Chapter 4 - NIMS Observation Summaries

Contents

Introduction to Chapter 4

This chapter summarizes the NIMS E16 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 E16 Sequence. The information in this summary is derived from the E16 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 E16 data. It is also derived from the E16 SEFs and PBTs. Each Obstab entry is 512 bytes long but is presented here as 4 lines of 128 characters per entry.

Sequence: E16A-AR Created: 09/16/98 Begin: 96-201/05:00:00 Finish: 98-209/00:00:00

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1	98	201	05:00:00.000	20A3EW	37A	CMD,37A,20A3EW,,	NIMS Power ON	4O0	4	0	4,569,926:59:9	
2	98	201	05:00:00.000	20A3EZ	37C2PR	CMD,37C2PR,20A3E	Optics Heater 2 OFF (primary relay)	4O0	4	0	4,569,926:59:9	
3	98	201	05:00:00.000	20A3FB	37F2PR	CMD,37F2PR,20A3F	Shield Flash Heater OFF (primary relay)	4O0	4	0	4,569,926:59:9	
4	98	201	05:00:00.000	20A3FD	40HRPR	CMD,40HRPR,20A3F	RCT Heater OFF (primary relay)	4O0	4	0	4,569,926:59:9	
5	98	201	05:00:00.000	20A3EY	37C1PR	CMD,37C1PR,20A3E	Optics Heater 1 OFF (primary relay)	4O0	4	0	4,569,926:59:9	
6	98	201	05:00:00.000	20A3FF	40T2	CMD,40T2,20A3FF,	PCT Heater 2 ON	4O0	4	0	4,569,926:59:9	
7	98	201	05:00:00.000	20A3FE	40T1P	CMD,40T1P,20A3FE	PCT Heater 1 ON (primary relay)	4O0	4	0	4,569,926:59:9	
8	98	201	05:00:00.000	20A3FA	37F1PR	CMD,37F1PR,20A3F	Radiator Flash Heater OFF (primary relay)	4O0	4	0	4,569,926:59:9	
9	98	201	05:00:00.000	20A3EX	37HR	CMD,37HR,20A3EX,	Replacement Heaters OFF	4O0	4	0	4,569,926:59:9	
10	98	201	05:00:00.066		DMS:	: READY	RDY, TRACK 1, FWD, TIC 202.12 +/-	4O0	4	0	4,569,926:60:0	
11	98	201	05:01:00.066	20OA6A	6HICON			4O0	4	0	4,569,927:59:0	
12	98	201	05:01:00.733	41AA99A	POWER	PWR MODE change	Change to Data Taking Mode	4O0	4	0	4,569,927:60:0	
13	98	201	05:01:04.733	41AA3A	40T1PR	1	PCT Heater 1 OFF (primary relay)	4O0	4	0	4,569,927:66:0	
14	98	201	05:01:14.733	41AA3B	40T1PR	2	PCT Heater 1 OFF (primary relay)	4O0	4	0	4,569,927:81:0	
15	98	201	05:01:24.733	41AA3C	40T2R	1	PCT Heater 2 OFF	4O0	4	0	4,569,928:05:0	
16	98	201	05:01:34.733	41AA3D	40T2R	2	PCT Heater 2 OFF	4O0	4	0	4,569,928:20:0	
17	98	201	05:02:10.733	488AA6A	6TMSED	NORM,EL5	Sci, Eng, and D/L Chan	4O0	4	0	4,569,928:74:0	
18	98	201	05:03:21.400	432JA6B	6RTDS2	NIMDSL,AACNCG,RT	NIMS R/T DESELECT	4O0	4	0	4,569,929:89:0	
19	98	201	05:03:22.066	432JA431A6A	6RCDSL	DDSNCG,PLSDSL,EP	Record Deselect (DDS o	4O0	4	0	4,569,929:90:0	
20	98	201	05:03:22.733	432JA6C	6RTSL1		R/T Select of DDS and	4O0	4	0	4,569,930:00:0	
21	98	201	05:03:22.733	432JA6D	6RTSL2	NIMNCG,AACSEL,RT	AACS SELECT	4O0	4	0	4,569,930:00:0	
22	98	201	05:05:13.400	175TZ422A6A	6DMSC	R28,1	DMS Control	4O0	4	0	4,569,931:75:0	
23	98	201	05:05:13.400		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 202.12 +/-	4O0	4	0	4,569,931:75:0	
24	98	201	05:05:20.066		DMS:	: *RUNUP	R28, TRACK 1, FWD, TIC 202.12 +/-	4O0	4	0	4,569,931:85:0	
25	98	201	05:05:23.400	175TZ176A6A	6TMREC	MPW	28.8 KBPS PWS + NIMS RECORD Record Mode C	4O0	4	0	4,569,931:90:0	
26	98	201	05:05:24.066		DMS:	: *RECORD	R28, TRACK 1, FWD, TIC * 203.62 +/-	4O0	4	0	4,569,932:00:0	
27	98	201	05:05:24.066		DMS:	: *AT_SPD	R28, TRACK 1, FWD, TIC 203.62 +/-	4O0	4	0	4,569,932:00:0	
28	98	201	05:15:10.066	20UC4A	7SCAN	NORM,244.467,-23	Check S/P Position	4O0	4	0	4,569,941:60:0	
29	98	201	05:17:24.066	175TZ422A6B	6DMSC	RDY,0	DMS Control Tape stop	4O0	4	0	4,569,943:79:0	
30	98	201	05:17:24.066		DMS:	: *RUNDOWN	R28, TRACK 1, FWD, TIC * 836.44 +/-	4O0	4	0	4,569,943:79:0	
31	98	201	05:17:25.266		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 836.74 +/-	4O0	4	0	4,569,943:80:8	
32	98	201	05:20:34.066	465KA6A	6DMSC	RDY,2	DMS Control Tape stop	4O0	4	0	4,569,947:00:0	
33	98	201	05:20:34.066		DMS:	: READY	RDY, TRACK *2, *REV, TIC 836.74 +/-	4O0	4	0	4,569,947:00:0	
34	98	201	05:30:20.066	444UA443A4B	7MODE	INT	AACS INERTIAL MODE	4O0	4	0	4,569,956:60:0	
35	98	201	05:54:54.066	176DA6A	6TMREC	NRC	NO RECORD Record Mode Change	4O0	4	0	4,569,980:87:0	
36	98	201	05:57:01.932	16NNHRSPEC01-		-----START------		4O0	4	0	: :	
37	98	201	05:57:12.066	20DA5A	37PL		Program Load (halts microprocessor & unwri	260	4	0	4,569,983:21:0	
38	98	201	05:57:13.400	20DA5B	37MRL		Memory Realocate (software operates from R	260	4	0	4,569,983:23:0	
39	98	201	05:57:14.733	20DA6A	6MCOPY	NIMS	NIMS,1000,LLM1A,7300,77F7	260	4	0	4,569,983:25:0	
40	98	201	05:57:24.733	20DA6B	6MCOPY	NIMS	NIMS,1598,LLM1A,77F8,781D	260	4	0	4,569,983:40:0	
41	98	201	05:57:40.066	20DA5C	37IRT		Instrument Reset (goes into POR state)	260	4	0	4,569,983:63:0	
42	98	201	05:58:02.733	20DA5D	37MN		Memory Normal (software operates from ROM)	260	4	0	4,569,984:06:0	
43	98	201	05:58:52.066	20DA4A	37IST	1,2,0,OFF,0,0,0	Chopper ON, Sync, Chopper (Ref)	2R0	4	0	4,569,984:80:0	
44	98	201	05:59:03.266	16NNHRSPEC01-		-----STOP-------		2R0	4	0	: :	
45	98	201	05:59:03.266	16INHRSPEC01*		-----START------		2R0	4	0	: :	
46	98	201	06:00:56.066	125DA4A	37IST	0,2,0,OFF,0,1,0	Gain State 2	2R0	4	0	4,569,986:84:0	
47	98	201	06:00:56.066	125DA	NIMSINIT	GS	##### GROUP START INIT	2R0	4	0	4,569,986:84:0	
48	98	201	06:01:56.733	125DA4B	37MB	0,0,0,0,0,0	Selects mirror (spatial) edit table	2R0	4	0	4,569,987:84:0	
49	98	201	06:01:56.733	125DA11A	NIMSINIT	GE	##### GROUP END INIT	2R0	4	0	4,569,987:84:0	
50	98	201	06:02:00.733	165DA4A	7SCAN	NORM,244.466999,	Check S/P Position	2R0	4	0	4,569,987:90:0	
51	98	201	06:03:58.066	127DA	NIMSTAB	GS	%%%%% GROUP START TAB	2R0	4	0	4,569,989:84:0	
52	98	201	06:03:58.066	127DA4A	37IOP	3,0	Long Map, Grating Start Position =00	2R3	4	0	4,569,989:84:0	
53	98	201	06:03:58.733	127DA4B	37ETB	07,C7,02,25,80,0	Loads wavelength edit table	2R3	4	0	4,569,989:85:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
54	98	201	06:04:06.733	127DA11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	4,569,990:06:0	
55	98	201	06:05:52.066		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 836.74 +/-	2R3	4	0	4,569,991:73:0	
56	98	201	06:05:52.066	175DA422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	4,569,991:73:0	
57	98	201	06:05:53.466		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 836.86 +/-	2R3	4	0	4,569,991:75:1	
58	98	201	06:05:54.733	117DA	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	4,569,991:77:0	
59	98	201	06:05:58.733		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 838.09 +/-	2R3	4	0	4,569,991:83:0	
60	98	201	06:05:59.933		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC * 838.15 +/-	2R3	4	0	4,569,991:84:8	
61	98	201	06:06:00.733	175DA176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R3	4	0	4,569,991:86:0	
