800		DMS:	: *READY	RDY, TRACK 4, REV, TIC *2479.12 +/-	1O0	4	0	6,475,301:47:8
1005	2	78	02:05:57.600	20XE422A6H	6DMSC	R115,0	DMS Control Tape runup 115.2kb	1O0	4	0	6,475,302:78:0
1006	2	78	02:05:57.600		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 2479.12 +/-	1O0	4	0	6,475,302:78:0
1007	2	78	02:05:59.000		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *2479.24 +/-	1O0	4	0	6,475,302:80:1
1008	2	78	02:06:04.266		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *2480.48 +/-	1O0	4	0	6,475,302:88:0
1009	2	78	02:06:05.466		DMS:	: *RUNUP	R115, TRACK *4, *REV, TIC *2480.54 +/-	1O0	4	0	6,475,302:89:8
1010	2	78	02:06:08.933	20XE176A6H	6TMREC	**HMA**	115.2 KBPS IMAGE(1-400)RECORD Record Mode	1O0	4	0	6,475,303:04:0
1011	2	78	02:06:09.466		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC 2474.24 +/-	1O0	4	0	6,475,303:04:8
1012	2	78	02:06:09.466		DMS:	**: *RECORD**	R115, TRACK 4, REV, TIC *2474.24 +/-	1O0	4	0	6,475,303:04:8
1013	2	78	02:07:07.600	20XE422A6I	6DMSC	RDY,0	DMS Control Tape stop	1O0	4	0	6,475,304:01:0
1014	2	78	02:07:07.600		DMS:	**: *RUNDOWN**	R115, TRACK 4, REV, TIC *2269.86 +/-	1O0	4	0	6,475,304:01:0
1015	2	78	02:07:08.800		DMS:	: *READY	RDY, TRACK 4, REV, TIC *2268.86 +/-	1O0	4	0	6,475,304:02:8
1016	2	78	02:09:14.266		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 2268.86 +/-	1O0	4	0	6,475,306:09:0
1017	2	78	02:09:14.266	20XE422A6J	6DMSC	R806,0	DMS Control Tape runup 806.4kb	1O0	4	0	6,475,306:09:0
1018	2	78	02:09:15.666		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *2268.98 +/-	1O0	4	0	6,475,306:11:1
1019	2	78	02:09:20.933		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *2270.22 +/-	1O0	4	0	6,475,306:19:0
1020	2	78	02:09:22.133		DMS:	: *RUNUP	R806, TRACK *4, *REV, TIC *2270.28 +/-	1O0	4	0	6,475,306:20:8
1021	2	78	02:09:26.933	20XE176A6J	6TMREC	**IM8**	806.4 KBPS IMAGE RECORD Record Mode Chang	1O0	4	0	6,475,306:28:0
1022	2	78	02:09:27.400		DMS:	: *AT_SPD	R806, TRACK 4, REV, TIC 2204.28 +/-	1O0	4	0	6,475,306:28:7
1023	2	78	02:09:27.400		DMS:	**: *RECORD**	R806, TRACK 4, REV, TIC *2204.28 +/-	1O0	4	0	6,475,306:28:7
1024	2	78	02:09:42.933	20XE422A6K	6DMSC	RDY,0	DMS Control Tape stop	1O0	4	0	6,475,306:52:0
1025	2	78	02:09:42.933		DMS:	**: *RUNDOWN**	R806, TRACK 4, REV, TIC *1822.01 +/-	1O0	4	0	6,475,306:52:0
1026	2	78	02:09:45.666		DMS:	: *READY	RDY, TRACK 4, REV, TIC *1810.51 +/-	1O0	4	0	6,475,306:56:1
1027	2	78	02:20:10.933	20XE422A6L	6DMSC	R115,0	DMS Control Tape runup 115.2kb	1O0	4	0	6,475,316:84:0
1028	2	78	02:20:10.933		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 1810.51 +/-	1O0	4	0	6,475,316:84:0
1029	2	78	02:20:12.333		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *1810.63 +/-	1O0	4	0	6,475,316:86:1
1030	2	78	02:20:17.600		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *1811.87 +/-	1O0	4	0	6,475,317:03:0
1031	2	78	02:20:18.800		DMS:	: *RUNUP	R115, TRACK *4, *REV, TIC *1811.93 +/-	1O0	4	0	6,475,317:04:8
1032	2	78	02:20:22.266	20XE176A6L	6TMREC	**HIM**	115.2 KBPS SSI + NIMS RECORD Record Mode	1O0	4	0	6,475,317:10:0
1033	2	78	02:20:22.800		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC 1805.63 +/-	1O0	4	0	6,475,317:10:8
1034	2	78	02:20:22.800		DMS:	**: *RECORD**	R115, TRACK 4, REV, TIC *1805.63 +/-	1O0	4	0	6,475,317:10:8
1035	2	78	02:21:16.933		DMS:	**: *RUNDOWN**	R115, TRACK 4, REV, TIC *1615.31 +/-	1O0	4	0	6,475,318:01:0
1036	2	78	02:21:16.933	20XE422A6M	6DMSC	RDY,0	DMS Control Tape stop	1O0	4	0	6,475,318:01:0
1037	2	78	02:21:18.133		DMS:	: *READY	RDY, TRACK 4, REV, TIC *1614.31 +/-	1O0	4	0	6,475,318:02:8
1038	2	78	02:30:17.600	20XE422A6N	6DMSC	R115,0	DMS Control Tape runup 115.2kb	1O0	4	0	6,475,326:84:0
1039	2	78	02:30:17.600		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 1614.31 +/-	1O0	4	0	6,475,326:84:0
1040	2	78	02:30:19.000		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *1614.43 +/-	1O0	4	0	6,475,326:86:1
1041	2	78	02:30:24.266		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *1615.67 +/-	1O0	4	0	6,475,327:03:0
1042	2	78	02:30:25.466		DMS:	: *RUNUP	R115, TRACK *4, *REV, TIC *1615.73 +/-	1O0	4	0	6,475,327:04:8
1043	2	78	02:30:28.933	20XE176A6N	6TMREC	**HIM**	115.2 KBPS SSI + NIMS RECORD Record Mode	1O0	4	0	6,475,327:10:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
1044	2	78	02:30:29.466		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC 1609.43 +/-	1O0	4	0	6,475,327:10:8
1045	2	78	02:30:29.466		DMS:	**: *RECORD**	R115, TRACK 4, REV, TIC *1609.43 +/-	1O0	4	0	6,475,327:10:8
1046	2	78	02:31:23.600	20XE422A6O	6DMSC	RDY,0	DMS Control Tape stop	1O0	4	0	6,475,328:01:0
1047	2	78	02:31:23.600		DMS:	**: *RUNDOWN**	R115, TRACK 4, REV, TIC *1419.12 +/-	1O0	4	0	6,475,328:01:0
1048	2	78	02:31:24.800		DMS:	: *READY	RDY, TRACK 4, REV, TIC *1418.12 +/-	1O0	4	0	6,475,328:02:8
1049	2	78	02:40:24.266		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 1418.12 +/-	1O0	4	0	6,475,336:84:0
1050	2	78	02:40:24.266	20XE422A6P	6DMSC	R115,0	DMS Control Tape runup 115.2kb	1O0	4	0	6,475,336:84:0
1051	2	78	02:40:25.666		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *1418.24 +/-	1O0	4	0	6,475,336:86:1
1052	2	78	02:40:30.933		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *1419.47 +/-	1O0	4	0	6,475,337:03:0
1053	2	78	02:40:32.133		DMS:	: *RUNUP	R115, TRACK *4, *REV, TIC *1419.53 +/-	1O0	4	0	6,475,337:04:8
1054	2	78	02:40:35.600	20XE176A6P	6TMREC	**HIM**	115.2 KBPS SSI + NIMS RECORD Record Mode	1O0	4	0	6,475,337:10:0
1055	2	78	02:40:36.133		DMS:	**: *RECORD**	R115, TRACK 4, REV, TIC *1413.23 +/-	1O0	4	0	6,475,337:10:8
1056	2	78	02:40:36.133		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC 1413.23 +/-	1O0	4	0	6,475,337:10:8
1057	2	78	02:41:30.266		DMS:	**: *RUNDOWN**	R115, TRACK 4, REV, TIC *1222.92 +/-	1O0	4	0	6,475,338:01:0
