Chapter 4 - NIMS Observation Summaries

Contents

Introduction to Chapter 4

This chapter summarizes the NIMS E18 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 E18 Sequence. The information in this summary is derived from the E18 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 E18 data. It is also derived from the E18 SEFs and PBTs. Each Obstab entry is 512 bytes long but is presented here as 4 lines of 128 characters per entry.

Sequence: E18A-AR Created: 2/26/99 Begin: 98-325/12:00:00 Finish: 98-328/01:00:00

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
1	98	325	11:59:59.866		DMS:	: READY	RDY, TRACK 1, FWD, TIC 202.12 +/-	4O0	4	0	4,746,939:86:0
2	**98**	**325**	**12:00:00.000**	**20A3EW**	**37A**	**Initial Condition**	**NIMS Power ON**	**4O0**	**4**	**0**	**4,746,939:86:2**
3	**98**	**325**	**12:00:00.000**	**20A3EX**	**37HR**	**Initial Condition**	**Replacement Heaters OFF**	**4O0**	**4**	**0**	**4,746,939:86:2**
4	**98**	**325**	**12:00:00.000**	**20A3EY**	**37C1PR**	**Initial Condition**	**Optics Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**4,746,939:86:2**
5	**98**	**325**	**12:00:00.000**	**20A3FA**	**37F1PR**	**Initial Condition**	**Radiator Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**4,746,939:86:2**
6	**98**	**325**	**12:00:00.000**	**20A3EZ**	**37C2PR**	**Initial Condition**	**Optics Heater 2 OFF (primary relay)**	**4O0**	**4**	**0**	**4,746,939:86:2**
7	**98**	**325**	**12:00:00.000**	**20A3FF**	**40T2R**	**Initial Condition**	**PCT Heater 2 OFF**	**4O0**	**4**	**0**	**4,746,939:86:2**
8	**98**	**325**	**12:00:00.000**	**20A3FE**	**40T1PR**	**Initial Condition**	**PCT Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**4,746,939:86:2**
9	**98**	**325**	**12:00:00.000**	**20A3FD**	**40HRPR**	**Initial Condition**	**RCT Heater OFF (primary relay)**	**4O0**	**4**	**0**	**4,746,939:86:2**
10	**98**	**325**	**12:00:00.000**	**20A3FB**	**37F2PR**	**Initial Condition**	**Shield Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**4,746,939:86:2**
11	98	325	12:00:12.533	488AA6A	6TMSED	NORM,DL5	Sci, Eng, and D/L Chan	4O0	4	0	4,746,940:14:0
12	98	325	12:00:59.866	20OA6A	6HICON			4O0	4	0	4,746,940:85:0
13	**98**	**325**	**12:02:03.200**	**432JA6B**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**4O0**	**4**	**0**	**4,746,941:89:0**
14	98	325	12:02:03.866	432JA431A6A	6RCDSL	DDSNCG,PLSDSL,EP	Record Deselect (DDS o	4O0	4	0	4,746,941:90:0
15	98	325	12:02:03.866	165SA4A	7SCAN	NORM,254.24,-22.	Check S/P Position	4O0	4	0	4,746,941:90:0
16	98	325	12:02:04.533	432JA6C	6RTSL1		R/T Select of DDS and	4O0	4	0	4,746,942:00:0
17	**98**	**325**	**12:02:04.533**	**432JA6D**	**6RTSL2**	**NIMNCG,AACSEL,RT**	**AACS SELECT**	**4O0**	**4**	**0**	**4,746,942:00:0**
18	98	325	12:06:57.200		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 202.12 +/-	4O0	4	0	4,746,946:75:0
19	98	325	12:06:57.200	175TZ422A6A	6DMSC	R28,1	DMS Control	4O0	4	0	4,746,946:75:0
20	98	325	12:07:03.866		DMS:	: *RUNUP	R28, TRACK 1, FWD, TIC 202.12 +/-	4O0	4	0	4,746,946:85:0
21	98	325	12:07:07.200	175TZ176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	4O0	4	0	4,746,946:90:0
22	98	325	12:07:07.866		DMS:	: *AT_SPD	R28, TRACK 1, FWD, TIC 203.62 +/-	4O0	4	0	4,746,947:00:0
23	98	325	12:07:07.866		DMS:	**: *RECORD**	R28, TRACK 1, FWD, TIC * 203.62 +/-	4O0	4	0	4,746,947:00:0
24	98	325	12:28:18.533	444UA443A4B	**7MODE**	**INT**	AACS INERTIAL MODE	4O0	4	0	4,746,967:86:0
25	98	325	12:40:29.200	165CA4A	7SCAN	NORM,254.24,-22.	Check S/P Position	4O0	4	0	4,746,979:90:0
26	98	325	12:44:31.200	165CA4B	7VECT		Inert vect update UTC	4O0	4	0	4,746,983:89:0
27	98	325	13:10:36.533	488AA6B	6TMSED	NORM,DL4	Sci, Eng, and D/L Chan	4O0	4	0	4,747,009:71:0
28	98	325	13:28:58.533	165CA4C	7VECT		Inert vect update UTC	4O0	4	0	4,747,027:86:0
29	98	325	13:56:37.866		DMS:	**: *RUNDOWN**	R28, TRACK 1, FWD, TIC *5978.04 +/-	4O0	4	0	4,747,055:27:0
30	98	325	13:56:37.866	175TZ422A6B	6DMSC	RDY,0	DMS Control Tape stop	4O0	4	0	4,747,055:27:0
31	98	325	13:56:39.066		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *5978.34 +/-	4O0	4	0	4,747,055:28:8
32	98	325	13:59:21.866		DMS:	: READY	RDY, TRACK *2, *REV, TIC 5978.34 +/-	4O0	4	0	4,747,058:00:0
33	98	325	13:59:21.866	465KA6A	6DMSC	RDY,2	DMS Control Tape stop	4O0	4	0	4,747,058:00:0
34	98	325	14:13:30.533	165GA4A	7SCAN	NORM,256.080997,	Check S/P Position	4O0	4	0	4,747,071:90:0
35	98	325	14:16:33.200	176GA6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	4O0	4	0	4,747,075:00:0
36	98	325	14:17:24.533	117GA	**CSMOS**	GS	***** GROUP START CSMOS	4O0	4	0	4,747,075:77:0
37	98	325	14:17:33.866	117GA105A106A4A	7STRP	0.001,0.0035,0,0	Slew =,0.06	4O0	4	0	4,747,076:00:0
38	98	325	14:18:33.200	117GA11A	**CSMOS**	GE	***** GROUP END CSMOS	4O0	4	0	4,747,076:89:0
39	98	325	14:18:33.866	165CE4A	7SCAN	NORM,250.813,-22	Check S/P Position	4O0	4	0	4,747,076:90:0
40	98	325	14:18:42.533	176GA6B	6TMREC	**NRC**	NO RECORD Record Mode Change	4O0	4	0	4,747,077:12:0
41	98	325	14:18:44.533	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4O0	4	0	4,747,077:15:0
42	98	325	14:18:44.533		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 5978.34 +/-	4O0	4	0	4,747,077:15:0
43	98	325	14:18:45.933		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *5978.46 +/-	4O0	4	0	4,747,077:17:1
44	98	325	14:18:51.200		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *5979.69 +/-	4O0	4	0	4,747,077:25:0
45	98	325	14:18:52.400		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *5979.75 +/-	4O0	4	0	4,747,077:26:8
46	98	325	14:18:53.800		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *5979.63 +/-	4O0	4	0	4,747,077:28:9
47	98	325	14:18:54.533		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *5979.46 +/-	4O0	4	0	4,747,077:30:0
48	98	325	14:19:05.866		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *5976.80 +/-	4O0	4	0	4,747,077:47:0
49	98	325	14:19:05.866	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	4O0	4	0	4,747,077:47:0
50	98	325	14:19:07.066		DMS:	: *READY	RDY, TRACK 2, REV, TIC *5976.74 +/-	4O0	4	0	4,747,077:48:8
51	98	325	14:22:35.866	165CE4B	7VECT		Inert vect update UTC	4O0	4	0	4,747,080:89:0
52	98	325	15:06:02.533	165CE4C	7VECT		Inert vect update UTC	4O0	4	0	4,747,123:86:0
53	98	325	15:09:28.533	488AA6C	6TMSED	FILL,DL4	Sci, Eng, and D/L Chan	4O0	4	0	4,747,127:31:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
54	98	325	15:48:28.533	488AA6D	6TMSED	FILL,DL5	Sci, Eng, and D/L Chan	4O0	4	0	4,747,165:83:0	
55	98	325	15:49:33.866	165CB4A	7SCAN	NORM,248.637999,	Check S/P Position	4O0	4	0	4,747,166:90:0	
56	98	325	15:50:33.866	165CB4B	7VECT		Inert vect update UTC	4O0	4	0	4,747,167:89:0	
57	98	325	15:55:01.200	488AA6E	6TMSED	NORM,DL5	Sci, Eng, and D/L Chan	4O0	4	0	4,747,172:35:0	
58	98	325	16:05:11.866	165CB4C	7VECT		Inert vect update UTC	4O0	4	0	4,747,182:41:0	
59	98	325	16:19:53.866	165CC4A	7SCAN	NORM,246.705999,	Check S/P Position	4O0	4	0	4,747,196:90:0	
60	98	325	16:20:53.866	165CC4B	7VECT		Inert vect update UTC	4O0	4	0	4,747,197:89:0	
61	98	325	16:35:31.866	165CC4C	7VECT		Inert vect update UTC	4O0	4	0	4,747,212:41:0	
62	98	325	16:50:13.866	165CD4A	7SCAN	NORM,245.539,-21	Check S/P Position	4O0	4	0	4,747,226:90:0	
63	98	325	16:51:13.866	165CD4B	7VECT		Inert vect update UTC	4O0	4	0	4,747,227:89:0	
64	98	325	17:05:51.866	165CD4C	7VECT		Inert vect update UTC	4O0	4	0	4,747,242:41:0	
65	**98**	**325**	**17:50:58.534**	**18NNJUPRTS01-**		**-----START------**		**4O0**	**4**	**0**	**: :**	
66	98	325	17:57:56.533	176DA6A	6TMREC	**NRC**	NO RECORD Record Mode Change	4O0	4	0	4,747,293:87:0	
67	**98**	**325**	**17:59:17.866**	**20DA5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**260**	**4**	**0**	**4,747,295:27:0**	
68	**98**	**325**	**17:59:19.200**	**20DA5B**	**37MRL**		**Memory Realocate (software operates from R**	**260**	**4**	**0**	**4,747,295:29:0**	
69	**98**	**325**	**17:59:20.533**	**20DA6A**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**260**	**4**	**0**	**4,747,295:31:0**	
70	**98**	**325**	**17:59:30.533**	**20DA6B**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**260**	**4**	**0**	**4,747,295:46:0**	
71	**98**	**325**	**17:59:40.533**	**20DA5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**4,747,295:61:0**	
72	**98**	**325**	**18:00:00.533**	**20DA5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**4,747,296:00:0**	
73	**98**	**325**	**18:00:15.866**	**20DA4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**4,747,296:23:0**	
74	**98**	**325**	**18:01:05.200**	**18NNJUPRTS01-**		**-----STOP-------**		**2R0**	**4**	**0**	**: :**	
75	**98**	**325**	**18:01:57.200**	**125DA4A**	**37IST**	**0,2,0,OFF,0,1,0**	**Gain State 2**	**2R0**	**4**	**0**	**4,747,297:84:0**	
76	98	325	18:01:57.200	125DA	NIMSINIT	GS	##### GROUP START INIT	2R0	4	0	4,747,297:84:0	
77	98	325	18:02:01.200	165DA4A	**7SCAN**	**NORM,284.577999,**	**Check S/P Position**	2R0	4	0	4,747,297:90:0	
78	**98**	**325**	**18:02:05.867**	**18JNJUPRTS01***		**-----START------**		**2R0**	**4**	**0**	**: :**	
79	98	325	18:02:57.866	125DA11A	NIMSINIT	GE	##### GROUP END INIT	2R0	4	0	4,747,298:84:0	
80	**98**	**325**	**18:02:57.866**	**125DA4B**	**37MB**	**1B,1B,0,0,0,0**	**Selects mirror (spatial) edit table**	**2R0**	**4**	**0**	**4,747,298:84:0**	
81	**98**	**325**	**18:04:59.200**	**127DA4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**4,747,300:84:0**	
82	98	325	18:04:59.200	127DA	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	4,747,300:84:0	
83	**98**	**325**	**18:04:59.866**	**127DA4B**	**37ETB**	**04,C4,35,FF,FF**	**Loads wavelength edit table**	**2R3**	**4**	**0**	**4,747,300:85:0**	
84	98	325	18:05:07.866	127DA11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	4,747,301:06:0	
85	**98**	**325**	**18:05:07.866**	**432DA6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**	**NIMS R/T SELECT**	**2R3**	**4**	**0**	**4,747,301:06:0**	
86	98	325	18:05:55.200	117DA	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	4,747,301:77:0	
87	98	325	18:06:03.200	165DA4B	7VECT		Inert vect update UTC	2R3	4	0	4,747,301:89:0	
88	98	325	18:06:04.533	117DA105A106A4A	**7STRP**	**-0.020903,0.0,0,**	**Slew =,0.06**	2R3	4	0	4,747,302:00:0	
89	98	325	18:11:55.200	117DA105A106A4B	**7STRP**	**0.026606,-0.0081**	**Slew =12.01**	2R3	4	0	4,747,307:71:0	
90	98	325	18:12:01.200	117DA105A106A4C	**7STRP**	**-0.020903,0.0,0,**	**Slew =,0.06**	2R3	4	0	4,747,307:80:0	
91	98	325	18:17:51.866	117DA105A106A4D	**7STRP**	**0.026606,-0.0081**	**Slew =12.01**	2R3	4	0	4,747,313:60:0	
92	98	325	18:17:57.866	117DA105A106A4E	**7STRP**	**-0.020903,0.0,0,**	**Slew =,0.06**	2R3	4	0	4,747,313:69:0	
93	98	325	18:23:48.533	117DA11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	4,747,319:49:0	
94	**98**	**325**	**18:25:19.866**	**432DZ6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**2R3**	**4**	**0**	**4,747,321:04:0**	
95	**98**	**325**	**18:26:21.867**	**18JNJUPRTS01***		**-----STOP-------**		**2R3**	**4**	**0**	**: :**	
96	98	325	18:42:27.866	165GC4A	7SCAN	NORM,243.309999,	Check S/P Position	2R3	4	0	4,747,337:90:0	
97	98	325	18:45:30.533	176GC6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R3	4	0	4,747,341:00:0	
98	98	325	18:46:21.866	117GC	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	4,747,341:77:0	
99	98	325	18:46:31.200	117GC105A106A4A	7STRP	-0.0046,0.0,0,0,	Slew =,0.29	2R3	4	0	4,747,342:00:0	
100	98	325	18:46:49.866	117GC105A106A4B	7STRP	0.00447,-0.0012,	Slew =12.01	2R3	4	0	4,747,342:28:0	
101	98	325	18:46:55.200	117GC105A106A4C	7STRP	-0.0046,0.0,0,0,	Slew =,0.29	2R3	4	0	4,747,342:36:0	
102	98	325	18:47:13.866	117GC105A106A4D	7STRP	0.00447,-0.0012,	Slew =12.01	2R3	4	0	4,747,342:64:0	
103	98	325	18:47:19.200	117GC105A106A4E	7STRP	-0.0046,0.0,0,0,	Slew =,0.29	2R3	4	0	4,747,342:72:0	
104	98	325	18:47:37.866	117GC105A106A4F	7STRP	0.00447,-0.0012,	Slew =12.01	2R3	4	0	4,747,343:09:0	
105	98	325	18:47:43.200	117GC105A106A4G	7STRP	-0.0046,0.0,0,0,	Slew =,0.29	2R3	4	0	4,747,343:17:0	
106	98	325	18:48:01.866	117GC105A106A4H	7STRP	0.00447,-0.0012,	Slew =12.01	2R3	4	0	4,747,343:45:0	
107	98	325	18:48:07.200	117GC105A106A4I	7STRP	-0.0046,0.0,0,0,	Slew =,0.29	2R3	4	0	4,747,343:53:0	
108	98	325	18:48:25.866	117GC105A106A4J	7STRP	0.00447,-0.0012,	Slew =12.01	2R3	4	0	4,747,343:81:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
109	98	325	18:48:31.200	117GC105A106A4K	7STRP	-0.0046,0.0,0,0,	Slew =,0.29	2R3	4	0	4,747,343:89:0	
110	98	325	18:48:49.866	117GC105A106A4L	7STRP	0.00447,-0.0012,	Slew =12.01	2R3	4	0	4,747,344:26:0	
111	98	325	18:48:55.200	117GC105A106A4M	7STRP	-0.0046,0.0,0,0,	Slew =,0.29	2R3	4	0	4,747,344:34:0	
112	98	325	18:49:13.866	117GC11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	4,747,344:62:0	
113	98	325	18:49:33.200	176GC6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	4,747,345:00:0	
114	98	325	18:49:35.200		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 5976.74 +/-	2R3	4	0	4,747,345:03:0	
115	98	325	18:49:35.200	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	4,747,345:03:0	
116	98	325	18:49:36.600		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *5976.86 +/-	2R3	4	0	4,747,345:05:1	
117	98	325	18:49:41.866		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *5978.10 +/-	2R3	4	0	4,747,345:13:0	
118	98	325	18:49:43.066		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *5978.16 +/-	2R3	4	0	4,747,345:14:8	
119	98	325	18:49:44.466		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *5978.04 +/-	2R3	4	0	4,747,345:16:9	
120	98	325	18:49:45.200		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *5977.86 +/-	2R3	4	0	4,747,345:18:0	
121	98	325	18:49:57.866		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *5974.90 +/-	2R3	4	0	4,747,345:37:0	
122	98	325	18:49:57.866	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,747,345:37:0	
123	98	325	18:49:59.066		DMS:	: *READY	RDY, TRACK 2, REV, TIC *5974.84 +/-	2R3	4	0	4,747,345:38:8	
124	98	325	21:21:16.533	488AB6A	6TMSED	NORM,DL4	Sci, Eng, and D/L Chan	2R3	4	0	4,747,495:05:0	
125	98	325	22:42:04.533	488AB6B	6TMSED	FILL,DL4	Sci, Eng, and D/L Chan	2R3	4	0	4,747,574:88:0	
126	98	325	22:42:20.533	488AB6C	6TMSED	FILL,DL5	Sci, Eng, and D/L Chan	2R3	4	0	4,747,575:21:0	
127	98	325	22:59:59.866	444UE443A4A	**7MODE**	**CRU**	AACS CRUISE MODE	2R3	4	0	4,747,592:63:0	
128	98	325	23:12:59.866	20SD4A	7SCAN	NORM,315.872,-19	Check S/P Position	2R3	4	0	4,747,605:50:0	
129	98	325	23:16:22.533	488AB6D	6TMSED	NORM,DL5	Sci, Eng, and D/L Chan	2R3	4	0	4,747,608:81:0	
130	98	325	23:39:59.866	444UF443A4B	**7MODE**	**INT**	AACS INERTIAL MODE	2R3	4	0	4,747,632:23:0	
131	98	325	23:59:59.866	488AB6E	6TMSED	NORM,EH5	Sci, Eng, and D/L Chan	2R3	4	0	4,747,652:03:0	
132	98	326	00:09:59.866	481UA4A	7VECT		Inert vect update UTC	2R3	4	0	4,747,661:84:0	
133	**98**	**326**	**00:16:12.534**	**18NNWHTOVL01-**		**-----START------**		**2R3**	**4**	**0**	**: :**	
134	**98**	**326**	**00:24:31.866**	**20DJ5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**2R3**	**4**	**0**	**4,747,676:27:0**	
135	**98**	**326**	**00:24:33.200**	**20DJ5B**	**37MRL**		**Memory Realocate (software operates from R**	**2R3**	**4**	**0**	**4,747,676:29:0**	
136	**98**	**326**	**00:24:34.533**	**20DJ6A**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**2R3**	**4**	**0**	**4,747,676:31:0**	
137	**98**	**326**	**00:24:44.533**	**20DJ6B**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**2R3**	**4**	**0**	**4,747,676:46:0**	
138	**98**	**326**	**00:24:54.533**	**20DJ5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**4,747,676:61:0**	
139	**98**	**326**	**00:25:14.533**	**20DJ5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**4,747,677:00:0**	
140	**98**	**326**	**00:25:29.866**	**20DJ4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**4,747,677:23:0**	
141	**98**	**326**	**00:26:19.200**	**18NNWHTOVL01-**		**-----STOP-------**		**2R0**	**4**	**0**	**: :**	
142	98	326	00:27:15.200	165DJ4A	**7SCAN**	**NORM,315.872997,**	**Check S/P Position**	2R0	4	0	4,747,678:90:0	
143	**98**	**326**	**00:27:19.867**	**18JNWHTOVL01-**		**-----START------**		**2R0**	**4**	**0**	**: :**	
144	98	326	00:28:11.866	125DJ	NIMSINIT	GS	##### GROUP START INIT	2R0	4	0	4,747,679:84:0	
145	98	326	00:28:11.866	125DJ11A	NIMSINIT	GE	##### GROUP END INIT	2R0	4	0	4,747,679:84:0	
146	**98**	**326**	**00:28:11.866**	**125DJ4A**	**37IST**	**0,2,0,OFF,0,1,0**	**Gain State 2**	**2R0**	**4**	**0**	**4,747,679:84:0**	
147	98	326	00:30:13.200	127DJ	NIMSTAB	GS	%%%%% GROUP START TAB	2R0	4	0	4,747,681:84:0	
148	**98**	**326**	**00:30:13.200**	**127DJ4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**4,747,681:84:0**	
149	**98**	**326**	**00:30:13.866**	**127DJ4B**	**37ETB**		**Loads wavelength edit table**	**2R3**	**4**	**0**	**4,747,681:85:0**	
150	98	326	00:30:21.866	127DJ11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	4,747,682:06:0	
151	98	326	00:31:06.533		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 5974.84 +/-	2R3	4	0	4,747,682:73:0	
152	98	326	00:31:06.533	175DJ422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	4,747,682:73:0	
153	98	326	00:31:07.933		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *5974.96 +/-	2R3	4	0	4,747,682:75:1	
154	98	326	00:31:09.200	117DJ	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	4,747,682:77:0	
155	98	326	00:31:13.200		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *5976.19 +/-	2R3	4	0	4,747,682:83:0	
156	98	326	00:31:14.400		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *5976.25 +/-	2R3	4	0	4,747,682:84:8	
157	98	326	00:31:15.200	175DJ176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R3	4	0	4,747,682:86:0	
158	98	326	00:31:15.800		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *5976.13 +/-	2R3	4	0	4,747,682:86:9	
159	98	326	00:31:15.800		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC 5976.13 +/-	2R3	4	0	4,747,682:86:9	
160	98	326	00:31:17.200	165DJ4B	7VECT		Inert vect update UTC	2R3	4	0	4,747,682:89:0	
161	**98**	**326**	**00:31:18.533**	**18JNWHTOVL01-**	**NIMPBK**	**301ES**	**JUPITER WHITE OVALOBS**	**2R3**	**4**	**0**	**: :**	
162	**98**	**326**	**00:31:18.533**	**18JNWHTOVL01-**	**NIMPBK**	**301DF**	**JUPITER WHITE OVALOBS**	**2R3**	**4**	**0**	**: :**	
163	98	326	00:31:18.533	117DJ105A106A4A	**7STRP**	**-0.03081,0.0,0,0**	**Slew =,0.03**	2R3	4	0	4,747,683:00:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
164	98	326	00:47:25.866	18JNWHTOVL01-	DESELC	300DF	JUPITER WHITE OVAL OBS	2R3	4	0	: :	
165	98	326	00:47:25.866	18JNWHTOVL01-	DESELC	300ES	JUPITER WHITE OVAL OBS	2R3	4	0	: :	
166	98	326	00:47:35.866	175DJ6A	6TMREC	NRC	NO RECORD Record Mode Change	2R3	4	0	4,747,699:10:0	
167	98	326	00:47:35.866	175DJ422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,747,699:10:0	
168	98	326	00:47:35.866		DMS:	: *RUNDOWN	R7, TRACK 2, REV, TIC *5746.43 +/-	2R3	4	0	4,747,699:10:0	
169	98	326	00:47:37.066		DMS:	: *READY	RDY, TRACK 2, REV, TIC *5746.37 +/-	2R3	4	0	4,747,699:11:8	
170	98	326	00:48:26.533	117DJ11A	CSMOS	GE	***** GROUP END CSMOS	2R3	4	0	4,747,699:86:0	
171	98	326	00:48:33.867	18JNWHTOVL01-		-----STOP-------		2R3	4	0	: :	
172	98	326	01:30:59.200	444UB443A4A	7MODE	CRU	AACS CRUISE MODE	2R3	4	0	4,747,742:02:0	
173	98	326	01:46:11.867	18NNJUPRTS02-		-----START------		2R3	4	0	: :	
174	98	326	01:54:31.200	20DB5A	37PL		Program Load (halts microprocessor & unwri	2R3	4	0	4,747,765:27:0	
175	98	326	01:54:32.533	20DB5B	37MRL		Memory Realocate (software operates from R	2R3	4	0	4,747,765:29:0	
176	98	326	01:54:33.866	20DB6A	6MCOPY	NIMS	NIMS,1000,LLM1A,7300,77F7	2R3	4	0	4,747,765:31:0	
177	98	326	01:54:43.866	20DB6B	6MCOPY	NIMS	NIMS,1598,LLM1A,77F8,781D	2R3	4	0	4,747,765:46:0	
178	98	326	01:54:53.866	20DB5C	37IRT		Instrument Reset (goes into POR state)	260	4	0	4,747,765:61:0	
179	98	326	01:55:13.866	20DB5D	37MN		Memory Normal (software operates from ROM)	260	4	0	4,747,766:00:0	
180	98	326	01:55:29.200	20DB4A	37IST	1,2,0,OFF,0,0,0	Chopper ON, Sync, Chopper (Ref)	2R0	4	0	4,747,766:23:0	
181	98	326	01:56:18.534	18NNJUPRTS02-		-----STOP-------		2R0	4	0	: :	
182	98	326	01:57:10.533	125DB	NIMSINIT	GS	##### GROUP START INIT	2R0	4	0	4,747,767:84:0	
183	98	326	01:57:10.533	125DB4A	37IST	0,2,0,OFF,0,1,0	Gain State 2	2R0	4	0	4,747,767:84:0	
184	98	326	01:57:14.533	165DB4A	7SCAN	NORM,319.125,-14	Check S/P Position	2R0	4	0	4,747,767:90:0	
185	98	326	01:57:19.200	18JNJUPRTS02*		-----START------		2R0	4	0	: :	
186	98	326	01:58:11.200	125DB4B	37MB	1B,1B,0,0,0,0	Selects mirror (spatial) edit table	2R0	4	0	4,747,768:84:0	
187	98	326	01:58:11.200	125DB11A	NIMSINIT	GE	##### GROUP END INIT	2R0	4	0	4,747,768:84:0	
188	98	326	02:00:12.533	127DB	NIMSTAB	GS	%%%%% GROUP START TAB	2R0	4	0	4,747,770:84:0	
189	98	326	02:00:12.533	127DB4A	37IOP	3,0	Long Map, Grating Start Position =00	2R3	4	0	4,747,770:84:0	
190	98	326	02:00:13.200	127DB4B	37ETB	04,C4,35,FF,FF	Loads wavelength edit table	2R3	4	0	4,747,770:85:0	
191	98	326	02:00:21.200	127DB11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	4,747,771:06:0	
192	98	326	02:01:08.533	117DB	CSMOS	GS	***** GROUP START CSMOS	2R3	4	0	4,747,771:77:0	
193	98	326	02:01:16.533	165DB4B	7VECT		Inert vect update UTC	2R3	4	0	4,747,771:89:0	
194	98	326	02:01:17.866	117DB105A106A4A	7STRP	-0.01015,0.0,0,0	Slew =,0.06	2R3	4	0	4,747,772:00:0	
195	98	326	02:01:21.866	432DB6A	6RTSL2	NIMSEL,AACNCG,RT	NIMS R/T SELECT	2R3	4	0	4,747,772:06:0	
196	98	326	02:04:09.200	117DB105A106A4B	7STRP	0.014001,-0.0080	Slew =12.01	2R3	4	0	4,747,774:75:0	
197	98	326	02:04:21.200	117DB105A106A4C	7STRP	-0.01015,0.0,0,0	Slew =,0.06	2R3	4	0	4,747,775:02:0	
198	98	326	02:07:12.533	117DB105A106A4D	7STRP	0.014001,-0.0080	Slew =12.01	2R3	4	0	4,747,777:77:0	
199	98	326	02:07:24.533	117DB105A106A4E	7STRP	-0.01015,0.0,0,0	Slew =,0.06	2R3	4	0	4,747,778:04:0	
200	98	326	02:07:59.866	488AC6A	6TMSED	NORM,EL5	Sci, Eng, and D/L Chan	2R3	4	0	4,747,778:57:0	
201	98	326	02:10:15.866	117DB11A	CSMOS	GE	***** GROUP END CSMOS	2R3	4	0	4,747,780:79:0	
202	98	326	02:11:27.200	432DY6A	6RTDS2	NIMDSL,AACNCG,RT	NIMS R/T DESELECT	2R3	4	0	4,747,782:04:0	
203	98	326	02:11:28.534	18JNJUPRTS02*		-----STOP-------		2R3	4	0	: :	
204	98	326	03:11:03.866	192GB4A	7CONE	17.4,0.0	Check S/P Position	2R3	4	0	4,747,841:00:0	
205	98	326	03:14:05.866	176GB6A	6TMREC	BPT	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R3	4	0	4,747,844:00:0	
206	98	326	03:16:20.533	176GB6B	6TMREC	NRC	NO RECORD Record Mode Change	2R3	4	0	4,747,846:20:0	
207	98	326	03:16:22.533	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	4,747,846:23:0	
208	98	326	03:16:22.533		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 5746.37 +/-	2R3	4	0	4,747,846:23:0	
209	98	326	03:16:23.933		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *5746.49 +/-	2R3	4	0	4,747,846:25:1	
210	98	326	03:16:29.200		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *5747.72 +/-	2R3	4	0	4,747,846:33:0	
211	98	326	03:16:30.400		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *5747.78 +/-	2R3	4	0	4,747,846:34:8	
212	98	326	03:16:31.800		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *5747.66 +/-	2R3	4	0	4,747,846:36:9	
213	98	326	03:16:32.533		DMS:	: *RECORD	R7, TRACK 2, REV, TIC *5747.49 +/-	2R3	4	0	4,747,846:38:0	
214	98	326	03:16:43.866		DMS:	: *RUNDOWN	R7, TRACK 2, REV, TIC *5744.83 +/-	2R3	4	0	4,747,846:55:0	
215	98	326	03:16:43.866	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,747,846:55:0	
216	98	326	03:16:45.066		DMS:	: *READY	RDY, TRACK 2, REV, TIC *5744.77 +/-	2R3	4	0	4,747,846:56:8	
217	98	326	04:22:17.200	488AC6B	6TMSED	FILL,EL5	Sci, Eng, and D/L Chan	2R3	4	0	4,747,911:40:0	
218	98	326	04:56:23.866	488AC6C	6TMSED	NORM,EL5	Sci, Eng, and D/L Chan	2R3	4	0	4,747,945:16:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
219	**98**	**326**	**06:25:15.867**	**18NNGLOBAL01-**		**-----START------**					**: :**	
220	**98**	**326**	**06:35:22.533**	**18ENGLOBAL01-**		**-----START------**					**: :**	
221	**98**	**326**	**06:35:22.533**	**18NNGLOBAL01-**		**-----STOP-------**					**: :**	
222	**98**	**326**	**07:11:46.533**	**18ENGLOBAL01-**		**-----STOP-------**					**: :**	
223	**98**	**326**	**11:40:43.866**	**18NNSUCOMP01-**		**-----START------**					**: :**	
224	**98**	**326**	**11:50:50.533**	**18NNSUCOMP01-**		**-----STOP-------**					**: :**	
225	**98**	**326**	**11:51:51.199**	**18ENSUCOMP01-**		**-----START------**					**: :**	
226	**98**	**326**	**11:56:54.533**	**18ENSUCOMP01-**		**-----STOP-------**					**: :**	
227	**98**	**326**	**11:56:54.533**	**18ENSUCOMP02-**		**-----START------**					**: :**	
228	**98**	**326**	**11:57:45.000**	**18NNDAC___01-**		**-----START------**					**: :**	
229	**98**	**326**	**11:57:46.000**	**18NNDAC___01-**		**-----STOP-------**					**: :**	
230	**98**	**326**	**12:12:55.000**	**18NNDAC___02-**		**-----START------**					**: :**	
231	**98**	**326**	**12:12:56.000**	**18NNDAC___02-**		**-----STOP-------**					**: :**	
232	**98**	**326**	**12:18:08.533**	**18NNSUCOMP03-**		**-----START------**					**: :**	
233	**98**	**326**	**12:28:15.199**	**18NNSUCOMP03-**		**-----STOP-------**					**: :**	
234	**98**	**326**	**12:29:15.866**	**18ENSUCOMP02-**		**-----STOP-------**					**: :**	
235	**98**	**326**	**12:29:15.866**	**18ENSUCOMP03-**		**-----START------**					**: :**	
236	**98**	**326**	**12:37:21.199**	**18ENSUCOMP03-**		**-----STOP-------**					**: :**	
237	**98**	**326**	**15:42:23.199**	**18NNGLOBAL02-**		**-----START------**					**: :**	
238	**98**	**326**	**15:52:29.866**	**18NNGLOBAL02-**		**-----STOP-------**					**: :**	
239	**98**	**326**	**16:42:02.533**	**18ENGLOBAL02-**		**-----START------**					**: :**	
240	**98**	**326**	**17:27:32.533**	**18ENGLOBAL02-**		**-----STOP-------**					**: :**	
241	**98**	**326**	**17:38:39.866**	**18NNJUPRTS03-**		**-----START------**					**: :**	
242	**98**	**326**	**17:48:46.533**	**18NNJUPRTS03-**		**-----STOP-------**					**: :**	
243	**98**	**326**	**17:49:47.200**	**18JNJUPRTS03***		**-----START------**					**: :**	
244	**98**	**326**	**18:03:56.533**	**18JNJUPRTS03***		**-----STOP-------**					**: :**	
245	**98**	**327**	**03:46:20.533**	**18NNNHRSPEC01-**		**-----START------**					**: :**	
246	**98**	**327**	**03:56:27.200**	**18INHRSPEC01-**		**-----START------**					**: :**	
247	**98**	**327**	**03:56:27.200**	**18NNNHRSPEC01-**		**-----STOP-------**					**: :**	
248	**98**	**327**	**04:05:22.533**	**18INHRSPEC01-**		**-----STOP-------**					**: :**	
249	**98**	**327**	**04:28:48.533**	**18NNCHOPOF01-**		**-----START------**					**: :**	
250	**98**	**327**	**04:38:55.200**	**18NNCHOPOF01-**		**-----STOP-------**					**: :**	
251	98	327	18:12:01.133	20ZS6A	6CKSUM	MAG,4040,46F0					4,750,156:21:0	
252	98	327	18:12:41.133	20ZS6B	6MROH	12,2282,0,A10	read from LLM1A12,2282,0,A1				4,750,156:81:0	
253	98	327	18:12:41.133	20ZS6B	6MROH	12	read from LLM1A12,2282,0,A1				4,750,156:81:0	
254	**98**	**327**	**18:19:59.800**	**20ZU3Q**	**37HR**	**1**	**Replacement Heaters OFF**				**4,750,164:11:0**	
255	**98**	**327**	**18:20:01.800**	**20ZU3S**	**37HR**	**2**	**Replacement Heaters OFF**				**4,750,164:14:0**	
256	**98**	**327**	**18:20:27.800**	**20ZU3R**	**37A**	**1**	**NIMS Power ON**	**260**	**4**	**0**	**4,750,164:53:0**	
257	**98**	**327**	**18:20:29.800**	**20ZU3T**	**37A**	**2**	**NIMS Power ON Phase 0**	**260**	**4**	**0**	**4,750,164:56:0**	
258	**98**	**327**	**18:22:29.133**	**20ZU4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**4,750,166:53:0**	
259	98	327	18:52:59.800	41V99A	**POWER**	**PWR MODE change**	Change to Maneuver/Playback Mode	2R0	4	0	4,750,196:69:0	
260	**98**	**327**	**18:54:53.800**	**41V3G**	**40T1P**	**1**	**PCT Heater 1 ON (primary relay)**	**2R0**	**4**	**0**	**4,750,198:58:0**	
261	**98**	**327**	**18:55:03.800**	**41V3H**	**40T1P**	**2**	**PCT Heater 1 ON (primary relay)**	**2R0**	**4**	**0**	**4,750,198:73:0**	
262	**98**	**327**	**18:55:13.800**	**41V3I**	**40T2**	**1**	**PCT Heater 2 ON**	**2R0**	**4**	**0**	**4,750,198:88:0**	
263	**98**	**327**	**18:55:23.800**	**41V3J**	**40T2**	**2**	**PCT Heater 2 ON**	**2R0**	**4**	**0**	**4,750,199:12:0**	
264	98	327	19:00:03.800	20RA6A	6MROH	44,2266,0,A10	read from LLM2A44,2266,0,A1	2R0	4	0	4,750,203:68:0	
265	98	327	19:02:03.800	20RA6B	6MROH	45,2255,0,B10	read from LLM2B45,2255,0,B1	2R0	4	0	4,750,205:66:0	
266	98	327	20:05:03.800	20UP4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	2R0	4	0	4,750,268:03:0	
267	98	327	20:05:53.800	20UP4B	7SLEW	DIS,POS,0.0	Stator movement	2R0	4	0	4,750,268:78:0	
268	98	328	00:59:59.800		DMS:	: READY	RDY, TRACK 2, REV, TIC 5744.77 +/-	2R0	4	0	4,750,559:66:0	
269	**98**	**328**	**01:00:00.000**	**20A3EW**	**37A**	**Final Condition**	**NIMS Power ON**	**2R0**	**4**	**0**	**4,750,559:66:3**	
270	**98**	**328**	**01:00:00.000**	**20A3EX**	**37HR**	**Final Condition**	**Replacement Heaters OFF**	**2R0**	**4**	**0**	**4,750,559:66:3**	
271	**98**	**328**	**01:00:00.000**	**20A3EY**	**37C1PR**	**Final Condition**	**Optics Heater 1 OFF (primary relay)**	**2R0**	**4**	**0**	**4,750,559:66:3**	
272	**98**	**328**	**01:00:00.000**	**20A3EZ**	**37C2PR**	**Final Condition**	**Optics Heater 2 OFF (primary relay)**	**2R0**	**4**	**0**	**4,750,559:66:3**	
273	**98**	**328**	**01:00:00.000**	**20A3FA**	**37F1PR**	**Final Condition**	**Radiator Flash Heater OFF (primary relay)**	**2R0**	**4**	**0**	**4,750,559:66:3**	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
274	98	328	01:00:00.000	20A3FB	37F2PR	Final Condition	Shield Flash Heater OFF (primary relay)	2R0	4	0	4,750,559:66:3
275	98	328	01:00:00.000	20A3FD	40HRPR	Final Condition	RCT Heater OFF (primary relay)	2R0	4	0	4,750,559:66:3
276	98	328	01:00:00.000	20A3FE	40T1P	Final Condition	PCT Heater 1 ON (primary relay)	2R0	4	0	4,750,559:66:3
277	98	328	01:00:00.000	20A3FF	40T2	Final Condition	PCT Heater 2 ON	2R0	4	0	4,750,559:66:3