62	98	201	06:06:01.333		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC * 838.03 +/-	2R3	4	0	4,569,991:86:9	
63	98	201	06:06:01.333		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC 838.03 +/-	2R3	4	0	4,569,991:86:9	
64	98	201	06:06:02.733	165DA4B	7VECT		Inert vect update UTC	2R3	4	0	4,569,991:89:0	
65	**98**	**201**	**06:06:04.066**	**16INHRSPEC01-**	**NIMPBK**	**301DA**	**IO HIGH RES SURFACE MONITORING**	**2R3**	**4**	**0**	**: :**	
66	98	201	06:06:04.066	117DA105A106A4A	**7STRP**	**-0.0054,0.0,0,0,**	**Slew =,0.03**	2R3	4	0	4,569,992:00:0	
67	**98**	**201**	**06:06:04.066**	**16INHRSPEC01-**	**NIMPBK**	**301FA**	**IO HIGH RES SURFACE MONITORING**	**2R3**	**4**	**0**	**: :**	
68	**98**	**201**	**06:09:05.400**	**16INHRSPEC01-**	**DESELC**	**300DA**	**IO HIGH RES SURFACE MONITORING**	**2R3**	**4**	**0**	**: :**	
69	**98**	**201**	**06:09:05.400**	**16INHRSPEC01-**	**DESELC**	**300FA**	**IO HIGH RES SURFACE MONITORING**	**2R3**	**4**	**0**	**: :**	
70	98	201	06:09:06.066	117DA11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	4,569,995:00:0	
71	98	201	06:09:15.400		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC * 792.55 +/-	2R3	4	0	4,569,995:14:0	
72	98	201	06:09:15.400	175DA422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,569,995:14:0	
73	98	201	06:09:15.400	175DA6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	4,569,995:14:0	
74	98	201	06:09:16.600		DMS:	: *READY	RDY, TRACK 2, REV, TIC * 792.49 +/-	2R3	4	0	4,569,995:15:8	
75	**98**	**201**	**06:10:10.599**	**16INHRSPEC01***		**-----STOP-------**		**2R3**	**4**	**0**	**: :**	
76	98	201	07:42:10.733	488AA6B	6TMSED	NORM,EL4	Sci, Eng, and D/L Chan	2R3	4	0	4,570,087:05:0	
77	98	201	08:46:10.733	488AA6C	6TMSED	NORM,EL6	Sci, Eng, and D/L Chan	2R3	4	0	4,570,150:32:0	
78	98	201	09:00:00.066	488AA6D	6TMSED	NORM,GL6	Sci, Eng, and D/L Chan	2R3	4	0	4,570,164:02:0	
79	98	201	09:00:00.733	282NC432A431A6A	6RCDSL	DDSNCG,PLSDSL,EP	Record Deselect (DDS o	2R3	4	0	4,570,164:03:0	
80	98	201	09:00:01.400	282NC432A6A	6RTSL1		R/T Select of DDS and	2R3	4	0	4,570,164:04:0	
81	98	201	09:42:24.733	488AA6E	6TMSED	FILL,GL6	Sci, Eng, and D/L Chan	2R3	4	0	4,570,205:88:0	
82	98	201	10:09:14.066	488AB6A	6TMSED	NORM,GL6	Sci, Eng, and D/L Chan	2R3	4	0	4,570,232:45:0	
83	98	201	11:12:26.066	192GB4A	**7CONE**	**17.4,0.0**	Check S/P Position	2R3	4	0	4,570,295:00:0	
84	98	201	11:19:30.733	176GB6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R3	4	0	4,570,302:00:0	
85	98	201	11:21:45.400	176GB6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	4,570,304:20:0	
86	98	201	11:21:47.400	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	4,570,304:23:0	
87	98	201	11:21:47.400		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 792.49 +/-	2R3	4	0	4,570,304:23:0	
88	98	201	11:21:48.800		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 792.61 +/-	2R3	4	0	4,570,304:25:1	
89	98	201	11:21:54.066		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 793.84 +/-	2R3	4	0	4,570,304:33:0	
90	98	201	11:21:55.266		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC * 793.90 +/-	2R3	4	0	4,570,304:34:8	
91	98	201	11:21:56.666		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC * 793.78 +/-	2R3	4	0	4,570,304:36:9	
92	98	201	11:21:57.400		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC * 793.61 +/-	2R3	4	0	4,570,304:38:0	
93	98	201	11:22:08.733	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,570,304:55:0	
94	98	201	11:22:08.733		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC * 790.95 +/-	2R3	4	0	4,570,304:55:0	
95	98	201	11:22:09.933		DMS:	: *READY	RDY, TRACK 2, REV, TIC * 790.89 +/-	2R3	4	0	4,570,304:56:8	
96	98	201	11:27:35.400	165GC4A	7SCAN	NORM,249.709999,	Check S/P Position	2R3	4	0	4,570,309:90:0	
97	98	201	11:30:38.066	176GC6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R3	4	0	4,570,313:00:0	
98	98	201	11:31:29.400	117GC	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	4,570,313:77:0	
99	98	201	11:31:37.400	165GC4B	7VECT		Inert vect update UTC	2R3	4	0	4,570,313:89:0	
100	98	201	11:31:38.733	117GC105A106A4A	7STRP	0.0085,0.0,0,0,0	Slew =,0.12	2R3	4	0	4,570,314:00:0	
101	98	201	11:32:52.066	117GC105A106A4B	7STRP	0.0,-0.0007,0,0,	Slew =12.01	2R3	4	0	4,570,315:19:0	
102	98	201	11:33:02.066	117GC105A106A4C	7STRP	0.0085,0.0,0,0,0	Slew =,0.12	2R3	4	0	4,570,315:34:0	
103	98	201	11:34:15.400	117GC105A106A4D	7STRP	0.0,-0.0007,0,0,	Slew =12.01	2R3	4	0	4,570,316:53:0	
104	98	201	11:34:25.400	117GC105A106A4E	7STRP	0.0085,0.0,0,0,0	Slew =,0.12	2R3	4	0	4,570,316:68:0	
105	98	201	11:35:38.733	117GC105A106A4F	7STRP	0.0,-0.0007,0,0,	Slew =12.01	2R3	4	0	4,570,317:87:0	
106	98	201	11:35:48.733	117GC105A106A4G	7STRP	0.0085,0.0,0,0,0	Slew =,0.12	2R3	4	0	4,570,318:11:0	
107	98	201	11:37:02.066	117GC105A106A4H	7STRP	0.0,-0.0007,0,0,	Slew =12.01	2R3	4	0	4,570,319:30:0	
108	98	201	11:37:12.066	117GC105A106A4I	7STRP	0.0085,0.0,0,0,0	Slew =,0.12	2R3	4	0	4,570,319:45:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
109	98	201	11:38:25.400	117GC105A106A4J	7STRP	0.0,-0.0007,0,0,	Slew =12.01	2R3	4	0	4,570,320:64:0
110	98	201	11:38:35.400	117GC105A106A4K	7STRP	0.0085,0.0,0,0,0	Slew =,0.12	2R3	4	0	4,570,320:79:0
111	98	201	11:39:48.733	117GC105A106A4L	7STRP	0.0,-0.0007,0,0,	Slew =12.01	2R3	4	0	4,570,322:07:0
112	98	201	11:39:58.733	117GC105A106A4M	7STRP	0.0085,0.0,0,0,0	Slew =,0.12	2R3	4	0	4,570,322:22:0
113	98	201	11:41:12.066	117GC105A106A4N	7STRP	0.0,-0.0007,0,0,	Slew =12.01	2R3	4	0	4,570,323:41:0
114	98	201	11:41:22.066	117GC105A106A4O	7STRP	0.0085,0.0,0,0,0	Slew =,0.12	2R3	4	0	4,570,323:56:0
115	98	201	11:42:35.400	117GC105A106A4P	7STRP	0.0,-0.0007,0,0,	Slew =12.01	2R3	4	0	4,570,324:75:0
116	98	201	11:42:45.400	117GC105A106A4Q	7STRP	0.0085,0.0,0,0,0	Slew =,0.12	2R3	4	0	4,570,324:90:0
117	98	201	11:43:58.733	117GC105A106A4R	7STRP	0.0,-0.0007,0,0,	Slew =12.01	2R3	4	0	4,570,326:18:0
118	98	201	11:44:08.733	117GC105A106A4S	7STRP	0.0085,0.0,0,0,0	Slew =,0.12	2R3	4	0	4,570,326:33:0
119	98	201	11:44:32.066	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	4,570,326:68:0
120	98	201	11:44:32.066		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 790.89 +/-	2R3	4	0	4,570,326:68:0
121	98	201	11:44:33.466		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 791.01 +/-	2R3	4	0	4,570,326:70:1
122	98	201	11:44:38.733		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 792.25 +/-	2R3	4	0	4,570,326:78:0
123	98	201	11:44:39.933		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC * 792.31 +/-	2R3	4	0	4,570,326:79:8
124	98	201	11:44:41.333		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC * 792.19 +/-	2R3	4	0	4,570,326:81:9