1058	2	78	02:41:30.266	20XE422A6Q	6DMSC	RDY,0	DMS Control Tape stop	1O0	4	0	6,475,338:01:0
1059	2	78	02:41:31.466		DMS:	: *READY	RDY, TRACK 4, REV, TIC *1221.92 +/-	1O0	4	0	6,475,338:02:8
1060	2	78	02:50:30.933		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 1221.92 +/-	1O0	4	0	6,475,346:84:0
1061	2	78	02:50:30.933	20XE422A6R	6DMSC	R115,0	DMS Control Tape runup 115.2kb	1O0	4	0	6,475,346:84:0
1062	2	78	02:50:32.333		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *1222.04 +/-	1O0	4	0	6,475,346:86:1
1063	2	78	02:50:37.600		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *1223.27 +/-	1O0	4	0	6,475,347:03:0
1064	2	78	02:50:38.800		DMS:	: *RUNUP	R115, TRACK *4, *REV, TIC *1223.33 +/-	1O0	4	0	6,475,347:04:8
1065	2	78	02:50:42.266	20XE176A6R	6TMREC	**HIM**	115.2 KBPS SSI + NIMS RECORD Record Mode	1O0	4	0	6,475,347:10:0
1066	2	78	02:50:42.800		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC 1217.03 +/-	1O0	4	0	6,475,347:10:8
1067	2	78	02:50:42.800		DMS:	**: *RECORD**	R115, TRACK 4, REV, TIC *1217.03 +/-	1O0	4	0	6,475,347:10:8
1068	2	78	02:51:36.933	20XE422A6S	6DMSC	RDY,0	DMS Control Tape stop	1O0	4	0	6,475,348:01:0
1069	2	78	02:51:36.933		DMS:	**: *RUNDOWN**	R115, TRACK 4, REV, TIC *1026.72 +/-	1O0	4	0	6,475,348:01:0
1070	2	78	02:51:38.133		DMS:	: *READY	RDY, TRACK 4, REV, TIC *1025.72 +/- 1	1O0	4	0	6,475,348:02:8
1071	2	78	03:00:37.600		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 1025.72 +/- 1	1O0	4	0	6,475,356:84:0
1072	2	78	03:00:37.600	20XE422A6T	6DMSC	R115,0	DMS Control Tape runup 115.2kb	1O0	4	0	6,475,356:84:0
1073	2	78	03:00:39.000		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *1025.84 +/- 1	1O0	4	0	6,475,356:86:1
1074	2	78	03:00:44.266		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *1027.07 +/- 1	1O0	4	0	6,475,357:03:0
1075	2	78	03:00:45.466		DMS:	: *RUNUP	R115, TRACK *4, *REV, TIC *1027.13 +/- 1	1O0	4	0	6,475,357:04:8
1076	2	78	03:00:48.933	20XE176A6T	6TMREC	**HIM**	115.2 KBPS SSI + NIMS RECORD Record Mode	1O0	4	0	6,475,357:10:0
1077	2	78	03:00:49.466		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC 1020.83 +/- 1	1O0	4	0	6,475,357:10:8
1078	2	78	03:00:49.466		DMS:	**: *RECORD**	R115, TRACK 4, REV, TIC *1020.83 +/- 1	1O0	4	0	6,475,357:10:8
1079	2	78	03:01:43.533	20XE422A6U	6DMSC	RDY,0	DMS Control Tape stop	1O0	4	0	6,475,358:01:0
1080	2	78	03:01:43.533		DMS:	**: *RUNDOWN**	R115, TRACK 4, REV, TIC * 830.76 +/- 1	1O0	4	0	6,475,358:01:0
1081	2	78	03:01:44.733		DMS:	: *READY	RDY, TRACK 4, REV, TIC * 829.76 +/- 1	1O0	4	0	6,475,358:02:8
1082	2	78	03:15:47.533	20XE422A6V	6DMSC	R115,0	DMS Control Tape runup 115.2kb	1O0	4	0	6,475,371:84:0
1083	2	78	03:15:47.533		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 829.76 +/- 1	1O0	4	0	6,475,371:84:0
1084	2	78	03:15:48.933		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 829.88 +/- 1	1O0	4	0	6,475,371:86:1
1085	2	78	03:15:54.200		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 831.11 +/- 1	1O0	4	0	6,475,372:03:0
1086	2	78	03:15:55.400		DMS:	: *RUNUP	R115, TRACK *4, *REV, TIC * 831.17 +/- 1	1O0	4	0	6,475,372:04:8
1087	2	78	03:15:58.866	20XE176A6V	6TMREC	**HIM**	115.2 KBPS SSI + NIMS RECORD Record Mode	1O0	4	0	6,475,372:10:0
1088	2	78	03:15:59.400		DMS:	**: *RECORD**	R115, TRACK 4, REV, TIC * 824.87 +/- 1	1O0	4	0	6,475,372:10:8
1089	2	78	03:15:59.400		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC 824.87 +/- 1	1O0	4	0	6,475,372:10:8
1090	2	78	03:16:53.533	20XE422A6W	6DMSC	RDY,0	DMS Control Tape stop	1O0	4	0	6,475,373:01:0
1091	2	78	03:16:53.533		DMS:	**: *RUNDOWN**	R115, TRACK 4, REV, TIC * 634.56 +/- 1	1O0	4	0	6,475,373:01:0
1092	2	78	03:16:54.733		DMS:	: *READY	RDY, TRACK 4, REV, TIC * 633.56 +/- 1	1O0	4	0	6,475,373:02:8
1093	2	78	03:30:57.533		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 633.56 +/- 1	1O0	4	0	6,475,386:84:0
1094	2	78	03:30:57.533	20XE422A6X	6DMSC	R115,0	DMS Control Tape runup 115.2kb	1O0	4	0	6,475,386:84:0
1095	2	78	03:30:58.933		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 633.68 +/- 1	1O0	4	0	6,475,386:86:1
1096	2	78	03:31:04.200		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 634.91 +/- 1	1O0	4	0	6,475,387:03:0
1097	2	78	03:31:05.400		DMS:	: *RUNUP	R115, TRACK *4, *REV, TIC * 634.97 +/- 1	1O0	4	0	6,475,387:04:8
1098	2	78	03:31:08.866	20XE176A6X	6TMREC	**HIM**	115.2 KBPS SSI + NIMS RECORD Record Mode	1O0	4	0	6,475,387:10:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
1099	2	78	03:31:09.400		DMS:	**: *RECORD**	R115, TRACK 4, REV, TIC * 628.67 +/- 1	1O0	4	0	6,475,387:10:8
1100	2	78	03:31:09.400		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC 628.67 +/- 1	1O0	4	0	6,475,387:10:8
1101	2	78	03:32:03.533	20XE422A6Y	6DMSC	RDY,0	DMS Control Tape stop	1O0	4	0	6,475,388:01:0
1102	2	78	03:32:03.533		DMS:	**: *RUNDOWN**	R115, TRACK 4, REV, TIC * 438.36 +/- 1	1O0	4	0	6,475,388:01:0
1103	2	78	03:32:04.733		DMS:	: *READY	RDY, TRACK 4, REV, TIC * 437.36 +/- 1	1O0	4	0	6,475,388:02:8
1104	2	78	03:36:56.866	20XE422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	1O0	4	0	6,475,392:77:0
1105	2	78	03:36:56.866		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 437.36 +/- 1	1O0	4	0	6,475,392:77:0
1106	2	78	03:36:58.266		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 437.48 +/- 1	1O0	4	0	6,475,392:79:1
1107	2	78	03:37:03.533		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 438.71 +/- 1	1O0	4	0	6,475,392:87:0
1108	2	78	03:37:04.733		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC * 438.77 +/- 1	1O0	4	0	6,475,392:88:8
1109	2	78	03:37:05.533	20XE176A6A	6TMREC	**LPW**	7.68 KBPS LOW RATE SCI PWS RECORD Record	1O0	4	0	6,475,392:90:0
1110	2	78	03:37:06.133		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC * 438.65 +/- 1	1O0	4	0	6,475,392:90:9
1111	2	78	03:37:06.133		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC 438.65 +/- 1	1O0	4	0	6,475,392:90:9