			Sequence:	E18B-AR		Created: 3/5/99	Begin: 98-328/01:00:00 Finish: 99-031/02:00:00				
Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
1	98	328	00:59:59.800		DMS:	: READY	RDY, TRACK 2, REV, TIC 5744.77 +/-	2R0	4	0	4,750,559:66:0
2	**98**	**328**	**01:00:00.000**	**20A3FF**	**40T2**	**Initial Condition**	**PCT Heater 2 ON**	**2R0**	**4**	**0**	**4,750,559:66:3**
3	**98**	**328**	**01:00:00.000**	**20A3EW**	**37A**	**Initial Condition**	**NIMS Power ON Phase 0**	**2R0**	**4**	**0**	**4,750,559:66:3**
4	**98**	**328**	**01:00:00.000**	**20A3EX**	**37HR**	**Initial Condition**	**Replacement Heaters OFF**	**2R0**	**4**	**0**	**4,750,559:66:3**
5	**98**	**328**	**01:00:00.000**	**20A3EY**	**37C1PR**	**Initial Condition**	**Optics Heater 1 OFF (primary relay)**	**2R0**	**4**	**0**	**4,750,559:66:3**
6	**98**	**328**	**01:00:00.000**	**20A3EZ**	**37C2PR**	**Initial Condition**	**Optics Heater 2 OFF (primary relay)**	**2R0**	**4**	**0**	**4,750,559:66:3**
7	**98**	**328**	**01:00:00.000**	**20A3FA**	**37F1PR**	**Initial Condition**	**Radiator Flash Heater OFF (primary relay)**	**2R0**	**4**	**0**	**4,750,559:66:3**
8	**98**	**328**	**01:00:00.000**	**20A3FB**	**37F2PR**	**Initial Condition**	**Shield Flash Heater OFF (primary relay)**	**2R0**	**4**	**0**	**4,750,559:66:3**
9	**98**	**328**	**01:00:00.000**	**20A3FD**	**40HRPR**	**Initial Condition**	**RCT Heater OFF (primary relay)**	**2R0**	**4**	**0**	**4,750,559:66:3**
10	**98**	**328**	**01:00:00.000**	**20A3FE**	**40T1P**	**Initial Condition**	**PCT Heater 1 ON (primary relay)**	**2R0**	**4**	**0**	**4,750,559:66:3**
11	98	328	01:01:00.466	488AA6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2R0	4	0	4,750,560:66:0
12	**98**	**328**	**01:01:15.800**	**432NA6B**	**6RTDS2**	**NIMDSL,AACDSL,RT**	**NIMS R/T DESELECTAACS DESELECT**	**2R0**	**4**	**0**	**4,750,560:89:0**
13	98	328	01:05:03.800	20WA4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	2R0	4	0	4,750,564:67:0
14	98	328	01:05:53.800	20WA4B	7SLEW	DIS,POS,0.0	Stator movement	2R0	4	0	4,750,565:51:0
15	98	328	01:07:21.133	176SA6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	2R0	4	0	4,750,567:00:0
16	98	328	05:55:24.466	488AA6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R0	4	0	4,750,851:81:0
17	98	328	06:36:15.800	488AA6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2R0	4	0	4,750,892:27:0
18	98	328	06:42:20.466	488AA6D	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	2R0	4	0	4,750,898:28:0
19	98	328	08:38:33.800	488AB6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2R0	4	0	4,751,013:23:0
20	98	328	10:00:44.466	488AB6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2R0	4	0	4,751,094:48:0
21	98	328	13:19:08.466	488AB6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R0	4	0	4,751,290:68:0
22	98	328	13:55:24.466	488AB6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2R0	4	0	4,751,326:56:0
23	98	328	14:23:08.466	488AB6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R0	4	0	4,751,354:04:0
24	98	328	16:07:40.466	488AC6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2R0	4	0	4,751,457:39:0
25	98	328	16:34:59.800	488AC6B	6TMSED	NORM,AH6	Sci, Eng, and D/L Chan	2R0	4	0	4,751,484:41:0
26	98	328	16:38:35.133	176SH6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	2R0	4	0	4,751,488:00:0
27	98	328	17:08:59.800	20SQ4I	**7MODE**	**INT**	AACS INERTIAL MODE	2R0	4	0	4,751,518:07:0
28	98	328	17:23:59.800	20SQ4K	7SLEW	INIT,POS,17.45	Stator movement	2R0	4	0	4,751,532:83:0
29	98	328	17:35:59.800	20SQ4L	7SLEW	DIS,POS,0.0	Stator movement	2R0	4	0	4,751,544:71:0
30	98	328	17:42:59.800	20SQ4M	7SLEW	INIT,NEG,17.45	Stator movement	2R0	4	0	4,751,551:64:0
31	98	328	17:54:59.800	20SQ4N	7SLEW	DIS,POS,0.0	Stator movement	2R0	4	0	4,751,563:52:0
32	98	328	18:06:59.800	20SQ4AH	**7MODE**	**CRU**	AACS CRUISE MODE	2R0	4	0	4,751,575:40:0
33	98	328	18:23:03.800	20ST4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	2R0	4	0	4,751,591:30:0
34	98	328	18:23:53.800	20ST4B	7SLEW	DIS,POS,0.0	Stator movement	2R0	4	0	4,751,592:14:0
35	98	328	18:24:45.133	176SJ6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	2R0	4	0	4,751,593:00:0
36	98	328	18:42:59.800	488AC6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2R0	4	0	4,751,611:04:0
37	98	328	21:04:12.466	488AC6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2R0	4	0	4,751,750:64:0
38	98	328	21:57:32.466	488AC6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R0	4	0	4,751,803:41:0
39	98	328	22:37:45.800	488AD6A	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2R0	4	0	4,751,843:21:0
40	98	328	23:06:51.800	488AD6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R0	4	0	4,751,872:01:0
41	98	328	23:59:59.800	481UB4A	7VECT		Inert vect update UTC	2R0	4	0	4,751,924:51:0
42	98	329	03:00:28.400	488AD6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2R0	4	0	4,752,103:05:0
43	98	329	03:43:08.400	488AD6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R0	4	0	4,752,145:23:0
44	98	329	04:12:47.733	488AD6E	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2R0	4	0	4,752,174:53:0
45	98	329	04:46:53.733	488AE6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R0	4	0	4,752,208:28:0
46	98	329	13:10:36.400	488AF6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2R0	4	0	4,752,706:44:0
47	98	329	14:16:44.400	488AF6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R0	4	0	4,752,771:81:0
48	98	329	14:57:52.400	488AF6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2R0	4	0	4,752,812:52:0
49	98	329	15:26:58.400	488AF6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R0	4	0	4,752,841:32:0
50	98	329	15:52:44.400	488AF6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2R0	4	0	4,752,866:76:0
51	98	329	15:52:59.733	488AG6A	6TMSED	NORM,AH6	Sci, Eng, and D/L Chan	2R0	4	0	4,752,867:08:0
52	98	329	15:57:57.733	176SB6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	2R0	4	0	4,752,872:00:0
53	98	329	16:08:59.733	20AA4C	7STAT	17.45,260.8759,5	Stator inertial point	2R0	4	0	4,752,882:83:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
54	98	329	16:29:59.733	474AA416A4B	**7MODE**	**INT**	AACS INERTIAL MODE	2R0	4	0	4,752,903:62:0
55	98	329	16:31:59.733	474AA416A4D	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	2R0	4	0	4,752,905:60:0
56	98	329	16:32:19.733	20AA4D	7STAT	17.45,260.8759,5	Stator inertial point	2R0	4	0	4,752,905:90:0
57	98	329	16:36:13.733	474AA416A4E	7BURN	,260.875896,5.54	ALERT -- Thruster fire	2R0	4	0	4,752,909:77:0
58	98	329	16:45:37.066	20AA4F	7SLEW	DIS,POS,0.0	Stator movement	2R0	4	0	4,752,919:12:0
59	98	329	16:51:29.066	20AA4G	**7MODE**	**CRU**	AACS CRUISE MODE	2R0	4	0	4,752,924:85:0
60	98	329	17:15:45.066	20AA4L	7STAT	17.45,260.8759,5	Stator inertial point	2R0	4	0	4,752,948:85:0
61	98	329	17:18:45.066	20AA4O	**7MODE**	**INT**	AACS INERTIAL MODE	2R0	4	0	4,752,951:82:0
62	98	329	17:20:45.066	474AA416A4G	7BURN	AT,260.875896,5.	ALERT -- Thruster fire	2R0	4	0	4,752,953:80:0
63	98	329	17:29:17.066	20AA4Q	7SLEW	DIS,POS,0.0	Stator movement	2R0	4	0	4,752,962:29:0
64	98	329	17:34:09.066	20AA4R	**7MODE**	**CRU**	AACS CRUISE MODE	2R0	4	0	4,752,967:12:0
65	98	329	18:41:41.066	20AB4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	2R0	4	0	4,753,033:84:0
66	98	329	18:42:31.066	20AB4B	7SLEW	DIS,POS,0.0	Stator movement	2R0	4	0	4,753,034:68:0
67	98	329	18:55:54.400	432JN431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	2R0	4	0	4,753,047:90:0
68	98	329	18:55:55.066	432JN6A	6RTSL1		R/T Select of DDS and	2R0	4	0	4,753,048:00:0
69	98	329	20:59:56.400	488AG6B	6TMSED	NORM,AH4	Sci, Eng, and D/L Chan	2R0	4	0	4,753,170:60:0
70	98	329	21:53:16.400	488AH6A	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	2R0	4	0	4,753,223:37:0
71	98	329	22:00:59.733	488AH6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R0	4	0	4,753,231:04:0
72	98	329	22:01:57.733	176SC6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	2R0	4	0	4,753,232:00:0
73	98	329	22:32:55.733	488AH6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2R0	4	0	4,753,262:57:0
74	98	329	23:02:01.733	488AH6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R0	4	0	4,753,291:37:0
75	98	330	03:32:28.400	488AH6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2R0	4	0	4,753,558:80:0
76	98	330	04:19:20.400	488AI6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2R0	4	0	4,753,605:21:0
77	98	330	04:46:10.400	488AI6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2R0	4	0	4,753,631:70:0
78	98	330	06:01:48.400	488AI6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2R0	4	0	4,753,706:52:0
79	98	330	10:45:32.333	488AJ6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2R0	4	0	4,753,987:17:0
80	98	330	11:48:04.333	20OB6A	6HICON			2R0	4	0	4,754,049:03:0
81	98	330	11:59:09.000	432NB431A6A	6RCDSL	DDSNCG,PLSDSL,EP	Record Deselect (DDS o	2R0	4	0	4,754,059:90:0
82	**98**	**330**	**11:59:09.666**	**432NB6B**	**6RTSL2**	**NIMNCG,AACSEL,RT**	**AACS SELECT**	**2R0**	**4**	**0**	**4,754,060:00:0**
83	98	330	11:59:09.666	432NB6A	6RTSL1		R/T Select of DDS and	2R0	4	0	4,754,060:00:0
84	98	330	13:14:52.333	488AJ6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R0	4	0	4,754,134:80:0
85	98	330	13:44:44.333	488AJ6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2R0	4	0	4,754,164:38:0
86	98	330	13:50:15.666	488AJ6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2R0	4	0	4,754,169:80:0
87	98	330	13:55:24.333	488AJ6E	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	2R0	4	0	4,754,174:88:0
88	98	330	14:10:20.333	488AK6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2R0	4	0	4,754,189:67:0
89	98	330	18:09:03.000	488AK6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2R0	4	0	4,754,425:75:0
90	98	330	21:19:08.333	488AL6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R0	4	0	4,754,613:75:0
91	98	330	22:55:08.333	488AL6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2R0	4	0	4,754,708:70:0
92	98	330	23:23:02.333	488AL6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2R0	4	0	4,754,736:33:0
93	98	330	23:31:24.333	488AL6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2R0	4	0	4,754,744:58:0
94	98	331	00:09:01.000	488AL6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2R0	4	0	4,754,781:76:0
95	98	331	02:54:04.333	488AM6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R0	4	0	4,754,945:07:0
96	98	331	03:28:12.333	488AM6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2R0	4	0	4,754,978:76:0
97	98	331	05:57:32.333	488AM6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2R0	4	0	4,755,126:48:0
98	98	331	08:48:03.666	488AM6D	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	2R0	4	0	4,755,295:16:0
99	98	331	08:50:20.333	488AM6E	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	2R0	4	0	4,755,297:39:0
100	98	331	13:32:56.333	488AN6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2R0	4	0	4,755,576:84:0
101	98	331	13:42:36.333	488AN6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2R0	4	0	4,755,586:44:0
102	98	331	14:53:00.333	488AN6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R0	4	0	4,755,656:10:0
103	98	331	15:03:11.666	488AN6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2R0	4	0	4,755,666:17:0
104	98	331	15:32:17.666	488AN6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R0	4	0	4,755,694:88:0
105	98	331	20:53:32.266	488AO6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2R0	4	0	4,756,012:62:0
106	98	331	21:17:00.266	488AO6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R0	4	0	4,756,035:81:0
107	98	331	22:16:44.266	488AO6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2R0	4	0	4,756,094:88:0
108	98	331	22:24:37.600	488AO6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2R0	4	0	4,756,102:70:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
109	98	331	22:51:26.933	488AO6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2R0	4	0	4,756,129:27:0	
110	98	332	02:49:48.266	488AP6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R0	4	0	4,756,365:03:0	
111	98	332	03:21:48.266	488AP6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2R0	4	0	4,756,396:62:0	
112	98	332	05:57:32.266	488AP6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2R0	4	0	4,756,550:64:0	
113	98	332	10:34:52.266	488AQ6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2R0	4	0	4,756,824:90:0	
114	98	332	13:08:28.266	488AQ6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R0	4	0	4,756,976:82:0	
115	98	332	13:38:20.266	488AQ6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2R0	4	0	4,757,006:40:0	
116	98	332	14:08:12.266	488AQ6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R0	4	0	4,757,035:89:0	
117	98	332	15:46:20.266	488AQ6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2R0	4	0	4,757,133:03:0	
118	98	332	21:08:28.266	488AR6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R0	4	0	4,757,451:57:0	
119	98	332	22:23:08.266	488AR6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2R0	4	0	4,757,525:43:0	
120	98	333	02:43:24.200	488AR6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R0	4	0	4,757,782:80:0	
121	98	333	03:21:48.200	488AS6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2R0	4	0	4,757,820:78:0	
122	98	333	05:57:32.200	488AS6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2R0	4	0	4,757,974:80:0	
123	98	333	10:24:12.200	488AT6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2R0	4	0	4,758,238:56:0	
124	98	333	13:04:12.200	488AT6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R0	4	0	4,758,396:78:0	
125	98	333	13:34:04.200	488AT6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2R0	4	0	4,758,426:36:0	
126	98	333	14:01:48.200	488AT6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R0	4	0	4,758,453:75:0	
127	98	333	15:46:20.200	488AT6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2R0	4	0	4,758,557:19:0	
128	98	333	20:59:56.200	488AU6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2R0	4	0	4,758,867:33:0	
129	98	333	21:17:00.200	488AU6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R0	4	0	4,758,884:22:0	
130	98	333	22:12:28.200	488AU6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2R0	4	0	4,758,939:09:0	
131	98	334	02:43:24.200	488AU6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R0	4	0	4,759,207:05:0	
132	98	334	03:17:32.200	488AV6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2R0	4	0	4,759,240:74:0	
133	98	334	06:06:04.200	488AV6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2R0	4	0	4,759,407:45:0	
134	98	334	10:09:16.133	488AW6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2R0	4	0	4,759,648:02:0	
135	**98**	**334**	**11:59:26.133**	**432NC6B**	**6RTDS2**	**NIMNCG,AACDSL,RT**	**AACS DESELECT**	**2R0**	**4**	**0**	**4,759,756:89:0**	
136	98	334	12:59:56.133	488AW6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R0	4	0	4,759,816:74:0	
137	98	334	13:29:48.133	488AW6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	2R0	4	0	4,759,846:32:0	
138	98	334	13:29:48.800	488AW6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	2R0	4	0	4,759,846:33:0	
139	98	334	13:59:40.133	488AW6E	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2R0	4	0	4,759,875:81:0	
140	98	334	16:09:20.800	488AX6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R0	4	0	4,760,004:13:0	
141	98	334	17:28:40.800	488AX6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2R0	4	0	4,760,082:55:0	
142	98	334	17:57:23.466	176ST6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	2R0	4	0	4,760,111:00:0	
143	98	334	17:57:46.800	488AX6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R0	4	0	4,760,111:35:0	
144	98	334	18:02:00.133	20UQ4B	7SLEW	DIS,POS,0.0	Stator movement	2R0	4	0	4,760,115:51:0	
145	98	334	18:03:00.133	20UQ4D	**7MODE**	**SPNL**	AACS ALL-SPIN LOW	2R0	4	0	4,760,116:50:0	
146	98	334	18:05:00.133	20UQ4E	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	2R0	4	0	4,760,118:48:0	
147	98	334	18:10:30.133	20UQ4G	7VENT	0.611,1.333,8	ALERT -- Thruster fire	2R0	4	0	4,760,123:88:0	
148	98	334	18:10:30.800	20UQ4H	7VENT	0.611,10.989,8	ALERT -- Thruster fire	2R0	4	0	4,760,123:89:0	
149	98	334	18:10:50.800	20UQ4I	7VENT	0.611,1.333,6	ALERT -- Thruster fire	2R0	4	0	4,760,124:28:0	
150	98	334	18:10:51.466	20UQ4J	7VENT	0.611,10.989,6	ALERT -- Thruster fire	2R0	4	0	4,760,124:29:0	
151	98	334	18:11:11.466	20UQ4K	7VENT	0.611,1.333,4	ALERT -- Thruster fire	2R0	4	0	4,760,124:59:0	
152	98	334	18:11:12.133	20UQ4L	7VENT	0.611,0.666,5	ALERT -- Thruster fire	2R0	4	0	4,760,124:60:0	
153	98	334	18:11:22.133	20UQ4M	7VENT	0.611,1.333,4	ALERT -- Thruster fire	2R0	4	0	4,760,124:75:0	
154	98	334	18:11:22.800	20UQ4N	7VENT	0.611,0.666,5	ALERT -- Thruster fire	2R0	4	0	4,760,124:76:0	
155	98	334	18:11:32.800	20UQ4O	7VENT	1.211,1.333,10	ALERT -- Thruster fire	2R0	4	0	4,760,125:00:0	
156	98	334	18:11:33.466	20UQ4P	7VENT	1.211,0.666,12	ALERT -- Thruster fire	2R0	4	0	4,760,125:01:0	
157	98	334	18:13:20.133	20UQ4S	7VENT	0.611,1.333,7	ALERT -- Thruster fire	2R0	4	0	4,760,126:70:0	
158	98	334	18:13:20.800	20UQ4T	7VENT	0.611,10.989,7	ALERT -- Thruster fire	2R0	4	0	4,760,126:71:0	
159	98	334	18:13:40.800	20UQ4U	7VENT	0.611,1.333,1	ALERT -- Thruster fire	2R0	4	0	4,760,127:10:0	
160	98	334	18:13:41.466	20UQ4V	7VENT	0.611,10.989,1	ALERT -- Thruster fire	2R0	4	0	4,760,127:11:0	
161	98	334	18:14:01.466	20UQ4AC	7VENT	0.611,1.333,2	ALERT -- Thruster fire	2R0	4	0	4,760,127:41:0	
162	98	334	18:14:02.133	20UQ4AD	7VENT	0.611,0.666,3	ALERT -- Thruster fire	2R0	4	0	4,760,127:42:0	
163	98	334	18:14:12.133	20UQ4AE	7VENT	0.611,1.333,2	ALERT -- Thruster fire	2R0	4	0	4,760,127:57:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
164	98	334	18:14:12.800	20UQ4AF	7VENT	0.611,0.666,3	ALERT -- Thruster fire	2R0	4	0	4,760,127:58:0	
165	98	334	18:14:22.800	20UQ4W	7VENT	1.211,1.333,9	ALERT -- Thruster fire	2R0	4	0	4,760,127:73:0	
166	98	334	18:14:23.466	20UQ4X	7VENT	1.211,0.666,11	ALERT -- Thruster fire	2R0	4	0	4,760,127:74:0	
167	98	334	18:15:20.133	20UQ4Z	**7MODE**	**CRU**	AACS CRUISE MODE	2R0	4	0	4,760,128:68:0	
168	98	334	18:40:04.133	20UJ4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	2R0	4	0	4,760,153:19:0	
169	98	334	18:40:54.133	20UJ4B	7SLEW	DIS,POS,0.0	Stator movement	2R0	4	0	4,760,154:03:0	
170	98	334	18:42:53.466	176SU6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	2R0	4	0	4,760,156:00:0	
171	98	334	21:49:00.133	488AX6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2R0	4	0	4,760,340:06:0	
172	98	334	23:03:40.133	488AY6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2R0	4	0	4,760,413:83:0	
173	98	335	00:10:06.800	488AY6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2R0	4	0	4,760,479:57:0	
174	98	335	00:36:56.133	488AY6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2R0	4	0	4,760,506:14:0	
175	98	335	02:46:32.800	488AY6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2R0	4	0	4,760,634:31:0	
176	98	335	02:51:56.133	488AY6E	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	2R0	4	0	4,760,639:61:0	
177	98	335	08:37:26.800	488AZ6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2R0	4	0	4,760,981:35:0	
178	98	335	09:47:56.133	488AZ6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2R0	4	0	4,761,051:09:0	
179	98	335	12:49:16.133	488AZ6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R0	4	0	4,761,230:40:0	
180	98	335	13:29:48.133	488AZ6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2R0	4	0	4,761,270:48:0	
181	98	335	14:01:48.133	488AZ6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R0	4	0	4,761,302:16:0	
182	98	335	15:52:44.133	488BA6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2R0	4	0	4,761,411:81:0	
183	98	335	19:30:14.066	431MA6A	6RCSEL	DDSSEL,PLSNCG,EP	Record Select (DDS onl	2R0	4	0	4,761,627:00:0	
184	98	335	20:34:20.066	488BA6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R0	4	0	4,761,690:36:0	
185	98	335	20:49:16.066	488BA6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2R0	4	0	4,761,705:15:0	
186	98	335	21:10:36.066	488BA6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R0	4	0	4,761,726:24:0	
187	98	335	22:12:28.066	488BB6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2R0	4	0	4,761,787:41:0	
188	98	336	02:34:52.066	488BB6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R0	4	0	4,762,046:88:0	
189	98	336	03:17:32.066	488BB6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2R0	4	0	4,762,089:15:0	
190	98	336	06:46:36.066	488BC6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2R0	4	0	4,762,295:85:0	
191	98	336	09:13:48.066	488BC6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2R0	4	0	4,762,441:47:0	
192	98	336	12:42:52.066	488BC6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R0	4	0	4,762,648:26:0	
193	98	336	13:23:24.066	488BD6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2R0	4	0	4,762,688:34:0	
194	98	336	13:25:05.400	488BD6B	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	2R0	4	0	4,762,690:04:0	
195	98	336	13:44:44.066	488BD6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2R0	4	0	4,762,709:43:0	
196	98	336	16:38:08.066	488BD6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2R0	4	0	4,762,880:88:0	
197	98	336	20:23:40.066	488BE6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R0	4	0	4,763,104:02:0	
198	98	336	20:34:20.066	488BE6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2R0	4	0	4,763,114:52:0	
199	98	336	21:36:12.066	488BE6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R0	4	0	4,763,175:69:0	
200	98	336	22:09:00.733	488BE6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2R0	4	0	4,763,208:19:0	
201	98	336	22:38:06.733	488BE6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R0	4	0	4,763,236:90:0	
202	98	337	05:42:36.000	488BF6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2R0	4	0	4,763,656:74:0	
203	**98**	**337**	**05:59:53.333**	**33A4A**	**37IST**	**1,0,0,OFF,0,0,0**	**Chopper ON, Sync, 63Hz (Ref)**	**260**	**4**	**0**	**4,763,673:83:0**	
204	**98**	**337**	**06:00:54.000**	**33B4A**	**37IST**	**1,1,0,OFF,0,0,0**	**Chopper OFF, N/A, 63Hz (Ref)**	**2O0**	**4**	**0**	**4,763,674:83:0**	
205	98	337	06:27:24.000	488BF6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	4,763,701:11:0	
206	98	337	07:40:26.666	488BF6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	4,763,773:33:0	
207	98	337	08:07:16.000	488BF6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	4,763,799:81:0	
208	98	337	12:38:36.000	488BG6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	4,764,068:22:0	
209	98	337	13:16:02.666	488BG6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	4,764,105:25:0	
210	98	337	13:19:08.000	488BG6C	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	2O0	4	0	4,764,108:30:0	
211	98	337	13:55:24.000	488BG6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	4,764,144:18:0	
212	98	337	15:23:53.333	488BG6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	4,764,231:65:0	
213	98	337	16:05:32.000	488BH6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	4,764,272:82:0	
214	98	337	20:04:28.000	488BH6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	4,764,509:19:0	
215	98	337	22:18:52.000	488BI6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	4,764,642:12:0	
216	98	337	22:56:58.000	488BI6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	4,764,679:74:0	
217	98	337	23:05:48.000	488BI6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	4,764,688:50:0	
218	98	338	00:37:56.000	488BI6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	4,764,779:61:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
219	98	338	02:28:28.000	488BI6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	4,764,888:90:0	
220	98	338	03:11:08.000	488BJ6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	4,764,931:17:0	
221	98	338	12:34:19.933	488BK6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	4,765,488:18:0	
222	98	338	12:57:47.933	488BK6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2O0	4	0	4,765,511:37:0	
223	98	338	13:16:59.933	488BK6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	4,765,530:36:0	
224	98	338	14:36:29.266	488BK6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	4,765,609:01:0	
225	98	338	15:01:31.933	488BK6E	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	4,765,633:71:0	
226	98	338	15:07:23.266	488BL6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	4,765,639:52:0	
227	98	338	21:08:27.933	488BM6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	4,765,996:62:0	
228	98	338	22:50:27.266	488BM6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	4,766,097:50:0	
229	98	338	22:52:59.933	488BM6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	2O0	4	0	4,766,100:06:0	
230	98	338	23:03:39.933	488BM6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	4,766,110:56:0	
231	98	339	00:07:47.933	488BM6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	4,766,174:04:0	
232	98	339	04:49:15.933	488BN6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	4,766,452:38:0	
233	98	339	06:08:11.933	488BN6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	4,766,530:44:0	
234	98	339	06:26:45.933	488BN6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	4,766,548:77:0	
235	98	339	06:35:55.933	488BN6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	4,766,557:83:0	
236	98	339	09:37:43.933	488BN6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	4,766,737:65:0	
237	98	339	12:27:55.933	488BO6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	4,766,906:04:0	
238	98	339	13:08:27.933	488BO6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	4,766,946:12:0	
239	98	339	13:51:07.933	488BO6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	4,766,988:30:0	
240	98	339	16:35:23.933	488BO6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	4,767,150:72:0	
241	98	339	17:59:57.200	488BO6E	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	4,767,234:38:0	
242	98	339	18:02:51.866	488BP6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	4,767,237:27:0	
243	98	339	20:35:20.533	488BP6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	4,767,388:09:0	
244	98	339	20:55:39.866	488BP6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	4,767,408:18:0	
245	98	339	22:16:43.866	488BP6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	4,767,488:34:0	
246	98	340	02:24:11.866	488BQ6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	4,767,733:11:0	
247	98	340	03:11:07.866	488BQ6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	4,767,779:49:0	
248	98	340	12:17:15.866	488BR6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	4,768,319:61:0	
249	98	340	13:04:11.866	488BR6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	4,768,366:08:0	
250	98	340	13:51:07.866	488BR6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	4,768,412:46:0	
251	98	340	17:11:39.866	488BR6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	4,768,610:76:0	
252	98	340	18:39:07.866	488BS6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	4,768,697:31:0	
253	98	340	20:58:29.200	488BS6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	4,768,835:15:0	
254	98	340	21:02:03.866	488BS6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	4,768,838:64:0	
255	98	341	02:25:09.133	488BT6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	4,769,158:22:0	
256	98	341	02:34:51.800	488BT6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	4,769,167:77:0	
257	98	341	03:11:07.800	488BT6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	4,769,203:65:0	
258	98	341	12:12:59.800	488BU6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	4,769,739:57:0	
259	98	341	12:57:47.800	488BU6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	4,769,783:85:0	
260	98	341	14:26:55.133	488BU6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	4,769,872:07:0	
261	98	341	15:00:34.466	488BU6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	4,769,905:33:0	
262	98	341	15:10:03.800	488BU6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	4,769,914:68:0	
263	98	341	20:32:11.800	488BV6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	4,770,233:31:0	
264	98	341	22:38:03.800	488BV6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2O0	4	0	4,770,357:75:0	
265	98	341	22:39:18.466	488BV6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	2O0	4	0	4,770,359:05:0	
266	98	341	22:50:51.800	488BV6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	4,770,370:44:0	
267	98	342	00:27:21.133	488BV6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	4,770,465:83:0	
268	98	342	02:55:30.466	488BW6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	4,770,612:40:0	
269	98	342	05:22:19.133	488BW6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	4,770,757:58:0	
270	98	342	12:02:19.733	488BX6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	4,771,153:23:0	
271	98	342	12:51:23.733	488BX6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	4,771,201:71:0	
272	98	342	13:51:07.733	488BX6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	4,771,260:78:0	
273	98	342	21:42:35.733	488BY6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	4,771,727:13:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
274	98	342	22:36:14.400	488BY6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	4,771,780:18:0	
275	98	343	02:14:52.400	488BY6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	4,771,996:39:0	
276	98	343	02:26:19.733	488BY6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	4,772,007:69:0	
277	98	343	03:11:07.733	488BY6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	4,772,052:06:0	
278	98	343	08:00:09.066	488BZ6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	4,772,337:83:0	
279	98	343	08:03:23.733	488BZ6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	4,772,341:11:0	
280	98	343	16:53:00.333	488CA6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	4,772,864:83:0	
281	98	343	17:07:00.333	20ZZ6B	6MROH	4,5B20,1,A2	read from HLM1A4,5B20,1,A2	2O0	4	0	4,772,878:69:0	
282	98	343	17:20:00.333	20ZZ6C	6MROH	5,5B20,1,B2	read from HLM1B5,5B20,1,B2	2O0	4	0	4,772,891:56:0	
283	98	343	18:15:00.333	488CA6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	4,772,946:01:0	
284	98	343	18:44:06.333	488CA6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	4,772,974:72:0	
285	98	343	19:58:03.666	488CA6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	4,773,047:85:0	
286	98	343	22:27:23.666	488CA6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2O0	4	0	4,773,195:57:0	
287	98	343	22:29:01.666	488CB6A	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	2O0	4	0	4,773,197:22:0	
288	98	343	22:40:11.666	488CB6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	4,773,208:26:0	
289	98	344	02:14:43.666	488CB6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	4,773,420:42:0	
290	98	344	02:26:19.666	488CB6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	4,773,431:85:0	
291	98	344	03:11:07.666	488CB6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	4,773,476:22:0	
292	98	344	11:47:23.666	488CC6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	4,773,986:76:0	
293	98	344	12:40:43.666	488CC6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	4,774,039:53:0	
294	98	344	13:51:07.666	488CC6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	4,774,109:19:0	
295	98	344	14:31:04.333	20YC6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	4,774,148:65:0	
296	98	344	14:37:00.333	20ZY6B	6MROH	4,5B20,1,A2	read from HLM1A4,5B20,1,A2	2O0	4	0	4,774,154:53:0	
297	98	344	14:50:00.333	20ZY6C	6MROH	5,5B20,1,B2	read from HLM1B5,5B20,1,B2	2O0	4	0	4,774,167:40:0	
298	98	344	15:10:00.333	41YA99A	**POWER**	**PWR MODE change**	Change to Data Taking Mode	2O0	4	0	4,774,187:20:0	
299	**98**	**344**	**15:10:04.333**	**41YA3A**	**40T1PR**	**1**	**PCT Heater 1 OFF (primary relay)**	**2O0**	**4**	**0**	**4,774,187:26:0**	
300	**98**	**344**	**15:10:14.333**	**41YA3B**	**40T1PR**	**2**	**PCT Heater 1 OFF (primary relay)**	**2O0**	**4**	**0**	**4,774,187:41:0**	
301	**98**	**344**	**15:10:24.333**	**41YA3C**	**40T2R**	**1**	**PCT Heater 2 OFF**	**2O0**	**4**	**0**	**4,774,187:56:0**	
302	**98**	**344**	**15:10:34.333**	**41YA3D**	**40T2R**	**2**	**PCT Heater 2 OFF**	**2O0**	**4**	**0**	**4,774,187:71:0**	
303	98	344	15:19:53.666	176SK6A	6TMREC	**TPB**	TERMINATE PLAYBACK (PB CONTROL) Record Mo	2O0	4	0	4,774,197:00:0	
304	98	344	15:29:51.000	465KA6A	6DMSC	P7,2	DMS Control Tape P/B 7.68kbps	2O0	4	0	4,774,206:77:0	
305	98	344	15:29:51.000		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 5744.77 +/-	2O0	4	0	4,774,206:77:0	
306	98	344	15:29:52.400		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *5744.89 +/-	2O0	4	0	4,774,206:79:1	
307	98	344	15:29:57.666		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *5746.13 +/-	2O0	4	0	4,774,206:87:0	
308	98	344	15:29:58.866		DMS:	: *RUNUP	P7, TRACK *2, *REV, TIC *5746.19 +/-	2O0	4	0	4,774,206:88:8	
309	98	344	15:30:00.266		DMS:	: *P_SLEW	P7, TRACK 2, REV, TIC *5746.07 +/-	2O0	4	0	4,774,206:90:9	
310	98	344	15:30:00.266		DMS:	: *AT_SPD	P7, TRACK 2, REV, TIC 5746.07 +/-	2O0	4	0	4,774,206:90:9	
311	98	344	15:31:43.666	465KA6B	6DMSC	RDY,2	DMS Control Tape stop	2O0	4	0	4,774,208:64:0	
312	98	344	15:31:43.666		DMS:	**: *RUNDOWN**	P7, TRACK 2, REV, TIC *5721.83 +/-	2O0	4	0	4,774,208:64:0	
313	98	344	15:31:44.866		DMS:	: *READY	RDY, TRACK 2, REV, TIC *5721.77 +/-	2O0	4	0	4,774,208:65:8	
314	98	344	15:35:03.000	165JA4A	**7SCAN**	**NORM,56.923,16.7**	Check S/P Position	2O0	4	0	4,774,211:90:0	
315	98	344	15:39:10.333	118JA	**SMOS**	GS		2O0	4	0	4,774,216:06:0	
316	98	344	15:39:27.000	118JA110A111A4A	7STRP	0.0014,0.0,92,0,	Slew =,3.01	2O0	4	0	4,774,216:31:0	
317	98	344	15:41:59.666		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 5721.77 +/-	2O0	4	0	4,774,218:78:0	
318	98	344	15:41:59.666	175JA422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2O0	4	0	4,774,218:78:0	
319	98	344	15:42:00.333	118JA11A	**SMOS**	GE		2O0	4	0	4,774,218:79:0	
320	98	344	15:42:01.066		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *5721.89 +/-	2O0	4	0	4,774,218:80:1	
321	98	344	15:42:06.333		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *5723.13 +/-	2O0	4	0	4,774,218:88:0	
322	98	344	15:42:07.533		DMS:	: *RUNUP	R115, TRACK *2, *REV, TIC *5723.19 +/-	2O0	4	0	4,774,218:89:8	
323	98	344	15:42:11.000	175JA176A6A	6TMREC	HMA	115.2 KBPS IMAGE(1-400)RECORD Record Mode	2O0	4	0	4,774,219:04:0	
324	98	344	15:42:11.533		DMS:	: *AT_SPD	R115, TRACK 2, REV, TIC 5716.89 +/-	2O0	4	0	4,774,219:04:8	
325	98	344	15:42:11.533		DMS:	**: *RECORD**	R115, TRACK 2, REV, TIC *5716.89 +/-	2O0	4	0	4,774,219:04:8	
326	98	344	15:42:15.000	165JB4A	**7SCAN**	**NORM,56.923,16.7**	Check S/P Position	2O0	4	0	4,774,219:10:0	
327	98	344	15:42:20.333		DMS:	**: *RUNDOWN**	R115, TRACK 2, REV, TIC *5685.95 +/-	2O0	4	0	4,774,219:18:0	
328	98	344	15:42:20.333	175JA422A6B	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	4,774,219:18:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
329	98	344	15:42:21.533		DMS:	: *READY	RDY, TRACK 2, REV, TIC *5684.95 +/-	2O0	4	0	4,774,219:19:8
330	98	344	15:44:13.666	118JB	**SMOS**	GS		2O0	4	0	4,774,221:06:0
331	98	344	15:44:51.000	118JB110A111A4A	7STRP	0.0014,0.0,182,0	Slew =,3.01	2O0	4	0	4,774,221:62:0
332	98	344	15:49:54.333	118JB11A	**SMOS**	GE		2O0	4	0	4,774,226:62:0
333	98	344	15:50:09.000		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 5684.95 +/-	2O0	4	0	4,774,226:84:0
334	98	344	15:50:09.000	175JB422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2O0	4	0	4,774,226:84:0
335	98	344	15:50:10.400		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *5685.07 +/-	2O0	4	0	4,774,226:86:1
336	98	344	15:50:15.666		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *5686.30 +/-	2O0	4	0	4,774,227:03:0
337	98	344	15:50:16.866		DMS:	: *RUNUP	R115, TRACK *2, *REV, TIC *5686.36 +/-	2O0	4	0	4,774,227:04:8
338	98	344	15:50:20.333	175JB176A6A	6TMREC	HIM	115.2 KBPS SSI + NIMS RECORD Record Mode	2O0	4	0	4,774,227:10:0
339	98	344	15:50:20.866		DMS:	: *AT_SPD	R115, TRACK 2, REV, TIC 5680.06 +/-	2O0	4	0	4,774,227:10:8
340	98	344	15:50:20.866		DMS:	**: *RECORD**	R115, TRACK 2, REV, TIC *5680.06 +/-	2O0	4	0	4,774,227:10:8
341	98	344	15:50:29.666		DMS:	**: *RUNDOWN**	R115, TRACK 2, REV, TIC *5649.13 +/-	2O0	4	0	4,774,227:24:0
342	98	344	15:50:29.666	175JB422A6B	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	4,774,227:24:0
343	98	344	15:50:30.866		DMS:	: *READY	RDY, TRACK 2, REV, TIC *5648.13 +/-	2O0	4	0	4,774,227:25:8
344	98	344	15:51:13.666	165JC4A	**7SCAN**	**NORM,56.96,16.78**	Check S/P Position	2O0	4	0	4,774,227:90:0
345	98	344	15:54:17.000	118JC	**SMOS**	GS		2O0	4	0	4,774,231:01:0
346	98	344	15:54:27.000	118JC110A111A4A	7STRP	0.00102,0.0,26,0	Slew =,3.01	2O0	4	0	4,774,231:16:0
347	98	344	15:55:19.000	118JC110A111A4B	7STRP	-0.00612,0.00071	Slew =,3.01	2O0	4	0	4,774,232:03:0
348	98	344	15:55:27.666	118JC110A111A4C	7STRP	0.00102,0.0,26,0	Slew =,3.01	2O0	4	0	4,774,232:16:0
349	98	344	15:56:19.666	118JC110A111A4D	7STRP	-0.00612,0.00071	Slew =,3.01	2O0	4	0	4,774,233:03:0
350	98	344	15:56:28.333	118JC110A111A4E	7STRP	0.00102,0.0,26,0	Slew =,3.01	2O0	4	0	4,774,233:16:0
351	98	344	15:57:09.666		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 5648.13 +/-	2O0	4	0	4,774,233:78:0
352	98	344	15:57:09.666	175JC422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2O0	4	0	4,774,233:78:0
353	98	344	15:57:11.066		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *5648.25 +/-	2O0	4	0	4,774,233:80:1
354	98	344	15:57:16.333		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *5649.48 +/-	2O0	4	0	4,774,233:88:0
355	98	344	15:57:17.533		DMS:	: *RUNUP	R115, TRACK *2, *REV, TIC *5649.54 +/-	2O0	4	0	4,774,233:89:8
356	98	344	15:57:20.333	118JC11A	**SMOS**	GE		2O0	4	0	4,774,234:03:0
357	98	344	15:57:21.000	175JC176A6A	6TMREC	HMA	115.2 KBPS IMAGE(1-400)RECORD Record Mode	2O0	4	0	4,774,234:04:0
358	98	344	15:57:21.533		DMS:	**: *RECORD**	R115, TRACK 2, REV, TIC *5643.24 +/-	2O0	4	0	4,774,234:04:8
359	98	344	15:57:21.533		DMS:	: *AT_SPD	R115, TRACK 2, REV, TIC 5643.24 +/-	2O0	4	0	4,774,234:04:8
360	98	344	15:57:40.333		DMS:	**: *RUNDOWN**	R115, TRACK 2, REV, TIC *5577.15 +/-	2O0	4	0	4,774,234:33:0
361	98	344	15:57:40.333	175JC422A6B	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	4,774,234:33:0
362	98	344	15:57:41.533		DMS:	: *READY	RDY, TRACK 2, REV, TIC *5576.15 +/-	2O0	4	0	4,774,234:34:8
363	98	344	15:57:51.666	165JE4A	**7SCAN**	**NORM,301.121998,**	Check S/P Position	2O0	4	0	4,774,234:50:0
364	98	344	16:01:25.000	118JE	**SMOS**	GS		2O0	4	0	4,774,238:06:0
365	98	344	16:02:02.333	118JE110A111A4A	7STRP	0.00102,0.0,182,	Slew =,3.01	2O0	4	0	4,774,238:62:0
366	98	344	16:06:05.000	118JE11A	**SMOS**	GE		2O0	4	0	4,774,242:62:0
367	98	344	16:10:31.000	118JF	**SMOS**	GS		2O0	4	0	4,774,247:06:0
368	98	344	16:11:25.666	118JF110A111A4A	7STRP	0.00102,0.0,1092	Slew =,3.01	2O0	4	0	4,774,247:88:0
369	98	344	16:17:27.000		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 5576.15 +/-	2O0	4	0	4,774,253:84:0
370	98	344	16:17:27.000	175JD422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2O0	4	0	4,774,253:84:0
371	98	344	16:17:28.400		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *5576.27 +/-	2O0	4	0	4,774,253:86:1
372	98	344	16:17:29.666	118JF11A	**SMOS**	GE		2O0	4	0	4,774,253:88:0
373	98	344	16:17:33.666		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *5577.50 +/-	2O0	4	0	4,774,254:03:0
374	98	344	16:17:34.866		DMS:	: *RUNUP	R115, TRACK *2, *REV, TIC *5577.56 +/-	2O0	4	0	4,774,254:04:8
375	98	344	16:17:38.333	175JD176A6A	6TMREC	HIM	115.2 KBPS SSI + NIMS RECORD Record Mode	2O0	4	0	4,774,254:10:0
376	98	344	16:17:38.866		DMS:	: *AT_SPD	R115, TRACK 2, REV, TIC 5571.26 +/-	2O0	4	0	4,774,254:10:8
377	98	344	16:17:38.866		DMS:	**: *RECORD**	R115, TRACK 2, REV, TIC *5571.26 +/-	2O0	4	0	4,774,254:10:8
378	98	344	16:17:47.666		DMS:	**: *RUNDOWN**	R115, TRACK 2, REV, TIC *5540.32 +/-	2O0	4	0	4,774,254:24:0
379	98	344	16:17:47.666	175JD422A6B	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	4,774,254:24:0
380	98	344	16:17:48.866		DMS:	: *READY	RDY, TRACK 2, REV, TIC *5539.32 +/-	2O0	4	0	4,774,254:25:8
381	98	344	16:18:31.666	165JG4A	**7SCAN**	**NORM,293.815998,**	Check S/P Position	2O0	4	0	4,774,254:90:0
382	98	344	16:26:41.666	118JG	**SMOS**	GS		2O0	4	0	4,774,263:06:0
383	98	344	16:27:36.333	118JG110A111A4A	7STRP	0.002,0.0,182,0,	Slew =,3.01	2O0	4	0	4,774,263:88:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
384	98	344	16:28:37.000	118JG11A	**SMOS**	GE		2O0	4	0	4,774,264:88:0	
385	98	344	17:01:56.333		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 5539.32 +/-	2O0	4	0	4,774,297:84:0	
386	98	344	17:01:56.333	175JE422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2O0	4	0	4,774,297:84:0	
387	98	344	17:01:57.733		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *5539.44 +/-	2O0	4	0	4,774,297:86:1	
388	98	344	17:02:03.000		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *5540.68 +/-	2O0	4	0	4,774,298:03:0	
389	98	344	17:02:04.200		DMS:	: *RUNUP	R115, TRACK *2, *REV, TIC *5540.74 +/-	2O0	4	0	4,774,298:04:8	
390	98	344	17:02:07.666	175JE176A6A	6TMREC	HIM	115.2 KBPS SSI + NIMS RECORD Record Mode	2O0	4	0	4,774,298:10:0	
391	98	344	17:02:08.200		DMS:	**: *RECORD**	R115, TRACK 2, REV, TIC *5534.44 +/-	2O0	4	0	4,774,298:10:8	
392	98	344	17:02:08.200		DMS:	: *AT_SPD	R115, TRACK 2, REV, TIC 5534.44 +/-	2O0	4	0	4,774,298:10:8	
393	98	344	17:02:17.666		DMS:	**: *RUNDOWN**	R115, TRACK 2, REV, TIC *5501.16 +/-	2O0	4	0	4,774,298:25:0	
394	98	344	17:02:17.666	175JE422A6B	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	4,774,298:25:0	
395	98	344	17:02:18.866		DMS:	: *READY	RDY, TRACK 2, REV, TIC *5500.16 +/-	2O0	4	0	4,774,298:26:8	
396	**98**	**344**	**17:39:00.000**	**18NNRELOAD01-**		**-----START------**		**2O0**	**4**	**0**	**: :**	
397	**98**	**344**	**17:39:11.000**	**20FA5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**2O0**	**4**	**0**	**4,774,334:69:0**	
398	**98**	**344**	**17:39:18.333**	**20FA5B**	**37MRL**		**Memory Realocate (software operates from R**	**2O0**	**4**	**0**	**4,774,334:80:0**	
399	98	344	17:39:25.000	165FA4A	**7SCAN**	**NORM,100.789,-16**	Check S/P Position	2O0	4	0	4,774,334:90:0	
400	**98**	**344**	**17:39:26.333**	**20FA6A**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**2O0**	**4**	**0**	**4,774,335:01:0**	
401	**98**	**344**	**17:39:36.333**	**20FA6B**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**2O0**	**4**	**0**	**4,774,335:16:0**	
402	**98**	**344**	**17:39:46.333**	**20FA5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**4,774,335:31:0**	
403	**98**	**344**	**17:39:47.666**	**20FA5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**4,774,335:33:0**	
404	**98**	**344**	**17:40:19.000**	**20FA4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**4,774,335:80:0**	
405	**98**	**344**	**17:40:55.200**	**18NNRELOAD01-**		**-----STOP-------**		**2R0**	**4**	**0**	**: :**	
406	**98**	**344**	**17:41:00.000**	**18NNSTARCL01-**		**-----START------**		**2R0**	**4**	**0**	**: :**	
407	98	344	17:41:22.333	125FA	NIMSINIT	GS	##### GROUP START INIT	2R0	4	0	4,774,336:84:0	
408	**98**	**344**	**17:41:22.333**	**125FA4A**	**37IST**	**0,2,0,OFF,0,1,0**	**Gain State 2**	**2R0**	**4**	**0**	**4,774,336:84:0**	
409	98	344	17:41:22.333	125FA11A	NIMSINIT	GE	##### GROUP END INIT	2R0	4	0	4,774,336:84:0	
410	98	344	17:42:23.000	127FA	NIMSTAB	GS	%%%%% GROUP START TAB	2R0	4	0	4,774,337:84:0	
411	**98**	**344**	**17:42:23.000**	**127FA4A**	**37IOP**	**7,0**	**Fixed Map, Grating Start Position =00**	**2R7**	**4**	**0**	**4,774,337:84:0**	
412	**98**	**344**	**17:42:23.666**	**127FA4B**	**37ETB**	**04,C4,1B,FF,FF**	**Loads wavelength edit table**	**2R7**	**4**	**0**	**4,774,337:85:0**	
413	98	344	17:42:31.666	127FA11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R7	4	0	4,774,338:06:0	
414	98	344	17:43:13.666	175FA422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	2R7	4	0	4,774,338:69:0	
415	98	344	17:43:13.666		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 5500.16 +/-	2R7	4	0	4,774,338:69:0	
416	98	344	17:43:15.066		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *5500.28 +/-	2R7	4	0	4,774,338:71:1	
417	98	344	17:43:19.000	117FA	**CSMOS**	GS	***** GROUP START CSMOS	2R7	4	0	4,774,338:77:0	
418	98	344	17:43:20.333		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *5501.51 +/-	2R7	4	0	4,774,338:79:0	
419	98	344	17:43:21.533		DMS:	: *RUNUP	R28, TRACK *2, *REV, TIC *5501.57 +/-	2R7	4	0	4,774,338:80:8	
420	**98**	**344**	**17:43:23.000**	**33E4A**	**37IST**	**1,0,0,OFF,0,1,1**	**Chopper ON, Sync, 63Hz (Ref)Gain State 4**	**467**	**4**	**0**	**4,774,338:83:0**	
421	98	344	17:43:25.000	175FA176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	467	4	0	4,774,338:86:0	
422	98	344	17:43:25.533		DMS:	: *AT_SPD	R28, TRACK 2, REV, TIC 5500.07 +/-	467	4	0	4,774,338:86:8	
423	98	344	17:43:25.533		DMS:	**: *RECORD**	R28, TRACK 2, REV, TIC *5500.07 +/-	467	4	0	4,774,338:86:8	
424	**98**	**344**	**17:43:25.533**	**18NNSTARCL01-**	**NIMPBK**	**301DA**	**NIMS STAR CALIBRATION**	**467**	**4**	**0**	**: :**	
425	98	344	17:43:28.333	117FA105A106A4A	**7STRP**	**0.002,0.0,0,0,0,**	**Slew =,0.76**	467	4	0	4,774,339:00:0	
426	98	344	17:43:34.333	117FA105A106A4B	**7STRP**	**-0.002,0.0,0,0,0**	**Slew =12.01**	467	4	0	4,774,339:09:0	
427	98	344	17:43:39.666	117FA105A106A4C	**7STRP**	**0.002,0.0,0,0,0,**	**Slew =,0.76**	467	4	0	4,774,339:17:0	
428	98	344	17:43:45.666	117FA105A106A4D	**7STRP**	**-0.002,0.0,0,0,0**	**Slew =12.01**	467	4	0	4,774,339:26:0	
429	98	344	17:43:51.000	117FA105A106A4E	**7STRP**	**0.002,0.0,0,0,0,**	**Slew =,0.76**	467	4	0	4,774,339:34:0	
430	98	344	17:43:57.000	117FA105A106A4F	**7STRP**	**-0.002,0.0,0,0,0**	**Slew =12.01**	467	4	0	4,774,339:43:0	
431	98	344	17:44:02.333	117FA105A106A4G	**7STRP**	**0.002,0.0,0,0,0,**	**Slew =,0.76**	467	4	0	4,774,339:51:0	
432	98	344	17:44:08.333	117FA105A106A4H	**7STRP**	**-0.002,0.0,0,0,0**	**Slew =12.01**	467	4	0	4,774,339:60:0	
433	98	344	17:44:13.666	117FA105A106A4I	**7STRP**	**0.002,0.0,0,0,0,**	**Slew =,0.76**	467	4	0	4,774,339:68:0	
434	98	344	17:44:19.666	117FA105A106A4J	**7STRP**	**-0.002,0.0,0,0,0**	**Slew =12.01**	467	4	0	4,774,339:77:0	
435	**98**	**344**	**17:44:24.333**	**127FB4A**	**37IOP**	**7,1**	**Fixed Map, Grating Start Position =01**	**467**	**4**	**1**	**4,774,339:84:0**	
436	98	344	17:44:24.333	127FB	NIMSTAB	GS	%%%%% GROUP START TAB	467	4	1	4,774,339:84:0	
437	98	344	17:44:25.000	117FA105A106A4K	**7STRP**	**0.002,0.0,0,0,0,**	**Slew =,0.76**	467	4	1	4,774,339:85:0	
438	**98**	**344**	**17:44:25.000**	**127FB4B**	**37ETB**	**04,C4,1B,FF,FF**	**Loads wavelength edit table**	**467**	**4**	**1**	**4,774,339:85:0**	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
439	98	344	17:44:31.000	117FA105A106A4L	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	1	4,774,340:03:0	
440	98	344	17:44:33.000	127FB11A	NIMSTAB	GE	%%%%% GROUP END TAB	467	4	1	4,774,340:06:0	
441	98	344	17:44:36.333	117FA105A106A4M	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	1	4,774,340:11:0	
442	98	344	17:44:42.333	117FA105A106A4N	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	1	4,774,340:20:0	
443	98	344	17:44:47.666	117FA105A106A4O	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	1	4,774,340:28:0	
444	98	344	17:44:53.666	117FA105A106A4P	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	1	4,774,340:37:0	
445	98	344	17:44:59.000	117FA105A106A4Q	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	1	4,774,340:45:0	
446	98	344	17:45:05.000	117FA105A106A4R	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	1	4,774,340:54:0	
447	98	344	17:45:10.333	117FA105A106A4S	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	1	4,774,340:62:0	
448	98	344	17:45:16.333	117FA105A106A4T	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	1	4,774,340:71:0	
449	98	344	17:45:21.666	117FA105A106A4U	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	1	4,774,340:79:0	
450	98	344	17:45:25.000	127FC	NIMSTAB	GS	%%%%% GROUP START TAB	467	4	1	4,774,340:84:0	
451	**98**	**344**	**17:45:25.000**	**127FC4A**	**37IOP**	**7,2**	**Fixed Map, Grating Start Position =02**	**467**	**4**	**2**	**4,774,340:84:0**	
452	**98**	**344**	**17:45:25.666**	**127FC4B**	**37ETB**	**04,C4,1B,FF,FF**	**Loads wavelength edit table**	**467**	**4**	**2**	**4,774,340:85:0**	
453	98	344	17:45:27.666	117FA105A106A4V	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	2	4,774,340:88:0	
454	98	344	17:45:33.000	117FA105A106A4W	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	2	4,774,341:05:0	
455	98	344	17:45:33.666	127FC11A	NIMSTAB	GE	%%%%% GROUP END TAB	467	4	2	4,774,341:06:0	
456	98	344	17:45:39.000	117FA105A106A4X	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	2	4,774,341:14:0	
457	98	344	17:45:44.333	117FA105A106A4Y	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	2	4,774,341:22:0	
458	98	344	17:45:50.333	117FA105A106A4Z	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	2	4,774,341:31:0	
459	98	344	17:45:55.666	117FA105A106A4AA	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	2	4,774,341:39:0	
460	98	344	17:46:01.666	117FA105A106A4AB	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	2	4,774,341:48:0	
461	98	344	17:46:07.000	117FA105A106A4AC	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	2	4,774,341:56:0	
462	98	344	17:46:13.000	117FA105A106A4AD	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	2	4,774,341:65:0	
463	98	344	17:46:18.333	117FA105A106A4AE	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	2	4,774,341:73:0	
464	98	344	17:46:24.333	117FA105A106A4AF	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	2	4,774,341:82:0	
465	**98**	**344**	**17:46:25.666**	**127FD4A**	**37IOP**	**7,3**	**Fixed Map, Grating Start Position =03**	**467**	**4**	**3**	**4,774,341:84:0**	
466	98	344	17:46:25.666	127FD	NIMSTAB	GS	%%%%% GROUP START TAB	467	4	3	4,774,341:84:0	
467	**98**	**344**	**17:46:26.333**	**127FD4B**	**37ETB**	**04,C4,1B,FF,FF**	**Loads wavelength edit table**	**467**	**4**	**3**	**4,774,341:85:0**	
468	98	344	17:46:29.666	117FA105A106A4AG	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	3	4,774,341:90:0	
469	98	344	17:46:34.333	127FD11A	NIMSTAB	GE	%%%%% GROUP END TAB	467	4	3	4,774,342:06:0	
470	98	344	17:46:35.666	117FA105A106A4AH	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	3	4,774,342:08:0	
471	98	344	17:46:41.000	117FA105A106A4AI	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	3	4,774,342:16:0	
472	98	344	17:46:47.000	117FA105A106A4AJ	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	3	4,774,342:25:0	
473	98	344	17:46:52.333	117FA105A106A4AK	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	3	4,774,342:33:0	
474	98	344	17:46:58.333	117FA105A106A4AL	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	3	4,774,342:42:0	
475	98	344	17:47:03.666	117FA105A106A4AM	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	3	4,774,342:50:0	
476	98	344	17:47:09.666	117FA105A106A4AN	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	3	4,774,342:59:0	
477	98	344	17:47:15.000	117FA105A106A4AO	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	3	4,774,342:67:0	
478	98	344	17:47:21.000	117FA105A106A4AP	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	3	4,774,342:76:0	
479	98	344	17:47:26.333	117FA105A106A4AQ	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	3	4,774,342:84:0	
480	**98**	**344**	**17:47:26.333**	**127FE4A**	**37IOP**	**7,4**	**Fixed Map, Grating Start Position =04**	**467**	**4**	**4**	**4,774,342:84:0**	
481	98	344	17:47:26.333	127FE	NIMSTAB	GS	%%%%% GROUP START TAB	467	4	4	4,774,342:84:0	
482	**98**	**344**	**17:47:27.000**	**127FE4B**	**37ETB**	**04,C4,1B,FF,FF**	**Loads wavelength edit table**	**467**	**4**	**4**	**4,774,342:85:0**	
483	98	344	17:47:32.333	117FA105A106A4AR	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	4	4,774,343:02:0	
484	98	344	17:47:35.000	127FE11A	NIMSTAB	GE	%%%%% GROUP END TAB	467	4	4	4,774,343:06:0	
485	98	344	17:47:37.666	117FA105A106A4AS	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	4	4,774,343:10:0	
486	98	344	17:47:43.666	117FA105A106A4AT	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	4	4,774,343:19:0	
487	98	344	17:47:49.000	117FA105A106A4AU	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	4	4,774,343:27:0	
488	98	344	17:47:55.000	117FA105A106A4AV	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	4	4,774,343:36:0	
489	98	344	17:48:00.333	117FA105A106A4AW	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	4	4,774,343:44:0	
490	98	344	17:48:06.333	117FA105A106A4AX	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	4	4,774,343:53:0	
491	98	344	17:48:11.666	117FA105A106A4AY	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	4	4,774,343:61:0	
492	98	344	17:48:17.666	117FA105A106A4AZ	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	4	4,774,343:70:0	
493	98	344	17:48:23.000	117FA105A106A4BA	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	4	4,774,343:78:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
494	98	344	17:48:27.000	127FF	NIMSTAB	GS	%%%%% GROUP START TAB	467	4	4	4,774,343:84:0
495	98	344	17:48:27.000	127FF4A	37IOP	7,5	Fixed Map, Grating Start Position =05	467	4	5	4,774,343:84:0
496	98	344	17:48:27.666	127FF4B	37ETB	04,C4,1B,FF,FF	Loads wavelength edit table	467	4	5	4,774,343:85:0
497	98	344	17:48:29.000	117FA105A106A4BB	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	5	4,774,343:87:0
498	98	344	17:48:34.333	117FA105A106A4BC	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	5	4,774,344:04:0
499	98	344	17:48:35.666	127FF11A	NIMSTAB	GE	%%%%% GROUP END TAB	467	4	5	4,774,344:06:0
500	98	344	17:48:40.333	117FA105A106A4BD	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	5	4,774,344:13:0
501	98	344	17:48:45.666	117FA105A106A4BE	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	5	4,774,344:21:0
502	98	344	17:48:51.666	117FA105A106A4BF	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	5	4,774,344:30:0
503	98	344	17:48:57.000	117FA105A106A4BG	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	5	4,774,344:38:0
504	98	344	17:49:03.000	117FA105A106A4BH	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	5	4,774,344:47:0
505	98	344	17:49:08.333	117FA105A106A4BI	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	5	4,774,344:55:0
506	98	344	17:49:14.333	117FA105A106A4BJ	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	5	4,774,344:64:0
507	98	344	17:49:19.666	117FA105A106A4BK	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	5	4,774,344:72:0
508	98	344	17:49:25.666	117FA105A106A4BL	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	5	4,774,344:81:0
509	98	344	17:49:27.666	127FG	NIMSTAB	GS	%%%%% GROUP START TAB	467	4	5	4,774,344:84:0
510	98	344	17:49:27.666	127FG4A	37IOP	7,6	Fixed Map, Grating Start Position =06	467	4	6	4,774,344:84:0
511	98	344	17:49:28.333	127FG4B	37ETB	04,C4,1B,FF,FF	Loads wavelength edit table	467	4	6	4,774,344:85:0
512	98	344	17:49:31.000	117FA105A106A4BM	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	6	4,774,344:89:0
513	98	344	17:49:36.333	127FG11A	NIMSTAB	GE	%%%%% GROUP END TAB	467	4	6	4,774,345:06:0
514	98	344	17:49:37.000	117FA105A106A4BN	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	6	4,774,345:07:0
515	98	344	17:49:42.333	117FA105A106A4BO	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	6	4,774,345:15:0
516	98	344	17:49:48.333	117FA105A106A4BP	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	6	4,774,345:24:0
517	98	344	17:49:53.666	117FA105A106A4BQ	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	6	4,774,345:32:0
518	98	344	17:49:59.666	117FA105A106A4BR	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	6	4,774,345:41:0
519	98	344	17:50:05.000	117FA105A106A4BS	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	6	4,774,345:49:0
520	98	344	17:50:11.000	117FA105A106A4BT	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	6	4,774,345:58:0
521	98	344	17:50:16.333	117FA105A106A4BU	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	6	4,774,345:66:0
522	98	344	17:50:22.333	117FA105A106A4BV	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	6	4,774,345:75:0
523	98	344	17:50:27.666	117FA105A106A4BW	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	6	4,774,345:83:0
524	98	344	17:50:28.333	127FH	NIMSTAB	GS	%%%%% GROUP START TAB	467	4	6	4,774,345:84:0
525	98	344	17:50:28.333	127FH4A	37IOP	7,7	Fixed Map, Grating Start Position =07	467	4	7	4,774,345:84:0
526	98	344	17:50:29.000	127FH4B	37ETB	04,C4,1B,FF,FF	Loads wavelength edit table	467	4	7	4,774,345:85:0
527	98	344	17:50:33.666	117FA105A106A4BX	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	7	4,774,346:01:0
528	98	344	17:50:37.000	127FH11A	NIMSTAB	GE	%%%%% GROUP END TAB	467	4	7	4,774,346:06:0
529	98	344	17:50:39.000	117FA105A106A4BY	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	7	4,774,346:09:0
530	98	344	17:50:45.000	117FA105A106A4BZ	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	7	4,774,346:18:0
531	98	344	17:50:50.333	117FA105A106A4CA	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	7	4,774,346:26:0
532	98	344	17:50:56.333	117FA105A106A4CB	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	7	4,774,346:35:0
533	98	344	17:51:01.666	117FA105A106A4CC	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	7	4,774,346:43:0
534	98	344	17:51:07.666	117FA105A106A4CD	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	7	4,774,346:52:0
535	98	344	17:51:13.000	117FA105A106A4CE	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	7	4,774,346:60:0
536	98	344	17:51:19.000	117FA105A106A4CF	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	7	4,774,346:69:0
537	98	344	17:51:24.333	117FA105A106A4CG	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	7	4,774,346:77:0
538	98	344	17:51:29.000	127FI	NIMSTAB	GS	%%%%% GROUP START TAB	467	4	7	4,774,346:84:0
539	98	344	17:51:29.000	127FI4A	37IOP	7,8	Fixed Map, Grating Start Position =08	467	4	8	4,774,346:84:0
540	98	344	17:51:29.666	127FI4B	37ETB	04,C4,1B,FF,FF	Loads wavelength edit table	467	4	8	4,774,346:85:0
541	98	344	17:51:30.333	117FA105A106A4CH	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	8	4,774,346:86:0
542	98	344	17:51:35.666	117FA105A106A4CI	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	8	4,774,347:03:0
543	98	344	17:51:37.666	127FI11A	NIMSTAB	GE	%%%%% GROUP END TAB	467	4	8	4,774,347:06:0
544	98	344	17:51:41.666	117FA105A106A4CJ	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	8	4,774,347:12:0
545	98	344	17:51:47.000	117FA105A106A4CK	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	8	4,774,347:20:0
546	98	344	17:51:53.000	117FA105A106A4CL	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	8	4,774,347:29:0
547	98	344	17:51:58.333	117FA105A106A4CM	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	8	4,774,347:37:0
548	98	344	17:52:04.333	117FA105A106A4CN	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	8	4,774,347:46:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
549	98	344	17:52:09.666	117FA105A106A4CO	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	8	4,774,347:54:0	
550	98	344	17:52:15.666	117FA105A106A4CP	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	8	4,774,347:63:0	
551	98	344	17:52:21.000	117FA105A106A4CQ	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	8	4,774,347:71:0	
552	98	344	17:52:27.000	117FA105A106A4CR	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	8	4,774,347:80:0	
553	98	344	17:52:29.666	127FJ	NIMSTAB	GS	%%%%% GROUP START TAB	467	4	8	4,774,347:84:0	
554	**98**	**344**	**17:52:29.666**	**127FJ4A**	**37IOP**	**7,9**	**Fixed Map, Grating Start Position =09**	**467**	**4**	**9**	**4,774,347:84:0**	
555	**98**	**344**	**17:52:30.333**	**127FJ4B**	**37ETB**	**04,C4,1B,FF,FF**	**Loads wavelength edit table**	**467**	**4**	**9**	**4,774,347:85:0**	
556	98	344	17:52:32.333	117FA105A106A4CS	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	9	4,774,347:88:0	
557	98	344	17:52:38.333	117FA105A106A4CT	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	9	4,774,348:06:0	
558	98	344	17:52:38.333	127FJ11A	NIMSTAB	GE	%%%%% GROUP END TAB	467	4	9	4,774,348:06:0	
559	98	344	17:52:43.666	117FA105A106A4CU	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	9	4,774,348:14:0	
560	98	344	17:52:49.666	117FA105A106A4CV	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	9	4,774,348:23:0	
561	98	344	17:52:55.000	117FA105A106A4CW	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	9	4,774,348:31:0	
562	98	344	17:53:01.000	117FA105A106A4CX	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	9	4,774,348:40:0	
563	98	344	17:53:06.333	117FA105A106A4CY	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	9	4,774,348:48:0	
564	98	344	17:53:12.333	117FA105A106A4CZ	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	9	4,774,348:57:0	
565	98	344	17:53:17.666	117FA105A106A4DA	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	9	4,774,348:65:0	
566	98	344	17:53:23.666	117FA105A106A4DB	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	9	4,774,348:74:0	
567	98	344	17:53:29.000	117FA105A106A4DC	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	9	4,774,348:82:0	
568	**98**	**344**	**17:53:30.333**	**127FK4A**	**37IOP**	**7,10**	**Fixed Map, Grating Start Position =10**	**467**	**4**	**10**	**4,774,348:84:0**	
569	98	344	17:53:30.333	127FK	NIMSTAB	GS	%%%%% GROUP START TAB	467	4	10	4,774,348:84:0	
570	**98**	**344**	**17:53:31.000**	**127FK4B**	**37ETB**	**04,C4,1B,FF,FF**	**Loads wavelength edit table**	**467**	**4**	**10**	**4,774,348:85:0**	
571	98	344	17:53:35.000	117FA105A106A4DD	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	10	4,774,349:00:0	
572	98	344	17:53:39.000	127FK11A	NIMSTAB	GE	%%%%% GROUP END TAB	467	4	10	4,774,349:06:0	
573	98	344	17:53:40.333	117FA105A106A4DE	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	10	4,774,349:08:0	
574	98	344	17:53:46.333	117FA105A106A4DF	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	10	4,774,349:17:0	
575	98	344	17:53:51.666	117FA105A106A4DG	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	10	4,774,349:25:0	
576	98	344	17:53:57.666	117FA105A106A4DH	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	10	4,774,349:34:0	
577	98	344	17:54:03.000	117FA105A106A4DI	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	10	4,774,349:42:0	
578	98	344	17:54:09.000	117FA105A106A4DJ	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	10	4,774,349:51:0	
579	98	344	17:54:14.333	117FA105A106A4DK	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	10	4,774,349:59:0	
580	98	344	17:54:20.333	117FA105A106A4DL	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	10	4,774,349:68:0	
581	98	344	17:54:25.666	117FA105A106A4DM	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	10	4,774,349:76:0	
582	**98**	**344**	**17:54:31.000**	**127FL4A**	**37IOP**	**7,11**	**Fixed Map, Grating Start Position =11**	**467**	**4**	**11**	**4,774,349:84:0**	
583	98	344	17:54:31.000	127FL	NIMSTAB	GS	%%%%% GROUP START TAB	467	4	11	4,774,349:84:0	
584	**98**	**344**	**17:54:31.666**	**127FL4B**	**37ETB**	**04,C4,1B,FF,FF**	**Loads wavelength edit table**	**467**	**4**	**11**	**4,774,349:85:0**	
585	98	344	17:54:31.666	117FA105A106A4DN	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	11	4,774,349:85:0	
586	98	344	17:54:37.000	117FA105A106A4DO	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	11	4,774,350:02:0	
587	98	344	17:54:39.666	127FL11A	NIMSTAB	GE	%%%%% GROUP END TAB	467	4	11	4,774,350:06:0	
588	98	344	17:54:43.000	117FA105A106A4DP	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	11	4,774,350:11:0	
589	98	344	17:54:48.333	117FA105A106A4DQ	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	11	4,774,350:19:0	
590	98	344	17:54:54.333	117FA105A106A4DR	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	11	4,774,350:28:0	
591	98	344	17:54:59.666	117FA105A106A4DS	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	11	4,774,350:36:0	
592	98	344	17:55:05.666	117FA105A106A4DT	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	11	4,774,350:45:0	
593	98	344	17:55:11.000	117FA105A106A4DU	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	11	4,774,350:53:0	
594	98	344	17:55:17.000	117FA105A106A4DV	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	11	4,774,350:62:0	
595	98	344	17:55:22.333	117FA105A106A4DW	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	11	4,774,350:70:0	
596	98	344	17:55:28.333	117FA105A106A4DX	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	11	4,774,350:79:0	
597	**98**	**344**	**17:55:31.666**	**127FM4A**	**37IOP**	**7,12**	**Fixed Map, Grating Start Position =12**	**467**	**4**	**12**	**4,774,350:84:0**	
598	98	344	17:55:31.666	127FM	NIMSTAB	GS	%%%%% GROUP START TAB	467	4	12	4,774,350:84:0	
599	**98**	**344**	**17:55:32.333**	**127FM4B**	**37ETB**	**04,C4,1B,FF,FF**	**Loads wavelength edit table**	**467**	**4**	**12**	**4,774,350:85:0**	
600	98	344	17:55:33.666	117FA105A106A4DY	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	12	4,774,350:87:0	
601	98	344	17:55:39.666	117FA105A106A4DZ	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	12	4,774,351:05:0	
602	98	344	17:55:40.333	127FM11A	NIMSTAB	GE	%%%%% GROUP END TAB	467	4	12	4,774,351:06:0	
603	98	344	17:55:45.000	117FA105A106A4EA	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	12	4,774,351:13:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
604	98	344	17:55:51.000	117FA105A106A4EB	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	12	4,774,351:22:0	
605	98	344	17:55:56.333	117FA105A106A4EC	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	12	4,774,351:30:0	
606	98	344	17:56:02.333	117FA105A106A4ED	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	12	4,774,351:39:0	
607	98	344	17:56:07.666	117FA105A106A4EE	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	12	4,774,351:47:0	
608	98	344	17:56:13.666	117FA105A106A4EF	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	12	4,774,351:56:0	
609	98	344	17:56:19.000	117FA105A106A4EG	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	12	4,774,351:64:0	
610	98	344	17:56:25.000	117FA105A106A4EH	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	12	4,774,351:73:0	
611	98	344	17:56:30.333	117FA105A106A4EI	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	12	4,774,351:81:0	
612	98	344	17:56:32.333	127FN4A	37IOP	7,13	Fixed Map, Grating Start Position =13	467	4	13	4,774,351:84:0	
613	98	344	17:56:32.333	127FN	NIMSTAB	GS	%%%%% GROUP START TAB	467	4	13	4,774,351:84:0	
614	98	344	17:56:33.000	127FN4B	37ETB	04,C4,1B,FF,FF	Loads wavelength edit table	467	4	13	4,774,351:85:0	
615	98	344	17:56:36.333	117FA105A106A4EJ	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	13	4,774,351:90:0	
616	98	344	17:56:41.000	127FN11A	NIMSTAB	GE	%%%%% GROUP END TAB	467	4	13	4,774,352:06:0	
617	98	344	17:56:41.666	117FA105A106A4EK	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	13	4,774,352:07:0	
618	98	344	17:56:47.666	117FA105A106A4EL	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	13	4,774,352:16:0	
619	98	344	17:56:53.000	117FA105A106A4EM	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	13	4,774,352:24:0	
620	98	344	17:56:59.000	117FA105A106A4EN	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	13	4,774,352:33:0	
621	98	344	17:57:04.333	117FA105A106A4EO	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	13	4,774,352:41:0	
622	98	344	17:57:10.333	117FA105A106A4EP	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	13	4,774,352:50:0	
623	98	344	17:57:15.666	117FA105A106A4EQ	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	13	4,774,352:58:0	
624	98	344	17:57:21.666	117FA105A106A4ER	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	13	4,774,352:67:0	
625	98	344	17:57:27.000	117FA105A106A4ES	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	13	4,774,352:75:0	
626	98	344	17:57:33.000	117FA105A106A4ET	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	13	4,774,352:84:0	
627	98	344	17:57:33.000	127FO	NIMSTAB	GS	%%%%% GROUP START TAB	467	4	13	4,774,352:84:0	
628	98	344	17:57:33.000	127FO4A	37IOP	7,14	Fixed Map, Grating Start Position =14	467	4	14	4,774,352:84:0	
629	98	344	17:57:33.666	127FO4B	37ETB	04,C4,1B,FF,FF	Loads wavelength edit table	467	4	14	4,774,352:85:0	
630	98	344	17:57:38.333	117FA105A106A4EU	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	14	4,774,353:01:0	
631	98	344	17:57:41.666	127FO11A	NIMSTAB	GE	%%%%% GROUP END TAB	467	4	14	4,774,353:06:0	
632	98	344	17:57:44.333	117FA105A106A4EV	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	14	4,774,353:10:0	
633	98	344	17:57:49.666	117FA105A106A4EW	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	14	4,774,353:18:0	
634	98	344	17:57:55.666	117FA105A106A4EX	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	14	4,774,353:27:0	
635	98	344	17:58:01.000	117FA105A106A4EY	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	14	4,774,353:35:0	
636	98	344	17:58:07.000	117FA105A106A4EZ	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	14	4,774,353:44:0	
637	98	344	17:58:12.333	117FA105A106A4FA	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	14	4,774,353:52:0	
638	98	344	17:58:18.333	117FA105A106A4FB	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	14	4,774,353:61:0	
639	98	344	17:58:23.666	117FA105A106A4FC	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	14	4,774,353:69:0	
640	98	344	17:58:29.666	117FA105A106A4FD	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	14	4,774,353:78:0	
641	98	344	17:58:33.666	127FP	NIMSTAB	GS	%%%%% GROUP START TAB	467	4	14	4,774,353:84:0	
642	98	344	17:58:33.666	127FP4A	37IOP	7,15	Fixed Map, Grating Start Position =15	467	4	15	4,774,353:84:0	
643	98	344	17:58:34.333	127FP4B	37ETB	04,C4,1B,FF,FF	Loads wavelength edit table	467	4	15	4,774,353:85:0	
644	98	344	17:58:35.000	117FA105A106A4FE	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	15	4,774,353:86:0	
645	98	344	17:58:41.000	117FA105A106A4FF	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	15	4,774,354:04:0	
646	98	344	17:58:42.333	127FP11A	NIMSTAB	GE	%%%%% GROUP END TAB	467	4	15	4,774,354:06:0	
647	98	344	17:58:46.333	117FA105A106A4FG	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	15	4,774,354:12:0	
648	98	344	17:58:52.333	117FA105A106A4FH	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	15	4,774,354:21:0	
649	98	344	17:58:57.666	117FA105A106A4FI	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	15	4,774,354:29:0	
650	98	344	17:59:03.666	117FA105A106A4FJ	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	15	4,774,354:38:0	
651	98	344	17:59:09.000	117FA105A106A4FK	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	15	4,774,354:46:0	
652	98	344	17:59:15.000	117FA105A106A4FL	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	15	4,774,354:55:0	
653	98	344	17:59:20.333	117FA105A106A4FM	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	15	4,774,354:63:0	
654	98	344	17:59:26.333	117FA105A106A4FN	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	15	4,774,354:72:0	
655	98	344	17:59:31.666	117FA105A106A4FO	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	15	4,774,354:80:0	
656	98	344	17:59:34.333	127FQ4A	37IOP	7,16	Fixed Map, Grating Start Position =16	467	4	16	4,774,354:84:0	
657	98	344	17:59:34.333	127FQ	NIMSTAB	GS	%%%%% GROUP START TAB	467	4	16	4,774,354:84:0	
658	98	344	17:59:35.000	127FQ4B	37ETB	04,C4,1B,FF,FF	Loads wavelength edit table	467	4	16	4,774,354:85:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
659	98	344	17:59:37.666	117FA105A106A4FP	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	16	4,774,354:89:0
660	98	344	17:59:43.000	127FQ11A	NIMSTAB	GE	%%%%% GROUP END TAB	467	4	16	4,774,355:06:0
661	98	344	17:59:43.000	117FA105A106A4FQ	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	16	4,774,355:06:0
662	98	344	17:59:49.000	117FA105A106A4FR	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	16	4,774,355:15:0
663	98	344	17:59:54.333	117FA105A106A4FS	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	16	4,774,355:23:0
664	98	344	18:00:00.333	117FA105A106A4FT	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	16	4,774,355:32:0
665	98	344	18:00:05.666	117FA105A106A4FU	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	16	4,774,355:40:0
666	98	344	18:00:11.666	117FA105A106A4FV	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	16	4,774,355:49:0
667	98	344	18:00:17.000	117FA105A106A4FW	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	16	4,774,355:57:0
668	98	344	18:00:23.000	117FA105A106A4FX	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	16	4,774,355:66:0
669	98	344	18:00:28.333	117FA105A106A4FY	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	16	4,774,355:74:0
670	98	344	18:00:34.333	117FA105A106A4FZ	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	16	4,774,355:83:0
671	98	344	18:00:35.000	127FR	NIMSTAB	GS	%%%%% GROUP START TAB	467	4	16	4,774,355:84:0
672	**98**	**344**	**18:00:35.000**	**127FR4A**	**37IOP**	**7,17**	**Fixed Map, Grating Start Position =17**	**467**	**4**	**17**	**4,774,355:84:0**
673	**98**	**344**	**18:00:35.666**	**127FR4B**	**37ETB**	**04,C4,1B,FF,FF**	**Loads wavelength edit table**	**467**	**4**	**17**	**4,774,355:85:0**
674	98	344	18:00:39.666	117FA105A106A4GA	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	17	4,774,356:00:0
675	98	344	18:00:43.666	127FR11A	NIMSTAB	GE	%%%%% GROUP END TAB	467	4	17	4,774,356:06:0
676	98	344	18:00:45.666	117FA105A106A4GB	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	17	4,774,356:09:0
677	98	344	18:00:51.000	117FA105A106A4GC	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	17	4,774,356:17:0
678	98	344	18:00:57.000	117FA105A106A4GD	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	17	4,774,356:26:0
679	98	344	18:01:02.333	117FA105A106A4GE	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	17	4,774,356:34:0
680	98	344	18:01:08.333	117FA105A106A4GF	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	17	4,774,356:43:0
681	98	344	18:01:13.666	117FA105A106A4GG	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	17	4,774,356:51:0
682	98	344	18:01:19.666	117FA105A106A4GH	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	17	4,774,356:60:0
683	98	344	18:01:25.000	117FA105A106A4GI	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	17	4,774,356:68:0
684	98	344	18:01:31.000	117FA105A106A4GJ	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	17	4,774,356:77:0
685	98	344	18:01:35.666	127FS	NIMSTAB	GS	%%%%% GROUP START TAB	467	4	17	4,774,356:84:0
686	**98**	**344**	**18:01:35.666**	**127FS4A**	**37IOP**	**7,18**	**Fixed Map, Grating Start Position =18**	**467**	**4**	**18**	**4,774,356:84:0**
687	98	344	18:01:36.333	117FA105A106A4GK	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	18	4,774,356:85:0
688	**98**	**344**	**18:01:36.333**	**127FS4B**	**37ETB**	**04,C4,1B,FF,FF**	**Loads wavelength edit table**	**467**	**4**	**18**	**4,774,356:85:0**
689	98	344	18:01:42.333	117FA105A106A4GL	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	18	4,774,357:03:0
690	98	344	18:01:44.333	127FS11A	NIMSTAB	GE	%%%%% GROUP END TAB	467	4	18	4,774,357:06:0
691	98	344	18:01:47.666	117FA105A106A4GM	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	18	4,774,357:11:0
692	98	344	18:01:53.666	117FA105A106A4GN	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	18	4,774,357:20:0
693	98	344	18:01:59.000	117FA105A106A4GO	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	18	4,774,357:28:0
694	98	344	18:02:05.000	117FA105A106A4GP	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	18	4,774,357:37:0
695	98	344	18:02:10.333	117FA105A106A4GQ	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	18	4,774,357:45:0
696	98	344	18:02:16.333	117FA105A106A4GR	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	18	4,774,357:54:0
697	98	344	18:02:21.666	117FA105A106A4GS	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	18	4,774,357:62:0
698	98	344	18:02:27.666	117FA105A106A4GT	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	18	4,774,357:71:0
699	98	344	18:02:33.000	117FA105A106A4GU	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	18	4,774,357:79:0
700	98	344	18:02:36.333	127FT	NIMSTAB	GS	%%%%% GROUP START TAB	467	4	18	4,774,357:84:0
701	**98**	**344**	**18:02:36.333**	**127FT4A**	**37IOP**	**7,19**	**Fixed Map, Grating Start Position =19**	**467**	**4**	**19**	**4,774,357:84:0**
702	**98**	**344**	**18:02:37.000**	**127FT4B**	**37ETB**	**04,C4,1B,FF,FF**	**Loads wavelength edit table**	**467**	**4**	**19**	**4,774,357:85:0**
703	98	344	18:02:39.000	117FA105A106A4GV	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	19	4,774,357:88:0
704	98	344	18:02:44.333	117FA105A106A4GW	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	19	4,774,358:05:0
705	98	344	18:02:45.000	127FT11A	NIMSTAB	GE	%%%%% GROUP END TAB	467	4	19	4,774,358:06:0
706	98	344	18:02:50.333	117FA105A106A4GX	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	19	4,774,358:14:0
707	98	344	18:02:55.666	117FA105A106A4GY	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	19	4,774,358:22:0
708	98	344	18:03:01.666	117FA105A106A4GZ	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	19	4,774,358:31:0
709	98	344	18:03:07.000	117FA105A106A4HA	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	19	4,774,358:39:0
710	98	344	18:03:13.000	117FA105A106A4HB	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	19	4,774,358:48:0
711	98	344	18:03:18.333	117FA105A106A4HC	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	19	4,774,358:56:0
712	98	344	18:03:24.333	117FA105A106A4HD	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	19	4,774,358:65:0
713	98	344	18:03:29.666	117FA105A106A4HE	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	19	4,774,358:73:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
714	98	344	18:03:35.666	117FA105A106A4HF	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	19	4,774,358:82:0	
715	98	344	18:03:37.000	127FU	NIMSTAB	GS	%%%%% GROUP START TAB	467	4	19	4,774,358:84:0	
716	**98**	**344**	**18:03:37.000**	**127FU4A**	**37IOP**	**7,20**	**Fixed Map, Grating Start Position =20**	**467**	**4**	**20**	**4,774,358:84:0**	
717	**98**	**344**	**18:03:37.666**	**127FU4B**	**37ETB**	**04,C4,1B,FF,FF**	**Loads wavelength edit table**	**467**	**4**	**20**	**4,774,358:85:0**	
718	98	344	18:03:41.000	117FA105A106A4HG	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	20	4,774,358:90:0	
719	98	344	18:03:45.666	127FU11A	NIMSTAB	GE	%%%%% GROUP END TAB	467	4	20	4,774,359:06:0	
720	98	344	18:03:47.000	117FA105A106A4HH	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	20	4,774,359:08:0	
721	98	344	18:03:52.333	117FA105A106A4HI	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	20	4,774,359:16:0	
722	98	344	18:03:58.333	117FA105A106A4HJ	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	20	4,774,359:25:0	
723	98	344	18:04:03.666	117FA105A106A4HK	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	20	4,774,359:33:0	
724	98	344	18:04:09.666	117FA105A106A4HL	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	20	4,774,359:42:0	
725	98	344	18:04:15.000	117FA105A106A4HM	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	20	4,774,359:50:0	
726	98	344	18:04:21.000	117FA105A106A4HN	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	20	4,774,359:59:0	
727	98	344	18:04:26.333	117FA105A106A4HO	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	20	4,774,359:67:0	
728	98	344	18:04:32.333	117FA105A106A4HP	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	20	4,774,359:76:0	
729	98	344	18:04:37.666	127FV	NIMSTAB	GS	%%%%% GROUP START TAB	467	4	20	4,774,359:84:0	
730	98	344	18:04:37.666	117FA105A106A4HQ	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	20	4,774,359:84:0	
731	**98**	**344**	**18:04:37.666**	**127FV4A**	**37IOP**	**7,21**	**Fixed Map, Grating Start Position =21**	**467**	**4**	**21**	**4,774,359:84:0**	
732	**98**	**344**	**18:04:38.333**	**127FV4B**	**37ETB**	**04,C4,1B,FF,FF**	**Loads wavelength edit table**	**467**	**4**	**21**	**4,774,359:85:0**	
733	98	344	18:04:43.666	117FA105A106A4HR	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	21	4,774,360:02:0	
734	98	344	18:04:46.333	127FV11A	NIMSTAB	GE	%%%%% GROUP END TAB	467	4	21	4,774,360:06:0	
735	98	344	18:04:49.000	117FA105A106A4HS	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	21	4,774,360:10:0	
736	98	344	18:04:55.000	117FA105A106A4HT	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	21	4,774,360:19:0	
737	98	344	18:05:00.333	117FA105A106A4HU	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	21	4,774,360:27:0	
738	98	344	18:05:06.333	117FA105A106A4HV	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	21	4,774,360:36:0	
739	98	344	18:05:11.666	117FA105A106A4HW	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	21	4,774,360:44:0	
740	98	344	18:05:17.666	117FA105A106A4HX	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	21	4,774,360:53:0	
741	98	344	18:05:23.000	117FA105A106A4HY	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	21	4,774,360:61:0	
742	98	344	18:05:29.000	117FA105A106A4HZ	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	21	4,774,360:70:0	
743	98	344	18:05:34.333	117FA105A106A4IA	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	21	4,774,360:78:0	
744	98	344	18:05:38.333	127FW	NIMSTAB	GS	%%%%% GROUP START TAB	467	4	21	4,774,360:84:0	
745	**98**	**344**	**18:05:38.333**	**127FW4A**	**37IOP**	**7,22**	**Fixed Map, Grating Start Position =22**	**467**	**4**	**22**	**4,774,360:84:0**	
746	**98**	**344**	**18:05:39.000**	**127FW4B**	**37ETB**	**04,C4,1B,FF,FF**	**Loads wavelength edit table**	**467**	**4**	**22**	**4,774,360:85:0**	
747	98	344	18:05:40.333	117FA105A106A4IB	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	22	4,774,360:87:0	
748	98	344	18:05:45.666	117FA105A106A4IC	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	22	4,774,361:04:0	
749	98	344	18:05:47.000	127FW11A	NIMSTAB	GE	%%%%% GROUP END TAB	467	4	22	4,774,361:06:0	
750	98	344	18:05:51.666	117FA105A106A4ID	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	22	4,774,361:13:0	
751	98	344	18:05:57.000	117FA105A106A4IE	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	22	4,774,361:21:0	
752	98	344	18:06:03.000	117FA105A106A4IF	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	22	4,774,361:30:0	
753	98	344	18:06:08.333	117FA105A106A4IG	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	22	4,774,361:38:0	
754	98	344	18:06:14.333	117FA105A106A4IH	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	22	4,774,361:47:0	
755	98	344	18:06:19.666	117FA105A106A4II	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	22	4,774,361:55:0	
756	98	344	18:06:25.666	117FA105A106A4IJ	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	22	4,774,361:64:0	
757	98	344	18:06:31.000	117FA105A106A4IK	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	22	4,774,361:72:0	
758	98	344	18:06:37.000	117FA105A106A4IL	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	22	4,774,361:81:0	
759	**98**	**344**	**18:06:39.000**	**127FX4A**	**37IOP**	**7,23**	**Fixed Map, Grating Start Position =23**	**467**	**4**	**23**	**4,774,361:84:0**	
760	98	344	18:06:39.000	127FX	NIMSTAB	GS	%%%%% GROUP START TAB	467	4	23	4,774,361:84:0	
761	**98**	**344**	**18:06:39.666**	**127FX4B**	**37ETB**	**04,C4,1B,FF,FF**	**Loads wavelength edit table**	**467**	**4**	**23**	**4,774,361:85:0**	
762	98	344	18:06:42.333	117FA105A106A4IM	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	23	4,774,361:89:0	
763	98	344	18:06:47.666	127FX11A	NIMSTAB	GE	%%%%% GROUP END TAB	467	4	23	4,774,362:06:0	
764	98	344	18:06:48.333	117FA105A106A4IN	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	23	4,774,362:07:0	
765	98	344	18:06:53.666	117FA105A106A4IO	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	23	4,774,362:15:0	
766	98	344	18:06:59.666	117FA105A106A4IP	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	23	4,774,362:24:0	
767	98	344	18:07:05.000	117FA105A106A4IQ	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	23	4,774,362:32:0	
768	98	344	18:07:11.000	117FA105A106A4IR	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	23	4,774,362:41:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
769	98	344	18:07:11.000	18NNSTARCL01-	DESELC	300DA	NIMS STAR CALIBRATION	467	4	23	: :	
770	98	344	18:07:13.666	175FA422A6B	6DMSC	RDY,0	DMS Control Tape stop	467	4	23	4,774,362:45:0	
771	98	344	18:07:13.666		DMS:	: *RUNDOWN	R28, TRACK 2, REV, TIC *4244.88 +/-	467	4	23	4,774,362:45:0	
772	98	344	18:07:14.866		DMS:	: *READY	RDY, TRACK 2, REV, TIC *4244.58 +/-	467	4	23	4,774,362:46:8	
773	98	344	18:07:16.333	117FA105A106A4IS	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	23	4,774,362:49:0	
774	98	344	18:07:22.333	117FA105A106A4IT	7STRP	-0.002,0.0,0,0,0	Slew =12.01	467	4	23	4,774,362:58:0	
775	98	344	18:07:27.666	117FA105A106A4IU	7STRP	0.002,0.0,0,0,0,	Slew =,0.76	467	4	23	4,774,362:66:0	
776	98	344	18:07:33.666	117FA11A	CSMOS	GE	***** GROUP END CSMOS	467	4	23	4,774,362:75:0	
777	98	344	18:16:45.666	127FY4A	37IOP	0,0	Safe, Grating Start Position =00	460	4	0	4,774,371:84:0	
778	98	344	18:16:45.666	127FY	NIMSTAB	GS	%%%%% GROUP START TAB	460	4	0	4,774,371:84:0	
779	98	344	18:16:46.333	127FY4B	37ETB	04,C4,02,00,00	Loads wavelength edit table	460	4	0	4,774,371:85:0	
780	98	344	18:16:54.333	127FY11A	NIMSTAB	GE	%%%%% GROUP END TAB	460	4	0	4,774,372:06:0	
781	98	344	18:19:47.666	125FY	NIMSINIT	GS	##### GROUP START INIT	460	4	0	4,774,374:84:0	
782	98	344	18:19:47.666	125FY4A	37IST	1,0,0,OFF,0,0,0	Chopper ON, Sync, 63Hz (Ref)	460	4	0	4,774,374:84:0	
783	98	344	18:20:48.333	125FY4B	37IST	1,1,0,OFF,0,0,0	Chopper OFF, N/A, 63Hz (Ref)	4O0	4	0	4,774,375:84:0	
784	98	344	18:21:49.000	125FY4C	37MB	0,0,0,0,0,0	Selects mirror (spatial) edit table	4O0	4	0	4,774,376:84:0	
785	98	344	18:21:49.000	125FY11A	NIMSINIT	GE	##### GROUP END INIT	4O0	4	0	4,774,376:84:0	
786	98	344	18:22:00.000	18NNSTARCL01-		-----STOP-------		4O0	4	0	: :	
787	98	344	19:00:04.333	20YA4A	7SAFE	UNSTOW	S/P TO 153 deg cone	4O0	4	0	4,774,414:69:0	
788	98	344	19:10:00.333	41YB99A	POWER	PWR MODE change	Change to Maneuver/Playback Mode	4O0	4	0	4,774,424:53:0	
789	98	344	19:11:54.333	41YB3G	40T1P	1	PCT Heater 1 ON (primary relay)	4O0	4	0	4,774,426:42:0	
790	98	344	19:12:04.333	41YB3H	40T1P	2	PCT Heater 1 ON (primary relay)	4O0	4	0	4,774,426:57:0	
791	98	344	19:12:14.333	41YB3I	40T2	1	PCT Heater 2 ON	4O0	4	0	4,774,426:72:0	
792	98	344	19:12:24.333	41YB3J	40T2	2	PCT Heater 2 ON	4O0	4	0	4,774,426:87:0	
793	98	344	19:36:31.666		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 4244.58 +/-	4O0	4	0	4,774,450:74:0	
794	98	344	19:36:31.666	175JF422A6A	6DMSC	R7,2	DMS Control	4O0	4	0	4,774,450:74:0	
795	98	344	19:36:33.066		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *4244.70 +/-	4O0	4	0	4,774,450:76:1	
796	98	344	19:36:38.333		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *4245.93 +/-	4O0	4	0	4,774,450:84:0	
797	98	344	19:36:39.533		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *4245.99 +/-	4O0	4	0	4,774,450:85:8	
798	98	344	19:36:40.333	282NA431A6A	6RCSEL	DDSNCG,PLSSEL,EP	Record Select (DDS onl	4O0	4	0	4,774,450:87:0	
799	98	344	19:36:40.333	175JF176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	4O0	4	0	4,774,450:87:0	
800	98	344	19:36:40.933		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC 4245.87 +/-	4O0	4	0	4,774,450:87:9	
801	98	344	19:36:40.933		DMS:	: *RECORD	R7, TRACK 2, REV, TIC *4245.87 +/-	4O0	4	0	4,774,450:87:9	
802	98	344	19:36:43.000	431OC6A	6RCSEL	DDSNCG,PLSNCG,EP	Record Select (DDS onl	4O0	4	0	4,774,451:00:0	
803	98	344	21:27:39.666	488CD6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,774,560:66:0	
804	98	344	22:30:57.000	488CD6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,774,623:29:0	
805	98	345	00:23:54.333	432OC431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	4O0	4	0	4,774,735:03:0	
806	98	345	00:23:55.000	432OC6A	6RTSL1		R/T Select of DDS and	4O0	4	0	4,774,735:04:0	
807	98	345	00:23:57.000		DMS:	: *RUNDOWN	R7, TRACK 2, REV, TIC * 206.17 +/-	4O0	4	0	4,774,735:07:0	
808	98	345	00:23:57.000	175JF422A6B	6DMSC	RDY,0	DMS Control Tape stop	4O0	4	0	4,774,735:07:0	
809	98	345	00:23:58.200		DMS:	: *READY	RDY, TRACK 2, REV, TIC * 206.11 +/-	4O0	4	0	4,774,735:08:8	
810	98	345	00:23:58.333	282NB431A6A	6RCDSL	DDSNCG,PLSDSL,EP	Record Deselect (DDS o	4O0	4	0	4,774,735:09:0	
811	98	345	00:24:47.000	282NB432A431A6A	6RCDSL	DDSNCG,PLSDSL,EP	Record Deselect (DDS o	4O0	4	0	4,774,735:82:0	
812	98	345	00:24:47.666	282NB432A6A	6RTSL1		R/T Select of DDS and	4O0	4	0	4,774,735:83:0	
813	98	345	01:56:53.600		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 206.11 +/-	4O0	4	0	4,774,827:00:0	
814	98	345	01:56:53.600	465KB6A	6DMST	5976	DMS Slew to TIC	4O0	4	0	4,774,827:00:0	
815	98	345	01:56:53.600		DMS:	: *SLEW-TIC	P7, TRACK *1, *FWD, TIC 206.11 +/-	4O0	4	0	4,774,827:00:0	
816	98	345	01:57:00.266		DMS:	: *RUNUP	P7, TRACK 1, FWD, TIC 206.11 +/-	4O0	4	0	4,774,827:10:0	
817	98	345	01:57:01.666		DMS:	: *AT_SPD	P7, TRACK 1, FWD, TIC * 206.23 +/-	4O0	4	0	4,774,827:12:1	
818	98	345	02:09:35.600	488CD6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,774,839:51:0	
819	98	345	02:19:55.600	488CD6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,774,849:71:0	
820	98	345	03:11:07.600	488CD6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,774,900:38:0	
821	98	345	08:47:09.733		DMS:	: *RUNDOWN	P7, TRACK 1, FWD, TIC *5973.94 +/-	4O0	4	0	4,775,232:69:2	
822	98	345	08:47:10.933		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *5974.00 +/-	4O0	4	0	4,775,232:71:0	
823	98	345	08:55:04.266	20YB4A	7SAFE	STOP	S/P NO MOVEMENT	4O0	4	0	4,775,240:53:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
824	98	345	08:55:54.266	20YB4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,775,241:37:0	
825	98	345	09:01:33.600	176SL6A	6TMREC	**IPB**	INITIATE PLAYBACK (PB CONTROL) Record Mod	4O0	4	0	4,775,247:00:0	
826	98	345	11:36:43.600	488CE6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,775,400:42:0	
827	98	345	12:32:11.600	488CE6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,775,455:29:0	
828	98	345	12:45:54.266	488CE6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,775,468:80:0	
829	98	345	12:51:23.600	488CE6D	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	4,775,474:28:0	
830	98	345	13:27:39.600	488CE6E	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,775,510:16:0	
831	98	345	16:52:43.600	488CF6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,775,712:90:0	
832	98	345	18:15:17.600	488CF6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,775,794:59:0	
833	98	345	18:44:23.600	488CF6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,775,823:39:0	
834	98	345	19:06:51.600	488CF6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,775,845:59:0	
835	98	345	19:57:46.266	176SV6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	4O0	4	0	4,775,896:00:0	
836	98	345	20:02:00.266	20UR4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,775,900:17:0	
837	98	345	20:03:00.266	20UR4D	**7MODE**	**SPNL**	AACS ALL-SPIN LOW	4O0	4	0	4,775,901:16:0	
838	98	345	20:05:00.266	20UR4E	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	4O0	4	0	4,775,903:14:0	
839	98	345	20:10:30.266	20UR4G	7VENT	0.611,1.333,8	ALERT -- Thruster fire	4O0	4	0	4,775,908:54:0	
840	98	345	20:10:30.933	20UR4H	7VENT	0.611,10.989,8	ALERT -- Thruster fire	4O0	4	0	4,775,908:55:0	
841	98	345	20:10:50.933	20UR4I	7VENT	0.611,1.333,6	ALERT -- Thruster fire	4O0	4	0	4,775,908:85:0	
842	98	345	20:10:51.600	20UR4J	7VENT	0.611,10.989,6	ALERT -- Thruster fire	4O0	4	0	4,775,908:86:0	
843	98	345	20:11:11.600	20UR4K	7VENT	0.611,1.333,4	ALERT -- Thruster fire	4O0	4	0	4,775,909:25:0	
844	98	345	20:11:12.266	20UR4L	7VENT	0.611,0.666,5	ALERT -- Thruster fire	4O0	4	0	4,775,909:26:0	
845	98	345	20:11:22.266	20UR4M	7VENT	0.611,1.333,4	ALERT -- Thruster fire	4O0	4	0	4,775,909:41:0	
846	98	345	20:11:22.933	20UR4N	7VENT	0.611,0.666,5	ALERT -- Thruster fire	4O0	4	0	4,775,909:42:0	
847	98	345	20:11:32.933	20UR4O	7VENT	1.211,1.333,10	ALERT -- Thruster fire	4O0	4	0	4,775,909:57:0	
848	98	345	20:11:33.600	20UR4P	7VENT	1.211,0.666,12	ALERT -- Thruster fire	4O0	4	0	4,775,909:58:0	
849	98	345	20:13:20.266	20UR4S	7VENT	0.611,1.333,7	ALERT -- Thruster fire	4O0	4	0	4,775,911:36:0	
850	98	345	20:13:20.933	20UR4T	7VENT	0.611,10.989,7	ALERT -- Thruster fire	4O0	4	0	4,775,911:37:0	
851	98	345	20:13:40.933	20UR4U	7VENT	0.611,1.333,1	ALERT -- Thruster fire	4O0	4	0	4,775,911:67:0	
852	98	345	20:13:41.600	20UR4V	7VENT	0.611,10.989,1	ALERT -- Thruster fire	4O0	4	0	4,775,911:68:0	
853	98	345	20:14:01.600	20UR4AC	7VENT	0.611,1.333,2	ALERT -- Thruster fire	4O0	4	0	4,775,912:07:0	
854	98	345	20:14:02.266	20UR4AD	7VENT	0.611,0.666,3	ALERT -- Thruster fire	4O0	4	0	4,775,912:08:0	
855	98	345	20:14:12.266	20UR4AE	7VENT	0.611,1.333,2	ALERT -- Thruster fire	4O0	4	0	4,775,912:23:0	
856	98	345	20:14:12.933	20UR4AF	7VENT	0.611,0.666,3	ALERT -- Thruster fire	4O0	4	0	4,775,912:24:0	
857	98	345	20:14:22.933	20UR4W	7VENT	1.211,1.333,9	ALERT -- Thruster fire	4O0	4	0	4,775,912:39:0	
858	98	345	20:14:23.600	20UR4X	7VENT	1.211,0.666,11	ALERT -- Thruster fire	4O0	4	0	4,775,912:40:0	
859	98	345	20:15:20.266	20UR4Z	**7MODE**	**CRU**	AACS CRUISE MODE	4O0	4	0	4,775,913:34:0	
860	98	345	20:30:59.600	432OE431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	4O0	4	0	4,775,928:78:0	
861	98	345	20:31:00.266	432OE6A	6RTSL1		R/T Select of DDS and	4O0	4	0	4,775,928:79:0	
862	98	345	20:40:04.266	20UK4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	4O0	4	0	4,775,937:76:0	
863	98	345	20:40:54.266	20UK4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,775,938:60:0	
864	98	345	20:42:15.600	176SW6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	4,775,940:00:0	
865	98	345	22:16:43.600	488CF6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,776,033:39:0	
866	98	345	22:28:43.600	488CG6A	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,776,045:27:0	
867	98	345	22:40:11.600	488CG6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,776,056:58:0	
868	98	346	02:04:26.266	488CG6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,776,258:58:0	
869	98	346	02:15:39.600	488CG6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,776,269:67:0	
870	98	346	03:15:23.600	488CG6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,776,328:74:0	
871	98	346	11:28:11.533	488CH6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,776,816:18:0	
872	98	346	12:27:55.533	488CH6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,776,875:25:0	
873	98	346	12:44:56.200	488CH6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,776,892:09:0	
874	98	346	12:47:07.533	488CH6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,776,894:24:0	
875	98	346	13:02:03.533	488CH6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,776,909:03:0	
876	98	347	02:04:18.200	488CI6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,777,682:62:0	
877	98	347	02:15:39.533	488CI6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,777,693:83:0	
878	98	347	02:31:55.533	432NE6A	6RTSL1		R/T Select of DDS and	4O0	4	0	4,777,710:00:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
879	98	347	03:15:23.533	488CI6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,777,752:90:0	
880	98	347	11:17:31.533	488CJ6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,778,229:75:0	
881	98	347	12:21:31.533	488CJ6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,778,293:11:0	
882	98	347	13:55:23.533	488CJ6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,778,385:87:0	
883	98	347	21:02:03.466	488CK6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,778,807:85:0	
884	98	347	22:19:27.466	488CK6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,778,884:44:0	
885	98	347	22:23:07.466	488CK6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,778,888:10:0	
886	98	347	22:33:47.466	488CK6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,778,898:60:0	
887	98	348	01:59:09.466	488CK6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,779,101:70:0	
888	98	348	03:07:51.466	488CL6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,779,169:65:0	
889	98	348	03:41:30.133	488CL6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,779,202:90:0	
890	98	348	04:04:27.466	488CL6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,779,225:63:0	
891	98	348	10:26:19.466	488CM6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,779,603:33:0	
892	98	348	12:32:11.466	488CM6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,779,727:77:0	
893	98	348	12:49:15.466	488CM6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,779,744:66:0	
894	98	348	13:42:55.466	488CM6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,779,797:73:0	
895	98	348	14:08:11.466	488CM6E	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,779,822:72:0	
896	98	348	14:13:53.466	488CN6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,779,828:39:0	
897	98	348	20:51:23.466	488CO6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,780,221:51:0	
898	98	348	22:14:03.466	488CO6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,780,303:29:0	
899	98	348	22:16:43.466	488CO6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,780,305:87:0	
900	98	348	22:27:23.466	488CO6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,780,316:46:0	
901	98	349	12:38:57.400	488CP6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,781,158:65:0	
902	98	349	13:07:33.400	432NG6A	6RTSL1		R/T Select of DDS and	4O0	4	0	4,781,187:00:0	
903	98	349	14:03:55.400	488CP6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,781,242:68:0	
904	98	349	19:47:23.400	488CQ6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,781,582:40:0	
905	98	349	20:49:15.400	488CQ6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,781,643:57:0	
906	98	350	01:41:31.400	488CQ6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,781,932:62:0	
907	98	350	02:09:15.400	488CR6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,781,960:10:0	
908	98	350	03:23:55.400	488CR6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,782,033:87:0	
909	98	350	07:34:15.400	488CR6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,782,281:49:0	
910	98	350	07:37:47.400	488CR6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,782,285:03:0	
911	98	350	16:52:01.333	488CS6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,782,833:16:0	
912	98	350	20:25:47.333	488CS6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,783,044:54:0	
913	98	350	21:53:14.000	488CS6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,783,131:07:0	
914	98	350	22:26:53.333	488CS6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,783,164:33:0	
915	98	350	22:44:27.333	488CS6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,783,181:67:0	
916	98	351	01:41:31.333	488CT6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,783,356:78:0	
917	98	351	02:09:15.333	488CT6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,783,384:26:0	
918	98	351	03:06:02.666	488CT6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,783,440:41:0	
919	98	351	03:28:11.333	488CT6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,783,462:32:0	
920	98	351	03:33:29.333	488CT6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,783,467:54:0	
921	98	351	10:36:59.333	488CU6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,783,886:40:0	
922	98	351	11:55:55.333	488CU6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,783,964:46:0	
923	98	351	12:23:55.333	488CU6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,783,992:18:0	
924	98	351	12:25:47.333	488CU6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,783,994:04:0	
925	98	351	12:40:43.333	488CU6E	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,784,008:74:0	
926	98	351	16:36:52.600	488CV6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,784,242:34:0	
927	98	351	19:36:43.266	488CV6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,784,420:22:0	
928	98	351	20:00:11.266	488CV6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,784,443:41:0	
929	98	351	21:08:21.933	488CV6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,784,510:80:0	
930	98	351	21:42:01.266	488CV6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,784,544:15:0	
931	98	351	23:03:39.266	488CW6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,784,624:82:0	
932	98	352	01:43:39.266	488CW6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,784,783:13:0	
933	98	352	02:57:33.933	488CW6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,784,856:22:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
934	98	352	03:29:23.266	488CW6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,784,887:65:0	
935	98	352	05:51:07.266	488CX6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,785,027:81:0	
936	98	352	08:41:47.266	488CX6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,785,196:62:0	
937	98	352	12:10:51.266	488CY6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,785,403:41:0	
938	98	352	12:34:19.266	488CY6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,785,426:60:0	
939	98	352	13:33:27.933	488CY6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,785,485:14:0	
940	98	352	14:07:07.266	488CY6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,785,518:40:0	
941	98	352	14:14:35.266	488CY6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,785,525:75:0	
942	98	352	15:22:59.933	488CZ6A	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	4O0	4	0	4,785,593:44:0	
943	98	352	15:27:33.933	176SD6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	4O0	4	0	4,785,598:00:0	
944	98	352	15:38:59.933	20BA4C	7STAT	17.45,70.4498,59	Stator inertial point	4O0	4	0	4,785,609:28:0	
945	98	352	15:59:59.933	474BA416A4B	**7MODE**	**INT**	AACS INERTIAL MODE	4O0	4	0	4,785,630:07:0	
946	98	352	16:01:59.933	474BA416A4D	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	4O0	4	0	4,785,632:05:0	
947	98	352	16:02:19.933	20BA4D	7STAT	17.45,70.4498,59	Stator inertial point	4O0	4	0	4,785,632:35:0	
948	98	352	16:06:13.933	474BA416A4E	7BURN	OSZ,70.4498,59.2	ALERT -- Thruster fire	4O0	4	0	4,785,636:22:0	
949	98	352	16:13:59.933	20BA4F	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,785,643:84:0	
950	98	352	16:19:51.933	20BA4G	**7MODE**	**CRU**	AACS CRUISE MODE	4O0	4	0	4,785,649:66:0	
951	98	352	16:44:07.933	20BA4L	7STAT	17.45,70.4498,59	Stator inertial point	4O0	4	0	4,785,673:66:0	
952	98	352	16:47:07.933	20BA4O	**7MODE**	**INT**	AACS INERTIAL MODE	4O0	4	0	4,785,676:63:0	
953	98	352	16:49:07.933	474BA416A4G	7BURN	LAT,70.4498,59.2	ALERT -- Thruster fire	4O0	4	0	4,785,678:61:0	
954	98	352	16:55:23.933	20BA4Q	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,785,684:79:0	
955	98	352	17:00:15.933	20BA4R	**7MODE**	**CRU**	AACS CRUISE MODE	4O0	4	0	4,785,689:62:0	
956	98	352	18:07:47.933	20BB4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	4O0	4	0	4,785,756:43:0	
957	98	352	18:08:37.933	20BB4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,785,757:27:0	
958	98	352	18:09:20.600	176BA6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	4,785,758:00:0	
959	98	352	19:32:14.600	432JP431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	4O0	4	0	4,785,839:90:0	
960	98	352	19:32:15.266	432JP6A	6RTSL1		R/T Select of DDS and	4O0	4	0	4,785,840:00:0	
961	98	352	19:36:43.266	488CZ6B	6TMSED	NORM,AH3	Sci, Eng, and D/L Chan	4O0	4	0	4,785,844:38:0	
962	98	352	20:00:11.266	488CZ6C	6TMSED	NORM,AH4	Sci, Eng, and D/L Chan	4O0	4	0	4,785,867:57:0	
963	98	352	20:30:59.933	488CZ6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,785,898:09:0	
964	98	352	20:31:54.600	176SE6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	4,785,899:00:0	
965	98	352	21:08:29.933	488CZ6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,785,935:17:0	
966	98	352	21:42:09.266	488DA6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,785,968:43:0	
967	98	352	23:44:11.266	488DA6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,786,089:15:0	
968	98	353	01:30:51.200	488DA6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,786,194:60:0	
969	98	353	02:09:15.200	488DA6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,786,232:58:0	
970	98	353	02:56:18.533	488DA6E	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,786,279:16:0	
971	98	353	03:25:24.533	488DB6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,786,307:87:0	
972	98	353	03:43:07.200	488DB6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,786,325:43:0	
973	98	353	10:07:07.200	488DC6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,786,705:23:0	
974	98	353	11:47:23.200	488DC6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,786,804:38:0	
975	98	353	12:17:15.200	488DC6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,786,833:87:0	
976	98	353	12:34:19.200	488DC6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,786,850:76:0	
977	98	353	14:23:07.200	488DC6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,786,958:40:0	
978	98	353	19:51:39.200	488DD6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,787,283:33:0	
979	98	353	21:51:07.200	488DD6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,787,401:47:0	
980	98	353	21:57:37.200	488DD6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,787,407:86:0	
981	98	354	12:09:36.466	488DE6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,788,250:52:0	
982	98	354	12:19:23.133	488DE6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,788,260:22:0	
983	98	354	12:39:21.800	432NI6A	6RTSL1		R/T Select of DDS and	4O0	4	0	4,788,280:00:0	
984	98	354	14:29:31.133	488DE6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,788,388:86:0	
985	98	354	19:40:59.133	488DF6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,788,696:90:0	
986	98	354	21:46:51.133	488DF6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,788,821:43:0	
987	98	354	21:52:29.800	488DF6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,788,827:05:0	
988	98	354	22:03:55.133	488DF6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,788,838:32:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
989	98	354	23:36:26.466	488DF6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,788,929:78:0	
990	98	355	01:26:35.133	488DG6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,789,038:72:0	
991	98	355	02:04:59.133	488DG6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,789,076:70:0	
992	98	355	03:58:03.133	488DG6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,789,188:54:0	
993	98	355	07:07:12.466	488DG6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,789,375:61:0	
994	98	355	07:10:03.133	488DG6E	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,789,378:44:0	
995	98	355	12:19:28.466	488DH6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,789,684:46:0	
996	98	355	12:42:51.133	488DH6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,789,707:57:0	
997	98	355	13:38:52.466	488DH6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,789,763:03:0	
998	98	355	14:12:31.133	488DH6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,789,796:28:0	
999	98	355	17:22:59.733	488DH6E	6TMSED	NORM,AH4	Sci, Eng, and D/L Chan	4O0	4	0	4,789,984:63:0	
1000	98	355	17:27:21.066	176TF6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	4O0	4	0	4,789,989:00:0	
1001	98	355	17:35:59.733	20WC4C	7STAT	17.45,175.70,3.1	Stator inertial point	4O0	4	0	4,789,997:50:0	
1002	98	355	17:55:01.733	490UA412A4B	**7MODE**	**INT**	AACS INERTIAL MODE	4O0	4	0	4,790,016:34:0	
1003	98	355	17:59:59.733	490UA412A4D	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	4O0	4	0	4,790,021:26:0	
1004	98	355	18:00:19.733	20WC4D	7STAT	17.45,175.70,3.1	Stator inertial point	4O0	4	0	4,790,021:56:0	
1005	98	355	18:04:09.733	490UA412A4E	7VECT		Inert vect update UTC	4O0	4	0	4,790,025:37:0	
1006	98	355	18:04:13.733	490UA412A4F	7TURN	2,RTH	ALERT Thruster	4O0	4	0	4,790,025:43:0	
1007	98	355	18:08:01.733	490UA412A406A4A	7STAR	16,217,100.73	Star catalog update	4O0	4	0	4,790,029:21:0	
1008	98	355	18:08:03.733	490UA412A406A4B	7STAR	2,178,256.88	Star catalog update	4O0	4	0	4,790,029:24:0	
1009	98	355	18:08:05.733	490UA412A406A4C	7STAR	3,111,99.056999,	Star catalog update	4O0	4	0	4,790,029:27:0	
1010	98	355	18:08:07.733	490UA412A406A4D	7STAR	4,0,0.0,0.0	Star catalog update	4O0	4	0	4,790,029:30:0	
1011	98	355	18:08:09.733	490UA412A406A4E	7STAR	5,0,0.0,0.0	Star catalog update	4O0	4	0	4,790,029:33:0	
1012	98	355	18:08:11.733	490UA412A406A4F	7STAR	6,0,0.0,0.0	Star catalog update	4O0	4	0	4,790,029:36:0	
1013	98	355	18:18:05.733	20WC4F	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,790,039:17:0	
1014	98	355	18:26:09.733	490UA412A4G	**7MODE**	**CRU**	AACS CRUISE MODE	4O0	4	0	4,790,047:15:0	
1015	98	355	19:33:59.066	432OG431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	4O0	4	0	4,790,114:22:0	
1016	98	355	19:33:59.733	432OG6A	6RTSL1		R/T Select of DDS and	4O0	4	0	4,790,114:23:0	
1017	98	355	19:45:15.066	488DI6A	6TMSED	NORM,AH3	Sci, Eng, and D/L Chan	4O0	4	0	4,790,125:35:0	
1018	98	355	19:54:59.733	488DI6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,790,135:02:0	
1019	98	355	20:00:03.733	20TA4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	4O0	4	0	4,790,140:03:0	
1020	98	355	20:00:53.733	20TA4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,790,140:78:0	
1021	98	355	20:02:03.066	176TG6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	4,790,142:00:0	
1022	98	355	21:21:15.066	488DI6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,790,220:30:0	
1023	98	355	21:41:54.400	488DI6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,790,240:69:0	
1024	98	355	21:55:23.066	488DI6E	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	4,790,254:08:0	
1025	98	355	22:31:39.066	488DJ6A	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,790,289:87:0	
1026	98	356	05:21:16.400	488DK6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,790,695:07:0	
1027	98	356	09:21:53.066	488DK6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,790,933:04:0	
1028	98	356	09:26:35.066	488DK6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,790,937:63:0	
1029	98	356	13:03:00.400	488DL6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,791,151:67:0	
1030	98	356	19:26:03.066	488DM6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,791,530:52:0	
1031	98	356	19:58:03.066	488DM6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,791,562:20:0	
1032	98	357	03:08:59.000	488DN6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,791,988:38:0	
1033	98	357	10:15:39.000	488DO6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,792,410:36:0	
1034	98	357	11:55:55.000	488DO6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,792,509:51:0	
1035	98	357	11:59:11.000	488DO6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,792,512:72:0	
1036	98	357	12:06:35.000	488DO6D	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	4,792,520:10:0	
1037	98	357	12:42:51.000	488DO6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,792,555:89:0	
1038	98	357	16:52:51.666	488DP6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,792,803:22:0	
1039	98	357	18:14:10.333	488DP6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,792,883:60:0	
1040	98	357	18:47:49.666	488DP6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,792,916:86:0	
1041	98	357	19:30:19.000	488DP6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,792,958:88:0	
1042	98	357	21:14:51.000	488DP6E	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,793,062:32:0	
1043	98	357	21:44:43.000	488DQ6A	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,793,091:81:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
1044	98	357	22:49:11.000	488DQ6B	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,793,155:59:0
1045	98	357	23:22:50.333	488DQ6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,793,188:85:0
1046	98	358	01:15:55.000	488DQ6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,793,300:70:0
1047	98	358	01:32:59.000	488DQ6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,793,317:59:0
1048	98	358	02:39:07.000	488DR6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,793,383:05:0
1049	98	358	02:39:08.333	488DR6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,793,383:07:0
1050	98	358	03:12:51.666	488DR6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,793,416:39:0
1051	98	358	06:49:07.000	488DR6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,793,630:28:0
1052	98	358	06:59:23.000	488DR6E	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,793,640:42:0
1053	98	359	08:05:51.600	488DS6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,795,130:35:0
1054	98	359	09:59:50.266	488DS6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,795,243:10:0
1055	98	359	10:04:58.933	488DS6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,795,248:18:0
1056	98	359	11:45:14.933	488DS6D	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,795,347:33:0
1057	98	359	11:55:54.933	488DS6E	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	4,795,357:83:0
1058	98	359	12:32:10.933	488DT6A	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,795,393:71:0
1059	98	360	01:18:53.533	488DU6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,796,152:06:0
1060	98	360	01:28:42.866	488DU6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,796,161:71:0
1061	98	360	01:36:00.866	432NK6A	6RTSL1		R/T Select of DDS and	4O0	4	0	4,796,169:00:0
1062	98	360	03:02:34.866	488DU6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,796,254:56:0
1063	98	360	10:00:42.866	488DV6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,796,668:14:0
1064	98	360	11:40:58.866	488DV6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,796,767:29:0
1065	98	360	12:23:38.866	488DV6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,796,809:47:0
1066	98	360	13:17:26.200	488DV6D	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,796,862:65:0
1067	98	360	13:54:30.866	488DV6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,796,899:35:0
1068	98	360	14:08:10.866	488DW6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,796,912:82:0
1069	98	360	19:19:38.866	488DW6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,797,220:86:0
1070	98	360	19:21:43.533	488DW6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,797,223:00:0
1071	98	361	01:13:45.466	488DX6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,797,571:15:0
1072	98	361	01:22:18.800	488DX6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,797,579:57:0
1073	98	361	02:58:18.800	488DX6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,797,674:52:0
1074	98	361	09:54:18.800	488DY6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,798,086:00:0
1075	98	361	11:40:58.800	488DY6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,798,191:45:0
1076	98	361	11:41:55.466	488DY6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,798,192:39:0
1077	98	361	11:55:54.800	488DY6D	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	4,798,206:24:0
1078	98	361	11:56:39.466	176SN6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	4O0	4	0	4,798,207:00:0
1079	98	361	12:02:43.466	465SA6A	6DMST	5000	DMS Slew to TIC	4O0	4	0	4,798,213:00:0
1080	98	361	12:02:43.466		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 5974.00 +/-	4O0	4	0	4,798,213:00:0
1081	98	361	12:02:43.466		DMS:	: *SLEW-TIC	P7, TRACK *2, *REV, TIC 5974.00 +/-	4O0	4	0	4,798,213:00:0
1082	98	361	12:02:44.866		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *5974.12 +/-	4O0	4	0	4,798,213:02:1
1083	98	361	12:02:50.133		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *5975.35 +/-	4O0	4	0	4,798,213:10:0
1084	98	361	12:02:51.333		DMS:	: *RUNUP	P7, TRACK *2, *REV, TIC *5975.41 +/-	4O0	4	0	4,798,213:11:8
1085	98	361	12:02:52.733		DMS:	: *AT_SPD	P7, TRACK 2, REV, TIC *5975.29 +/-	4O0	4	0	4,798,213:13:9
1086	98	361	12:32:10.800	488DY6E	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,798,242:12:0
1087	98	361	13:12:04.266		DMS:	**: *RUNDOWN**	P7, TRACK 2, REV, TIC *5002.06 +/-	4O0	4	0	4,798,281:53:2
1088	98	361	13:12:05.466		DMS:	: *READY	RDY, TRACK 2, REV, TIC *5002.00 +/-	4O0	4	0	4,798,281:55:0
1089	98	361	17:56:24.800		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 5002.00 +/-	4O0	4	0	4,798,562:73:0
1090	98	361	17:56:24.800	465SB6A	6DMSC	P100,4	DMS Control Tape P/B 100.8kbps	4O0	4	0	4,798,562:73:0
1091	98	361	17:56:26.200		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *5002.12 +/-	4O0	4	0	4,798,562:75:1
1092	98	361	17:56:31.466		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *5003.35 +/-	4O0	4	0	4,798,562:83:0
1093	98	361	17:56:32.666		DMS:	: *RUNUP	P100, TRACK *4, *REV, TIC *5003.41 +/-	4O0	4	0	4,798,562:84:8
1094	98	361	17:56:36.533		DMS:	: *P_SLEW	P100, TRACK 4, REV, TIC *4997.91 +/-	4O0	4	0	4,798,562:90:6
1095	98	361	17:56:36.533		DMS:	: *AT_SPD	P100, TRACK 4, REV, TIC 4997.91 +/-	4O0	4	0	4,798,562:90:6
1096	98	361	18:22:16.800	465SB6B	6DMSC	RDY,4	DMS Control Tape stop	4O0	4	0	4,798,588:35:0
1097	98	361	18:22:16.800		DMS:	**: *RUNDOWN**	P100, TRACK 4, REV, TIC * 259.79 +/-	4O0	4	0	4,798,588:35:0
1098	98	361	18:22:18.000		DMS:	: *READY	RDY, TRACK 4, REV, TIC * 258.99 +/-	4O0	4	0	4,798,588:36:8