125	98	201	11:45:00.066		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC * 787.80 +/-	2R3	4	0	4,570,327:19:0
126	98	201	11:45:22.066	117GC105A106A4T	7STRP	0.0,-0.0007,0,0,	Slew =12.01	2R3	4	0	4,570,327:52:0
127	98	201	11:45:22.733	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,570,327:53:0
128	98	201	11:45:22.733		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC * 782.48 +/-	2R3	4	0	4,570,327:53:0
129	98	201	11:45:23.933		DMS:	: *READY	RDY, TRACK 2, REV, TIC * 782.42 +/-	2R3	4	0	4,570,327:54:8
130	98	201	11:45:32.066	117GC105A106A4U	7STRP	0.0085,0.0,0,0,0	Slew =,0.12	2R3	4	0	4,570,327:67:0
131	**98**	**201**	**11:45:52.066**	**16NNJUPRTS01-**		**-----START------**		**2R3**	**4**	**0**	**: :**
132	98	201	11:46:45.400	117GC11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	4,570,328:86:0
133	**98**	**201**	**11:47:06.733**	**20DB5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**2R3**	**4**	**0**	**4,570,329:27:0**
134	**98**	**201**	**11:47:08.066**	**20DB5B**	**37MRL**		**Memory Realocate (software operates from R**	**2R3**	**4**	**0**	**4,570,329:29:0**
135	**98**	**201**	**11:47:09.400**	**20DB6A**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**2R3**	**4**	**0**	**4,570,329:31:0**
136	**98**	**201**	**11:47:19.400**	**20DB6B**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**2R3**	**4**	**0**	**4,570,329:46:0**
137	**98**	**201**	**11:47:29.400**	**20DB5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**4,570,329:61:0**
138	**98**	**201**	**11:47:49.400**	**20DB5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**4,570,330:00:0**
139	98	201	11:47:49.400	176GC6B	6TMREC	**NRC**	NO RECORD Record Mode Change	260	4	0	4,570,330:00:0
140	98	201	11:47:51.400	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	260	4	0	4,570,330:03:0
141	98	201	11:47:51.400		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 782.42 +/-	260	4	0	4,570,330:03:0
142	98	201	11:47:52.800		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 782.54 +/-	260	4	0	4,570,330:05:1
143	**98**	**201**	**11:47:58.066**	**20DB4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**4,570,330:13:0**
144	98	201	11:47:58.066		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 783.78 +/-	2R0	4	0	4,570,330:13:0
145	98	201	11:47:59.266		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC * 783.84 +/-	2R0	4	0	4,570,330:14:8
146	98	201	11:48:00.666		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC * 783.72 +/-	2R0	4	0	4,570,330:16:9
147	98	201	11:48:01.400		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC * 783.55 +/-	2R0	4	0	4,570,330:18:0
148	98	201	11:48:13.400		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC * 780.73 +/-	2R0	4	0	4,570,330:36:0
149	98	201	11:48:13.400	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R0	4	0	4,570,330:36:0
150	98	201	11:48:14.600		DMS:	: *READY	RDY, TRACK 2, REV, TIC * 780.67 +/-	2R0	4	0	4,570,330:37:8
151	**98**	**201**	**11:48:54.066**	**16JNJUPRTS01***		**-----START------**		**2R0**	**4**	**0**	**: :**
152	**98**	**201**	**11:48:54.066**	**16NNJUPRTS01-**		**-----STOP-------**		**2R0**	**4**	**0**	**: :**
153	98	201	11:49:46.066	125DB	NIMSINIT	GS	##### GROUP START INIT	2R0	4	0	4,570,331:84:0
154	**98**	**201**	**11:49:46.066**	**125DB4A**	**37IST**	**0,2,0,OFF,0,1,0**	**Gain State 2**	**2R0**	**4**	**0**	**4,570,331:84:0**
155	**98**	**201**	**11:50:46.733**	**125DB4B**	**37MB**	**1B,1B,0,0,0,0**	**Selects mirror (spatial) edit table**	**2R0**	**4**	**0**	**4,570,332:84:0**
156	98	201	11:50:46.733	125DB11A	NIMSINIT	GE	##### GROUP END INIT	2R0	4	0	4,570,332:84:0
157	98	201	11:50:50.733	165DB4A	7SCAN	NORM,286.099998,	Check S/P Position	2R0	4	0	4,570,332:90:0
158	98	201	11:52:48.066	127DB	NIMSTAB	GS	%%%%% GROUP START TAB	2R0	4	0	4,570,334:84:0
159	**98**	**201**	**11:52:48.066**	**127DB4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**4,570,334:84:0**
160	**98**	**201**	**11:52:48.733**	**127DB4B**	**37ETB**	**04,C4,35,FF,FF**	**Loads wavelength edit table**	**2R3**	**4**	**0**	**4,570,334:85:0**
161	98	201	11:52:56.733	127DB11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	4,570,335:06:0
162	**98**	**201**	**11:53:57.400**	**432DB6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**	**NIMS R/T SELECT**	**2R3**	**4**	**0**	**4,570,336:06:0**
163	98	201	11:54:44.733	117DB	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	4,570,336:77:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
164	98	201	11:54:52.733	165DB4B	7VECT		Inert vect update UTC	2R3	4	0	4,570,336:89:0	
165	98	201	11:54:54.066	117DB105A106A4A	**7STRP**	**-0.036016,0.0,0,**	**Slew =,0.06**	2R3	4	0	4,570,337:00:0	
166	**98**	**201**	**12:04:02.733**	**432DZ6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**2R3**	**4**	**0**	**4,570,346:04:0**	
167	98	201	12:05:00.733	117DB11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	4,570,347:00:0	
168	**98**	**201**	**12:13:10.066**	**16JNJUPRTS01***		**-----STOP-------**		**2R3**	**4**	**0**	**: :**	
169	98	201	12:30:10.733	488AB6B	6TMSED	NORM,GL7	Sci, Eng, and D/L Chan	2R3	4	0	4,570,371:81:0	
170	98	201	13:15:46.733	165GD4A	7SCAN	NORM,289.485996,	Check S/P Position	2R3	4	0	4,570,416:90:0	
171	98	201	13:18:49.400	176GD6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R3	4	0	4,570,420:00:0	
172	98	201	13:19:40.733	117GD	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	4,570,420:77:0	
173	98	201	13:19:50.066	117GD105A106A4A	7STRP	0.0,-0.015001,0,	Slew =0,0.7	2R3	4	0	4,570,421:00:0	
174	98	201	13:20:20.066	117GD105A106A4B	7STRP	0.0012,0.00001,0	Slew =12.01	2R3	4	0	4,570,421:45:0	
175	98	201	13:20:26.733	117GD105A106A4C	7STRP	0.0,-0.015001,0,	Slew =0,0.7	2R3	4	0	4,570,421:55:0	
176	98	201	13:20:56.733	117GD105A106A4D	7STRP	0.0012,0.00001,0	Slew =12.01	2R3	4	0	4,570,422:09:0	
177	98	201	13:21:03.400	117GD105A106A4E	7STRP	0.0,-0.015001,0,	Slew =0,0.7	2R3	4	0	4,570,422:19:0	
178	98	201	13:21:33.400	117GD105A106A4F	7STRP	0.0012,0.00001,0	Slew =12.01	2R3	4	0	4,570,422:64:0	
179	98	201	13:21:40.066	117GD105A106A4G	7STRP	0.0,-0.015001,0,	Slew =0,0.7	2R3	4	0	4,570,422:74:0	
180	98	201	13:22:10.066	117GD105A106A4H	7STRP	0.0012,0.00001,0	Slew =12.01	2R3	4	0	4,570,423:28:0	
181	98	201	13:22:16.733	117GD105A106A4I	7STRP	0.0,-0.015001,0,	Slew =0,0.7	2R3	4	0	4,570,423:38:0	
182	98	201	13:22:46.733	117GD105A106A4J	7STRP	0.0012,0.00001,0	Slew =12.01	2R3	4	0	4,570,423:83:0	
183	98	201	13:22:53.400	117GD105A106A4K	7STRP	0.0,-0.015001,0,	Slew =0,0.7	2R3	4	0	4,570,424:02:0	
184	98	201	13:23:23.400	117GD105A106A4L	7STRP	0.0012,0.00001,0	Slew =12.01	2R3	4	0	4,570,424:47:0	