1112	2	78	03:37:12.866		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC * 437.08 +/- 1	1O0	4	0	6,475,393:10:0
1113	2	78	03:37:12.866	20XE422A6Z	6DMSC	RDY,0	DMS Control Tape stop	1O0	4	0	6,475,393:10:0
1114	2	78	03:37:14.066		DMS:	: *READY	RDY, TRACK 4, REV, TIC * 437.02 +/- 1	1O0	4	0	6,475,393:11:8
1115	2	78	05:09:06.866	465MC6A	6DMST	5500	DMS Slew to TIC	1O0	4	0	6,475,484:00:0
1116	2	78	05:09:06.866		DMS:	: *SLEW-TIC	P7, TRACK *1, *FWD, TIC 437.02 +/- 1	1O0	4	0	6,475,484:00:0
1117	2	78	05:09:06.866		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 437.02 +/- 1	1O0	4	0	6,475,484:00:0
1118	2	78	05:09:13.533		DMS:	: *RUNUP	P7, TRACK 1, FWD, TIC 437.02 +/- 1	1O0	4	0	6,475,484:10:0
1119	2	78	05:09:14.933		DMS:	: *AT_SPD	P7, TRACK 1, FWD, TIC * 437.14 +/- 1	1O0	4	0	6,475,484:12:1
1120	2	78	11:09:07.000		DMS:	**: *RUNDOWN**	P7, TRACK 1, FWD, TIC *5497.94 +/- 1	1O0	4	0	6,475,840:04:2
1121	2	78	11:09:08.200		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *5498.00 +/- 1	1O0	4	0	6,475,840:06:0
1122	2	78	12:14:47.533	465MD6A	6DMSC	RDY,3	DMS Control Tape stop	1O0	4	0	6,475,905:00:0
1123	2	78	12:14:47.533		DMS:	: READY	RDY, TRACK *3, FWD, TIC 5498.00 +/- 1	1O0	4	0	6,475,905:00:0
1124	2	79	00:29:52.200	176ME6A	6TMREC	**IPB**	INITIATE PLAYBACK (PB CONTROL) Record Mod	1O0	4	0	6,476,632:00:0
1125	2	79	02:00:00.200		DMS:	: READY	RDY, TRACK 3, FWD, TIC 5498.00 +/- 1	1O0	4	0	6,476,721:13:0
1126	2	79	06:28:33.533	488FQ6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,476,986:68:0
1127	2	79	07:36:49.533	488FQ6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	6,477,054:24:0
1128	2	79	07:50:55.533	488FQ6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	1O0	4	0	6,477,068:19:0
1129	2	79	08:00:17.533	488FQ6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,477,077:43:0
1130	2	79	15:21:52.133	488FR6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,477,514:18:0
1131	2	79	22:02:57.466	488FS6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,477,910:80:0
1132	2	79	23:51:45.466	488FS6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	6,478,018:44:0
1133	2	80	00:20:50.133	488FS6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	1O0	4	0	6,478,047:22:0
1134	2	80	00:30:09.466	488FS6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,478,056:42:0
1135	2	80	04:01:48.133	488FS6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,478,265:71:0
1136	2	80	06:22:09.466	488FT6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,478,404:54:0
1137	2	80	07:32:33.466	488FT6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	6,478,474:20:0
1138	2	80	07:45:47.466	488FT6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	1O0	4	0	6,478,487:28:0
1139	2	80	07:56:01.466	488FT6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,478,497:39:0
1140	2	80	21:52:17.466	488FU6A	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,479,324:46:0
1141	2	80	21:57:35.466	488FU6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,479,329:68:0
1142	2	80	23:47:29.400	488FU6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	6,479,438:40:0
1143	2	81	00:21:37.400	488FU6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,479,472:18:0
1144	2	81	01:45:26.733	488FU6E	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,479,555:09:0
1145	2	81	02:14:32.733	488FV6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,479,583:80:0
1146	2	81	06:47:45.400	488FV6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	6,479,854:08:0
1147	2	81	07:40:39.400	488FV6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	1O0	4	0	6,479,906:37:0
1148	2	81	07:49:37.400	488FV6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,479,915:25:0
1149	2	81	15:12:29.400	488FW6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,480,353:25:0
1150	2	81	16:35:30.733	488FW6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,480,435:35:0
1151	2	81	17:04:36.733	488FW6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,480,464:15:0
1152	2	81	22:41:21.400	488FX6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	6,480,797:19:0
1153	2	82	00:10:34.066	488FX6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	1O0	4	0	6,480,885:40:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1154	2	82	04:04:12.733	488FX6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	6,481,116:47:0	
1155	2	82	04:14:09.400	488FX6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,481,126:32:0	
1156	2	82	04:58:57.400	488FY6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,481,170:60:0	
1157	2	82	10:27:29.333	488FY6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,481,495:53:0	
1158	2	82	11:22:57.333	488FZ6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	6,481,550:40:0	
1159	2	82	11:25:30.000	488FZ6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	1O0	4	0	6,481,552:87:0	
1160	2	82	11:35:45.333	488FZ6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,481,563:09:0	
1161	2	83	01:26:25.333	488GA6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,482,384:58:0	
1162	2	83	06:02:57.333	488GA6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,482,658:12:0	
1163	2	83	07:17:37.333	488GA6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	6,482,731:89:0	
1164	2	83	07:35:24.000	488GB6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	1O0	4	0	6,482,749:51:0	
1165	2	83	11:24:02.666	488GB6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	6,482,975:63:0	
1166	2	83	12:09:53.333	488GB6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,483,021:03:0	
1167	2	83	14:15:45.333	488GC6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,483,145:47:0	
1168	2	83	21:26:41.266	488GD6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,483,571:65:0	
1169	2	83	23:32:33.266	488GD6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	6,483,696:18:0	