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1099	98	361	19:12:40.133	488DZ6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,798,638:20:0	
1100	98	361	19:28:10.800	488DZ6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,798,653:51:0	
1101	98	361	20:20:04.800	465SC6A	6DTRN	CMD,6DTRN,465SC6	DMS TRACK TURNAROUND	4O0	4	0	4,798,704:81:0	
1102	98	361	20:20:04.800		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 258.99 +/-	4O0	4	0	4,798,704:81:0	
1103	98	361	20:20:04.800		DMS:	: *DMS-TURN	P7, TRACK 4, REV, TIC 258.99 +/-	4O0	4	0	4,798,704:81:0	
1104	98	361	20:20:06.200		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 259.11 +/-	4O0	4	0	4,798,704:83:1	
1105	98	361	20:20:11.466		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 260.34 +/-	4O0	4	0	4,798,705:00:0	
1106	98	361	20:20:12.666		DMS:	: *RUNUP	P7, TRACK *4, *REV, TIC * 260.40 +/-	4O0	4	0	4,798,705:01:8	
1107	98	361	20:20:14.066		DMS:	: *AT_SPD	P7, TRACK 4, REV, TIC * 260.28 +/-	4O0	4	0	4,798,705:03:9	
1108	98	361	20:24:09.466	488DZ6C	6TMSED	NORM,AH3	Sci, Eng, and D/L Chan	4O0	4	0	4,798,708:84:0	
1109	98	361	20:24:31.800		DMS:	: *REVERSE	P7, TRACK 4, REV, TIC * 199.87 +/-	4O0	4	0	4,798,709:26:5	
1110	98	361	20:24:33.000		DMS:	: *RUNUP	P7, TRACK 1, FWD, TIC 199.81 +/-	4O0	4	0	4,798,709:28:3	
1111	98	361	20:24:33.000		DMS:	: *TURNARND	P7, TRACK *1, *FWD, TIC * 199.81 +/-	4O0	4	0	4,798,709:28:3	
1112	98	361	20:24:34.400		DMS:	: *AT_SPD	P7, TRACK 1, FWD, TIC * 199.93 +/-	4O0	4	0	4,798,709:30:4	
1113	98	361	20:24:46.400		DMS:	: *AUTOSTOP	P7, TRACK 1, FWD, TIC * 202.06 +/-	4O0	4	0	4,798,709:48:4	
1114	98	361	20:24:47.600		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 202.12 +/-	4O0	4	0	4,798,709:50:2	
1115	98	361	20:27:54.800	488DZ6D	6TMSED	NORM,AH4	Sci, Eng, and D/L Chan	4O0	4	0	4,798,712:58:0	
1116	98	361	20:30:07.466	465SD6A	6DMSC	P100,1	DMS Control Tape P/B 100.8kbps	4O0	4	0	4,798,714:75:0	
1117	98	361	20:30:07.466		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 202.12 +/-	4O0	4	0	4,798,714:75:0	
1118	98	361	20:30:14.133		DMS:	: *RUNUP	P100, TRACK 1, FWD, TIC 202.12 +/-	4O0	4	0	4,798,714:85:0	
1119	98	361	20:30:18.000		DMS:	: *AT_SPD	P100, TRACK 1, FWD, TIC 207.62 +/-	4O0	4	0	4,798,714:90:8	
1120	98	361	20:30:18.000		DMS:	: *P_SLEW	P100, TRACK 1, FWD, TIC * 207.62 +/-	4O0	4	0	4,798,714:90:8	
1121	98	361	20:34:41.466	488DZ6E	6TMSED	FILL,AH4	Sci, Eng, and D/L Chan	4O0	4	0	4,798,719:31:0	
1122	98	361	21:02:01.466	465SD6B	6DMSC	RDY,1	DMS Control Tape stop	4O0	4	0	4,798,746:34:0	
1123	98	361	21:02:01.466		DMS:	**: *RUNDOWN**	P100, TRACK 1, FWD, TIC *6063.01 +/-	4O0	4	0	4,798,746:34:0	
1124	98	361	21:02:02.666		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *6063.81 +/-	4O0	4	0	4,798,746:35:8	
1125	98	361	21:08:20.133	488EA6A	6TMSED	NORM,AH4	Sci, Eng, and D/L Chan	4O0	4	0	4,798,752:56:0	
1126	98	361	21:17:37.466	465SE6A	6DMSC	P100,2	DMS Control Tape P/B 100.8kbps	4O0	4	0	4,798,761:73:0	
1127	98	361	21:17:37.466		DMS:	: *US-RUNUP	P7, TRACK 1, FWD, TIC 6063.81 +/-	4O0	4	0	4,798,761:73:0	
1128	98	361	21:17:38.866		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *6063.93 +/-	4O0	4	0	4,798,761:75:1	
1129	98	361	21:17:44.133		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *6065.17 +/-	4O0	4	0	4,798,761:83:0	
1130	98	361	21:17:45.333		DMS:	: *RUNUP	P100, TRACK *2, *REV, TIC *6065.23 +/-	4O0	4	0	4,798,761:84:8	
1131	98	361	21:17:49.200		DMS:	: *AT_SPD	P100, TRACK 2, REV, TIC 6059.73 +/-	4O0	4	0	4,798,761:90:6	
1132	98	361	21:17:49.200		DMS:	: *P_SLEW	P100, TRACK 2, REV, TIC *6059.73 +/-	4O0	4	0	4,798,761:90:6	
1133	98	361	21:49:45.466		DMS:	**: *RUNDOWN**	P100, TRACK 2, REV, TIC * 164.96 +/-	4O0	4	0	4,798,793:53:0	
1134	98	361	21:49:45.466	465SF6A	6DMSC	P100,3	DMS Control Tape P/B 100.8kbps	4O0	4	0	4,798,793:53:0	
1135	98	361	21:49:46.666		DMS:	: *RUNUP	P100, TRACK *3, *FWD, TIC * 164.16 +/-	4O0	4	0	4,798,793:54:8	
1136	98	361	21:49:50.533		DMS:	: *P_SLEW	P100, TRACK 3, FWD, TIC * 169.66 +/-	4O0	4	0	4,798,793:60:6	
1137	98	361	21:49:50.533		DMS:	: *AT_SPD	P100, TRACK 3, FWD, TIC 169.66 +/-	4O0	4	0	4,798,793:60:6	
1138	98	361	22:21:46.133		DMS:	**: *RUNDOWN**	P100, TRACK 3, FWD, TIC *6062.38 +/-	4O0	4	0	4,798,825:22:0	
1139	98	361	22:21:46.133	465SF6B	6DMSC	RDY,3	DMS Control Tape stop	4O0	4	0	4,798,825:22:0	
1140	98	361	22:21:47.333		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *6063.18 +/-	4O0	4	0	4,798,825:23:8	
1141	98	361	22:36:29.466		DMS:	: *US-RUNUP	P7, TRACK *1, FWD, TIC 6063.18 +/-	4O0	4	0	4,798,839:73:0	
1142	98	361	22:36:29.466	465SG6A	6DMSC	P100,4	DMS Control Tape P/B 100.8kbps	4O0	4	0	4,798,839:73:0	
1143	98	361	22:36:30.866		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *6063.30 +/-	4O0	4	0	4,798,839:75:1	
1144	98	361	22:36:36.133		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *6064.53 +/-	4O0	4	0	4,798,839:83:0	
1145	98	361	22:36:37.333		DMS:	: *RUNUP	P100, TRACK *4, *REV, TIC *6064.59 +/-	4O0	4	0	4,798,839:84:8	
1146	98	361	22:36:41.200		DMS:	: *AT_SPD	P100, TRACK 4, REV, TIC 6059.09 +/-	4O0	4	0	4,798,839:90:6	
1147	98	361	22:36:41.200		DMS:	: *P_SLEW	P100, TRACK 4, REV, TIC *6059.09 +/-	4O0	4	0	4,798,839:90:6	
1148	98	361	23:08:36.800		DMS:	**: *RUNDOWN**	P100, TRACK 4, REV, TIC * 166.38 +/-	4O0	4	0	4,798,871:52:0	
1149	98	361	23:08:36.800	465SH6A	6DMSC	P100,3	DMS Control Tape P/B 100.8kbps	4O0	4	0	4,798,871:52:0	
1150	98	361	23:08:38.000		DMS:	: *RUNUP	P100, TRACK *3, *FWD, TIC * 165.58 +/-	4O0	4	0	4,798,871:53:8	
1151	98	361	23:08:41.866		DMS:	: *AT_SPD	P100, TRACK 3, FWD, TIC 171.08 +/-	4O0	4	0	4,798,871:59:6	
1152	98	361	23:08:41.866		DMS:	: *P_SLEW	P100, TRACK 3, FWD, TIC * 171.08 +/-	4O0	4	0	4,798,871:59:6	
1153	98	361	23:09:42.800	465SH6B	6DMSC	RDY,3	DMS Control Tape stop	4O0	4	0	4,798,872:60:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
1154	98	361	23:09:42.800		DMS:	**: *RUNDOWN**	P100, TRACK 3, FWD, TIC * 358.52 +/-	4O0	4	0	4,798,872:60:0
1155	98	361	23:09:44.000		DMS:	: *READY	RDY, TRACK 3, FWD, TIC * 359.32 +/-	4O0	4	0	4,798,872:61:8
1156	98	361	23:10:59.466	488EA6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,798,873:84:0
1157	98	361	23:24:12.800		DMS:	: READY	RDY, TRACK *4, *REV, TIC 359.32 +/-	4O0	4	0	4,798,887:00:0
1158	98	361	23:24:12.800	465SI6A	6DMSC	RDY,4	DMS Control Tape stop	4O0	4	0	4,798,887:00:0
1159	98	361	23:25:06.800		DMS:	: *DMS-TURN	P7, TRACK 4, REV, TIC 359.32 +/-	4O0	4	0	4,798,887:81:0
1160	98	361	23:25:06.800	465SJ6A	6DTRN	CMD,6DTRN,465SJ6	DMS TRACK TURNAROUND	4O0	4	0	4,798,887:81:0
1161	98	361	23:25:06.800		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 359.32 +/-	4O0	4	0	4,798,887:81:0
1162	98	361	23:25:08.200		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 359.44 +/-	4O0	4	0	4,798,887:83:1
1163	98	361	23:25:13.466		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 360.67 +/-	4O0	4	0	4,798,888:00:0
1164	98	361	23:25:14.666		DMS:	: *RUNUP	P7, TRACK *4, *REV, TIC * 360.73 +/-	4O0	4	0	4,798,888:01:8
1165	98	361	23:25:16.066		DMS:	: *AT_SPD	P7, TRACK 4, REV, TIC * 360.61 +/-	4O0	4	0	4,798,888:03:9
1166	98	361	23:36:41.866		DMS:	: *REVERSE	P7, TRACK 4, REV, TIC * 199.87 +/-	4O0	4	0	4,798,899:31:6
1167	98	361	23:36:43.066		DMS:	: *TURNARND	P7, TRACK *1, *FWD, TIC * 199.81 +/-	4O0	4	0	4,798,899:33:4
1168	98	361	23:36:43.066		DMS:	: *RUNUP	P7, TRACK 1, FWD, TIC 199.81 +/-	4O0	4	0	4,798,899:33:4
1169	98	361	23:36:44.466		DMS:	: *AT_SPD	P7, TRACK 1, FWD, TIC * 199.93 +/-	4O0	4	0	4,798,899:35:5
1170	98	361	23:36:56.466		DMS:	: *AUTOSTOP	P7, TRACK 1, FWD, TIC * 202.06 +/-	4O0	4	0	4,798,899:53:5
1171	98	361	23:36:57.666		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 202.12 +/-	4O0	4	0	4,798,899:55:3
1172	98	361	23:55:04.133	20UG4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	4O0	4	0	4,798,917:47:0
1173	98	361	23:55:54.133	20UG4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,798,918:31:0
1174	98	361	23:57:34.800	176SO6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	4,798,920:00:0
1175	98	362	00:58:20.800	488EA6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,798,980:09:0
1176	98	362	01:05:14.800	488EA6D	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,798,986:84:0
1177	98	362	01:13:37.466	488EA6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,798,995:19:0
1178	98	362	01:22:18.800	488EB6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,799,003:73:0
1179	98	362	02:24:43.466	488EB6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,799,065:48:0
1180	98	362	02:54:02.800	488EB6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,799,094:48:0
1181	98	362	02:57:02.800	488EB6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,799,097:45:0
1182	98	362	06:35:54.133	488EB6E	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,799,313:86:0
1183	98	362	06:40:10.800	488EC6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,799,318:16:0
1184	98	362	18:52:12.733	488ED6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,800,042:15:0
1185	98	362	20:40:42.733	488ED6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,800,149:43:0
1186	98	362	21:19:06.733	488ED6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,800,187:41:0
1187	98	362	21:20:13.400	488ED6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,800,188:50:0
1188	98	362	21:38:18.733	488ED6E	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,800,206:40:0
1189	98	363	05:20:21.400	488EE6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,800,663:37:0
1190	98	363	05:42:11.400	432NM6A	6RTSL1		R/T Select of DDS and	4O0	4	0	4,800,685:00:0
1191	98	363	09:54:18.733	488EE6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,800,934:32:0
1192	98	363	11:29:58.066	488EF6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,801,028:87:0
1193	98	363	11:34:34.733	488EF6B	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	4,801,033:47:0
1194	98	363	12:10:50.733	488EF6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,801,069:35:0
1195	98	363	19:07:04.666	488EG6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,801,481:04:0
1196	98	363	20:34:18.666	488EG6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,801,567:29:0
1197	98	363	21:19:06.666	488EG6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,801,611:57:0
1198	98	364	00:58:23.333	488EG6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,801,828:45:0
1199	98	364	01:07:22.666	488EH6A	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,801,837:35:0
1200	98	364	05:20:14.666	488EH6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,802,087:43:0
1201	98	364	09:54:18.666	488EI6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,802,358:48:0
1202	98	364	11:30:18.666	488EI6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,802,453:43:0
1203	98	364	11:33:30.000	488EI6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,802,456:57:0
1204	98	364	11:40:58.666	488EI6D	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	4,802,464:02:0
1205	98	364	12:17:14.666	488EI6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,802,499:81:0
1206	98	364	16:51:57.333	488EJ6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,802,771:53:0
1207	98	364	18:45:30.666	488EJ6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,802,883:81:0
1208	98	364	19:13:14.666	488EJ6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,802,911:29:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1209	98	364	20:08:42.666	488EJ6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,802,966:16:0	
1210	98	364	20:25:04.000	488EJ6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,802,982:32:0	
1211	98	364	20:58:43.333	488EK6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,803,015:58:0	
1212	98	364	21:07:10.666	176SX6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	4O0	4	0	4,803,024:00:0	
1213	98	364	21:12:00.000	20US4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,803,028:70:0	
1214	98	364	21:13:00.000	20US4D	**7MODE**	**SPNL**	AACS ALL-SPIN LOW	4O0	4	0	4,803,029:69:0	
1215	98	364	21:15:00.000	20US4E	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	4O0	4	0	4,803,031:67:0	
1216	98	364	21:20:30.000	20US4G	7VENT	0.611,1.333,8	ALERT -- Thruster fire	4O0	4	0	4,803,037:16:0	
1217	98	364	21:20:30.666	20US4H	7VENT	0.611,10.989,8	ALERT -- Thruster fire	4O0	4	0	4,803,037:17:0	
1218	98	364	21:20:50.666	20US4I	7VENT	0.611,1.333,6	ALERT -- Thruster fire	4O0	4	0	4,803,037:47:0	
1219	98	364	21:20:51.333	20US4J	7VENT	0.611,10.989,6	ALERT -- Thruster fire	4O0	4	0	4,803,037:48:0	
1220	98	364	21:21:11.333	20US4K	7VENT	0.611,1.333,4	ALERT -- Thruster fire	4O0	4	0	4,803,037:78:0	
1221	98	364	21:21:12.000	20US4L	7VENT	0.611,0.666,5	ALERT -- Thruster fire	4O0	4	0	4,803,037:79:0	
1222	98	364	21:21:22.000	20US4M	7VENT	0.611,1.333,4	ALERT -- Thruster fire	4O0	4	0	4,803,038:03:0	
1223	98	364	21:21:22.666	20US4N	7VENT	0.611,0.666,5	ALERT -- Thruster fire	4O0	4	0	4,803,038:04:0	
1224	98	364	21:21:32.666	20US4O	7VENT	1.211,1.333,10	ALERT -- Thruster fire	4O0	4	0	4,803,038:19:0	
1225	98	364	21:21:33.333	20US4P	7VENT	1.211,0.666,12	ALERT -- Thruster fire	4O0	4	0	4,803,038:20:0	
1226	98	364	21:23:20.000	20US4S	7VENT	0.611,1.333,7	ALERT -- Thruster fire	4O0	4	0	4,803,039:89:0	
1227	98	364	21:23:20.666	20US4T	7VENT	0.611,10.989,7	ALERT -- Thruster fire	4O0	4	0	4,803,039:90:0	
1228	98	364	21:23:40.666	20US4U	7VENT	0.611,1.333,1	ALERT -- Thruster fire	4O0	4	0	4,803,040:29:0	
1229	98	364	21:23:41.333	20US4V	7VENT	0.611,10.989,1	ALERT -- Thruster fire	4O0	4	0	4,803,040:30:0	
1230	98	364	21:24:01.333	20US4AC	7VENT	0.611,1.333,2	ALERT -- Thruster fire	4O0	4	0	4,803,040:60:0	
1231	98	364	21:24:02.000	20US4AD	7VENT	0.611,0.666,3	ALERT -- Thruster fire	4O0	4	0	4,803,040:61:0	
1232	98	364	21:24:12.000	20US4AE	7VENT	0.611,1.333,2	ALERT -- Thruster fire	4O0	4	0	4,803,040:76:0	
1233	98	364	21:24:12.666	20US4AF	7VENT	0.611,0.666,3	ALERT -- Thruster fire	4O0	4	0	4,803,040:77:0	
1234	98	364	21:24:22.666	20US4W	7VENT	1.211,1.333,9	ALERT -- Thruster fire	4O0	4	0	4,803,041:01:0	
1235	98	364	21:24:23.333	20US4X	7VENT	1.211,0.666,11	ALERT -- Thruster fire	4O0	4	0	4,803,041:02:0	
1236	98	364	21:25:20.000	20US4Z	**7MODE**	**CRU**	AACS CRUISE MODE	4O0	4	0	4,803,041:87:0	
1237	98	364	21:40:59.333	432OI431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	4O0	4	0	4,803,057:40:0	
1238	98	364	21:41:00.000	432OI6A	6RTSL1		R/T Select of DDS and	4O0	4	0	4,803,057:41:0	
1239	98	364	21:50:04.000	20UL4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	4O0	4	0	4,803,066:38:0	
1240	98	364	21:50:54.000	20UL4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,803,067:22:0	
1241	98	364	21:52:40.666	176SY6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	4,803,069:00:0	
1242	**98**	**364**	**23:59:02.600**	**432NN6B**	**6RTDS2**	**NIMNCG,AACDSL,RT**	**AACS DESELECT**	**4O0**	**4**	**0**	**4,803,193:89:0**	
1243	98	365	00:01:05.266	431NN6A	6RCSEL	DDSSEL,PLSNCG,EP	Record Select (DDS onl	4O0	4	0	4,803,196:00:0	
1244	98	365	00:54:34.600	488EK6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,803,248:82:0	
1245	98	365	01:11:38.600	488EK6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,803,265:71:0	
1246	98	365	02:20:05.933	488EK6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,803,333:44:0	
1247	98	365	02:45:30.600	488EK6E	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,803,358:56:0	
1248	98	365	02:51:07.266	488EL6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,803,364:15:0	
1249	98	365	06:50:29.266	488EL6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,803,600:82:0	
1250	98	365	06:55:06.600	488EL6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,803,605:43:0	
1251	98	365	12:23:11.266	488EM6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,803,929:86:0	
1252	98	365	13:27:38.600	488EM6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,803,993:63:0	
1253	98	365	13:45:09.266	488EM6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,804,011:01:0	
1254	98	365	14:18:48.600	488EM6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,804,044:27:0	
1255	98	365	18:49:46.600	488EN6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,804,312:26:0	
1256	98	365	19:21:46.600	488EN6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,804,343:85:0	
1257	98	365	20:15:11.266	488EN6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,804,396:69:0	
1258	98	365	20:48:50.600	488EN6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,804,430:04:0	
1259	99	1	00:43:08.200	488EN6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,804,661:71:0	
1260	99	1	00:52:25.533	488EO6A	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,804,670:88:0	
1261	99	1	08:04:58.866	488EP6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,805,098:70:0	
1262	99	1	09:54:17.533	488EP6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,805,206:80:0	
1263	99	1	11:21:38.866	488EP6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,805,293:25:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1264	99	1	11:23:53.533	488EP6D	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,805,295:45:0	
1265	99	2	00:53:00.866	488EQ6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,806,095:66:0	
1266	99	2	01:03:05.533	488EQ6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,806,105:63:0	
1267	99	2	02:22:01.533	488EQ6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,806,183:69:0	
1268	99	2	09:54:17.533	488ER6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,806,631:05:0	
1269	99	2	11:19:37.533	488ER6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,806,715:41:0	
1270	99	2	11:21:38.866	488ER6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,806,717:41:0	
1271	99	2	11:30:17.533	488ER6D	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	4,806,726:00:0	
1272	99	2	12:06:33.533	488ER6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,806,761:79:0	
1273	99	2	19:06:35.533	488ES6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,807,177:26:0	
1274	99	2	20:30:01.533	488ES6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,807,259:73:0	
1275	99	2	21:08:25.533	488ES6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,807,297:71:0	
1276	99	3	00:32:16.133	488ES6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,807,499:35:0	
1277	99	3	00:39:37.466	488ES6E	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,807,506:60:0	
1278	99	3	00:56:54.133	488ET6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,807,523:68:0	
1279	99	3	01:03:05.466	488ET6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,807,529:79:0	
1280	99	3	01:47:53.466	488ET6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,807,574:16:0	
1281	99	3	02:05:28.133	488ET6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,807,591:51:0	
1282	99	3	02:39:07.466	488ET6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,807,624:77:0	
1283	99	3	10:24:09.466	488EU6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,808,084:70:0	
1284	99	3	11:09:10.133	488EU6B	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,808,129:26:0	
1285	99	3	11:15:21.466	488EU6C	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	4,808,135:37:0	
1286	99	3	11:51:37.466	488EU6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,808,171:25:0	
1287	99	3	19:06:27.466	488EV6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,808,601:30:0	
1288	99	3	20:30:01.466	488EV6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,808,683:89:0	
1289	99	3	21:01:22.133	488EV6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,808,714:89:0	
1290	99	3	21:04:09.466	488EV6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,808,717:67:0	
1291	99	3	21:19:05.466	488EV6E	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,808,732:46:0	
1292	99	4	00:47:46.800	488EW6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,808,938:82:0	
1293	99	4	00:56:41.466	488EW6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,808,947:65:0	
1294	99	4	02:07:05.466	488EW6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,809,017:31:0	
1295	99	4	09:54:17.400	488EX6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,809,479:37:0	
1296	99	4	11:15:21.400	488EX6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,809,559:53:0	
1297	99	4	11:36:41.400	488EX6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,809,580:62:0	
1298	99	4	12:44:07.400	488EX6D	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,809,647:34:0	
1299	99	4	12:51:21.400	488EX6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,809,654:48:0	
1300	99	4	13:19:17.400	488EY6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,809,682:14:0	
1301	99	4	19:34:33.400	488EZ6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,810,053:27:0	
1302	99	4	20:44:57.400	488EZ6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,810,122:84:0	
1303	99	4	20:59:22.733	488EZ6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,810,137:17:0	
1304	99	4	21:16:57.400	488EZ6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,810,154:52:0	
1305	99	5	05:19:30.733	488FA6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,810,631:75:0	
1306	99	5	09:58:33.400	488FA6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,810,907:73:0	
1307	99	5	11:07:42.733	488FA6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,810,976:18:0	
1308	99	5	11:13:13.400	488FA6D	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	4,810,981:59:0	
1309	99	5	11:49:29.400	488FB6A	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,811,017:47:0	
1310	99	5	18:41:34.000	488FC6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,811,425:06:0	
1311	99	5	18:47:37.333	488FC6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,811,431:05:0	
1312	99	5	19:26:01.333	488FC6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,811,469:03:0	
1313	99	5	20:05:47.333	488FC6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,811,508:33:0	
1314	99	5	20:39:26.666	488FC6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,811,541:59:0	
1315	99	6	01:52:09.333	488FD6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,811,850:84:0	
1316	99	6	02:03:35.333	488FD6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,811,862:21:0	
1317	99	6	02:32:41.333	488FD6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,811,891:01:0	
1318	99	6	06:04:30.666	488FD6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,812,100:46:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
1319	99	6	06:08:09.333	488FD6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,812,104:10:0
1320	99	6	16:51:07.333	488FE6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,812,740:01:0
1321	99	6	20:30:01.333	488FE6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,812,956:46:0
1322	99	6	20:56:25.333	488FE6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,812,982:56:0
1323	99	6	20:59:53.333	488FE6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,812,986:04:0
1324	99	6	21:14:49.333	488FE6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,813,000:74:0
1325	99	7	00:36:05.266	488FF6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,813,199:79:0
1326	99	7	01:41:29.266	488FF6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,813,264:50:0
1327	99	7	09:58:33.266	488FG6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,813,756:14:0
1328	99	7	11:03:15.266	488FG6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,813,820:13:0
1329	99	7	11:08:57.266	488FG6C	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	4,813,825:71:0
1330	99	7	11:45:13.266	488FG6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,813,861:59:0
1331	**99**	**7**	**14:00:05.933**	**18NNRCTRLT01-**		**-----START------**		**4O0**	**4**	**0**	**: :**
1332	99	7	14:00:05.933	41XE99A	**POWER**	**PWR MODE change**	Change to Calib/Decon Mode	4O0	4	0	4,813,995:04:0
1333	**99**	**7**	**14:00:09.933**	**41XE3I**	**40T1PR**		**1 PCT Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**4,813,995:10:0**
1334	**99**	**7**	**14:00:19.933**	**41XE3J**	**40T1PR**		**2 PCT Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**4,813,995:25:0**
1335	**99**	**7**	**14:00:29.933**	**41XE3K**	**40T2R**		**1 PCT Heater 2 OFF**	**4O0**	**4**	**0**	**4,813,995:40:0**
1336	**99**	**7**	**14:00:39.933**	**41XE3L**	**40T2R**		**2 PCT Heater 2 OFF**	**4O0**	**4**	**0**	**4,813,995:55:0**
1337	99	7	14:11:10.600	176XU6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	4O0	4	0	4,814,006:00:0
1338	99	7	14:14:15.266	20XE4A	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	4O0	4	0	4,814,009:04:0
1339	99	7	14:18:21.933	20DA4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	4O0	4	0	4,814,013:10:0
1340	99	7	14:19:11.933	20DA4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,814,013:85:0
1341	99	7	14:21:17.266	176XV6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	4,814,016:00:0
1342	**99**	**7**	**14:22:17.933**	**185XE10A3A**	**40HRP**		**1 RCT Heater ON (primary relay)**	**4O0**	**4**	**0**	**4,814,017:00:0**
1343	**99**	**7**	**14:22:23.266**	**185XE10B3A**	**40HRP**		**2 RCT Heater ON (primary relay)**	**4O0**	**4**	**0**	**4,814,017:08:0**
1344	99	7	19:00:59.266	488FH6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,814,292:57:0
1345	99	7	20:23:37.266	488FH6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,814,374:32:0
1346	99	7	20:47:41.933	488FH6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,814,398:15:0
1347	99	7	20:53:29.266	488FH6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,814,403:81:0
1348	99	7	21:08:25.266	488FH6E	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,814,418:60:0
1349	99	8	00:04:11.933	488FI6A	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,814,592:46:0
1350	99	8	01:58:33.266	488FI6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,814,705:55:0
1351	99	8	02:17:04.600	125XE	NIMSINIT	GS	##### GROUP START INIT	4O0	4	0	4,814,723:84:0
1352	**99**	**8**	**02:17:04.600**	**125XE4A**	**37IST**	**1,0,0,OFF,0,0,0**	**Chopper ON, Sync, 63Hz (Ref)**	**460**	**4**	**0**	**4,814,723:84:0**
1353	99	8	02:17:45.266	488FI6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	460	4	0	4,814,724:54:0
1354	**99**	**8**	**02:18:05.266**	**125XE4B**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**4R0**	**4**	**0**	**4,814,724:84:0**
1355	**99**	**8**	**02:19:05.933**	**125XE4C**	**37IST**	**0,2,0,OFF,0,1,3**	**Gain State 1**	**1R0**	**4**	**0**	**4,814,725:84:0**
1356	99	8	02:20:06.600	125XE11A	NIMSINIT	GE	##### GROUP END INIT	1R0	4	0	4,814,726:84:0
1357	**99**	**8**	**02:20:06.600**	**125XE4D**	**37MB**	**1B,1B,0,0,0,0**	**Selects mirror (spatial) edit table**	**1R0**	**4**	**0**	**4,814,726:84:0**
1358	**99**	**8**	**02:22:07.933**	**127XE4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**1R3**	**4**	**0**	**4,814,728:84:0**
1359	99	8	02:22:07.933	127XE	NIMSTAB	GS	%%%%% GROUP START TAB	1R3	4	0	4,814,728:84:0
1360	**99**	**8**	**02:22:08.600**	**127XE4B**	**37ETB**	**0A,CA,18,03,FF,1**	**Loads wavelength edit table**	**1R3**	**4**	**0**	**4,814,728:85:0**
1361	99	8	02:22:15.266	127XE11A	NIMSTAB	GE	%%%%% GROUP END TAB	1R3	4	0	4,814,729:04:0
1362	99	8	02:26:15.266	176XE6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	1R3	4	0	4,814,733:00:0
1363	99	8	02:32:19.266	192XE4A	**7CONE**	**17.0,119.7**	Check S/P Position	1R3	4	0	4,814,739:00:0
1364	**99**	**8**	**02:34:40.600**	**432XE6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**	**NIMS R/T SELECT**	**1R3**	**4**	**0**	**4,814,741:30:0**
1365	**99**	**8**	**02:35:39.933**	**432XF6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**1R3**	**4**	**0**	**4,814,742:28:0**
1366	99	8	02:38:23.266	192XE4B	**7CONE**	**17.0,0.0**	Check S/P Position	1R3	4	0	4,814,745:00:0
1367	**99**	**8**	**02:40:44.600**	**432XU6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**	**NIMS R/T SELECT**	**1R3**	**4**	**0**	**4,814,747:30:0**
1368	**99**	**8**	**02:42:44.600**	**432XV6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**1R3**	**4**	**0**	**4,814,749:28:0**
1369	99	8	02:44:27.266	192XE4C	**7CONE**	**17.0,119.7**	Check S/P Position	1R3	4	0	4,814,751:00:0
1370	**99**	**8**	**02:46:28.600**	**185XE10C3A**	**40HRPR**		**1 RCT Heater OFF (primary relay)**	**1R3**	**4**	**0**	**4,814,753:00:0**
1371	**99**	**8**	**02:46:33.933**	**185XE10D3A**	**40HRPR**		**2 RCT Heater OFF (primary relay)**	**1R3**	**4**	**0**	**4,814,753:08:0**
1372	**99**	**8**	**02:46:48.600**	**432XW6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**	**NIMS R/T SELECT**	**1R3**	**4**	**0**	**4,814,753:30:0**
1373	**99**	**8**	**02:47:47.933**	**432XY6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**1R3**	**4**	**0**	**4,814,754:28:0**