185	98	201	13:23:30.066	117GD105A106A4M	7STRP	0.0,-0.015001,0,	Slew =0,0.7	2R3	4	0	4,570,424:57:0	
186	98	201	13:24:00.066	117GD105A106A4N	7STRP	0.0012,0.00001,0	Slew =12.01	2R3	4	0	4,570,425:11:0	
187	98	201	13:24:06.733	117GD105A106A4O	7STRP	0.0,-0.015001,0,	Slew =0,0.7	2R3	4	0	4,570,425:21:0	
188	98	201	13:24:36.733	117GD105A106A4P	7STRP	0.0012,0.00001,0	Slew =12.01	2R3	4	0	4,570,425:66:0	
189	98	201	13:24:43.400	117GD105A106A4Q	7STRP	0.0,-0.015001,0,	Slew =0,0.7	2R3	4	0	4,570,425:76:0	
190	98	201	13:25:13.400	117GD105A106A4R	7STRP	0.0012,0.00001,0	Slew =12.01	2R3	4	0	4,570,426:30:0	
191	98	201	13:25:20.066	117GD105A106A4S	7STRP	0.0,-0.015001,0,	Slew =0,0.7	2R3	4	0	4,570,426:40:0	
192	98	201	13:25:50.066	117GD105A106A4T	7STRP	0.0012,0.00001,0	Slew =12.01	2R3	4	0	4,570,426:85:0	
193	98	201	13:25:56.733	117GD105A106A4U	7STRP	0.0,-0.015001,0,	Slew =0,0.7	2R3	4	0	4,570,427:04:0	
194	98	201	13:26:26.733	117GD105A106A4V	7STRP	0.0012,0.00001,0	Slew =12.01	2R3	4	0	4,570,427:49:0	
195	98	201	13:26:33.400	117GD105A106A4W	7STRP	0.0,-0.015001,0,	Slew =0,0.7	2R3	4	0	4,570,427:59:0	
196	98	201	13:27:03.400	117GD105A106A4X	7STRP	0.0012,0.00001,0	Slew =12.01	2R3	4	0	4,570,428:13:0	
197	98	201	13:27:10.066	117GD105A106A4Y	7STRP	0.0,-0.015001,0,	Slew =0,0.7	2R3	4	0	4,570,428:23:0	
198	98	201	13:27:40.066	117GD105A106A4Z	7STRP	0.0012,0.00001,0	Slew =12.01	2R3	4	0	4,570,428:68:0	
199	98	201	13:27:46.733	117GD105A106A4AA	7STRP	0.0,-0.015001,0,	Slew =0,0.7	2R3	4	0	4,570,428:78:0	
200	98	201	13:28:16.733	117GD105A106A4AB	7STRP	0.0012,0.00001,0	Slew =12.01	2R3	4	0	4,570,429:32:0	
201	98	201	13:28:23.400	117GD105A106A4AC	7STRP	0.0,-0.015001,0,	Slew =0,0.7	2R3	4	0	4,570,429:42:0	
202	98	201	13:28:53.400	117GD105A106A4AD	7STRP	0.0012,0.00001,0	Slew =12.01	2R3	4	0	4,570,429:87:0	
203	98	201	13:29:00.066	117GD105A106A4AE	7STRP	0.0,-0.015001,0,	Slew =0,0.7	2R3	4	0	4,570,430:06:0	
204	98	201	13:29:30.066	117GD105A106A4AF	7STRP	0.0012,0.00001,0	Slew =12.01	2R3	4	0	4,570,430:51:0	
205	98	201	13:29:36.733	117GD105A106A4AG	7STRP	0.0,-0.015001,0,	Slew =0,0.7	2R3	4	0	4,570,430:61:0	
206	98	201	13:30:06.733	117GD105A106A4AH	7STRP	0.0012,0.00001,0	Slew =12.01	2R3	4	0	4,570,431:15:0	
207	98	201	13:30:13.400	117GD105A106A4AI	7STRP	0.0,-0.015001,0,	Slew =0,0.7	2R3	4	0	4,570,431:25:0	
208	98	201	13:30:43.400	117GD105A106A4AJ	7STRP	0.0012,0.00001,0	Slew =12.01	2R3	4	0	4,570,431:70:0	
209	98	201	13:30:50.066	117GD105A106A4AK	7STRP	0.0,-0.015001,0,	Slew =0,0.7	2R3	4	0	4,570,431:80:0	
210	98	201	13:31:20.066	117GD105A106A4AL	7STRP	0.0012,0.00001,0	Slew =12.01	2R3	4	0	4,570,432:34:0	
211	98	201	13:31:24.066	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	4,570,432:40:0	
212	98	201	13:31:24.066		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 780.67 +/-	2R3	4	0	4,570,432:40:0	
213	98	201	13:31:25.466		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 780.79 +/-	2R3	4	0	4,570,432:42:1	
214	98	201	13:31:26.733	117GD105A106A4AM	7STRP	0.0,-0.015001,0,	Slew =0,0.7	2R3	4	0	4,570,432:44:0	
215	98	201	13:31:30.733		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 782.03 +/-	2R3	4	0	4,570,432:50:0	
216	98	201	13:31:31.933		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC * 782.09 +/-	2R3	4	0	4,570,432:51:8	
217	98	201	13:31:33.333		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC * 781.97 +/-	2R3	4	0	4,570,432:53:9	
218	98	201	13:31:49.400		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC * 778.20 +/-	2R3	4	0	4,570,432:78:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
219	98	201	13:31:56.733	117GD105A106A4AN	7STRP	0.0012,0.00001,0	Slew =12.01	2R3	4	0	4,570,432:89:0
220	98	201	13:32:03.400	117GD105A106A4AO	7STRP	0.0,-0.015001,0,	Slew =0,0.7	2R3	4	0	4,570,433:08:0
221	98	201	13:32:12.066	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,570,433:21:0
222	98	201	13:32:12.066		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC * 772.89 +/-	2R3	4	0	4,570,433:21:0
223	98	201	13:32:13.266		DMS:	: *READY	RDY, TRACK 2, REV, TIC * 772.83 +/-	2R3	4	0	4,570,433:22:8
224	98	201	13:32:33.400	117GD105A106A4AP	7STRP	0.0012,0.00001,0	Slew =12.01	2R3	4	0	4,570,433:53:0
225	98	201	13:32:40.066	117GD105A106A4AQ	7STRP	0.0,-0.015001,0,	Slew =0,0.7	2R3	4	0	4,570,433:63:0
226	98	201	13:33:10.066	117GD105A106A4AR	7STRP	0.0012,0.00001,0	Slew =12.01	2R3	4	0	4,570,434:17:0
227	98	201	13:33:16.733	117GD105A106A4AS	7STRP	0.0,-0.015001,0,	Slew =0,0.7	2R3	4	0	4,570,434:27:0
228	98	201	13:33:46.066	488AB6C	6TMSED	FILL,GL7	Sci, Eng, and D/L Chan	2R3	4	0	4,570,434:71:0
229	98	201	13:33:46.733	117GD105A106A4AT	7STRP	0.0012,0.00001,0	Slew =12.01	2R3	4	0	4,570,434:72:0
230	98	201	13:33:53.400	117GD105A106A4AU	7STRP	0.0,-0.015001,0,	Slew =0,0.7	2R3	4	0	4,570,434:82:0
231	98	201	13:34:23.400	117GD105A106A4AV	7STRP	0.0012,0.00001,0	Slew =12.01	2R3	4	0	4,570,435:36:0
232	98	201	13:34:30.066	117GD105A106A4AW	7STRP	0.0,-0.015001,0,	Slew =0,0.7	2R3	4	0	4,570,435:46:0
233	98	201	13:35:00.066	117GD105A106A4AX	7STRP	0.0012,0.00001,0	Slew =12.01	2R3	4	0	4,570,436:00:0
234	98	201	13:35:06.733	117GD105A106A4AY	7STRP	0.0,-0.015001,0,	Slew =0,0.7	2R3	4	0	4,570,436:10:0
235	98	201	13:35:36.733	117GD105A106A4AZ	7STRP	0.0012,0.00001,0	Slew =12.01	2R3	4	0	4,570,436:55:0
236	98	201	13:35:43.400	117GD105A106A4BA	7STRP	0.0,-0.015001,0,	Slew =0,0.7	2R3	4	0	4,570,436:65:0
237	98	201	13:36:13.400	117GD105A106A4BB	7STRP	0.0012,0.00001,0	Slew =12.01	2R3	4	0	4,570,437:19:0
238	98	201	13:36:20.066	117GD105A106A4BC	7STRP	0.0,-0.015001,0,	Slew =0,0.7	2R3	4	0	4,570,437:29:0
239	98	201	13:36:50.066	117GD105A106A4BD	7STRP	0.0012,0.00001,0	Slew =12.01	2R3	4	0	4,570,437:74:0
240	98	201	13:36:56.733	117GD105A106A4BE	7STRP	0.0,-0.015001,0,	Slew =0,0.7	2R3	4	0	4,570,437:84:0
241	98	201	13:37:26.733	117GD105A106A4BF	7STRP	0.0012,0.00001,0	Slew =12.01	2R3	4	0	4,570,438:38:0
242	98	201	13:37:33.400	117GD105A106A4BG	7STRP	0.0,-0.015001,0,	Slew =0,0.7	2R3	4	0	4,570,438:48:0
243	98	201	13:38:03.400	117GD105A106A4BH	7STRP	0.0012,0.00001,0	Slew =12.01	2R3	4	0	4,570,439:02:0
244	98	201	13:38:10.066	117GD105A106A4BI	7STRP	0.0,-0.015001,0,	Slew =0,0.7	2R3	4	0	4,570,439:12:0
245	98	201	13:38:40.066	117GD105A106A4BJ	7STRP	0.0012,0.00001,0	Slew =12.01	2R3	4	0	4,570,439:57:0
246	98	201	13:38:46.733	117GD105A106A4BK	7STRP	0.0,-0.015001,0,	Slew =0,0.7	2R3	4	0	4,570,439:67:0
247	98	201	13:39:16.733	117GD105A106A4BL	7STRP	0.0012,0.00001,0	Slew =12.01	2R3	4	0	4,570,440:21:0
248	98	201	13:39:23.400	117GD105A106A4BM	7STRP	0.0,-0.015001,0,	Slew =0,0.7	2R3	4	0	4,570,440:31:0
249	98	201	13:39:53.400	117GD105A106A4BN	7STRP	0.0012,0.00001,0	Slew =12.01	2R3	4	0	4,570,440:76:0