1170	2	84	00:15:19.266	488GD6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	1O0	4	0	6,483,738:45:0	
1171	2	84	00:23:45.266	488GD6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,483,746:76:0	
1172	2	85	00:22:03.933	488GE6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,485,169:31:0	
1173	2	85	01:45:57.266	488GE6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,485,252:28:0	
1174	2	85	02:15:03.933	488GE6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,485,281:09:0	
1175	2	85	06:22:09.200	488GF6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	6,485,525:43:0	
1176	2	85	07:25:08.533	488GF6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	1O0	4	0	6,485,587:70:0	
1177	2	85	18:53:44.533	488GG6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	6,486,268:73:0	
1178	2	85	19:25:05.200	488GG6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,486,299:73:0	
1179	2	85	20:39:45.200	488GG6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,486,373:59:0	
1180	2	86	05:41:37.200	488GH6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,486,909:51:0	
1181	2	86	07:00:33.200	488GH6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	6,486,987:57:0	
1182	2	86	07:20:01.200	488GH6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	1O0	4	0	6,487,006:80:0	
1183	2	86	07:30:25.200	488GH6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,487,017:15:0	
1184	2	86	15:35:57.133	488GI6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,487,497:33:0	
1185	2	86	20:56:49.133	488GI6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,487,814:64:0	
1186	2	86	22:57:42.466	488GJ6A	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,487,934:24:0	
1187	2	86	23:04:49.133	488GJ6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,487,941:27:0	
1188	2	87	03:35:53.133	488GJ6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,488,209:35:0	
1189	2	87	05:37:21.133	488GK6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,488,329:47:0	
1190	2	87	06:56:17.133	488GK6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	6,488,407:53:0	
1191	2	87	07:19:53.133	488GK6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	1O0	4	0	6,488,430:84:0	
1192	2	87	07:28:17.133	488GK6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,488,439:21:0	
1193	2	87	21:46:40.466	488GL6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,489,288:17:0	
1194	2	87	23:11:13.133	488GL6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	6,489,371:73:0	
1195	2	87	23:44:48.466	488GL6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	1O0	4	0	6,489,405:02:0	
1196	2	87	23:53:53.133	488GL6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,489,414:00:0	
1197	2	88	00:21:39.800	488GL6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,489,441:43:0	
1198	2	88	01:46:20.400	488GM6A	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,489,525:20:0	
1199	2	88	02:15:26.400	488GM6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,489,554:00:0	
1200	2	88	06:00:49.066	488GM6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	6,489,776:82:0	
1201	2	88	07:06:57.066	488GM6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,489,842:28:0	
1202	2	88	08:32:45.733	488GN6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,489,927:16:0	
1203	2	88	08:59:35.066	488GN6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,489,953:64:0	
1204	2	88	09:51:13.066	488GN6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,490,004:70:0	
1205	2	88	10:50:57.066	488GN6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	6,490,063:77:0	
1206	2	88	11:06:23.733	488GN6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	1O0	4	0	6,490,079:11:0	
1207	2	88	11:12:17.066	488GO6A	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	1O0	4	0	6,490,084:86:0	
1208	2	88	11:48:33.066	488GO6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,490,120:74:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1209	2	88	20:00:40.400	488GP6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,490,607:48:0	
1210	2	88	20:31:13.066	488GP6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,490,637:67:0	
1211	2	88	21:52:22.400	176UM6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	1O0	4	0	6,490,718:00:0	
1212	2	88	22:01:59.733	20UN4B	7SLEW	DIS,POS,0.0	Stator movement	1O0	4	0	6,490,727:47:0	
1213	2	88	22:02:59.733	20UN4D	**7MODE**	**SPNL**	AACS ALL-SPIN LOW	1O0	4	0	6,490,728:46:0	
1214	2	88	22:04:59.733	20UN4E	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	1O0	4	0	6,490,730:44:0	
1215	2	88	22:10:29.733	20UN4G	7VENT	0.611,1.333,8	ALERT -- Thruster fire	1O0	4	0	6,490,735:84:0	
1216	2	88	22:10:30.400	20UN4H	7VENT	0.611,10.989,8	ALERT -- Thruster fire	1O0	4	0	6,490,735:85:0	
1217	2	88	22:10:50.400	20UN4I	7VENT	0.611,1.333,6	ALERT -- Thruster fire	1O0	4	0	6,490,736:24:0	
1218	2	88	22:10:51.066	20UN4J	7VENT	0.611,10.989,6	ALERT -- Thruster fire	1O0	4	0	6,490,736:25:0	
1219	2	88	22:11:11.066	20UN4K	7VENT	0.611,1.333,4	ALERT -- Thruster fire	1O0	4	0	6,490,736:55:0	
1220	2	88	22:11:11.733	20UN4L	7VENT	0.611,0.666,5	ALERT -- Thruster fire	1O0	4	0	6,490,736:56:0	
1221	2	88	22:11:21.733	20UN4M	7VENT	0.611,1.333,4	ALERT -- Thruster fire	1O0	4	0	6,490,736:71:0	
1222	2	88	22:11:22.400	20UN4N	7VENT	0.611,0.666,5	ALERT -- Thruster fire	1O0	4	0	6,490,736:72:0	
1223	2	88	22:11:32.400	20UN4O	7VENT	1.211,1.333,10	ALERT -- Thruster fire	1O0	4	0	6,490,736:87:0	
1224	2	88	22:11:33.066	20UN4P	7VENT	1.211,0.666,12	ALERT -- Thruster fire	1O0	4	0	6,490,736:88:0	
1225	2	88	22:13:19.733	20UN4S	7VENT	0.611,1.333,7	ALERT -- Thruster fire	1O0	4	0	6,490,738:66:0	
1226	2	88	22:13:20.400	20UN4T	7VENT	0.611,10.989,7	ALERT -- Thruster fire	1O0	4	0	6,490,738:67:0	
1227	2	88	22:13:40.400	20UN4U	7VENT	0.611,1.333,1	ALERT -- Thruster fire	1O0	4	0	6,490,739:06:0	