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
1374	99	8	02:49:25.933	125DC11A	NIMSINIT	GE	##### GROUP END INIT	1R3	4	0	4,814,755:84:0
1375	99	8	02:49:25.933	125DC4A	37IST	0,2,0,OFF,0,1,1	Gain State 4	4R3	4	0	4,814,755:84:0
1376	99	8	02:49:25.933	125DC	NIMSINIT	GS	##### GROUP START INIT	4R3	4	0	4,814,755:84:0
1377	99	8	02:50:26.600	127DC	NIMSTAB	GS	%%%%% GROUP START TAB	4R3	4	0	4,814,756:84:0
1378	99	8	02:50:26.600	127DC4A	37IOP	3,0	Long Map, Grating Start Position =00	4R3	4	0	4,814,756:84:0
1379	99	8	02:50:27.266	127DC4B	37ETB	07,C7,31,80,00,0	Loads wavelength edit table	4R3	4	0	4,814,756:85:0
1380	99	8	02:50:31.266	192XE4D	7CONE	17.0,153.0	Check S/P Position	4R3	4	0	4,814,757:00:0
1381	99	8	02:50:33.933	127DC11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	4,814,757:04:0
1382	99	8	02:50:51.266	432DC6A	6RTSL2	NIMSEL,AACNCG,RT	NIMS R/T SELECT	4R3	4	0	4,814,757:30:0
1383	99	8	02:51:27.266	125DD11A	NIMSINIT	GE	##### GROUP END INIT	4R3	4	0	4,814,757:84:0
1384	99	8	02:51:27.266	125DD	NIMSINIT	GS	##### GROUP START INIT	4R3	4	0	4,814,757:84:0
1385	99	8	02:51:27.266	125DD4A	37IST	0,2,1,OFF,1,0,1	OPCAL	4R3	4	0	4,814,757:84:0
1386	99	8	02:53:28.600	125DE11A	NIMSINIT	GE	##### GROUP END INIT	4R3	4	0	4,814,759:84:0
1387	99	8	02:53:28.600	125DE	NIMSINIT	GS	##### GROUP START INIT	4R3	4	0	4,814,759:84:0
1388	99	8	02:53:28.600	125DE4A	37IST	0,2,1,OFF,1,0,1	OPCAL	4R3	4	0	4,814,759:84:0
1389	99	8	02:53:51.933	432DE6A	6RTDS2	NIMDSL,AACNCG,RT	NIMS R/T DESELECT	4R3	4	0	4,814,760:28:0
1390	99	8	02:57:31.266	127XF4A	37IOP	0,0	Safe, Grating Start Position =00	4R0	4	0	4,814,763:84:0
1391	99	8	02:57:31.266	127XF	NIMSTAB	GS	%%%%% GROUP START TAB	4R0	4	0	4,814,763:84:0
1392	99	8	02:57:31.933	127XF4B	37ETB	04,C4,02,00,00	Loads wavelength edit table	4R0	4	0	4,814,763:85:0
1393	99	8	02:57:38.600	127XF11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R0	4	0	4,814,764:04:0
1394	99	8	03:00:33.266	125XF	NIMSINIT	GS	##### GROUP START INIT	4R0	4	0	4,814,766:84:0
1395	99	8	03:00:33.266	125XF4A	37MB	0,0,0,0,0,0	Selects mirror (spatial) edit table	4R0	4	0	4,814,766:84:0
1396	99	8	03:01:33.933	125XF4B	37IST	1,0,0,OFF,0,0,0	Chopper ON, Sync, 63Hz (Ref)	460	4	0	4,814,767:84:0
1397	99	8	03:02:34.600	125XF11A	NIMSINIT	GE	##### GROUP END INIT	460	4	0	4,814,768:84:0
1398	99	8	03:02:34.600	125XF4C	37IST	1,1,0,OFF,0,0,0	Chopper OFF, N/A, 63Hz (Ref)	4O0	4	0	4,814,768:84:0
1399	99	8	03:08:45.933	41XU99A	POWER	PWR MODE change	Change to Maneuver/Playback Mode	4O0	4	0	4,814,775:04:0
1400	99	8	03:10:39.933	41XU3G	40T1P	1	PCT Heater 1 ON (primary relay)	4O0	4	0	4,814,776:84:0
1401	99	8	03:10:49.933	41XU3H	40T1P	2	PCT Heater 1 ON (primary relay)	4O0	4	0	4,814,777:08:0
1402	99	8	03:10:59.933	41XU3I	40T2	1	PCT Heater 2 ON	4O0	4	0	4,814,777:23:0
1403	99	8	03:11:09.933	41XU3J	40T2	2	PCT Heater 2 ON	4O0	4	0	4,814,777:38:0
1404	99	8	03:15:50.599	18NNRCTRLT01-		-----STOP-------		4O0	4	0	: :
1405	99	8	03:18:56.600	20DB4A	7SAFE	STOP	S/P NO MOVEMENT	4O0	4	0	4,814,785:10:0
1406	99	8	03:19:46.600	20DB4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,814,785:85:0
1407	99	8	03:21:51.933	176XF6A	6TMREC	RPB	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	4,814,788:00:0
1408	99	8	09:58:33.200	488FJ6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,815,180:30:0
1409	99	8	10:58:49.200	488FJ6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,815,239:85:0
1410	99	8	11:04:41.200	488FJ6C	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	4,815,245:67:0
1411	99	8	11:40:57.200	488FJ6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,815,281:55:0
1412	99	8	15:05:54.533	488FJ6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,815,484:28:0
1413	99	8	15:14:59.866	488FK6A	6TMSED	NORM,AH4	Sci, Eng, and D/L Chan	4O0	4	0	4,815,493:27:0
1414	99	8	15:18:44.533	176TC6A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	4O0	4	0	4,815,497:00:0
1415	99	8	15:44:29.866	20SY4I	7MODE	INT	AACS INERTIAL MODE	4O0	4	0	4,815,522:43:0
1416	99	8	15:59:29.866	20SY4K	7SLEW	INIT,POS,17.45	Stator movement	4O0	4	0	4,815,537:28:0
1417	99	8	16:11:29.866	20SY4L	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,815,549:16:0
1418	99	8	16:18:29.866	20SY4M	7SLEW	INIT,NEG,17.45	Stator movement	4O0	4	0	4,815,556:09:0
1419	99	8	16:30:29.866	20SY4N	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,815,567:88:0
1420	99	8	16:37:29.866	20SY4O	7SLEW	INIT,POS,4.36	Stator movement	4O0	4	0	4,815,574:81:0
1421	99	8	16:49:29.866	20SY4P	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,815,586:69:0
1422	99	8	16:56:29.866	20SY4Q	7SLEW	INIT,NEG,4.36	Stator movement	4O0	4	0	4,815,593:62:0
1423	99	8	17:08:29.866	20SY4R	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,815,605:50:0
1424	99	8	17:20:29.866	20SY4AH	7MODE	CRU	AACS CRUISE MODE	4O0	4	0	4,815,617:38:0
1425	99	8	17:34:03.866	20SK4A	7SAFE	STOP	S/P NO MOVEMENT	4O0	4	0	4,815,630:76:0
1426	99	8	17:34:53.866	20SK4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,815,631:60:0
1427	99	8	17:36:15.200	176TD6A	6TMREC	RPB	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	4,815,633:00:0
1428	99	8	17:37:59.866	488FK6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,815,634:66:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1429	99	8	18:13:29.200	488FK6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,815,669:75:0	
1430	99	8	18:41:13.200	488FK6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,815,697:23:0	
1431	99	8	19:11:05.200	488FK6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,815,726:72:0	
1432	99	8	19:56:08.533	488FL6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,815,771:32:0	
1433	99	8	20:29:47.200	488FL6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,815,804:57:0	
1434	99	9	00:12:12.533	488FL6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,816,024:55:0	
1435	99	9	00:30:51.200	488FL6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,816,043:04:0	
1436	99	9	01:30:49.200	488FL6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,816,102:32:0	
1437	99	9	01:43:55.200	488FM6A	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,816,115:28:0	
1438	99	9	02:13:01.866	488FM6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,816,144:09:0	
1439	99	9	09:58:33.200	488FN6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,816,604:46:0	
1440	99	9	10:53:40.533	488FN6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,816,659:02:0	
1441	99	9	10:58:17.200	488FN6C	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	4,816,663:53:0	
1442	99	9	11:34:33.200	488FN6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,816,699:41:0	
1443	99	9	19:05:46.466	488FO6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,817,145:65:0	
1444	99	9	20:23:37.133	488FO6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,817,222:64:0	
1445	99	9	20:47:33.133	488FO6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,817,246:34:0	
1446	99	9	20:53:29.133	488FO6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,817,252:22:0	
1447	99	9	21:08:25.133	488FO6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,817,267:01:0	
1448	99	10	02:40:44.466	488FP6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,817,595:62:0	
1449	99	10	04:12:57.133	488FP6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,817,686:80:0	
1450	99	10	04:19:59.800	488FP6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,817,693:77:0	
1451	99	10	04:32:09.133	488FP6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,817,705:79:0	
1452	99	10	09:18:55.800	488FQ6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,817,989:45:0	
1453	99	10	09:58:33.133	488FQ6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,818,028:62:0	
1454	99	10	10:52:39.133	488FQ6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,818,082:17:0	
1455	99	10	10:58:17.133	488FQ6D	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	4,818,087:69:0	
1456	99	10	11:34:33.133	488FQ6E	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,818,123:57:0	
1457	99	10	18:26:01.133	488FR6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,818,530:52:0	
1458	99	10	18:30:33.133	488FR6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,818,535:05:0	
1459	99	10	18:56:09.133	488FR6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,818,560:34:0	
1460	99	10	19:46:21.133	488FR6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,818,610:02:0	
1461	99	10	20:20:00.466	488FR6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,818,643:28:0	
1462	99	11	00:11:59.066	488FS6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,818,872:67:0	
1463	99	11	00:20:25.066	488FS6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,818,881:07:0	
1464	99	11	02:13:50.400	488FS6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,818,993:23:0	
1465	99	11	04:25:45.066	488FS6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,819,123:65:0	
1466	99	11	06:52:57.066	488FT6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,819,269:27:0	
1467	99	11	09:58:33.066	488FT6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,819,452:78:0	
1468	99	11	10:48:13.066	488FT6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,819,501:89:0	
1469	99	11	10:54:01.066	488FT6D	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	4,819,507:65:0	
1470	99	11	11:30:17.066	488FT6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,819,543:53:0	
1471	99	11	18:50:33.733	488FU6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,819,979:02:0	
1472	99	11	20:19:21.066	488FU6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,820,066:76:0	
1473	99	11	20:39:33.733	488FU6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,820,086:75:0	
1474	99	11	20:49:13.066	488FU6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,820,096:34:0	
1475	99	11	21:04:09.066	488FU6E	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,820,111:13:0	
1476	99	12	05:17:50.400	488FV6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,820,599:37:0	
1477	99	12	07:22:49.000	488FV6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,820,723:01:0	
1478	99	12	09:58:33.000	488FV6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,820,877:03:0	
1479	99	12	10:45:44.333	488FV6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,820,923:64:0	
1480	99	12	10:47:37.000	488FV6E	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,820,925:51:0	
1481	99	12	18:10:47.666	488FW6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,821,363:79:0	
1482	99	12	18:15:37.000	488FW6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,821,368:58:0	
1483	99	12	18:45:29.000	488FW6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,821,398:16:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
1484	99	12	19:41:34.333	488FW6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,821,453:59:0
1485	99	12	20:15:13.666	488FW6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,821,486:85:0
1486	99	13	01:05:13.000	488FX6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,821,773:67:0
1487	99	13	01:39:21.666	488FX6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,821,807:46:0
1488	99	13	02:08:27.666	488FX6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,821,836:26:0
1489	99	13	03:21:45.000	488FX6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,821,908:70:0
1490	99	13	04:05:17.000	488FX6E	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,821,951:75:0
1491	99	13	04:08:41.000	488FY6A	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,821,955:17:0
1492	99	13	18:16:40.266	488FZ6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,822,793:78:0
1493	99	13	18:26:16.933	488FZ6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,822,803:33:0
1494	99	13	19:51:36.933	488FZ6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,822,887:69:0
1495	99	14	00:28:56.933	488GA6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,823,162:04:0
1496	99	14	00:56:40.933	488GA6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,823,189:43:0
1497	99	14	03:06:48.933	488GA6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,823,318:16:0
1498	99	14	07:52:40.933	488GB6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,823,600:82:0
1499	99	14	09:52:08.933	488GB6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,823,719:05:0
1500	99	14	10:37:36.933	488GB6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,823,764:02:0
1501	99	14	10:43:20.933	488GB6D	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	4,823,769:63:0
1502	99	14	11:19:36.933	488GB6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,823,805:51:0
1503	99	14	16:35:15.600	488GC6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,824,117:67:0
1504	99	14	18:01:46.266	488GC6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,824,203:27:0
1505	99	14	18:35:25.600	488GC6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,824,236:53:0
1506	99	14	19:43:04.933	488GC6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,824,303:45:0
1507	99	14	20:27:52.933	488GC6E	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,824,347:73:0
1508	99	14	20:28:16.266	488GD6A	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,824,348:17:0
1509	99	14	20:44:56.933	488GD6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,824,364:62:0
1510	99	15	00:10:13.533	488GD6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,824,567:64:0
1511	99	15	00:50:16.866	488GD6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,824,607:29:0
1512	99	15	02:45:28.866	488GE6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,824,721:23:0
1513	99	15	07:59:04.866	488GE6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,825,031:37:0
1514	99	15	09:52:08.866	488GF6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,825,143:21:0
1515	99	15	10:36:18.866	488GF6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,825,186:83:0
1516	99	15	10:39:04.866	488GF6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,825,189:59:0
1517	99	15	10:54:00.866	488GF6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,825,204:38:0
1518	99	15	14:18:22.866	488GF6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,825,406:49:0
1519	99	15	17:32:56.866	488GG6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,825,598:88:0
1520	99	15	19:36:40.866	488GG6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,825,721:31:0
1521	99	15	23:58:51.533	488GH6A	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,825,980:58:0
1522	99	16	00:03:20.866	488GH6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,825,985:07:0
1523	99	16	00:10:07.533	488GH6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,825,991:71:0
1524	99	16	00:46:00.866	488GH6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,826,027:25:0
1525	99	16	02:41:12.866	488GH6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,826,141:19:0
1526	99	16	07:59:04.800	488GI6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,826,455:53:0
1527	99	16	09:52:08.800	488GI6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,826,567:37:0
1528	99	16	10:32:40.800	488GI6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,826,607:45:0
1529	99	16	10:49:44.800	488GI6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,826,624:34:0
1530	99	16	11:21:44.800	488GI6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,826,656:02:0
1531	99	16	12:01:56.133	488GJ6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,826,695:70:0
1532	99	16	12:35:35.466	488GJ6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,826,729:05:0
1533	99	16	19:38:48.800	488GK6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,827,147:57:0
1534	99	16	20:14:18.800	488GK6B	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,827,182:67:0
1535	99	16	20:25:44.800	488GK6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,827,194:04:0
1536	99	17	00:05:01.466	488GK6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,827,410:83:0
1537	99	17	00:46:00.800	488GK6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,827,451:41:0
1538	99	17	02:34:48.800	488GL6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,827,559:05:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1539	99	17	07:56:56.800	488GL6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,827,877:59:0	
1540	99	17	09:47:52.800	488GM6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,827,987:33:0	
1541	99	17	10:28:24.800	488GM6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,828,027:41:0	
1542	99	17	10:45:28.800	488GM6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,828,044:30:0	
1543	99	17	13:25:28.800	488GM6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,828,202:52:0	
1544	99	17	17:28:40.733	488GN6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,828,443:09:0	
1545	99	17	20:08:40.733	488GN6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,828,601:31:0	
1546	99	17	20:24:56.066	488GN6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,828,617:38:0	
1547	99	17	20:27:52.733	488GN6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,828,620:30:0	
1548	99	17	20:42:48.733	488GN6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,828,635:09:0	
1549	99	17	23:59:55.400	488GO6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,828,830:04:0	
1550	99	18	00:00:00.066	481UC4A	7VECT		Inert vect update UTC	4O0	4	0	4,828,830:11:0	
1551	99	18	00:39:36.733	488GO6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,828,869:27:0	
1552	99	18	02:30:32.733	488GO6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,828,979:01:0	
1553	99	18	07:56:56.733	488GP6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,829,301:75:0	
1554	99	18	09:43:36.733	488GP6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,829,407:29:0	
1555	99	18	10:28:24.733	488GP6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,829,451:57:0	
1556	99	18	10:45:28.733	488GP6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,829,468:46:0	
1557	99	18	11:15:20.733	488GP6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,829,498:04:0	
1558	99	18	11:57:08.066	488GQ6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,829,539:34:0	
1559	99	18	12:30:47.400	488GQ6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,829,572:60:0	
1560	99	18	19:32:24.733	488GR6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,829,989:59:0	
1561	99	18	20:12:56.733	488GR6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,830,029:67:0	
1562	99	18	20:13:01.400	488GR6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,830,029:74:0	
1563	99	18	20:30:00.733	488GR6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,830,046:56:0	
1564	99	19	05:17:08.000	488GS6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,830,567:86:0	
1565	99	19	07:52:40.666	488GS6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,830,721:71:0	
1566	99	19	09:02:43.333	488GS6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,830,791:05:0	
1567	99	19	09:07:20.666	488GS6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,830,795:57:0	
1568	99	19	17:50:06.000	488GT6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,831,312:58:0	
1569	99	19	17:56:24.666	488GT6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,831,318:80:0	
1570	99	19	18:15:36.666	488GT6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,831,337:79:0	
1571	99	19	19:17:15.333	488GT6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,831,398:76:0	
1572	99	19	19:50:54.666	488GT6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,831,432:11:0	
1573	99	19	21:35:00.000	488GU6A	6TMSED	NORM,AH4	Sci, Eng, and D/L Chan	4O0	4	0	4,831,535:06:0	
1574	99	19	21:38:58.666	176NV6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	4O0	4	0	4,831,539:00:0	
1575	99	19	22:09:00.000	20SV4I	**7MODE**	**INT**	AACS INERTIAL MODE	4O0	4	0	4,831,568:63:0	
1576	99	19	22:24:00.000	20SV4K	7SLEW	INIT,POS,17.45	Stator movement	4O0	4	0	4,831,583:48:0	
1577	99	19	22:36:00.000	20SV4L	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,831,595:36:0	
1578	99	19	22:43:00.000	20SV4M	7SLEW	INIT,NEG,17.45	Stator movement	4O0	4	0	4,831,602:29:0	
1579	99	19	22:55:00.000	20SV4N	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,831,614:17:0	
1580	99	19	23:07:00.000	20SV4AH	**7MODE**	**CRU**	AACS CRUISE MODE	4O0	4	0	4,831,626:05:0	
1581	99	19	23:23:04.000	20SU4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	4O0	4	0	4,831,641:86:0	
1582	99	19	23:23:54.000	20SU4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,831,642:70:0	
1583	99	19	23:24:08.000	176TE6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	4,831,643:00:0	
1584	99	19	23:41:04.000	488GU6B	6TMSED	FILL,AH4	Sci, Eng, and D/L Chan	4O0	4	0	4,831,659:68:0	
1585	99	19	23:43:00.000	488GU6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,831,661:60:0	
1586	99	19	23:54:44.666	488GU6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,831,673:25:0	
1587	99	20	00:35:20.666	488GU6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,831,713:39:0	
1588	99	20	01:15:03.333	488GV6A	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,831,752:64:0	
1589	99	20	01:44:09.333	488GV6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,831,781:44:0	
1590	99	20	02:19:52.666	488GV6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,831,816:74:0	
1591	99	20	04:44:02.666	488GV6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,831,959:36:0	
1592	99	20	04:47:04.666	488GV6E	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,831,962:36:0	
1593	99	20	17:46:00.600	488GW6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,832,732:70:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1594	99	20	17:56:24.600	488GW6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,832,743:05:0	
1595	99	20	19:19:36.600	488GW6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,832,825:31:0	
1596	99	20	19:57:41.266	176TJ6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	4O0	4	0	4,832,863:00:0	
1597	99	20	20:01:59.933	20UT4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,832,867:24:0	
1598	99	20	20:02:59.933	20UT4D	**7MODE**	**SPNL**	AACS ALL-SPIN LOW	4O0	4	0	4,832,868:23:0	
1599	99	20	20:04:59.933	20UT4E	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	4O0	4	0	4,832,870:21:0	
1600	99	20	20:10:29.933	20UT4G	7VENT	0.611,1.333,8	ALERT -- Thruster fire	4O0	4	0	4,832,875:61:0	
1601	99	20	20:10:30.600	20UT4H	7VENT	0.611,10.989,8	ALERT -- Thruster fire	4O0	4	0	4,832,875:62:0	
1602	99	20	20:10:50.600	20UT4I	7VENT	0.611,1.333,6	ALERT -- Thruster fire	4O0	4	0	4,832,876:01:0	
1603	99	20	20:10:51.266	20UT4J	7VENT	0.611,10.989,6	ALERT -- Thruster fire	4O0	4	0	4,832,876:02:0	
1604	99	20	20:11:11.266	20UT4K	7VENT	0.611,1.333,4	ALERT -- Thruster fire	4O0	4	0	4,832,876:32:0	
1605	99	20	20:11:11.933	20UT4L	7VENT	0.611,0.666,5	ALERT -- Thruster fire	4O0	4	0	4,832,876:33:0	
1606	99	20	20:11:21.933	20UT4M	7VENT	0.611,1.333,4	ALERT -- Thruster fire	4O0	4	0	4,832,876:48:0	
1607	99	20	20:11:22.600	20UT4N	7VENT	0.611,0.666,5	ALERT -- Thruster fire	4O0	4	0	4,832,876:49:0	
1608	99	20	20:11:32.600	20UT4O	7VENT	1.211,1.333,10	ALERT -- Thruster fire	4O0	4	0	4,832,876:64:0	
1609	99	20	20:11:33.266	20UT4P	7VENT	1.211,0.666,12	ALERT -- Thruster fire	4O0	4	0	4,832,876:65:0	
1610	99	20	20:13:19.933	20UT4S	7VENT	0.611,1.333,7	ALERT -- Thruster fire	4O0	4	0	4,832,878:43:0	
1611	99	20	20:13:20.600	20UT4T	7VENT	0.611,10.989,7	ALERT -- Thruster fire	4O0	4	0	4,832,878:44:0	
1612	99	20	20:13:40.600	20UT4U	7VENT	0.611,1.333,1	ALERT -- Thruster fire	4O0	4	0	4,832,878:74:0	
1613	99	20	20:13:41.266	20UT4V	7VENT	0.611,10.989,1	ALERT -- Thruster fire	4O0	4	0	4,832,878:75:0	
1614	99	20	20:14:01.266	20UT4AC	7VENT	0.611,1.333,2	ALERT -- Thruster fire	4O0	4	0	4,832,879:14:0	
1615	99	20	20:14:01.933	20UT4AD	7VENT	0.611,0.666,3	ALERT -- Thruster fire	4O0	4	0	4,832,879:15:0	
1616	99	20	20:14:11.933	20UT4AE	7VENT	0.611,1.333,2	ALERT -- Thruster fire	4O0	4	0	4,832,879:30:0	
1617	99	20	20:14:12.600	20UT4AF	7VENT	0.611,0.666,3	ALERT -- Thruster fire	4O0	4	0	4,832,879:31:0	
1618	99	20	20:14:22.600	20UT4W	7VENT	1.211,1.333,9	ALERT -- Thruster fire	4O0	4	0	4,832,879:46:0	
1619	99	20	20:14:23.266	20UT4X	7VENT	1.211,0.666,11	ALERT -- Thruster fire	4O0	4	0	4,832,879:47:0	
1620	99	20	20:15:19.933	20UT4Z	**7MODE**	**CRU**	AACS CRUISE MODE	4O0	4	0	4,832,880:41:0	
1621	99	20	20:40:03.933	20UU4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	4O0	4	0	4,832,904:83:0	
1622	99	20	20:40:53.933	20UU4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,832,905:67:0	
1623	99	20	20:42:10.600	176TK6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	4,832,907:00:0	
1624	99	21	02:19:52.600	488GX6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,833,240:90:0	
1625	99	21	07:48:24.600	488GX6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,833,565:83:0	
1626	99	21	09:32:56.600	488GY6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,833,669:27:0	
1627	99	21	10:15:21.266	488GY6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,833,711:22:0	
1628	99	21	10:17:44.600	488GY6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,833,713:55:0	
1629	99	21	10:32:40.600	488GY6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,833,728:34:0	
1630	99	21	15:17:48.533	488GY6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,834,010:34:0	
1631	99	21	16:52:59.866	488GZ6A	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	4O0	4	0	4,834,104:47:0	
1632	99	21	16:56:40.533	488GZ6B	6TMSED	NORM,AH4	Sci, Eng, and D/L Chan	4O0	4	0	4,834,108:14:0	
1633	99	21	16:57:31.866	176TH6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	4O0	4	0	4,834,109:00:0	
1634	99	21	17:05:59.866	20WD4C	7STAT	17.45,178.14,2.2	Stator inertial point	4O0	4	0	4,834,117:34:0	
1635	99	21	17:25:01.866	490UB412A4B	**7MODE**	**INT**	AACS INERTIAL MODE	4O0	4	0	4,834,136:18:0	
1636	99	21	17:29:59.866	490UB412A4D	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	4O0	4	0	4,834,141:10:0	
1637	99	21	17:30:19.866	20WD4D	7STAT	17.45,178.14,2.2	Stator inertial point	4O0	4	0	4,834,141:40:0	
1638	99	21	17:34:09.866	490UB412A4E	7VECT		Inert vect update UTC	4O0	4	0	4,834,145:21:0	
1639	99	21	17:34:13.866	490UB412A4F	7TURN	2,RTH	ALERT Thruster	4O0	4	0	4,834,145:27:0	
1640	99	21	17:38:01.866	490UB412A406A4A	7STAR	16,217,100.73	Star catalog update	4O0	4	0	4,834,149:05:0	
1641	99	21	17:38:03.866	490UB412A406A4B	7STAR	2,125,259.73	Star catalog update	4O0	4	0	4,834,149:08:0	
1642	99	21	17:38:05.866	490UB412A406A4C	7STAR	3,130,228.55	Star catalog update	4O0	4	0	4,834,149:11:0	
1643	99	21	17:38:07.866	490UB412A406A4D	7STAR	4,371,138.16,-69	Star catalog update	4O0	4	0	4,834,149:14:0	
1644	99	21	17:38:09.866	490UB412A406A4E	7STAR	5,0,0.0,0.0	Star catalog update	4O0	4	0	4,834,149:17:0	
1645	99	21	17:38:11.866	490UB412A406A4F	7STAR	6,0,0.0,0.0	Star catalog update	4O0	4	0	4,834,149:20:0	
1646	99	21	17:48:05.866	20WD4F	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,834,159:01:0	
1647	99	21	17:56:09.866	490UB412A4G	**7MODE**	**CRU**	AACS CRUISE MODE	4O0	4	0	4,834,166:90:0	
1648	99	21	19:24:59.866	488GZ6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,834,254:77:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1649	99	21	19:30:03.866	20TB4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	4O0	4	0	4,834,259:78:0	
1650	99	21	19:30:53.866	20TB4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,834,260:62:0	
1651	99	21	19:32:13.866	176TI6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	4,834,262:00:0	
1652	99	21	19:43:04.533	488GZ6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,834,272:66:0	
1653	99	21	20:06:36.533	488GZ6E	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,834,296:00:0	
1654	99	21	20:12:56.533	488HA6A	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,834,302:24:0	
1655	99	21	20:27:52.533	488HA6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,834,317:03:0	
1656	99	22	00:02:46.533	488HA6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,834,529:52:0	
1657	99	22	01:32:56.533	488HA6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,834,618:68:0	
1658	99	22	04:02:28.533	488HB6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,834,766:58:0	
1659	99	22	04:36:07.200	488HB6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,834,799:83:0	
1660	99	22	09:26:32.533	488HB6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,835,087:13:0	
1661	99	22	10:01:12.533	488HB6D	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,835,121:39:0	
1662	99	22	10:07:04.533	488HC6A	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	4,835,127:21:0	
1663	99	22	10:43:20.533	488HC6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,835,163:09:0	
1664	99	22	13:04:30.533	488HC6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,835,302:65:0	
1665	99	22	19:36:40.533	488HD6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,835,690:52:0	
1666	99	22	20:04:09.200	488HD6B	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,835,717:68:0	
1667	99	22	20:06:32.533	488HD6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,835,720:10:0	
1668	99	22	20:21:28.533	488HD6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,835,734:80:0	
1669	99	22	23:44:28.466	488HD6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,835,935:59:0	
1670	99	23	00:39:36.466	488HE6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,835,990:16:0	
1671	99	23	03:30:16.466	488HE6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,836,158:88:0	
1672	99	23	06:27:20.466	488HE6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,836,334:08:0	
1673	99	23	09:11:36.466	488HF6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,836,496:50:0	
1674	99	23	10:05:50.466	488HF6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,836,550:17:0	
1675	99	23	10:11:20.466	488HF6C	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	4,836,555:57:0	
1676	99	23	10:47:36.466	488HF6D	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,836,591:45:0	
1677	99	23	17:35:44.466	488HG6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,836,995:13:0	
1678	99	23	17:45:44.466	488HG6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,837,005:03:0	
1679	99	23	19:40:56.466	488HG6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,837,118:88:0	
1680	99	23	23:37:44.466	488HH6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,837,353:15:0	
1681	99	24	00:35:20.466	488HH6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,837,410:12:0	
1682	99	24	03:11:04.466	488HH6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,837,564:14:0	
1683	99	24	06:38:00.400	488HI6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,837,768:74:0	
1684	99	24	09:11:36.400	488HI6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,837,920:66:0	
1685	99	24	10:01:25.066	488HI6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,837,969:90:0	
1686	99	24	10:07:04.400	488HI6D	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	4,837,975:53:0	
1687	99	24	10:43:20.400	488HI6E	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,838,011:41:0	
1688	99	24	11:10:41.733	488HJ6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,838,038:46:0	
1689	99	24	11:19:36.400	488HJ6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,838,047:29:0	
1690	99	24	12:37:40.400	488HJ6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,838,124:48:0	
1691	99	24	13:11:19.733	488HJ6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,838,157:74:0	
1692	99	24	18:51:52.400	488HK6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,838,494:56:0	
1693	99	24	19:47:20.400	488HK6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,838,549:43:0	
1694	99	24	19:57:21.733	488HK6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,838,559:35:0	
1695	99	24	20:15:04.400	488HK6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,838,576:82:0	
1696	99	24	23:39:18.400	488HK6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,838,778:81:0	
1697	99	25	00:31:04.400	488HL6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,838,830:08:0	
1698	99	25	02:54:00.400	488HL6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,838,971:41:0	
1699	99	25	06:46:32.400	488HM6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,839,201:39:0	
1700	99	25	09:07:20.400	488HM6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,839,340:62:0	
1701	99	25	10:02:48.400	488HM6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,839,395:49:0	
1702	99	25	10:19:52.400	488HM6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,839,412:38:0	
1703	99	25	11:08:56.400	488HM6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,839,460:86:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1704	99	25	11:32:44.400	488HN6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,839,484:44:0	
1705	99	25	12:06:23.733	488HN6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,839,517:70:0	
1706	99	25	18:51:52.333	488HO6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,839,918:72:0	
1707	99	25	19:47:20.333	488HO6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,839,973:59:0	
1708	99	25	19:57:16.333	488HO6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,839,983:43:0	
1709	99	25	20:15:04.333	488HO6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,840,001:07:0	
1710	99	26	05:16:32.333	488HP6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,840,536:54:0	
1711	99	26	06:52:56.333	488HP6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,840,631:85:0	
1712	99	26	09:07:20.333	488HP6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,840,764:78:0	
1713	99	26	09:54:29.000	488HP6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,840,811:44:0	
1714	99	26	09:56:24.333	488HP6E	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,840,813:35:0	
1715	99	26	17:24:31.000	488HQ6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,841,256:52:0	
1716	99	26	17:30:48.333	488HQ6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,841,262:72:0	
1717	99	26	18:00:40.333	488HQ6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,841,292:30:0	
1718	99	26	18:52:50.333	488HQ6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,841,343:84:0	
1719	99	26	19:26:29.666	488HQ6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,841,377:19:0	
1720	99	27	00:20:24.266	488HR6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,841,667:81:0	
1721	99	27	01:00:37.600	488HR6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,841,707:61:0	
1722	99	27	01:29:43.600	488HR6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,841,736:41:0	
1723	99	27	02:34:48.266	488HR6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,841,800:74:0	
1724	99	27	04:43:35.600	488HR6E	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,841,928:17:0	
1725	99	27	04:47:04.266	488HS6A	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,841,931:57:0	
1726	99	27	17:19:26.933	488HT6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,842,675:67:0	
1727	99	27	17:24:24.266	488HT6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,842,680:58:0	
1728	99	27	17:54:16.266	488HT6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,842,710:16:0	
1729	99	27	18:47:54.266	488HT6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,842,763:20:0	
1730	99	27	18:59:48.266	432MC431A6A	6RCDSL	DDSDSL,PLSNCG,EP	Record Deselect (DDS o	4O0	4	0	4,842,774:90:0	
1731	99	27	18:59:48.933	432MC6A	6RTSL1		R/T Select of DDS and	4O0	4	0	4,842,775:00:0	
1732	99	27	19:21:33.600	488HT6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,842,796:46:0	
1733	99	28	00:20:24.266	488HU6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,843,092:06:0	
1734	99	28	00:55:41.600	488HU6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,843,126:88:0	
1735	99	28	01:24:47.600	488HU6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,843,155:68:0	
1736	99	28	02:30:32.266	488HU6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,843,220:70:0	
1737	99	28	03:00:00.266	481UA4A	7VECT	BB1	Inert vect update UTC	4O0	4	0	4,843,249:83:0	
1738	99	28	06:46:32.200	488HV6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,843,473:87:0	
1739	99	28	09:00:56.200	488HV6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,843,606:80:0	
1740	99	28	09:37:12.200	488HV6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,843,642:68:0	
1741	99	28	10:04:56.200	488HV6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,843,670:16:0	
1742	99	28	10:54:00.200	488HV6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,843,718:64:0	
1743	99	28	11:22:57.533	488HW6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,843,747:31:0	
1744	99	28	11:56:36.200	488HW6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,843,780:56:0	
1745	99	28	17:07:20.200	488HW6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,844,087:85:0	
1746	99	28	17:30:48.200	488HX6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,844,111:13:0	
1747	99	28	18:47:58.200	488HX6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,844,187:42:0	
1748	99	28	19:13:12.200	488HX6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,844,212:38:0	
1749	99	28	19:18:55.533	488HX6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,844,218:07:0	
1750	99	28	19:23:00.200	488HX6E	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	4O0	4	0	4,844,222:10:0	
1751	99	28	19:27:56.866	176SF6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	4O0	4	0	4,844,227:00:0	
1752	99	28	19:39:00.200	20CA4C	7STAT	17.45,89.209,-25	Stator inertial point	4O0	4	0	4,844,237:85:0	
1753	99	28	20:00:00.200	474CA416A4B	**7MODE**	**INT**	AACS INERTIAL MODE	4O0	4	0	4,844,258:64:0	
1754	99	28	20:02:00.200	474CA416A4D	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	4O0	4	0	4,844,260:62:0	
1755	99	28	20:02:20.200	20CA4D	7STAT	17.45,89.209,-25	Stator inertial point	4O0	4	0	4,844,261:01:0	
1756	99	28	20:06:14.200	474CA416A4E	7BURN	PULZ,89.209,-25.	ALERT -- Thruster fire	4O0	4	0	4,844,264:79:0	
1757	99	28	20:13:02.200	20CA4F	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,844,271:54:0	
1758	99	28	20:18:54.200	20CA4G	**7MODE**	**CRU**	AACS CRUISE MODE	4O0	4	0	4,844,277:36:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
1759	99	28	20:43:10.200	20CA4L	7STAT	17.45,89.209,-25	Stator inertial point	4O0	4	0	4,844,301:36:0
1760	99	28	20:46:10.200	20CA4O	**7MODE**	**INT**	AACS INERTIAL MODE	4O0	4	0	4,844,304:33:0
1761	99	28	20:48:10.200	474CA416A4G	7BURN	LAT,89.209,-25.7	ALERT -- Thruster fire	4O0	4	0	4,844,306:31:0
1762	99	28	20:55:44.200	20CA4Q	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,844,313:75:0
1763	99	28	21:00:36.200	20CA4R	**7MODE**	**CRU**	AACS CRUISE MODE	4O0	4	0	4,844,318:58:0
1764	99	28	22:08:08.200	20CB4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	4O0	4	0	4,844,385:39:0
1765	99	28	22:08:58.200	20CB4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,844,386:23:0
1766	99	28	22:09:43.533	176CA6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	4,844,387:00:0
1767	99	28	23:22:48.200	488HY6A	6TMSED	NORM,AH3	Sci, Eng, and D/L Chan	4O0	4	0	4,844,459:25:0
1768	99	28	23:59:04.200	488HY6B	6TMSED	NORM,AH4	Sci, Eng, and D/L Chan	4O0	4	0	4,844,495:13:0
1769	99	29	00:31:00.200	488HY6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,844,526:66:0
1770	99	29	00:31:16.866	176SG6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	4,844,527:00:0
1771	99	29	00:35:00.200	41AC99A	**POWER**	**PWR MODE change**	Change to Data Taking Mode	4O0	4	0	4,844,530:62:0
1772	**99**	**29**	**00:35:04.200**	**41AC3A**	**40T1PR**	**1**	**PCT Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**4,844,530:68:0**
1773	**99**	**29**	**00:35:14.200**	**41AC3B**	**40T1PR**	**2**	**PCT Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**4,844,530:83:0**
1774	**99**	**29**	**00:35:24.200**	**41AC3C**	**40T2R**	**1**	**PCT Heater 2 OFF**	**4O0**	**4**	**0**	**4,844,531:07:0**
1775	**99**	**29**	**00:35:34.200**	**41AC3D**	**40T2R**	**2**	**PCT Heater 2 OFF**	**4O0**	**4**	**0**	**4,844,531:22:0**
1776	99	29	00:47:59.533	488HY6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,844,543:48:0
1777	99	29	01:21:38.200	488HY6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,844,576:73:0
1778	99	29	07:26:50.866	176SP6A	6TMREC	**TPB**	TERMINATE PLAYBACK (PB CONTROL) Record Mo	4O0	4	0	4,844,938:00:0
1779	99	29	07:32:54.866		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 202.12 +/-	4O0	4	0	4,844,944:00:0
1780	99	29	07:32:54.866		DMS:	: *SLEW-TIC	P7, TRACK 1, FWD, TIC 202.12 +/-	4O0	4	0	4,844,944:00:0
1781	99	29	07:32:54.866	465TA6A	6DMST	5000	DMS Slew to TIC	4O0	4	0	4,844,944:00:0
1782	99	29	07:32:54.866		DMS:	: *TURNARND	P7, TRACK 1, FWD, TIC 202.12 +/-	4O0	4	0	4,844,944:00:0
1783	99	29	07:33:01.533		DMS:	: *RUNUP	P7, TRACK 1, FWD, TIC 202.12 +/-	4O0	4	0	4,844,944:10:0
1784	99	29	07:33:02.933		DMS:	: *AT_SPD	P7, TRACK 1, FWD, TIC * 202.24 +/-	4O0	4	0	4,844,944:12:1
1785	99	29	09:11:36.200	488HZ6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,845,041:55:0
1786	99	29	09:41:28.200	488HZ6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,845,071:13:0
1787	99	29	10:00:40.200	488HZ6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,845,090:12:0
1788	99	29	10:49:44.200	488HZ6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,845,138:60:0
1789	99	29	11:08:01.533	488HZ6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,845,156:68:0
1790	99	29	11:51:40.200	488IA6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,845,199:83:0
1791	99	29	13:14:03.666		DMS:	**: *RUNDOWN**	P7, TRACK 1, FWD, TIC *4997.94 +/-	4O0	4	0	4,845,281:36:2
1792	99	29	13:14:04.866		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *4998.00 +/-	4O0	4	0	4,845,281:38:0
1793	99	29	13:26:36.200	465TB6A	6DMSC	P100,4	DMS Control Tape P/B 100.8kbps	4O0	4	0	4,845,293:73:0
1794	99	29	13:26:36.200		DMS:	: *US-RUNUP	P7, TRACK 1, FWD, TIC 4998.00 +/-	4O0	4	0	4,845,293:73:0
1795	99	29	13:26:37.600		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *4998.12 +/-	4O0	4	0	4,845,293:75:1
1796	99	29	13:26:42.866		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *4999.35 +/-	4O0	4	0	4,845,293:83:0
1797	99	29	13:26:44.066		DMS:	: *RUNUP	P100, TRACK *4, *REV, TIC *4999.41 +/-	4O0	4	0	4,845,293:84:8
1798	99	29	13:26:47.933		DMS:	: *AT_SPD	P100, TRACK 4, REV, TIC 4993.91 +/-	4O0	4	0	4,845,293:90:6
1799	99	29	13:26:47.933		DMS:	: *P_SLEW	P100, TRACK 4, REV, TIC *4993.91 +/-	4O0	4	0	4,845,293:90:6
1800	99	29	13:52:28.200	465TB6B	6DMSC	RDY,4	DMS Control Tape stop	4O0	4	0	4,845,319:35:0
1801	99	29	13:52:28.200		DMS:	**: *RUNDOWN**	P100, TRACK 4, REV, TIC * 255.79 +/-	4O0	4	0	4,845,319:35:0
1802	99	29	13:52:29.400		DMS:	: *READY	RDY, TRACK 4, REV, TIC * 254.99 +/-	4O0	4	0	4,845,319:36:8
1803	99	29	15:50:16.133	465TC6A	6DTRN	CMD,6DTRN,465TC6	DMS TRACK TURNAROUND	4O0	4	0	4,845,435:81:0
1804	99	29	15:50:16.133		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 254.99 +/-	4O0	4	0	4,845,435:81:0
1805	99	29	15:50:16.133		DMS:	: *DMS-TURN	P7, TRACK 4, REV, TIC 254.99 +/-	4O0	4	0	4,845,435:81:0
1806	99	29	15:50:17.533		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 255.11 +/-	4O0	4	0	4,845,435:83:1
1807	99	29	15:50:22.800		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 256.34 +/-	4O0	4	0	4,845,436:00:0
1808	99	29	15:50:24.000		DMS:	: *RUNUP	P7, TRACK *4, *REV, TIC * 256.40 +/-	4O0	4	0	4,845,436:01:8
1809	99	29	15:50:25.400		DMS:	: *AT_SPD	P7, TRACK 4, REV, TIC * 256.28 +/-	4O0	4	0	4,845,436:03:9
1810	99	29	15:54:09.466	488IA6B	6TMSED	NORM,AH4	Sci, Eng, and D/L Chan	4O0	4	0	4,845,439:67:0
1811	99	29	15:54:26.066		DMS:	: *REVERSE	P7, TRACK 4, REV, TIC * 199.87 +/-	4O0	4	0	4,845,440:00:9
1812	99	29	15:54:27.266		DMS:	: *TURNARND	P7, TRACK *1, *FWD, TIC * 199.81 +/-	4O0	4	0	4,845,440:02:7
1813	99	29	15:54:27.266		DMS:	: *RUNUP	P7, TRACK 1, FWD, TIC 199.81 +/-	4O0	4	0	4,845,440:02:7