250	98	201	13:40:00.066	117GD105A106A4BO	7STRP	0.0,-0.015001,0,	Slew =0,0.7	2R3	4	0	4,570,440:86:0
251	98	201	13:40:30.066	117GD105A106A4BP	7STRP	0.0012,0.00001,0	Slew =12.01	2R3	4	0	4,570,441:40:0
252	98	201	13:40:36.733	117GD105A106A4BQ	7STRP	0.0,-0.015001,0,	Slew =0,0.7	2R3	4	0	4,570,441:50:0
253	98	201	13:41:06.733	117GD105A106A4BR	7STRP	0.0012,0.00001,0	Slew =12.01	2R3	4	0	4,570,442:04:0
254	98	201	13:41:13.400	117GD105A106A4BS	7STRP	0.0,-0.015001,0,	Slew =0,0.7	2R3	4	0	4,570,442:14:0
255	98	201	13:41:43.400	117GD105A106A4BT	7STRP	0.0012,0.00001,0	Slew =12.01	2R3	4	0	4,570,442:59:0
256	98	201	13:41:50.066	117GD105A106A4BU	7STRP	0.0,-0.015001,0,	Slew =0,0.7	2R3	4	0	4,570,442:69:0
257	98	201	13:42:20.066	117GD11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	4,570,443:23:0
258	98	201	13:42:31.400	176GD6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	4,570,443:40:0
259	98	201	13:42:33.400	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	4,570,443:43:0
260	98	201	13:42:33.400		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 772.83 +/-	2R3	4	0	4,570,443:43:0
261	98	201	13:42:34.800		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 772.95 +/-	2R3	4	0	4,570,443:45:1
262	98	201	13:42:40.066		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 774.18 +/-	2R3	4	0	4,570,443:53:0
263	98	201	13:42:41.266		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC * 774.24 +/-	2R3	4	0	4,570,443:54:8
264	98	201	13:42:42.666		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC * 774.12 +/-	2R3	4	0	4,570,443:56:9
265	98	201	13:42:43.400		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC * 773.95 +/-	2R3	4	0	4,570,443:58:0
266	98	201	13:43:03.400	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,570,443:88:0
267	98	201	13:43:03.400		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC * 769.26 +/-	2R3	4	0	4,570,443:88:0
268	98	201	13:43:04.600		DMS:	: *READY	RDY, TRACK 2, REV, TIC * 769.20 +/-	2R3	4	0	4,570,443:89:8
269	98	201	13:58:18.733	488AB6D	6TMSED	NORM,GL7	Sci, Eng, and D/L Chan	2R3	4	0	4,570,459:05:0
270	98	201	14:17:27.400	165GE4A	7SCAN	NORM,294.078999,	Check S/P Position	2R3	4	0	4,570,477:90:0
271	98	201	14:20:30.066	176GE6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R3	4	0	4,570,481:00:0
272	98	201	14:21:21.400	117GE	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	4,570,481:77:0
273	98	201	14:21:30.733	117GE105A106A4A	7STRP	0.0,0.038022,0,0	Slew =,0.66	2R3	4	0	4,570,482:00:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
274	98	201	14:22:42.066	117GE105A106A4B	7STRP	0.0015,0.00009,0	Slew =12.01	2R3	4	0	4,570,483:16:0
275	98	201	14:22:47.400	117GE105A106A4C	7STRP	0.0,0.038022,0,0	Slew =,0.66	2R3	4	0	4,570,483:24:0
276	98	201	14:23:58.733	117GE105A106A4D	7STRP	0.0015,0.00009,0	Slew =12.01	2R3	4	0	4,570,484:40:0
277	98	201	14:24:04.066	117GE105A106A4E	7STRP	0.0,0.038022,0,0	Slew =,0.66	2R3	4	0	4,570,484:48:0
278	98	201	14:25:15.400	117GE105A106A4F	7STRP	0.0015,0.00009,0	Slew =12.01	2R3	4	0	4,570,485:64:0
279	98	201	14:25:20.733	117GE105A106A4G	7STRP	0.0,0.038022,0,0	Slew =,0.66	2R3	4	0	4,570,485:72:0
280	98	201	14:26:32.066	117GE105A106A4H	7STRP	0.0015,0.00009,0	Slew =12.01	2R3	4	0	4,570,486:88:0
281	98	201	14:26:37.400	117GE105A106A4I	7STRP	0.0,0.038022,0,0	Slew =,0.66	2R3	4	0	4,570,487:05:0
282	98	201	14:27:48.733	117GE105A106A4J	7STRP	0.0015,0.00009,0	Slew =12.01	2R3	4	0	4,570,488:21:0
283	98	201	14:27:54.066	117GE105A106A4K	7STRP	0.0,0.038022,0,0	Slew =,0.66	2R3	4	0	4,570,488:29:0
284	98	201	14:29:05.400	117GE105A106A4L	7STRP	0.0015,0.00009,0	Slew =12.01	2R3	4	0	4,570,489:45:0
285	98	201	14:29:10.733	117GE105A106A4M	7STRP	0.0,0.038022,0,0	Slew =,0.66	2R3	4	0	4,570,489:53:0
286	98	201	14:30:22.066	117GE105A106A4N	7STRP	0.0015,0.00009,0	Slew =12.01	2R3	4	0	4,570,490:69:0
287	98	201	14:30:27.400	117GE105A106A4O	7STRP	0.0,0.038022,0,0	Slew =,0.66	2R3	4	0	4,570,490:77:0
288	98	201	14:31:38.733	117GE105A106A4P	7STRP	0.0015,0.00009,0	Slew =12.01	2R3	4	0	4,570,492:02:0
289	98	201	14:31:44.066	117GE105A106A4Q	7STRP	0.0,0.038022,0,0	Slew =,0.66	2R3	4	0	4,570,492:10:0
290	98	201	14:32:55.400	117GE105A106A4R	7STRP	0.0015,0.00009,0	Slew =12.01	2R3	4	0	4,570,493:26:0
291	98	201	14:33:00.733	117GE105A106A4S	7STRP	0.0,0.038022,0,0	Slew =,0.66	2R3	4	0	4,570,493:34:0
292	98	201	14:33:04.733	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	4,570,493:40:0
293	98	201	14:33:04.733		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 769.20 +/-	2R3	4	0	4,570,493:40:0
294	98	201	14:33:06.133		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 769.32 +/-	2R3	4	0	4,570,493:42:1
295	98	201	14:33:11.400		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 770.56 +/-	2R3	4	0	4,570,493:50:0
296	98	201	14:33:12.600		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC * 770.62 +/-	2R3	4	0	4,570,493:51:8
297	98	201	14:33:14.000		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC * 770.50 +/-	2R3	4	0	4,570,493:53:9
298	98	201	14:33:30.066		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC * 766.73 +/-	2R3	4	0	4,570,493:78:0
299	98	201	14:33:52.733		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC * 761.42 +/-	2R3	4	0	4,570,494:21:0
300	98	201	14:33:52.733	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,570,494:21:0
301	98	201	14:33:53.933		DMS:	: *READY	RDY, TRACK 2, REV, TIC * 761.36 +/-	2R3	4	0	4,570,494:22:8
302	98	201	14:34:12.066	117GE105A106A4T	7STRP	0.0015,0.00009,0	Slew =12.01	2R3	4	0	4,570,494:50:0
303	98	201	14:34:17.400	117GE105A106A4U	7STRP	0.0,0.038022,0,0	Slew =,0.66	2R3	4	0	4,570,494:58:0
304	98	201	14:35:28.733	117GE105A106A4V	7STRP	0.0015,0.00009,0	Slew =12.01	2R3	4	0	4,570,495:74:0
305	98	201	14:35:34.066	117GE105A106A4W	7STRP	0.0,0.038022,0,0	Slew =,0.66	2R3	4	0	4,570,495:82:0
306	98	201	14:36:45.400	117GE105A106A4X	7STRP	0.0015,0.00009,0	Slew =12.01	2R3	4	0	4,570,497:07:0
307	98	201	14:36:50.733	117GE105A106A4Y	7STRP	0.0,0.038022,0,0	Slew =,0.66	2R3	4	0	4,570,497:15:0
308	98	201	14:38:02.066	117GE105A106A4Z	7STRP	0.0015,0.00009,0	Slew =12.01	2R3	4	0	4,570,498:31:0
309	98	201	14:38:07.400	117GE105A106A4AA	7STRP	0.0,0.038022,0,0	Slew =,0.66	2R3	4	0	4,570,498:39:0
310	98	201	14:39:18.733	117GE105A106A4AB	7STRP	0.0015,0.00009,0	Slew =12.01	2R3	4	0	4,570,499:55:0
311	98	201	14:39:24.066	117GE105A106A4AC	7STRP	0.0,0.038022,0,0	Slew =,0.66	2R3	4	0	4,570,499:63:0
312	98	201	14:40:35.400	117GE105A106A4AD	7STRP	0.0015,0.00009,0	Slew =12.01	2R3	4	0	4,570,500:79:0
313	98	201	14:40:40.733	117GE105A106A4AE	7STRP	0.0,0.038022,0,0	Slew =,0.66	2R3	4	0	4,570,500:87:0
314	98	201	14:41:52.066	117GE105A106A4AF	7STRP	0.0015,0.00009,0	Slew =12.01	2R3	4	0	4,570,502:12:0