1228	2	88	22:13:41.066	20UN4V	7VENT	0.611,10.989,1	ALERT -- Thruster fire	1O0	4	0	6,490,739:07:0	
1229	2	88	22:14:01.066	20UN4AC	7VENT	0.611,1.333,2	ALERT -- Thruster fire	1O0	4	0	6,490,739:37:0	
1230	2	88	22:14:01.733	20UN4AD	7VENT	0.611,0.666,3	ALERT -- Thruster fire	1O0	4	0	6,490,739:38:0	
1231	2	88	22:14:11.733	20UN4AE	7VENT	0.611,1.333,2	ALERT -- Thruster fire	1O0	4	0	6,490,739:53:0	
1232	2	88	22:14:12.400	20UN4AF	7VENT	0.611,0.666,3	ALERT -- Thruster fire	1O0	4	0	6,490,739:54:0	
1233	2	88	22:14:22.400	20UN4W	7VENT	1.211,1.333,9	ALERT -- Thruster fire	1O0	4	0	6,490,739:69:0	
1234	2	88	22:14:23.066	20UN4X	7VENT	1.211,0.666,11	ALERT -- Thruster fire	1O0	4	0	6,490,739:70:0	
1235	2	88	22:15:19.733	20UN4Z	**7MODE**	**CRU**	AACS CRUISE MODE	1O0	4	0	6,490,740:64:0	
1236	2	88	22:40:03.733	20UO4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	1O0	4	0	6,490,765:15:0	
1237	2	88	22:40:53.733	20UO4B	7SLEW	DIS,POS,0.0	Stator movement	1O0	4	0	6,490,765:90:0	
1238	2	88	22:44:57.066	176UP6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	1O0	4	0	6,490,770:00:0	
1239	2	88	23:06:57.066	488GP6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	6,490,791:69:0	
1240	2	88	23:44:40.400	488GP6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	1O0	4	0	6,490,829:06:0	
1241	2	89	05:18:17.733	488GQ6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	6,491,159:02:0	
1242	2	89	05:48:01.066	488GQ6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,491,188:38:0	
1243	2	89	06:41:29.733	488GQ6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,491,241:28:0	
1244	2	89	07:10:35.733	488GQ6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,491,270:08:0	
1245	2	89	08:40:49.066	488GQ6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	6,491,359:29:0	
1246	2	89	10:59:07.066	488GR6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	1O0	4	0	6,491,496:09:0	
1247	2	89	11:01:37.066	488GR6B	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	1O0	4	0	6,491,498:52:0	
1248	2	89	11:16:33.066	488GR6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,491,513:31:0	
1249	2	89	22:16:25.666	488GS6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,492,165:88:0	
1250	2	89	23:41:35.666	488GS6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,492,250:18:0	
1251	2	90	00:10:41.666	488GS6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,492,278:89:0	
1252	2	90	05:50:09.000	488GT6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	6,492,614:64:0	
1253	2	90	07:09:30.333	488GT6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	1O0	4	0	6,492,693:17:0	
1254	2	90	07:19:45.000	488GT6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,492,703:29:0	
1255	2	90	20:11:17.666	488GU6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,493,466:35:0	
1256	2	90	21:36:42.266	488GU6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,493,550:78:0	
1257	2	90	22:05:48.933	488GU6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,493,579:59:0	
1258	2	91	05:45:52.933	488GV6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	6,494,034:60:0	
1259	2	91	07:04:22.266	488GV6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	1O0	4	0	6,494,112:26:0	
1260	2	91	07:13:20.933	488GV6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,494,121:15:0	
1261	2	91	16:41:11.600	488GW6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,494,682:70:0	
1262	2	91	18:06:49.600	488GW6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,494,767:42:0	
1263	2	91	18:35:55.600	488GW6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,494,796:22:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1264	2	91	21:20:16.933	488GW6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	6,494,958:72:0	
1265	2	91	23:19:44.933	488GX6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,495,076:86:0	
1266	2	92	00:01:51.600	488GX6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,495,118:54:0	
1267	2	92	00:30:57.600	488GX6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,495,147:34:0	
1268	2	92	00:46:51.600	488GX6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,495,163:09:0	
1269	2	92	01:15:57.600	488GX6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,495,191:80:0	
1270	2	92	02:54:09.600	176UZ6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	1O0	4	0	6,495,289:00:0	
1271	**2**	**92**	**03:00:00.000**	**20A3FF**	**40T2R**	**Final Condition**	**PCT Heater 2 OFF**	**1O0**	**4**	**0**	**6,495,294:70:6**	
1272	**2**	**92**	**03:00:00.000**	**20A3EW**	**37A**	**Final Condition**	**NIMS Power ON**	**1O0**	**4**	**0**	**6,495,294:70:6**	
1273	**2**	**92**	**03:00:00.000**	**20A3EX**	**37HR**	**Final Condition**	**Replacement Heaters OFF**	**1O0**	**4**	**0**	**6,495,294:70:6**	
1274	**2**	**92**	**03:00:00.000**	**20A3EY**	**37C1PR**	**Final Condition**	**Optics Heater 1 OFF (primary relay)**	**1O0**	**4**	**0**	**6,495,294:70:6**	
1275	**2**	**92**	**03:00:00.000**	**20A3EZ**	**37C2PR**	**Final Condition**	**Optics Heater 2 OFF (primary relay)**	**1O0**	**4**	**0**	**6,495,294:70:6**	
1276	**2**	**92**	**03:00:00.000**	**20A3FA**	**37F1PR**	**Final Condition**	**Radiator Flash Heater OFF (primary relay)**	**1O0**	**4**	**0**	**6,495,294:70:6**	
1277	**2**	**92**	**03:00:00.000**	**20A3FB**	**37F2PR**	**Final Condition**	**Shield Flash Heater OFF (primary relay)**	**1O0**	**4**	**0**	**6,495,294:70:6**	
1278	**2**	**92**	**03:00:00.000**	**20A3FD**	**40HRPR**	**Final Condition**	**RCT Heater OFF (primary relay)**	**1O0**	**4**	**0**	**6,495,294:70:6**	
1279	**2**	**92**	**03:00:00.000**	**20A3FE**	**40T1PR**	**Final Condition**	**PCT Heater 1 OFF (primary relay)**	**1O0**	**4**	**0**	**6,495,294:70:6**	
1280	2	92	03:00:00.266		DMS:	: READY	RDY, TRACK 1, FWD, TIC 202.12 +/-	1O0	4	0	6,495,294:71:0	