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
1814	99	29	15:54:28.666		DMS:	: *AT_SPD	P7, TRACK 1, FWD, TIC * 199.93 +/-	4O0	4	0	4,845,440:04:8
1815	99	29	15:54:40.666		DMS:	: *AUTOSTOP	P7, TRACK 1, FWD, TIC * 202.06 +/-	4O0	4	0	4,845,440:22:8
1816	99	29	15:54:41.866		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 202.12 +/-	4O0	4	0	4,845,440:24:6
1817	99	29	16:00:18.800		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 202.12 +/-	4O0	4	0	4,845,445:75:0
1818	99	29	16:00:18.800	465TD6A	6DMSC	P100,1	DMS Control Tape P/B 100.8kbps	4O0	4	0	4,845,445:75:0
1819	99	29	16:00:25.466		DMS:	: *RUNUP	P100, TRACK 1, FWD, TIC 202.12 +/-	4O0	4	0	4,845,445:85:0
1820	99	29	16:00:29.333		DMS:	: *P_SLEW	P100, TRACK 1, FWD, TIC * 207.62 +/-	4O0	4	0	4,845,445:90:8
1821	99	29	16:00:29.333		DMS:	: *AT_SPD	P100, TRACK 1, FWD, TIC 207.62 +/-	4O0	4	0	4,845,445:90:8
1822	99	29	16:32:12.800		DMS:	**: *RUNDOWN**	P100, TRACK 1, FWD, TIC *6063.01 +/-	4O0	4	0	4,845,477:34:0
1823	99	29	16:32:12.800	465TD6B	6DMSC	RDY,1	DMS Control Tape stop	4O0	4	0	4,845,477:34:0
1824	99	29	16:32:14.000		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *6063.81 +/-	4O0	4	0	4,845,477:35:8
1825	99	29	16:47:48.800	465TE6A	6DMSC	P100,2	DMS Control Tape P/B 100.8kbps	4O0	4	0	4,845,492:73:0
1826	99	29	16:47:48.800		DMS:	: *US-RUNUP	P7, TRACK 1, FWD, TIC 6063.81 +/-	4O0	4	0	4,845,492:73:0
1827	99	29	16:47:50.200		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *6063.93 +/-	4O0	4	0	4,845,492:75:1
1828	99	29	16:47:55.466		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *6065.17 +/-	4O0	4	0	4,845,492:83:0
1829	99	29	16:47:56.666		DMS:	: *RUNUP	P100, TRACK *2, *REV, TIC *6065.23 +/-	4O0	4	0	4,845,492:84:8
1830	99	29	16:48:00.533		DMS:	: *AT_SPD	P100, TRACK 2, REV, TIC 6059.73 +/-	4O0	4	0	4,845,492:90:6
1831	99	29	16:48:00.533		DMS:	: *P_SLEW	P100, TRACK 2, REV, TIC *6059.73 +/-	4O0	4	0	4,845,492:90:6
1832	99	29	17:19:56.800	465TF6A	6DMSC	P100,3	DMS Control Tape P/B 100.8kbps	4O0	4	0	4,845,524:53:0
1833	99	29	17:19:56.800		DMS:	**: *RUNDOWN**	P100, TRACK 2, REV, TIC * 164.96 +/-	4O0	4	0	4,845,524:53:0
1834	99	29	17:19:58.000		DMS:	: *RUNUP	P100, TRACK *3, *FWD, TIC * 164.16 +/-	4O0	4	0	4,845,524:54:8
1835	99	29	17:20:01.866		DMS:	: *AT_SPD	P100, TRACK 3, FWD, TIC 169.66 +/-	4O0	4	0	4,845,524:60:6
1836	99	29	17:20:01.866		DMS:	: *P_SLEW	P100, TRACK 3, FWD, TIC * 169.66 +/-	4O0	4	0	4,845,524:60:6
1837	99	29	17:51:57.466		DMS:	**: *RUNDOWN**	P100, TRACK 3, FWD, TIC *6062.38 +/-	4O0	4	0	4,845,556:22:0
1838	99	29	17:51:57.466	465TF6B	6DMSC	RDY,3	DMS Control Tape stop	4O0	4	0	4,845,556:22:0
1839	99	29	17:51:58.666		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *6063.18 +/-	4O0	4	0	4,845,556:23:8
1840	99	29	18:06:40.800	465TG6A	6DMSC	P100,4	DMS Control Tape P/B 100.8kbps	4O0	4	0	4,845,570:73:0
1841	99	29	18:06:40.800		DMS:	: *US-RUNUP	P7, TRACK *1, FWD, TIC 6063.18 +/-	4O0	4	0	4,845,570:73:0
1842	99	29	18:06:42.200		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *6063.30 +/-	4O0	4	0	4,845,570:75:1
1843	99	29	18:06:47.466		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *6064.53 +/-	4O0	4	0	4,845,570:83:0
1844	99	29	18:06:48.666		DMS:	: *RUNUP	P100, TRACK *4, *REV, TIC *6064.59 +/-	4O0	4	0	4,845,570:84:8
1845	99	29	18:06:52.533		DMS:	: *P_SLEW	P100, TRACK 4, REV, TIC *6059.09 +/-	4O0	4	0	4,845,570:90:6
1846	99	29	18:06:52.533		DMS:	: *AT_SPD	P100, TRACK 4, REV, TIC 6059.09 +/-	4O0	4	0	4,845,570:90:6
1847	99	29	18:38:48.133		DMS:	**: *RUNDOWN**	P100, TRACK 4, REV, TIC * 166.38 +/-	4O0	4	0	4,845,602:52:0
1848	99	29	18:38:48.133	465TH6A	6DMSC	P100,3	DMS Control Tape P/B 100.8kbps	4O0	4	0	4,845,602:52:0
1849	99	29	18:38:49.333		DMS:	: *RUNUP	P100, TRACK *3, *FWD, TIC * 165.58 +/-	4O0	4	0	4,845,602:53:8
1850	99	29	18:38:53.200		DMS:	: *P_SLEW	P100, TRACK 3, FWD, TIC * 171.08 +/-	4O0	4	0	4,845,602:59:6
1851	99	29	18:38:53.200		DMS:	: *AT_SPD	P100, TRACK 3, FWD, TIC 171.08 +/-	4O0	4	0	4,845,602:59:6
1852	99	29	18:39:54.133		DMS:	**: *RUNDOWN**	P100, TRACK 3, FWD, TIC * 358.52 +/-	4O0	4	0	4,845,603:60:0
1853	99	29	18:39:54.133	465TH6B	6DMSC	RDY,3	DMS Control Tape stop	4O0	4	0	4,845,603:60:0
1854	99	29	18:39:55.333		DMS:	: *READY	RDY, TRACK 3, FWD, TIC * 359.32 +/-	4O0	4	0	4,845,603:61:8
1855	99	29	18:40:59.466	488IB6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,845,604:67:0
1856	99	29	18:41:12.133	488IB6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,845,604:86:0
1857	99	29	18:54:24.133		DMS:	: READY	RDY, TRACK *4, *REV, TIC 359.32 +/-	4O0	4	0	4,845,618:00:0
1858	99	29	18:54:24.133	465TI6A	6DMSC	RDY,4	DMS Control Tape stop	4O0	4	0	4,845,618:00:0
1859	99	29	18:55:18.133		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 359.32 +/-	4O0	4	0	4,845,618:81:0
1860	99	29	18:55:18.133	465TJ6A	6DTRN	CMD,6DTRN,465TJ6	DMS TRACK TURNAROUND	4O0	4	0	4,845,618:81:0
1861	99	29	18:55:18.133		DMS:	: *DMS-TURN	P7, TRACK 4, REV, TIC 359.32 +/-	4O0	4	0	4,845,618:81:0
1862	99	29	18:55:19.533		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 359.44 +/-	4O0	4	0	4,845,618:83:1
1863	99	29	18:55:24.800		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 360.67 +/-	4O0	4	0	4,845,619:00:0
1864	99	29	18:55:26.000		DMS:	: *RUNUP	P7, TRACK *4, *REV, TIC * 360.73 +/-	4O0	4	0	4,845,619:01:8
1865	99	29	18:55:27.400		DMS:	: *AT_SPD	P7, TRACK 4, REV, TIC * 360.61 +/-	4O0	4	0	4,845,619:03:9
1866	99	29	19:06:53.200		DMS:	: *REVERSE	P7, TRACK 4, REV, TIC * 199.87 +/-	4O0	4	0	4,845,630:31:6
1867	99	29	19:06:54.400		DMS:	: *TURNARND	P7, TRACK *1, *FWD, TIC * 199.81 +/-	4O0	4	0	4,845,630:33:4
1868	99	29	19:06:54.400		DMS:	: *RUNUP	P7, TRACK 1, FWD, TIC 199.81 +/-	4O0	4	0	4,845,630:33:4