315	98	201	14:41:57.400	117GE105A106A4AG	7STRP	0.0,0.038022,0,0	Slew =,0.66	2R3	4	0	4,570,502:20:0
316	98	201	14:43:08.733	117GE105A106A4AH	7STRP	0.0015,0.00009,0	Slew =12.01	2R3	4	0	4,570,503:36:0
317	98	201	14:43:14.066	117GE105A106A4AI	7STRP	0.0,0.038022,0,0	Slew =,0.66	2R3	4	0	4,570,503:44:0
318	98	201	14:44:25.400	117GE105A106A4AJ	7STRP	0.0015,0.00009,0	Slew =12.01	2R3	4	0	4,570,504:60:0
319	98	201	14:44:30.733	117GE105A106A4AK	7STRP	0.0,0.038022,0,0	Slew =,0.66	2R3	4	0	4,570,504:68:0
320	98	201	14:45:42.066	117GE105A106A4AL	7STRP	0.0015,0.00009,0	Slew =12.01	2R3	4	0	4,570,505:84:0
321	98	201	14:45:47.400	117GE105A106A4AM	7STRP	0.0,0.038022,0,0	Slew =,0.66	2R3	4	0	4,570,506:01:0
322	98	201	14:46:06.733	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	4,570,506:30:0
323	98	201	14:46:06.733		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 761.36 +/-	2R3	4	0	4,570,506:30:0
324	98	201	14:46:08.133		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 761.48 +/-	2R3	4	0	4,570,506:32:1
325	98	201	14:46:13.400		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 762.71 +/-	2R3	4	0	4,570,506:40:0
326	98	201	14:46:14.600		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC * 762.77 +/-	2R3	4	0	4,570,506:41:8
327	98	201	14:46:16.000		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC * 762.65 +/-	2R3	4	0	4,570,506:43:9
328	98	201	14:46:32.066		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC * 758.89 +/-	2R3	4	0	4,570,506:68:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
329	98	201	14:46:54.733		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC * 753.58 +/-	2R3	4	0	4,570,507:11:0
330	98	201	14:46:54.733	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,570,507:11:0
331	98	201	14:46:55.933		DMS:	: *READY	RDY, TRACK 2, REV, TIC * 753.52 +/-	2R3	4	0	4,570,507:12:8
332	98	201	14:46:58.733	117GE105A106A4AN	7STRP	0.0015,0.00009,0	Slew =12.01	2R3	4	0	4,570,507:17:0
333	98	201	14:47:04.066	117GE105A106A4AO	7STRP	0.0,0.038022,0,0	Slew =,0.66	2R3	4	0	4,570,507:25:0
334	98	201	14:48:15.400	117GE105A106A4AP	7STRP	0.0015,0.00009,0	Slew =12.01	2R3	4	0	4,570,508:41:0
335	98	201	14:48:20.733	117GE105A106A4AQ	7STRP	0.0,0.038022,0,0	Slew =,0.66	2R3	4	0	4,570,508:49:0
336	98	201	14:49:32.066	117GE105A106A4AR	7STRP	0.0015,0.00009,0	Slew =12.01	2R3	4	0	4,570,509:65:0
337	98	201	14:49:37.400	117GE105A106A4AS	7STRP	0.0,0.038022,0,0	Slew =,0.66	2R3	4	0	4,570,509:73:0
338	98	201	14:50:48.733	117GE105A106A4AT	7STRP	0.0015,0.00009,0	Slew =12.01	2R3	4	0	4,570,510:89:0
339	98	201	14:50:54.066	117GE105A106A4AU	7STRP	0.0,0.038022,0,0	Slew =,0.66	2R3	4	0	4,570,511:06:0
340	98	201	14:52:05.400	117GE105A106A4AV	7STRP	0.0015,0.00009,0	Slew =12.01	2R3	4	0	4,570,512:22:0
341	98	201	14:52:10.733	117GE105A106A4AW	7STRP	0.0,0.038022,0,0	Slew =,0.66	2R3	4	0	4,570,512:30:0
342	98	201	14:53:22.066	117GE105A106A4AX	7STRP	0.0015,0.00009,0	Slew =12.01	2R3	4	0	4,570,513:46:0
343	98	201	14:53:27.400	117GE105A106A4AY	7STRP	0.0,0.038022,0,0	Slew =,0.66	2R3	4	0	4,570,513:54:0
344	98	201	14:54:38.733	117GE105A106A4AZ	7STRP	0.0015,0.00009,0	Slew =12.01	2R3	4	0	4,570,514:70:0
345	98	201	14:54:44.066	117GE105A106A4BA	7STRP	0.0,0.038022,0,0	Slew =,0.66	2R3	4	0	4,570,514:78:0
346	98	201	14:55:55.400	117GE105A106A4BB	7STRP	0.0015,0.00009,0	Slew =12.01	2R3	4	0	4,570,516:03:0
347	98	201	14:56:00.733	117GE105A106A4BC	7STRP	0.0,0.038022,0,0	Slew =,0.66	2R3	4	0	4,570,516:11:0
348	98	201	14:57:12.066	117GE105A106A4BD	7STRP	0.0015,0.00009,0	Slew =12.01	2R3	4	0	4,570,517:27:0
349	98	201	14:57:17.400	117GE105A106A4BE	7STRP	0.0,0.038022,0,0	Slew =,0.66	2R3	4	0	4,570,517:35:0
350	98	201	14:58:28.733	117GE105A106A4BF	7STRP	0.0015,0.00009,0	Slew =12.01	2R3	4	0	4,570,518:51:0
351	98	201	14:58:34.066	117GE105A106A4BG	7STRP	0.0,0.038022,0,0	Slew =,0.66	2R3	4	0	4,570,518:59:0
352	98	201	14:59:08.733		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 753.52 +/-	2R3	4	0	4,570,519:20:0
353	98	201	14:59:08.733	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	4,570,519:20:0
354	98	201	14:59:10.133		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 753.64 +/-	2R3	4	0	4,570,519:22:1
355	98	201	14:59:15.400		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 754.87 +/-	2R3	4	0	4,570,519:30:0
356	98	201	14:59:16.600		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC * 754.93 +/-	2R3	4	0	4,570,519:31:8
357	98	201	14:59:18.000		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC * 754.81 +/-	2R3	4	0	4,570,519:33:9
358	98	201	14:59:34.066		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC * 751.05 +/-	2R3	4	0	4,570,519:58:0
359	98	201	14:59:45.400	117GE105A106A4BH	7STRP	0.0015,0.00009,0	Slew =12.01	2R3	4	0	4,570,519:75:0
360	98	201	14:59:50.733	117GE105A106A4BI	7STRP	0.0,0.038022,0,0	Slew =,0.66	2R3	4	0	4,570,519:83:0
361	98	201	14:59:56.733		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC * 745.73 +/-	2R3	4	0	4,570,520:01:0
362	98	201	14:59:56.733	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,570,520:01:0
363	98	201	14:59:57.933		DMS:	: *READY	RDY, TRACK 2, REV, TIC * 745.67 +/-	2R3	4	0	4,570,520:02:8
364	98	201	15:00:00.066	488AB6E	6TMSED	NORM,EL7	Sci, Eng, and D/L Chan	2R3	4	0	4,570,520:06:0
365	98	201	15:00:00.733	282ND432A431A6A	6RCDSL	DDSNCG,PLSDSL,EP	Record Deselect (DDS o	2R3	4	0	4,570,520:07:0
366	98	201	15:00:01.400	282ND432A6A	6RTSL1		R/T Select of DDS and	2R3	4	0	4,570,520:08:0
367	98	201	15:01:02.066	117GE105A106A4BJ	7STRP	0.0015,0.00009,0	Slew =12.01	2R3	4	0	4,570,521:08:0
368	98	201	15:01:07.400	117GE105A106A4BK	7STRP	0.0,0.038022,0,0	Slew =,0.66	2R3	4	0	4,570,521:16:0
369	98	201	15:02:18.733	117GE105A106A4BL	7STRP	0.0015,0.00009,0	Slew =12.01	2R3	4	0	4,570,522:32:0
370	98	201	15:02:24.066	117GE105A106A4BM	7STRP	0.0,0.038022,0,0	Slew =,0.66	2R3	4	0	4,570,522:40:0
371	98	201	15:03:35.400	117GE105A106A4BN	7STRP	0.0015,0.00009,0	Slew =12.01	2R3	4	0	4,570,523:56:0
372	98	201	15:03:40.733	117GE105A106A4BO	7STRP	0.0,0.038022,0,0	Slew =,0.66	2R3	4	0	4,570,523:64:0
373	98	201	15:04:52.066	117GE105A106A4BP	7STRP	0.0015,0.00009,0	Slew =12.01	2R3	4	0	4,570,524:80:0
374	98	201	15:04:57.400	117GE105A106A4BQ	7STRP	0.0,0.038022,0,0	Slew =,0.66	2R3	4	0	4,570,524:88:0
375	98	201	15:06:08.733	117GE105A106A4BR	7STRP	0.0015,0.00009,0	Slew =12.01	2R3	4	0	4,570,526:13:0
376	98	201	15:06:14.066	117GE105A106A4BS	7STRP	0.0,0.038022,0,0	Slew =,0.66	2R3	4	0	4,570,526:21:0
377	98	201	15:07:25.400	117GE105A106A4BT	7STRP	0.0015,0.00009,0	Slew =12.01	2R3	4	0	4,570,527:37:0
378	98	201	15:07:30.733	117GE105A106A4BU	7STRP	0.0,0.038022,0,0	Slew =,0.66	2R3	4	0	4,570,527:45:0