33JNGLOBAL01

```
OAPEL:  33JNGLOBAL01            ALIAS:  33JNGLOBAL01
EXT:    A                       PSID:   DH
SCLK1:  06392563:06:0           SCLK2:  06392586:00:0
SCET1:    02-019/23:46:52.933   SCET2:    02-020/00:10:04.266
TARGET: JUPITER                 PARTITION: 1

MODE:      7                    GAIN:      2
CHOP:      1                    GRAT_OFF:  4
PTAB_A:    1 1 0 0 012          PTAB_B:    1 1 0 0 012
ECAL:      0                    OPCAL:     0
R/T:       0                    RECORD:    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:   10                  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:    0713010001          07  13  010  001
WTGRP_SIZ: 13
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	03CD7	0,0011,1100,1101,0111
1	03CD7	0,0011,1100,1101,0111
2	03CD7	0,0011,1100,1101,0111
3	03CD7	0,0011,1100,1101,0111
4	03CD7	0,0011,1100,1101,0111
5	03CD7	0,0011,1100,1101,0111
6	03CD7	0,0011,1100,1101,0111
7	03CD7	0,0011,1100,1101,0111
8	03CD7	0,0011,1100,1101,0111
9	03CD7	0,0011,1100,1101,0111
10	03CD7	0,0011,1100,1101,0111
11	03CD7	0,0011,1100,1101,0111
12	00000	0,0000,0000,0000,0000

33JNGLOBAL02

OAPEL:	33JNGLOBAL02	ALIAS:	33JNGLOBAL02
EXT:	A	PSID:	DI
SCLK1:	06392761:00:0	SCLK2:	06392780:90:0
SCET1:	02-020/03:07:00.933	SCET2:	02-020/03:27:14.266
TARGET:	JUPITER	PARTITION:	1

MODE:	7	GAIN:	2
CHOP:	1	GRAT_OFF:	4
PTAB_A:	1 1 0 0 012	PTAB_B:	1 1 0 0 012
ECAL:	0	OPCAL:	0
R/T:	0	RECORD:	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:	10	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: 0713010001 07 13 010 001
WTGRP_SIZ: 13

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	03CD7	0,0011,1100,1101,0111
1	03CD7	0,0011,1100,1101,0111
2	03CD7	0,0011,1100,1101,0111
3	03CD7	0,0011,1100,1101,0111
4	03CD7	0,0011,1100,1101,0111
5	03CD7	0,0011,1100,1101,0111
6	03CD7	0,0011,1100,1101,0111
7	03CD7	0,0011,1100,1101,0111
8	03CD7	0,0011,1100,1101,0111
9	03CD7	0,0011,1100,1101,0111
10	03CD7	0,0011,1100,1101,0111
11	03CD7	0,0011,1100,1101,0111
12	00000	0,0000,0000,0000,0000

33JNGLOBAL03