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1869	99	29	19:06:55.800		DMS:	: *AT_SPD	P7, TRACK 1, FWD, TIC * 199.93 +/-	4O0	4	0	4,845,630:35:5	
1870	99	29	19:07:07.800		DMS:	: *AUTOSTOP	P7, TRACK 1, FWD, TIC * 202.06 +/-	4O0	4	0	4,845,630:53:5	
1871	99	29	19:07:09.000		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 202.12 +/-	4O0	4	0	4,845,630:55:3	
1872	99	29	19:36:40.133	488IB6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,845,659:73:0	
1873	99	29	19:42:00.133	488IB6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,845,665:07:0	
1874	99	29	20:00:08.133	488IB6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,845,683:01:0	
1875	99	30	21:38:55.466	488IC6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,847,204:81:0	
1876	99	30	23:08:05.400	488IC6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,847,293:07:0	
1877	99	30	23:33:28.066	488IC6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,847,318:16:0	
1878	99	30	23:37:46.066	488IC6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,847,322:39:0	
1879	99	31	00:00:00.066	481UD4A	7VECT		Inert vect update UTC	4O0	4	0	4,847,344:38:0	
1880	99	31	00:42:14.733	488IC6E	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,847,386:18:0	
1881	99	31	01:14:04.066	488ID6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,847,417:61:0	
1882	**99**	**31**	**02:00:00.000**	**20A3EW**	**37A**	**Final Condition**	**NIMS Power ON**	**4O0**	**4**	**0**	**4,847,463:08:9**	
1883	**99**	**31**	**02:00:00.000**	**20A3EX**	**37HR**	**Final Condition**	**Replacement Heaters OFF**	**4O0**	**4**	**0**	**4,847,463:08:9**	
1884	**99**	**31**	**02:00:00.000**	**20A3EY**	**37C1PR**	**Final Condition**	**Optics Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**4,847,463:08:9**	
1885	**99**	**31**	**02:00:00.000**	**20A3EZ**	**37C2PR**	**Final Condition**	**Optics Heater 2 OFF (primary relay)**	**4O0**	**4**	**0**	**4,847,463:08:9**	
1886	**99**	**31**	**02:00:00.000**	**20A3FA**	**37F1PR**	**Final Condition**	**Radiator Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**4,847,463:08:9**	
1887	**99**	**31**	**02:00:00.000**	**20A3FB**	**37F2PR**	**Final Condition**	**Shield Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**4,847,463:08:9**	
1888	**99**	**31**	**02:00:00.000**	**20A3FD**	**40HRPR**	**Final Condition**	**RCT Heater OFF (primary relay)**	**4O0**	**4**	**0**	**4,847,463:08:9**	
1889	**99**	**31**	**02:00:00.000**	**20A3FE**	**40T1PR**	**Final Condition**	**PCT Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**4,847,463:08:9**	
1890	**99**	**31**	**02:00:00.000**	**20A3FF**	**40T2R**	**Final Condition**	**PCT Heater 2 OFF**	**4O0**	**4**	**0**	**4,847,463:08:9**	
1891	99	31	02:00:00.066		DMS:	: READY	RDY, TRACK 1, FWD, TIC 202.12 +/-	4O0	4	0	4,847,463:09:0	