379	98	201	15:08:42.066	117GE105A106A4BV	7STRP	0.0015,0.00009,0	Slew =12.01	2R3	4	0	4,570,528:61:0
380	98	201	15:08:47.400	117GE105A106A4BW	7STRP	0.0,0.038022,0,0	Slew =,0.66	2R3	4	0	4,570,528:69:0
381	98	201	15:09:58.733	117GE105A106A4BX	7STRP	0.0015,0.00009,0	Slew =12.01	2R3	4	0	4,570,529:85:0
382	98	201	15:10:04.066	117GE105A106A4BY	7STRP	0.0,0.038022,0,0	Slew =,0.66	2R3	4	0	4,570,530:02:0
383	98	201	15:11:15.400	117GE105A106A4BZ	7STRP	0.0015,0.00009,0	Slew =12.01	2R3	4	0	4,570,531:18:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
384	98	201	15:11:20.733	117GE105A106A4CA	7STRP	0.0,0.038022,0,0	Slew =,0.66	2R3	4	0	4,570,531:26:0
385	98	201	15:12:11.400	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	4,570,532:11:0
386	98	201	15:12:11.400		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 745.67 +/-	2R3	4	0	4,570,532:11:0
387	98	201	15:12:12.800		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 745.79 +/-	2R3	4	0	4,570,532:13:1
388	98	201	15:12:18.066		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 747.03 +/-	2R3	4	0	4,570,532:21:0
389	98	201	15:12:19.266		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC * 747.09 +/-	2R3	4	0	4,570,532:22:8
390	98	201	15:12:20.666		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC * 746.97 +/-	2R3	4	0	4,570,532:24:9
391	98	201	15:12:32.066	117GE105A106A4CB	7STRP	0.0015,0.00009,0	Slew =12.01	2R3	4	0	4,570,532:42:0
392	98	201	15:12:36.066		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC * 743.36 +/-	2R3	4	0	4,570,532:48:0
393	98	201	15:12:37.400	117GE105A106A4CC	7STRP	0.0,0.038022,0,0	Slew =,0.66	2R3	4	0	4,570,532:50:0
394	98	201	15:12:58.733		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC * 738.05 +/-	2R3	4	0	4,570,532:82:0
395	98	201	15:12:58.733	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,570,532:82:0
396	98	201	15:12:59.933		DMS:	: *READY	RDY, TRACK 2, REV, TIC * 737.99 +/-	2R3	4	0	4,570,532:83:8
397	98	201	15:13:48.733	117GE105A106A4CD	7STRP	0.0015,0.00009,0	Slew =12.01	2R3	4	0	4,570,533:66:0
398	98	201	15:13:54.066	117GE105A106A4CE	7STRP	0.0,0.038022,0,0	Slew =,0.66	2R3	4	0	4,570,533:74:0
399	98	201	15:15:05.400	117GE105A106A4CF	7STRP	0.0015,0.00009,0	Slew =12.01	2R3	4	0	4,570,534:90:0
400	98	201	15:15:10.733	117GE105A106A4CG	7STRP	0.0,0.038022,0,0	Slew =,0.66	2R3	4	0	4,570,535:07:0
401	98	201	15:16:22.066	117GE105A106A4CH	7STRP	0.0015,0.00009,0	Slew =12.01	2R3	4	0	4,570,536:23:0
402	98	201	15:16:27.400	117GE105A106A4CI	7STRP	0.0,0.038022,0,0	Slew =,0.66	2R3	4	0	4,570,536:31:0
403	98	201	15:17:38.733	117GE105A106A4CJ	7STRP	0.0015,0.00009,0	Slew =12.01	2R3	4	0	4,570,537:47:0
404	98	201	15:17:44.066	117GE105A106A4CK	7STRP	0.0,0.038022,0,0	Slew =,0.66	2R3	4	0	4,570,537:55:0
405	98	201	15:18:55.400	117GE105A106A4CL	7STRP	0.0015,0.00009,0	Slew =12.01	2R3	4	0	4,570,538:71:0
406	98	201	15:19:00.733	117GE105A106A4CM	7STRP	0.0,0.038022,0,0	Slew =,0.66	2R3	4	0	4,570,538:79:0
407	98	201	15:20:12.066	117GE105A106A4CN	7STRP	0.0015,0.00009,0	Slew =12.01	2R3	4	0	4,570,540:04:0
408	98	201	15:20:17.400	117GE105A106A4CO	7STRP	0.0,0.038022,0,0	Slew =,0.66	2R3	4	0	4,570,540:12:0
409	98	201	15:21:28.733	117GE105A106A4CP	7STRP	0.0015,0.00009,0	Slew =12.01	2R3	4	0	4,570,541:28:0
410	98	201	15:21:34.066	117GE105A106A4CQ	7STRP	0.0,0.038022,0,0	Slew =,0.66	2R3	4	0	4,570,541:36:0
411	98	201	15:22:45.400	117GE105A106A4CR	7STRP	0.0015,0.00009,0	Slew =12.01	2R3	4	0	4,570,542:52:0
412	98	201	15:22:50.733	117GE105A106A4CS	7STRP	0.0,0.038022,0,0	Slew =,0.66	2R3	4	0	4,570,542:60:0
413	98	201	15:24:02.066	117GE105A106A4CT	7STRP	0.0015,0.00009,0	Slew =12.01	2R3	4	0	4,570,543:76:0
414	98	201	15:24:07.400	117GE105A106A4CU	7STRP	0.0,0.038022,0,0	Slew =,0.66	2R3	4	0	4,570,543:84:0
415	98	201	15:25:13.400	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	4,570,545:01:0
416	98	201	15:25:13.400		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 737.99 +/-	2R3	4	0	4,570,545:01:0
417	98	201	15:25:14.800		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 738.11 +/-	2R3	4	0	4,570,545:03:1
418	98	201	15:25:18.733	117GE105A106A4CV	7STRP	0.0015,0.00009,0	Slew =12.01	2R3	4	0	4,570,545:09:0
419	98	201	15:25:20.066		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 739.34 +/-	2R3	4	0	4,570,545:11:0
420	98	201	15:25:21.266		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC * 739.40 +/-	2R3	4	0	4,570,545:12:8
421	98	201	15:25:22.666		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC * 739.28 +/-	2R3	4	0	4,570,545:14:9
422	98	201	15:25:24.066	117GE105A106A4CW	7STRP	0.0,0.038022,0,0	Slew =,0.66	2R3	4	0	4,570,545:17:0
423	98	201	15:25:38.733		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC * 735.51 +/-	2R3	4	0	4,570,545:39:0
424	98	201	15:26:01.400		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC * 730.20 +/-	2R3	4	0	4,570,545:73:0
425	98	201	15:26:01.400	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,570,545:73:0
426	98	201	15:26:02.600		DMS:	: *READY	RDY, TRACK 2, REV, TIC * 730.14 +/-	2R3	4	0	4,570,545:74:8
427	98	201	15:26:35.400	117GE105A106A4CX	7STRP	0.0015,0.00009,0	Slew =12.01	2R3	4	0	4,570,546:33:0
428	98	201	15:26:40.733	117GE105A106A4CY	7STRP	0.0,0.038022,0,0	Slew =,0.66	2R3	4	0	4,570,546:41:0
429	98	201	15:27:52.066	117GE105A106A4CZ	7STRP	0.0015,0.00009,0	Slew =12.01	2R3	4	0	4,570,547:57:0
430	98	201	15:27:57.400	117GE105A106A4DA	7STRP	0.0,0.038022,0,0	Slew =,0.66	2R3	4	0	4,570,547:65:0
431	98	201	15:29:08.733	117GE105A106A4DB	7STRP	0.0015,0.00009,0	Slew =12.01	2R3	4	0	4,570,548:81:0
432	98	201	15:29:14.066	117GE105A106A4DC	7STRP	0.0,0.038022,0,0	Slew =,0.66	2R3	4	0	4,570,548:89:0
433	98	201	15:30:25.400	117GE105A106A4DD	7STRP	0.0015,0.00009,0	Slew =12.01	2R3	4	0	4,570,550:14:0
434	98	201	15:30:30.733	117GE105A106A4DE	7STRP	0.0,0.038022,0,0	Slew =,0.66	2R3	4	0	4,570,550:22:0
435	98	201	15:31:42.066	117GE105A106A4DF	7STRP	0.0015,0.00009,0	Slew =12.01	2R3	4	0	4,570,551:38:0
436	98	201	15:31:47.400	117GE105A106A4DG	7STRP	0.0,0.038022,0,0	Slew =,0.66	2R3	4	0	4,570,551:46:0
437	98	201	15:32:58.733	117GE105A106A4DH	7STRP	0.0015,0.00009,0	Slew =12.01	2R3	4	0	4,570,552:62:0
438	98	201	15:33:04.066	117GE105A106A4DI	7STRP	0.0,0.038022,0,0	Slew =,0.66	2R3	4	0	4,570,552:70:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
439	98	201	15:34:15.400	117GE105A106A4DJ	7STRP	0.0015,0.00009,0	Slew =12.01	2R3	4	0	4,570,553:86:0
440	98	201	15:34:20.733	117GE105A106A4DK	7STRP	0.0,0.038022,0,0	Slew =,0.66	2R3	4	0	4,570,554:03:0
441	98	201	15:35:32.066	117GE105A106A4DL	7STRP	0.0015,0.00009,0	Slew =12.01	2R3	4	0	4,570,555:19:0