```
OAPEL:  33JNGLOBAL03             ALIAS:  33JNGLOBAL03
EXT:    A                        PSID:   DJ
SCLK1:  06392960:00:0            SCLK2:  06392977:00:0
SCET1:    02-020/06:28:13.600    SCET2:    02-020/06:45:24.933
TARGET: JUPITER                  PARTITION: 1

MODE:      7                     GAIN:      2
CHOP:      1                     GRAT_OFF:  4
PTAB_A:    1 1 0 0 012           PTAB_B:    1 1 0 0 012
ECAL:      0                     OPCAL:     0
R/T:       0                     RECORD:    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:   10                   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:    0713010001           07  13  010  001
WTGRP_SIZ: 13
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	03CD7	0,0011,1100,1101,0111
1	03CD7	0,0011,1100,1101,0111
2	03CD7	0,0011,1100,1101,0111
3	03CD7	0,0011,1100,1101,0111
4	03CD7	0,0011,1100,1101,0111
5	03CD7	0,0011,1100,1101,0111
6	03CD7	0,0011,1100,1101,0111
7	03CD7	0,0011,1100,1101,0111
8	03CD7	0,0011,1100,1101,0111
9	03CD7	0,0011,1100,1101,0111
10	03CD7	0,0011,1100,1101,0111
11	03CD7	0,0011,1100,1101,0111
12	00000	0,0000,0000,0000,0000