18JNJUPRTS01

OAPEL:	18JNJUPRTS01	ALIAS:	18JNJUPRTS01
EXT:	R	PSID:	DA
SCLK1:	04747302:00:0	SCLK2:	04747321:12:0
SCET1:	1998-325/18:06:04.533	SCET2:	1998-325/18:25:25.200
TARGET:	JUPITER	PARTITION:	1

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

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

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

WETGID: 0302408000 03 02 408 000
WTGRP_SIZ: 2

EDIT TABLE

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

18JNWHTOVL01

```
OAPEL:  18JNWHTOVL01              ALIAS:  18JNWHTOVL01
EXT:    A                         PSID:   DJ
SCLK1:  04747683:00:0             SCLK2:  04747698:85:0
SCET1:    98-326/00:31:18.533     SCET2:    98-326/00:47:25.866
TARGET: JUPITER                   PARTITION: 1

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

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

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

WETGID:     0326253001           03  26  253  001
WTGRP_SIZ: 26
```

EDIT TABLE

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

18JNJUPRTS02

OAPEL:	18JNJUPRTS02	ALIAS:	18JNJUPRTS02
EXT:	R	PSID:	DB
SCLK1:	04747773:00:0	SCLK2:	04747782:12:0
SCET1:	1998-326/02:02:18.533	SCET2:	1998-326/02:11:32.200
TARGET:	JUPITER	PARTITION:	1

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

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

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

WETGID: 0302408000 03 02 408 000
WTGRP_SIZ: 2

EDIT TABLE

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

18HNSTRCAL01

OAPEL:	18HNSTRCAL01	ALIAS:	18HNSTARCAL1
EXT:	A	PSID:	FA
SCLK1:	04774339:00:8	SCLK2:	04774339:90:0
SCET1:	98-344/17:43:28.866	SCET2:	98-344/17:44:28.333
TARGET:	SKY	PARTITION:	1

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

MB_DOWN:	00000	MB_UP:	00000
COMP_FLAG:	1		
EST_COMP:	2.0	EST_COMPV:	0.3
RATE_CON1:	00000	RATE_CON2:	65525
NWAVETOT:	15	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: 0713015001 07 13 015 001
WTGRP_SIZ: 13

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1BDFF	1,1011,1101,1111,1111
1	1BDFF	1,1011,1101,1111,1111
2	1BDFF	1,1011,1101,1111,1111
3	1BDFF	1,1011,1101,1111,1111
4	1BDFF	1,1011,1101,1111,1111
5	1BDFF	1,1011,1101,1111,1111
6	1BDFF	1,1011,1101,1111,1111
7	1BDFF	1,1011,1101,1111,1111
8	1BDFF	1,1011,1101,1111,1111
9	1BDFF	1,1011,1101,1111,1111
10	1BDFF	1,1011,1101,1111,1111
11	1BDFF	1,1011,1101,1111,1111
12	00000	0,0000,0000,0000,0000

18HNSTRCAL02

OAPEL:	18HNSTRCAL02	ALIAS:	18HNSTARCAL1
EXT:	A	PSID:	FA
SCLK1:	04774340:00:0	SCLK2:	04774340:90:0
SCET1:	98-344/17:44:29.000	SCET2:	98-344/17:45:29.000
TARGET:	SKY	PARTITION:	1

MODE:	7	GAIN:	4
CHOP:	1	GRAT_OFF:	4
PTAB_A:	1 1 0 1 012	PTAB_B:	1 1 0 1 012
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:	15	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: 0713015001 07 13 015 001
WTGRP_SIZ: 13

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1BDFF	1,1011,1101,1111,1111
1	1BDFF	1,1011,1101,1111,1111
2	1BDFF	1,1011,1101,1111,1111
3	1BDFF	1,1011,1101,1111,1111
4	1BDFF	1,1011,1101,1111,1111
5	1BDFF	1,1011,1101,1111,1111
6	1BDFF	1,1011,1101,1111,1111
7	1BDFF	1,1011,1101,1111,1111
8	1BDFF	1,1011,1101,1111,1111
9	1BDFF	1,1011,1101,1111,1111
10	1BDFF	1,1011,1101,1111,1111
11	1BDFF	1,1011,1101,1111,1111
12	00000	0,0000,0000,0000,0000

18HNSTRCAL03

OAPEL: 18HNSTRCAL03
ALIAS: 18HNSTARCAL1
EXT: A
PSID: FA
SCLK1: 04774341:00:0
SCLK2: 04774341:90:0
SCET1: 98-344/17:45:29.666
SCET2: 98-344/17:46:29.666
TARGET: SKY
PARTITION: 1

MODE: 7
GAIN: 4
CHOP: 1
GRAT_OFF: 4
PTAB_A: 1 1 0 2 012
PTAB_B: 1 1 0 2 012
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: 15
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: 0713015001 07 13 015 001
WTGRP_SIZ: 13

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1BDFF	1,1011,1101,1111,1111
1	1BDFF	1,1011,1101,1111,1111
2	1BDFF	1,1011,1101,1111,1111
3	1BDFF	1,1011,1101,1111,1111
4	1BDFF	1,1011,1101,1111,1111
5	1BDFF	1,1011,1101,1111,1111
6	1BDFF	1,1011,1101,1111,1111
7	1BDFF	1,1011,1101,1111,1111
8	1BDFF	1,1011,1101,1111,1111
9	1BDFF	1,1011,1101,1111,1111
10	1BDFF	1,1011,1101,1111,1111
11	1BDFF	1,1011,1101,1111,1111
12	00000	0,0000,0000,0000,0000

18HNSTRCAL04

OAPEL:	18HNSTRCAL04	ALIAS:	18HNSTARCAL1
EXT:	A	PSID:	FA
SCLK1:	04774342:00:0	SCLK2:	04774342:90:0
SCET1:	98-344/17:46:30.333	SCET2:	98-344/17:47:30.333
TARGET:	SKY	PARTITION:	1
MODE:	7	GAIN:	4
CHOP:	1	GRAT_OFF:	4
PTAB_A:	1 1 0 3 012	PTAB_B:	1 1 0 3 012
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:	15	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: 0713015001 07 13 015 001
WTGRP_SIZ: 13

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1BDFF	1,1011,1101,1111,1111
1	1BDFF	1,1011,1101,1111,1111
2	1BDFF	1,1011,1101,1111,1111
3	1BDFF	1,1011,1101,1111,1111
4	1BDFF	1,1011,1101,1111,1111
5	1BDFF	1,1011,1101,1111,1111
6	1BDFF	1,1011,1101,1111,1111
7	1BDFF	1,1011,1101,1111,1111
8	1BDFF	1,1011,1101,1111,1111
9	1BDFF	1,1011,1101,1111,1111
10	1BDFF	1,1011,1101,1111,1111
11	1BDFF	1,1011,1101,1111,1111
12	00000	0,0000,0000,0000,0000

18HNSTRCAL05

OAPEL: 18HNSTRCAL05
ALIAS: 18HNSTARCAL1
EXT: A
PSID: FA
SCLK1: 04774343:00:0
SCLK2: 04774343:90:0
SCET1: 98-344/17:47:31.000
SCET2: 98-344/17:48:31.000
TARGET: SKY
PARTITION: 1

MODE: 7
GAIN: 4
CHOP: 1
GRAT_OFF: 4
PTAB_A: 1 1 0 4 012
PTAB_B: 1 1 0 4 012
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: 15
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: 0713015001 07 13 015 001
WTGRP_SIZ: 13

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1BDFF	1,1011,1101,1111,1111
1	1BDFF	1,1011,1101,1111,1111
2	1BDFF	1,1011,1101,1111,1111
3	1BDFF	1,1011,1101,1111,1111
4	1BDFF	1,1011,1101,1111,1111
5	1BDFF	1,1011,1101,1111,1111
6	1BDFF	1,1011,1101,1111,1111
7	1BDFF	1,1011,1101,1111,1111
8	1BDFF	1,1011,1101,1111,1111
9	1BDFF	1,1011,1101,1111,1111
10	1BDFF	1,1011,1101,1111,1111
11	1BDFF	1,1011,1101,1111,1111
12	00000	0,0000,0000,0000,0000

18HNSTRCAL06

OAPEL:	18HNSTRCAL06	ALIAS:	18HNSTARCAL1
EXT:	A	PSID:	FA
SCLK1:	04774344:00:0	SCLK2:	04774344:90:0
SCET1:	98-344/17:48:31.666	SCET2:	98-344/17:49:31.666
TARGET:	SKY	PARTITION:	1
MODE:	7	GAIN:	4
CHOP:	1	GRAT_OFF:	4
PTAB_A:	1 1 0 5 012	PTAB_B:	1 1 0 5 012
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:	15	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: 0713015001 07 13 015 001
WTGRP_SIZ: 13

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1BDFF	1,1011,1101,1111,1111
1	1BDFF	1,1011,1101,1111,1111
2	1BDFF	1,1011,1101,1111,1111
3	1BDFF	1,1011,1101,1111,1111
4	1BDFF	1,1011,1101,1111,1111
5	1BDFF	1,1011,1101,1111,1111
6	1BDFF	1,1011,1101,1111,1111
7	1BDFF	1,1011,1101,1111,1111
8	1BDFF	1,1011,1101,1111,1111
9	1BDFF	1,1011,1101,1111,1111
10	1BDFF	1,1011,1101,1111,1111
11	1BDFF	1,1011,1101,1111,1111
12	00000	0,0000,0000,0000,0000

18HNSTRCAL07

OAPEL:	18HNSTRCAL07	ALIAS:	18HNSTARCAL1
EXT:	A	PSID:	FA
SCLK1:	04774345:00:0	SCLK2:	04774345:90:0
SCET1:	98-344/17:49:32.333	SCET2:	98-344/17:50:32.333
TARGET:	SKY	PARTITION:	1
MODE:	7	GAIN:	4
CHOP:	1	GRAT_OFF:	4
PTAB_A:	1 1 0 6 012	PTAB_B:	1 1 0 6 012
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:	15	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: 0713015001 07 13 015 001
WTGRP_SIZ: 13

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1BDFF	1,1011,1101,1111,1111
1	1BDFF	1,1011,1101,1111,1111
2	1BDFF	1,1011,1101,1111,1111
3	1BDFF	1,1011,1101,1111,1111
4	1BDFF	1,1011,1101,1111,1111
5	1BDFF	1,1011,1101,1111,1111
6	1BDFF	1,1011,1101,1111,1111
7	1BDFF	1,1011,1101,1111,1111
8	1BDFF	1,1011,1101,1111,1111
9	1BDFF	1,1011,1101,1111,1111
10	1BDFF	1,1011,1101,1111,1111
11	1BDFF	1,1011,1101,1111,1111
12	00000	0,0000,0000,0000,0000

18HNSTRCAL08

OAPEL:	18HNSTRCAL08	ALIAS:	18HNSTARCAL1
EXT:	A	PSID:	FA
SCLK1:	04774346:00:0	SCLK2:	04774346:90:0
SCET1:	98-344/17:50:33.000	SCET2:	98-344/17:51:33.000
TARGET:	SKY	PARTITION:	1

MODE:	7	GAIN:	4
CHOP:	1	GRAT_OFF:	4
PTAB_A:	1 1 0 7 012	PTAB_B:	1 1 0 7 012
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:	15	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: 0713015001 07 13 015 001
WTGRP_SIZ: 13

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1BDFF	1,1011,1101,1111,1111
1	1BDFF	1,1011,1101,1111,1111
2	1BDFF	1,1011,1101,1111,1111
3	1BDFF	1,1011,1101,1111,1111
4	1BDFF	1,1011,1101,1111,1111
5	1BDFF	1,1011,1101,1111,1111
6	1BDFF	1,1011,1101,1111,1111
7	1BDFF	1,1011,1101,1111,1111
8	1BDFF	1,1011,1101,1111,1111
9	1BDFF	1,1011,1101,1111,1111
10	1BDFF	1,1011,1101,1111,1111
11	1BDFF	1,1011,1101,1111,1111
12	00000	0,0000,0000,0000,0000

18HNSTRCAL09

OAPEL:	18HNSTRCAL09	ALIAS:	18HNSTARCAL1
EXT:	A	PSID:	FA
SCLK1:	04774347:00:0	SCLK2:	04774347:90:0
SCET1:	98-344/17:51:33.666	SCET2:	98-344/17:52:33.666
TARGET:	SKY	PARTITION:	1
MODE:	7	GAIN:	4
CHOP:	1	GRAT_OFF:	4
PTAB_A:	1 1 0 8 012	PTAB_B:	1 1 0 8 012
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:	15	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: 0713015001 07 13 015 001
WTGRP_SIZ: 13

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1BDFF	1,1011,1101,1111,1111
1	1BDFF	1,1011,1101,1111,1111
2	1BDFF	1,1011,1101,1111,1111
3	1BDFF	1,1011,1101,1111,1111
4	1BDFF	1,1011,1101,1111,1111
5	1BDFF	1,1011,1101,1111,1111
6	1BDFF	1,1011,1101,1111,1111
7	1BDFF	1,1011,1101,1111,1111
8	1BDFF	1,1011,1101,1111,1111
9	1BDFF	1,1011,1101,1111,1111
10	1BDFF	1,1011,1101,1111,1111
11	1BDFF	1,1011,1101,1111,1111
12	00000	0,0000,0000,0000,0000

18HNSTRCAL10

```
OAPEL:  18HNSTRCAL10            ALIAS:  18HNSTARCAL1
EXT:    A                       PSID:   FA
SCLK1:  04774348:00:0           SCLK2:  04774348:90:0
SCET1:    98-344/17:52:34.333   SCET2:    98-344/17:53:34.333
TARGET: SKY                     PARTITION: 1

MODE:      7                    GAIN:      4
CHOP:      1                    GRAT_OFF:  4
PTAB_A:    1 1 0 9 012          PTAB_B:    1 1 0 9 012
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:   15                  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:    0713015001          07  13  015  001
WTGRP_SIZ: 13
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1BDFF	1,1011,1101,1111,1111
1	1BDFF	1,1011,1101,1111,1111
2	1BDFF	1,1011,1101,1111,1111
3	1BDFF	1,1011,1101,1111,1111
4	1BDFF	1,1011,1101,1111,1111
5	1BDFF	1,1011,1101,1111,1111
6	1BDFF	1,1011,1101,1111,1111
7	1BDFF	1,1011,1101,1111,1111
8	1BDFF	1,1011,1101,1111,1111
9	1BDFF	1,1011,1101,1111,1111
10	1BDFF	1,1011,1101,1111,1111
11	1BDFF	1,1011,1101,1111,1111
12	00000	0,0000,0000,0000,0000

18HNSTRCAL11

OAPEL:	18HNSTRCAL11	ALIAS:	18HNSTARCAL1
EXT:	A	PSID:	FA
SCLK1:	04774349:00:0	SCLK2:	04774349:90:0
SCET1:	98-344/17:53:35.000	SCET2:	98-344/17:54:35.000
TARGET:	SKY	PARTITION:	1

MODE:	7	GAIN:	4
CHOP:	1	GRAT_OFF:	4
PTAB_A:	1 1 010 012	PTAB_B:	1 1 010 012
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:	15	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: 0713015001 07 13 015 001
WTGRP_SIZ: 13

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1BDFF	1,1011,1101,1111,1111
1	1BDFF	1,1011,1101,1111,1111
2	1BDFF	1,1011,1101,1111,1111
3	1BDFF	1,1011,1101,1111,1111
4	1BDFF	1,1011,1101,1111,1111
5	1BDFF	1,1011,1101,1111,1111
6	1BDFF	1,1011,1101,1111,1111
7	1BDFF	1,1011,1101,1111,1111
8	1BDFF	1,1011,1101,1111,1111
9	1BDFF	1,1011,1101,1111,1111
10	1BDFF	1,1011,1101,1111,1111
11	1BDFF	1,1011,1101,1111,1111
12	00000	0,0000,0000,0000,0000

18HNSTRCAL12

OAPEL:	18HNSTRCAL12	ALIAS:	18HNSTARCAL1
EXT:	A	PSID:	FA
SCLK1:	04774350:00:0	SCLK2:	04774350:90:0
SCET1:	98-344/17:54:35.666	SCET2:	98-344/17:55:35.666
TARGET:	SKY	PARTITION:	1

MODE:	7	GAIN:	4
CHOP:	1	GRAT_OFF:	4
PTAB_A:	1 1 011 012	PTAB_B:	1 1 011 012
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:	15	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: 0713015001 07 13 015 001
WTGRP_SIZ: 13

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1BDFF	1,1011,1101,1111,1111
1	1BDFF	1,1011,1101,1111,1111
2	1BDFF	1,1011,1101,1111,1111
3	1BDFF	1,1011,1101,1111,1111
4	1BDFF	1,1011,1101,1111,1111
5	1BDFF	1,1011,1101,1111,1111
6	1BDFF	1,1011,1101,1111,1111
7	1BDFF	1,1011,1101,1111,1111
8	1BDFF	1,1011,1101,1111,1111
9	1BDFF	1,1011,1101,1111,1111
10	1BDFF	1,1011,1101,1111,1111
11	1BDFF	1,1011,1101,1111,1111
12	00000	0,0000,0000,0000,0000

18HNSTRCAL13

OAPEL: 18HNSTRCAL13
ALIAS: 18HNSTARCAL1
EXT: A
PSID: FA
SCLK1: 04774351:00:0
SCLK2: 04774351:90:0
SCET1: 98-344/17:55:36.333
SCET2: 98-344/17:56:36.333
TARGET: SKY
PARTITION: 1

MODE: 7
GAIN: 4
CHOP: 1
GRAT_OFF: 4
PTAB_A: 1 1 012 012
PTAB_B: 1 1 012 012
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: 15
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: 0713015001 07 13 015 001
WTGRP_SIZ: 13

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1BDFF	1,1011,1101,1111,1111
1	1BDFF	1,1011,1101,1111,1111
2	1BDFF	1,1011,1101,1111,1111
3	1BDFF	1,1011,1101,1111,1111
4	1BDFF	1,1011,1101,1111,1111
5	1BDFF	1,1011,1101,1111,1111
6	1BDFF	1,1011,1101,1111,1111
7	1BDFF	1,1011,1101,1111,1111
8	1BDFF	1,1011,1101,1111,1111
9	1BDFF	1,1011,1101,1111,1111
10	1BDFF	1,1011,1101,1111,1111
11	1BDFF	1,1011,1101,1111,1111
12	00000	0,0000,0000,0000,0000

18HNSTRCAL14

OAPEL: 18HNSTRCAL14
ALIAS: 18HNSTARCAL1
EXT: A
PSID: FA
SCLK1: 04774352:00:0
SCLK2: 04774352:90:0
SCET1: 98-344/17:56:37.000
SCET2: 98-344/17:57:37.000
TARGET: SKY
PARTITION: 1

MODE: 7
GAIN: 4
CHOP: 1
GRAT_OFF: 4
PTAB_A: 1 1 013 012
PTAB_B: 1 1 013 012
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: 15
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: 0713015001 07 13 015 001
WTGRP_SIZ: 13

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1BDFF	1,1011,1101,1111,1111
1	1BDFF	1,1011,1101,1111,1111
2	1BDFF	1,1011,1101,1111,1111
3	1BDFF	1,1011,1101,1111,1111
4	1BDFF	1,1011,1101,1111,1111
5	1BDFF	1,1011,1101,1111,1111
6	1BDFF	1,1011,1101,1111,1111
7	1BDFF	1,1011,1101,1111,1111
8	1BDFF	1,1011,1101,1111,1111
9	1BDFF	1,1011,1101,1111,1111
10	1BDFF	1,1011,1101,1111,1111
11	1BDFF	1,1011,1101,1111,1111
12	00000	0,0000,0000,0000,0000

18HNSTRCAL15

OAPEL:	18HNSTRCAL15	ALIAS:	18HNSTARCAL1
EXT:	A	PSID:	FA
SCLK1:	04774353:00:0	SCLK2:	04774353:90:0
SCET1:	98-344/17:57:37.666	SCET2:	98-344/17:58:37.666
TARGET:	SKY	PARTITION:	1

MODE:	7	GAIN:	4
CHOP:	1	GRAT_OFF:	4
PTAB_A:	1 1 014 012	PTAB_B:	1 1 014 012
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:	15	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: 0713015001 07 13 015 001
WTGRP_SIZ: 13

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1BDFF	1,1011,1101,1111,1111
1	1BDFF	1,1011,1101,1111,1111
2	1BDFF	1,1011,1101,1111,1111
3	1BDFF	1,1011,1101,1111,1111
4	1BDFF	1,1011,1101,1111,1111
5	1BDFF	1,1011,1101,1111,1111
6	1BDFF	1,1011,1101,1111,1111
7	1BDFF	1,1011,1101,1111,1111
8	1BDFF	1,1011,1101,1111,1111
9	1BDFF	1,1011,1101,1111,1111
10	1BDFF	1,1011,1101,1111,1111
11	1BDFF	1,1011,1101,1111,1111
12	00000	0,0000,0000,0000,0000

18HNSTRCAL16

OAPEL:	18HNSTRCAL16	ALIAS:	18HNSTARCAL1
EXT:	A	PSID:	FA
SCLK1:	04774354:00:0	SCLK2:	04774354:90:0
SCET1:	98-344/17:58:38.333	SCET2:	98-344/17:59:38.333
TARGET:	SKY	PARTITION:	1

MODE:	7	GAIN:	4
CHOP:	1	GRAT_OFF:	4
PTAB_A:	1 1 015 012	PTAB_B:	1 1 015 012
ECAL:	0	OPCAL:	0
R/T:	0	RECORD:	1

MB_DOWN:	00000	MB_UP:	00000
COMP_FLAG:	1		
EST_COMP:	2.0	EST_COMPV:	0.3
RATE_CON1:	00000	RATE_CON2:	65525
NWAVETOT:	15	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: 0713015001 07 13 015 001
WTGRP_SIZ: 13

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1BDFF	1,1011,1101,1111,1111
1	1BDFF	1,1011,1101,1111,1111
2	1BDFF	1,1011,1101,1111,1111
3	1BDFF	1,1011,1101,1111,1111
4	1BDFF	1,1011,1101,1111,1111
5	1BDFF	1,1011,1101,1111,1111
6	1BDFF	1,1011,1101,1111,1111
7	1BDFF	1,1011,1101,1111,1111
8	1BDFF	1,1011,1101,1111,1111
9	1BDFF	1,1011,1101,1111,1111
10	1BDFF	1,1011,1101,1111,1111
11	1BDFF	1,1011,1101,1111,1111
12	00000	0,0000,0000,0000,0000

18HNSTRCAL17

OAPEL:	18HNSTRCAL17	ALIAS:	18HNSTARCAL1
EXT:	A	PSID:	FA
SCLK1:	04774355:00:0	SCLK2:	04774355:90:0
SCET1:	98-344/17:59:39.000	SCET2:	98-344/18:00:39.000
TARGET:	SKY	PARTITION:	1

MODE:	7	GAIN:	4
CHOP:	1	GRAT_OFF:	4
PTAB_A:	1 1 016 012	PTAB_B:	1 1 016 012
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:	15	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: 0713015001 07 13 015 001
WTGRP_SIZ: 13

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1BDFF	1,1011,1101,1111,1111
1	1BDFF	1,1011,1101,1111,1111
2	1BDFF	1,1011,1101,1111,1111
3	1BDFF	1,1011,1101,1111,1111
4	1BDFF	1,1011,1101,1111,1111
5	1BDFF	1,1011,1101,1111,1111
6	1BDFF	1,1011,1101,1111,1111
7	1BDFF	1,1011,1101,1111,1111
8	1BDFF	1,1011,1101,1111,1111
9	1BDFF	1,1011,1101,1111,1111
10	1BDFF	1,1011,1101,1111,1111
11	1BDFF	1,1011,1101,1111,1111
12	00000	0,0000,0000,0000,0000

18HNSTRCAL18

OAPEL:	18HNSTRCAL18	ALIAS:	18HNSTARCAL1
EXT:	A	PSID:	FA
SCLK1:	04774356:00:0	SCLK2:	04774356:90:0
SCET1:	98-344/18:00:39.666	SCET2:	98-344/18:01:39.666
TARGET:	SKY	PARTITION:	1
MODE:	7	GAIN:	4
CHOP:	1	GRAT_OFF:	4
PTAB_A:	1 1 017 012	PTAB_B:	1 1 017 012
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:	15	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: 0713015001 07 13 015 001
WTGRP_SIZ: 13

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1BDFF	1,1011,1101,1111,1111
1	1BDFF	1,1011,1101,1111,1111
2	1BDFF	1,1011,1101,1111,1111
3	1BDFF	1,1011,1101,1111,1111
4	1BDFF	1,1011,1101,1111,1111
5	1BDFF	1,1011,1101,1111,1111
6	1BDFF	1,1011,1101,1111,1111
7	1BDFF	1,1011,1101,1111,1111
8	1BDFF	1,1011,1101,1111,1111
9	1BDFF	1,1011,1101,1111,1111
10	1BDFF	1,1011,1101,1111,1111
11	1BDFF	1,1011,1101,1111,1111
12	00000	0,0000,0000,0000,0000

18HNSTRCAL19

OAPEL:	18HNSTRCAL19	ALIAS:	18HNSTARCAL1
EXT:	A	PSID:	FA
SCLK1:	04774357:00:0	SCLK2:	04774357:90:0
SCET1:	98-344/18:01:40.333	SCET2:	98-344/18:02:40.333
TARGET:	SKY	PARTITION:	1

MODE:	7	GAIN:	4
CHOP:	1	GRAT_OFF:	4
PTAB_A:	1 1 018 012	PTAB_B:	1 1 018 012
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:	15	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: 0713015001 07 13 015 001
WTGRP_SIZ: 13

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1BDFF	1,1011,1101,1111,1111
1	1BDFF	1,1011,1101,1111,1111
2	1BDFF	1,1011,1101,1111,1111
3	1BDFF	1,1011,1101,1111,1111
4	1BDFF	1,1011,1101,1111,1111
5	1BDFF	1,1011,1101,1111,1111
6	1BDFF	1,1011,1101,1111,1111
7	1BDFF	1,1011,1101,1111,1111
8	1BDFF	1,1011,1101,1111,1111
9	1BDFF	1,1011,1101,1111,1111
10	1BDFF	1,1011,1101,1111,1111
11	1BDFF	1,1011,1101,1111,1111
12	00000	0,0000,0000,0000,0000

18HNSTRCAL20

OAPEL: 18HNSTRCAL20
ALIAS: 18HNSTARCAL1
EXT: A
PSID: FA
SCLK1: 04774358:00:0
SCLK2: 04774358:90:0
SCET1: 98-344/18:02:41.000
SCET2: 98-344/18:03:41.000
TARGET: SKY
PARTITION: 1

MODE: 7
GAIN: 4
CHOP: 1
GRAT_OFF: 4
PTAB_A: 1 1 019 012
PTAB_B: 1 1 019 012
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: 15
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: 0713015001 07 13 015 001
WTGRP_SIZ: 13

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1BDFF	1,1011,1101,1111,1111
1	1BDFF	1,1011,1101,1111,1111
2	1BDFF	1,1011,1101,1111,1111
3	1BDFF	1,1011,1101,1111,1111
4	1BDFF	1,1011,1101,1111,1111
5	1BDFF	1,1011,1101,1111,1111
6	1BDFF	1,1011,1101,1111,1111
7	1BDFF	1,1011,1101,1111,1111
8	1BDFF	1,1011,1101,1111,1111
9	1BDFF	1,1011,1101,1111,1111
10	1BDFF	1,1011,1101,1111,1111
11	1BDFF	1,1011,1101,1111,1111
12	00000	0,0000,0000,0000,0000

18HNSTRCAL21

OAPEL:	18HNSTRCAL21	ALIAS:	18HNSTARCAL1
EXT:	A	PSID:	FA
SCLK1:	04774359:00:0	SCLK2:	04774359:90:0
SCET1:	98-344/18:03:41.666	SCET2:	98-344/18:04:41.666
TARGET:	SKY	PARTITION:	1

MODE:	7	GAIN:	4
CHOP:	1	GRAT_OFF:	4
PTAB_A:	1 1 020 012	PTAB_B:	1 1 020 012
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:	15	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: 0713015001 07 13 015 001
WTGRP_SIZ: 13

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1BDFF	1,1011,1101,1111,1111
1	1BDFF	1,1011,1101,1111,1111
2	1BDFF	1,1011,1101,1111,1111
3	1BDFF	1,1011,1101,1111,1111
4	1BDFF	1,1011,1101,1111,1111
5	1BDFF	1,1011,1101,1111,1111
6	1BDFF	1,1011,1101,1111,1111
7	1BDFF	1,1011,1101,1111,1111
8	1BDFF	1,1011,1101,1111,1111
9	1BDFF	1,1011,1101,1111,1111
10	1BDFF	1,1011,1101,1111,1111
11	1BDFF	1,1011,1101,1111,1111
12	00000	0,0000,0000,0000,0000

18HNSTRCAL22

OAPEL:	18HNSTRCAL22	ALIAS:	18HNSTARCAL1
EXT:	A	PSID:	FA
SCLK1:	04774360:00:0	SCLK2:	04774360:90:0
SCET1:	98-344/18:04:42.333	SCET2:	98-344/18:05:42.333
TARGET:	SKY	PARTITION:	1

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

MB_DOWN:	00000	MB_UP:	00000
COMP_FLAG:	1		
EST_COMP:	2.0	EST_COMPV:	0.3
RATE_CON1:	00000	RATE_CON2:	65525
NWAVETOT:	15	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: 0713015001 07 13 015 001
WTGRP_SIZ: 13

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1BDFF	1,1011,1101,1111,1111
1	1BDFF	1,1011,1101,1111,1111
2	1BDFF	1,1011,1101,1111,1111
3	1BDFF	1,1011,1101,1111,1111
4	1BDFF	1,1011,1101,1111,1111
5	1BDFF	1,1011,1101,1111,1111
6	1BDFF	1,1011,1101,1111,1111
7	1BDFF	1,1011,1101,1111,1111
8	1BDFF	1,1011,1101,1111,1111
9	1BDFF	1,1011,1101,1111,1111
10	1BDFF	1,1011,1101,1111,1111
11	1BDFF	1,1011,1101,1111,1111
12	00000	0,0000,0000,0000,0000

18HNSTRCAL23

OAPEL:	18HNSTRCAL23	ALIAS:	18HNSTARCAL1
EXT:	A	PSID:	FA
SCLK1:	04774361:00:0	SCLK2:	04774361:90:0
SCET1:	98-344/18:05:43.000	SCET2:	98-344/18:06:43.000
TARGET:	SKY	PARTITION:	1
MODE:	7	GAIN:	4
CHOP:	1	GRAT_OFF:	4
PTAB_A:	1 1 022 012	PTAB_B:	1 1 022 012
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:	15	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: 0713015001 07 13 015 001
WTGRP_SIZ: 13

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1BDFF	1,1011,1101,1111,1111
1	1BDFF	1,1011,1101,1111,1111
2	1BDFF	1,1011,1101,1111,1111
3	1BDFF	1,1011,1101,1111,1111
4	1BDFF	1,1011,1101,1111,1111
5	1BDFF	1,1011,1101,1111,1111
6	1BDFF	1,1011,1101,1111,1111
7	1BDFF	1,1011,1101,1111,1111
8	1BDFF	1,1011,1101,1111,1111
9	1BDFF	1,1011,1101,1111,1111
10	1BDFF	1,1011,1101,1111,1111
11	1BDFF	1,1011,1101,1111,1111
12	00000	0,0000,0000,0000,0000

18HNSTRCAL24

OAPEL: 18HNSTRCAL24
ALIAS: 18HNSTARCAL1
EXT: A
PSID: FA
SCLK1: 04774362:00:0
SCLK2: 04774362:41:0
SCET1: 98-344/18:06:43.666
SCET2: 98-344/18:07:11.000
TARGET: SKY
PARTITION: 1

MODE: 7
GAIN: 4
CHOP: 1
GRAT_OFF: 4
PTAB_A: 1 1 023 012
PTAB_B: 1 1 023 012
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: 15
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: 0713015001 07 13 015 001
WTGRP_SIZ: 13

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1BDFF	1,1011,1101,1111,1111
1	1BDFF	1,1011,1101,1111,1111
2	1BDFF	1,1011,1101,1111,1111
3	1BDFF	1,1011,1101,1111,1111
4	1BDFF	1,1011,1101,1111,1111
5	1BDFF	1,1011,1101,1111,1111
6	1BDFF	1,1011,1101,1111,1111
7	1BDFF	1,1011,1101,1111,1111
8	1BDFF	1,1011,1101,1111,1111
9	1BDFF	1,1011,1101,1111,1111
10	1BDFF	1,1011,1101,1111,1111
11	1BDFF	1,1011,1101,1111,1111
12	00000	0,0000,0000,0000,0000

18NNRCTRLT01

OAPEL:	18NNRCTRLT01	ALIAS:	LSNNRCTRTA01
EXT:	R	PSID:	XU
SCLK1:	04814742:00:0	SCLK2:	04814742:12:0
SCET1:	1999-008/02:35:21.266	SCET2:	1999-008/02:35:29.266
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:	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

18NNRCTRLT01

OAPEL:	18NNRCTRLT01	ALIAS:	LSNNRCTRTA01
EXT:	S	PSID:	XU
SCLK1:	04814748:00:0	SCLK2:	04814749:12:0
SCET1:	1999-008/02:40:85.266	SCET2:	1999-008/02:42:33.933
TARGET:	CAL	PARTITION:	1

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

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

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

WETGID: 0303252000 03 03 252 000
WTGRP_SIZ: 3

EDIT TABLE

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

18NNRCTRLT01

OAPEL:	18NNRCTRLT01	ALIAS:	LSNNRCTRTA01
EXT:	T	PSID:	XU
SCLK1:	04814754:00:0	SCLK2:	04814754:12:0
SCET1:	1999-008/02:47:29.266	SCET2:	1999-008/02:47:37.266
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:	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

18NNOPCAL_01

OAPEL: 18NNOPCAL_01
ALIAS: LSNNOPCAL_01
EXT: R
PSID: DC
SCLK1: 04814758:00:0
SCLK2: 04814760:12:0
SCET1: 1999-008/02:51:31.933
SCET2: 1999-008/02:53:41.266
TARGET: CAL
PARTITION: 1

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

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

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

WETGID: 0302048000 03 02 048 000
WTGRP_SIZ: 2

EDIT TABLE

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

NIMS E18 OBSTAB

This is a time-ordered ASCII TABLE (listing) of GALILEO NIMS observation parameters for use by downlink data processing of the NIMS E18 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)

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

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--------------------------------------------------------------------------------------------------------------------------------
18JNJUPRTS0118JNJUPRTS01RDA04747302:00:004747321:12:01         JUPITER  3214 1 1 0 0 124 1 1 0 0 12400100 1101111011 0 0.00.0000
0000000                 408RT 1998-325/18:06:04.5331998-325/18:25:25.200
           0000000000000000000000000000000000000000000000000000302408000 2241FFFF0200000

18JNWHTOVL0118JNWHTOVL01ADJ04747683:00:004747698:85:01         JUPITER  3214 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                 253LPU  98-326/00:31:18.533  98-326/00:47:25.866
           00000000000000000000000000000000000000000000000000003262530012601 11DC30111DC30111DC30111DC30113DC30113DC30113DC7011BD
C7011BD87011BDC7010BDC7010BDC7010BDC7010BDC7010BDC7010BDC7011BD87011BD87011BD07011BD07011BD87011BD87011BD87011B98701000000100000
18JNJUPRTS0218JNJUPRTS02RDB04747773:00:004747782:12:01         JUPITER  3214 1 1 0 0 124 1 1 0 0 12400100 1101111011 0 0.00.0000
0000000                 408RT 1998-326/02:02:18.5331998-326/02:11:32.200
           0000000000000000000000000000000000000000000000000000302408000 2241FFFF0200000

18HNSTRCAL0118HNSTARCAL1AFA04774339:00:804774339:90:01         SKY      7414 1 1 0 0 012 1 1 0 0 01200010 0000000000 1 2.00.3000
0065525                  15MPW  98-344/17:43:28.866  98-344/17:44:28.333
           000000000000000000000000000000000000000000000000000071301500113011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF0100000
18HNSTRCAL0218HNSTARCAL1AFA04774340:00:004774340:90:01         SKY      7414 1 1 0 1 012 1 1 0 1 01200010 0000000000 1 2.00.3000
0065525                  15MPW  98-344/17:44:29.000  98-344/17:45:29.000
           000000000000000000000000000000000000000000000000000071301500113011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF0100000
18HNSTRCAL0318HNSTARCAL1AFA04774341:00:004774341:90:01         SKY      7414 1 1 0 2 012 1 1 0 2 01200010 0000000000 1 2.00.3000
0065525                  15MPW  98-344/17:45:29.666  98-344/17:46:29.666
           000000000000000000000000000000000000000000000000000071301500113011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF0100000
18HNSTRCAL0418HNSTARCAL1AFA04774342:00:004774342:90:01         SKY      7414 1 1 0 3 012 1 1 0 3 01200010 0000000000 1 2.00.3000
0065525                  15MPW  98-344/17:46:30.333  98-344/17:47:30.333
           000000000000000000000000000000000000000000000000000071301500113011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF0100000
18HNSTRCAL0518HNSTARCAL1AFA04774343:00:004774343:90:01         SKY      7414 1 1 0 4 012 1 1 0 4 01200010 0000000000 1 2.00.3000
0065525                  15MPW  98-344/17:47:31.000  98-344/17:48:31.000
           000000000000000000000000000000000000000000000000000071301500113011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF0100000
18HNSTRCAL0618HNSTARCAL1AFA04774344:00:004774344:90:01         SKY      7414 1 1 0 5 012 1 1 0 5 01200010 0000000000 1 2.00.3000
0065525                  15MPW  98-344/17:48:31.666  98-344/17:49:31.666
           000000000000000000000000000000000000000000000000000071301500113011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF0100000
18HNSTRCAL0718HNSTARCAL1AFA04774345:00:004774345:90:01         SKY      7414 1 1 0 6 012 1 1 0 6 01200010 0000000000 1 2.00.3000
0065525                  15MPW  98-344/17:49:32.333  98-344/17:50:32.333
           000000000000000000000000000000000000000000000000000071301500113011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF0100000
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18HNSTRCAL0818HNSTARCAL1AFA04774346:00:004774346:90:01         SKY      7414 1 1 0 7 012 1 1 0 7 01200010 0000000000 1 2.00.3000
0065525                  15MPW  98-344/17:50:33.000  98-344/17:51:33.000
           000000000000000000000000000000000000000000000000000071301500113011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF0100000
18HNSTRCAL0918HNSTARCAL1AFA04774347:00:004774347:90:01         SKY      7414 1 1 0 8 012 1 1 0 8 01200010 0000000000 1 2.00.3000
0065525                  15MPW  98-344/17:51:33.666  98-344/17:52:33.666
           000000000000000000000000000000000000000000000000000071301500113011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF0100000
18HNSTRCAL1018HNSTARCAL1AFA04774348:00:004774348:90:01         SKY      7414 1 1 0 9 012 1 1 0 9 01200010 0000000000 1 2.00.3000
0065525                  15MPW  98-344/17:52:34.333  98-344/17:53:34.333
           000000000000000000000000000000000000000000000000000071301500113011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF0100000
18HNSTRCAL1118HNSTARCAL1AFA04774349:00:004774349:90:01         SKY      7414 1 1 010 012 1 1 010 01200010 0000000000 1 2.00.3000
0065525                  15MPW  98-344/17:53:35.000  98-344/17:54:35.000
           000000000000000000000000000000000000000000000000000071301500113011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF0100000
18HNSTRCAL1218HNSTARCAL1AFA04774350:00:004774350:90:01         SKY      7414 1 1 011 012 1 1 011 01200010 0000000000 1 2.00.3000
0065525                  15MPW  98-344/17:54:35.666  98-344/17:55:35.666
           000000000000000000000000000000000000000000000000000071301500113011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF0100000
18HNSTRCAL1318HNSTARCAL1AFA04774351:00:004774351:90:01         SKY      7414 1 1 012 012 1 1 012 01200010 0000000000 1 2.00.3000
0065525                  15MPW  98-344/17:55:36.333  98-344/17:56:36.333
           000000000000000000000000000000000000000000000000000071301500113011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF0100000
18HNSTRCAL1418HNSTARCAL1AFA04774352:00:004774352:90:01         SKY      7414 1 1 013 012 1 1 013 01200010 0000000000 1 2.00.3000
0065525                  15MPW  98-344/17:56:37.000  98-344/17:57:37.000
           000000000000000000000000000000000000000000000000000071301500113011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF0100000
18HNSTRCAL1518HNSTARCAL1AFA04774353:00:004774353:90:01         SKY      7414 1 1 014 012 1 1 014 01200010 0000000000 1 2.00.3000
0065525                  15MPW  98-344/17:57:37.666  98-344/17:58:37.666
           000000000000000000000000000000000000000000000000000071301500113011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF0100000
18HNSTRCAL1618HNSTARCAL1AFA04774354:00:004774354:90:01         SKY      7414 1 1 015 012 1 1 015 01200010 0000000000 1 2.00.3000
0065525                  15MPW  98-344/17:58:38.333  98-344/17:59:38.333
           000000000000000000000000000000000000000000000000000071301500113011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF0100000
18HNSTRCAL1718HNSTARCAL1AFA04774355:00:004774355:90:01         SKY      7414 1 1 016 012 1 1 016 01200010 0000000000 1 2.00.3000
0065525                  15MPW  98-344/17:59:39.000  98-344/18:00:39.000
           000000000000000000000000000000000000000000000000000071301500113011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF0100000
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18HNSTRCAL1818HNSTARCAL1AFA04774356:00:004774356:90:01         SKY      7414 1 1 017 012 1 1 017 01200010 0000000000 1 2.00.3000
0065525                  15MPW  98-344/18:00:39.666  98-344/18:01:39.666
          000000000000000000000000000000000000000000000000071301500113011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF0100000
18HNSTRCAL1918HNSTARCAL1AFA04774357:00:004774357:90:01         SKY      7414 1 1 018 012 1 1 018 01200010 0000000000 1 2.00.3000
0065525                  15MPW  98-344/18:01:40.333  98-344/18:02:40.333
          000000000000000000000000000000000000000000000000071301500113011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF0100000
18HNSTRCAL2018HNSTARCAL1AFA04774358:00:004774358:90:01         SKY      7414 1 1 019 012 1 1 019 01200010 0000000000 1 2.00.3000
0065525                  15MPW  98-344/18:02:41.000  98-344/18:03:41.000
          000000000000000000000000000000000000000000000000071301500113011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF0100000
18HNSTRCAL2118HNSTARCAL1AFA04774359:00:004774359:90:01         SKY      7414 1 1 020 012 1 1 020 01200010 0000000000 1 2.00.3000
0065525                  15MPW  98-344/18:03:41.666  98-344/18:04:41.666
          000000000000000000000000000000000000000000000000071301500113011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF0100000
18HNSTRCAL2218HNSTARCAL1AFA04774360:00:004774360:90:01         SKY      7414 1 1 021 012 1 1 021 01200010 0000000000 1 2.00.3000
0065525                  15MPW  98-344/18:04:42.333  98-344/18:05:42.333
          000000000000000000000000000000000000000000000000071301500113011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF0100000
18HNSTRCAL2318HNSTARCAL1AFA04774361:00:004774361:90:01         SKY      7414 1 1 022 012 1 1 022 01200010 0000000000 1 2.00.3000
0065525                  15MPW  98-344/18:05:43.000  98-344/18:06:43.000
          000000000000000000000000000000000000000000000000071301500113011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF0100000
18HNSTRCAL2418HNSTARCAL1AFA04774362:00:004774362:41:01         SKY      7414 1 1 023 012 1 1 023 01200010 0000000000 1 2.00.3000
0065525                  15MPW  98-344/18:06:43.666  98-344/18:07:11.000
          000000000000000000000000000000000000000000000000071301500113011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF0100000
18NNRCTRLT01LSNNRCTRTA01RXU04814742:00:004814742:12:01         CAL      3114 1 1 0 0 124 1 1 0 0 12400100 1101111011 0 0.00.0000
0000000                 252RT 1999-008/02:35:21.2661999-008/02:35:29.266
          000000000000000000000000000000000000000000000000303252000 312003FF12007FF0200000

18NNRCTRLT01LSNNRCTRTA01SXU04814748:00:004814749:12:01         CAL      3114 1 1 0 0 124 1 1 0 0 12400100 1101111011 0 0.00.0000
0000000                 252RT 1999-008/02:40:85.2661999-008/02:42:33.933
          000000000000000000000000000000000000000000000000303252000 312003FF12007FF0200000

18NNRCTRLT01LSNNRCTRTA01TXU04814754:00:004814754:12:01         CAL      3114 1 1 0 0 124 1 1 0 0 12400100 1101111011 0 0.00.0000
0000000                 252RT 1999-008/02:47:29.2661999-008/02:47:37.266
          000000000000000000000000000000000000000000000000303252000 312003FF12007FF0200000

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18NNOPCAL_01LSNNOPCAL_01RDC04814758:00:004814760:12:01         CAL      3414 1 1 0 0 124 1 1 0 0 12401100 1101111011 0 0.00.0000
0000000                 048RT 1999-008/02:51:31.9331999-008/02:53:41.266
           000000000000000000000000000000000000000000000000000302048000 224180000200000

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