33NNRCTRLT01

OAPEL:	33NNRCTRLT01	ALIAS:	LSNNRCTRTA01
EXT:	R	PSID:	XU
SCLK1:	06411123:00:0	SCLK2:	06411130:12:0
SCET1:	2002-033/00:33:01.666	SCET2:	2002-033/00:40:14.333
TARGET:	CAL	PARTITION:	1

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

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

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

WETGID: 0303252000 03 03 252 000
WTGRP_SIZ: 3

EDIT TABLE

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

33NNRCTRLT01

OAPEL:	33NNRCTRLT01	ALIAS:	LSNNRCTRTA01
EXT:	S	PSID:	XU
SCLK1:	06411137:00:0	SCLK2:	06411138:12:0
SCET1:	2002-033/00:47:11.000	SCET2:	2002-033/00:48:19.666
TARGET:	CAL	PARTITION:	1

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

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

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

WETGID: 0303252000 03 03 252 000
WTGRP_SIZ: 3

EDIT TABLE

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

33NNRCTCAL01

OAPEL:	33NNRCTCAL01	ALIAS:	LSNNRCTCAL01
EXT:	A	PSID:	XE
SCLK1:	06475239:86:8	SCLK2:	06475252:87:0
SCET1:	2002-078/01:02:21.466	SCET2:	2002-078/01:15:30.266
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:	0	RECORD:	1

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

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

WETGID: 0326408000 03 26 408 000
WTGRP_SIZ: 26

EDIT TABLE

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

NIMS I33 OBSTAB

This is a time-ordered ASCII TABLE (listing) of GALILEO NIMS observation parameters for use by downlink data processing of the NIMS C30 data. Each Obstab entry is 512 bytes long but is presented here as 4 lines of 128 characters per entry. Included items come from NIMS commands in (1) the Standard Sequence Data File (SSDF) and (2) the Playback Table Update Process (PTUP), plus some items from (3) the NIMS/CDS software load.

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

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

The source below is one of:

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

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

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

```
-----------------------------------------------------------------------------------------------------------------------------------
  MODE          2  72 -  73     .NIMS Instrument MODE (0-15)                 SEF: 37IOP, data byte 2, bits 5-8
  GAIN          1  74 -  74     .Gain State (true value)                     SEF: 37IST, data byte 3, bits 7-8 (if bit 6 = 1)
                                                                                   0=gs2, 1=gs4, 2=gs3, 3=gs1
  CHOP          1  75 -  75     .Chopper State (1=Ref,2=63Hz,3=FreeRun,4=Off)   SEF: 37IST, data byte 2, bits 7-8 (if bit 6 = 1)
                                                                                   0=63hz, 1=off, 2=ref, 3=freerun
  GRAT_OFF      1  76 -  76     .Grating Offset (0-7, default 4)             SEF: 37GOF, data byte 2, bits 5-8
  PTAB_A(6)    12  77 -  88     .First PTAB  |repeat count,mirror op,autobias...SEF: functions of MODE (from 37IOP) as modified by
  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
  NWAVETOT      3 153 - 155     .Total number of wavelengths selected        Compute from relevant Wavelength Edit Table group
  TLMFMT        3 156 - 158     .Telemetry format (MPW et al, LPU or LNR)      SEF: 6TMREC command
  SCET1        21 159 - 179     .Start time of played-back OBS in UTC        PBK (except realtime data: SEF)
  SCET2        21 180 - 200     .Stop time of played-back OBS in UTC         PBK (except realtime data: SEF)
<spares>       67 201 - 267     .Start time of played-back OBS in UTC        PBK (except realtime data: SEF)
* THRESH       51 268 - 318     .Threshold values (17 3-digit values, 0-999)    PBK: S/W table indexed by THRESH_TBL > 0, else 0s
-----------------------------------------------------------------------------------------------------------------------------------
```

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

```
-------------------------------------------------------------------------------------------------------------------------------
33JNGLOBAL0133JNGLOBAL01ADH06392563:06:006392586:00:01         JUPITER  7214 1 1 0 0 012 1 1 0 0 01200010 0000000000 1 2.00.3000
0065525        1         10LPU  02-019/23:46:52.933  02-020/00:10:04.266
           00000000000000000000000000000000000000000000000000007130100011301030CD70103CD70103CD70103CD70103CD70103CD70103CD70103C
D70103CD70103CD70103CD70103CD70100000
33JNGLOBAL0233JNGLOBAL02ADI06392761:00:006392780:90:01         JUPITER  7214 1 1 0 0 012 1 1 0 0 01200010 0000000000 1 2.00.3000
0065525        1         10LPU  02-020/03:07:00.933  02-020/03:27:14.266
           00000000000000000000000000000000000000000000000000007130100011301030CD70103CD70103CD70103CD70103CD70103CD70103CD70103C
D70103CD70103CD70103CD70103CD70100000
33JNGLOBAL0333JNGLOBAL03ADJ06392960:00:006392977:00:01         JUPITER  7214 1 1 0 0 012 1 1 0 0 01200010 0000000000 1 2.00.3000
0065525        1         10LPU  02-020/06:28:13.600  02-020/06:45:24.933
           00000000000000000000000000000000000000000000000000007130100011301030CD70103CD70103CD70103CD70103CD70103CD70103CD70103C
D70103CD70103CD70103CD70103CD70100000
33NNRCTRLT01LSNNRCTRTA01RXU06411123:00:006411130:12:01         CAL      3114 1 1 0 0 124 1 1 0 0 12400100 1101111011 0 0.00.0000
0000000                 252RT 2002-033/00:33:01.6662002-033/00:40:14.333
           0000000000000000000000000000000000000000000000000000303252000 312003FF12007FF0200000

33NNRCTRLT01LSNNRCTRTA01SXU06411137:00:006411138:12:01         CAL      3114 1 1 0 0 124 1 1 0 0 12400100 1101111011 0 0.00.0000
0000000                 252RT 2002-033/00:47:11.0002002-033/00:48:19.666
           0000000000000000000000000000000000000000000000000000303252000 312003FF12007FF0200000

33NNRCTCAL01LSNNRCTCAL01AXE06475239:86:806475252:87:01         CAL      3114 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0000000                 408MPW2002-078/01:02:21.4662002-078/01:15:30.266
           000000000000000000000000000000000000000000000000000032640800026011FFFF011FFFF011FFFF011FFFF011FFFF011FFFF011FFFF011FF
FF011FFFF011FFFF011FFFF011FFFF011FFFF011FFFF011FFFF011FFFF011FFFF011FFFF011FFFF011FFFF011FFFF011FFFF011FFFF01000000100000
-------------------------------------------------------------------------------------------------------------------------------
```