442	98	201	15:35:37.400	117GE105A106A4DM	7STRP	0.0,0.038022,0,0	Slew =,0.66	2R3	4	0	4,570,555:27:0
443	98	201	15:36:48.733	117GE105A106A4DN	7STRP	0.0015,0.00009,0	Slew =12.01	2R3	4	0	4,570,556:43:0
444	98	201	15:36:54.066	117GE105A106A4DO	7STRP	0.0,0.038022,0,0	Slew =,0.66	2R3	4	0	4,570,556:51:0
445	98	201	15:38:05.400	117GE105A106A4DP	7STRP	0.0015,0.00009,0	Slew =12.01	2R3	4	0	4,570,557:67:0
446	98	201	15:38:10.733	117GE105A106A4DQ	7STRP	0.0,0.038022,0,0	Slew =,0.66	2R3	4	0	4,570,557:75:0
447	98	201	15:38:15.400	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	4,570,557:82:0
448	98	201	15:38:15.400		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 730.14 +/-	2R3	4	0	4,570,557:82:0
449	98	201	15:38:16.800		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 730.26 +/-	2R3	4	0	4,570,557:84:1
450	98	201	15:38:22.066		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 731.50 +/-	2R3	4	0	4,570,558:01:0
451	98	201	15:38:23.266		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC * 731.56 +/-	2R3	4	0	4,570,558:02:8
452	98	201	15:38:24.666		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC * 731.44 +/-	2R3	4	0	4,570,558:04:9
453	98	201	15:38:40.733		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC * 727.67 +/-	2R3	4	0	4,570,558:29:0
454	98	201	15:39:03.400	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,570,558:63:0
455	98	201	15:39:03.400		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC * 722.36 +/-	2R3	4	0	4,570,558:63:0
456	98	201	15:39:04.600		DMS:	: *READY	RDY, TRACK 2, REV, TIC * 722.30 +/-	2R3	4	0	4,570,558:64:8
457	98	201	15:39:22.066	117GE105A106A4DR	7STRP	0.0015,0.00009,0	Slew =12.01	2R3	4	0	4,570,559:00:0
458	98	201	15:39:27.400	117GE105A106A4DS	7STRP	0.0,0.038022,0,0	Slew =,0.66	2R3	4	0	4,570,559:08:0
459	98	201	15:40:38.733	117GE105A106A4DT	7STRP	0.0015,0.00009,0	Slew =12.01	2R3	4	0	4,570,560:24:0
460	98	201	15:40:44.066	117GE105A106A4DU	7STRP	0.0,0.038022,0,0	Slew =,0.66	2R3	4	0	4,570,560:32:0
461	98	201	15:41:55.400	117GE105A106A4DV	7STRP	0.0015,0.00009,0	Slew =12.01	2R3	4	0	4,570,561:48:0
462	98	201	15:42:00.733	117GE105A106A4DW	7STRP	0.0,0.038022,0,0	Slew =,0.66	2R3	4	0	4,570,561:56:0
463	98	201	15:43:12.066	117GE105A106A4DX	7STRP	0.0015,0.00009,0	Slew =12.01	2R3	4	0	4,570,562:72:0
464	98	201	15:43:17.400	117GE105A106A4DY	7STRP	0.0,0.038022,0,0	Slew =,0.66	2R3	4	0	4,570,562:80:0
465	98	201	15:44:28.733	117GE105A106A4DZ	7STRP	0.0015,0.00009,0	Slew =12.01	2R3	4	0	4,570,564:05:0
466	98	201	15:44:34.066	117GE105A106A4EA	7STRP	0.0,0.038022,0,0	Slew =,0.66	2R3	4	0	4,570,564:13:0
467	98	201	15:45:45.400	117GE105A106A4EB	7STRP	0.0015,0.00009,0	Slew =12.01	2R3	4	0	4,570,565:29:0
468	98	201	15:45:50.733	117GE105A106A4EC	7STRP	0.0,0.038022,0,0	Slew =,0.66	2R3	4	0	4,570,565:37:0
469	98	201	15:47:02.066	117GE105A106A4ED	7STRP	0.0015,0.00009,0	Slew =12.01	2R3	4	0	4,570,566:53:0
470	98	201	15:47:07.400	117GE105A106A4EE	7STRP	0.0,0.038022,0,0	Slew =,0.66	2R3	4	0	4,570,566:61:0
471	98	201	15:48:18.733	117GE105A106A4EF	7STRP	0.0015,0.00009,0	Slew =12.01	2R3	4	0	4,570,567:77:0
472	98	201	15:48:24.066	117GE105A106A4EG	7STRP	0.0,0.038022,0,0	Slew =,0.66	2R3	4	0	4,570,567:85:0
473	98	201	15:49:35.400	117GE105A106A4EH	7STRP	0.0015,0.00009,0	Slew =12.01	2R3	4	0	4,570,569:10:0
474	98	201	15:49:40.733	117GE105A106A4EI	7STRP	0.0,0.038022,0,0	Slew =,0.66	2R3	4	0	4,570,569:18:0
475	98	201	15:50:52.066	117GE105A106A4EJ	7STRP	0.0015,0.00009,0	Slew =12.01	2R3	4	0	4,570,570:34:0
476	98	201	15:50:57.400	117GE105A106A4EK	7STRP	0.0,0.038022,0,0	Slew =,0.66	2R3	4	0	4,570,570:42:0
477	98	201	15:51:18.066		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 722.30 +/-	2R3	4	0	4,570,570:73:0
478	98	201	15:51:18.066	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	4,570,570:73:0
479	98	201	15:51:19.466		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 722.42 +/-	2R3	4	0	4,570,570:75:1
480	98	201	15:51:24.733		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 723.65 +/-	2R3	4	0	4,570,570:83:0
481	98	201	15:51:25.933		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC * 723.71 +/-	2R3	4	0	4,570,570:84:8
482	98	201	15:51:27.333		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC * 723.59 +/-	2R3	4	0	4,570,570:86:9
483	98	201	15:51:42.733		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC * 719.98 +/-	2R3	4	0	4,570,571:19:0
484	98	201	15:52:05.400		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC * 714.67 +/-	2R3	4	0	4,570,571:53:0
485	98	201	15:52:05.400	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,570,571:53:0
486	98	201	15:52:06.600		DMS:	: *READY	RDY, TRACK 2, REV, TIC * 714.61 +/-	2R3	4	0	4,570,571:54:8
487	98	201	15:52:08.733	117GE105A106A4EL	7STRP	0.0015,0.00009,0	Slew =12.01	2R3	4	0	4,570,571:58:0
488	98	201	15:52:14.066	117GE105A106A4EM	7STRP	0.0,0.038022,0,0	Slew =,0.66	2R3	4	0	4,570,571:66:0
489	98	201	15:53:25.400	117GE105A106A4EN	7STRP	0.0015,0.00009,0	Slew =12.01	2R3	4	0	4,570,572:82:0
490	98	201	15:53:30.733	117GE105A106A4EO	7STRP	0.0,0.038022,0,0	Slew =,0.66	2R3	4	0	4,570,572:90:0
491	98	201	15:54:42.066	117GE105A106A4EP	7STRP	0.0015,0.00009,0	Slew =12.01	2R3	4	0	4,570,574:15:0
492	98	201	15:54:47.400	117GE105A106A4EQ	7STRP	0.0,0.038022,0,0	Slew =,0.66	2R3	4	0	4,570,574:23:0
493	98	201	15:55:58.733	117GE105A106A4ER	7STRP	0.0015,0.00009,0	Slew =12.01	2R3	4	0	4,570,575:39:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
494	98	201	15:56:04.066	117GE105A106A4ES	7STRP	0.0,0.038022,0,0	Slew =,0.66	2R3	4	0	4,570,575:47:0
495	98	201	15:57:15.400	117GE105A106A4ET	7STRP	0.0015,0.00009,0	Slew =12.01	2R3	4	0	4,570,576:63:0
496	98	201	15:57:20.733	117GE105A106A4EU	7STRP	0.0,0.038022,0,0	Slew =,0.66	2R3	4	0	4,570,576:71:0
497	98	201	15:58:32.066	117GE105A106A4EV	7STRP	0.0015,0.00009,0	Slew =12.01	2R3	4	0	4,570,577:87:0
498	98	201	15:58:37.400	117GE105A106A4EW	7STRP	0.0,0.038022,0,0	Slew =,0.66	2R3	4	0	4,570,578:04:0
499	98	201	15:59:48.733	117GE105A106A4EX	7STRP	0.0015,0.00009,0	Slew =12.01	2R3	4	0	4,570,579:20:0
500	98	201	15:59:54.066	117GE105A106A4EY	7STRP	0.0,0.038022,0,0	Slew =,0.66	2R3	4	0	4,570,579:28:0
501	98	201	16:01:05.400	117GE105A106A4EZ	7STRP	0.0015,0.00009,0	Slew =12.01	2R3	4	0	4,570,580:44:0
502	98	201	16:01:10.733	117GE105A106A4FA	7STRP	0.0,0.038022,0,0	Slew =,0.66	2R3	4	0	4,570,580:52:0
503	98	201	16:02:22.066	117GE105A106A4FB	7STRP	0.0015,0.00009,0	Slew =12.01	2R3	4	0	4,570,581:68:0
504	98	201	16:02:27.400	117GE105A106A4FC	7STRP	0.0,0.038022,0,0	Slew =,0.66	2R3	4	0	4,570,581:76:0
505	98	201	16:03:38.733	117GE105A106A4FD	7STRP	0.0015,0.00009,0	Slew =12.01	2R3	4	0	4,570,583:01:0
506	98	201	16:03:44.066	117GE105A106A4FE	7STRP	0.0,0.038022,0,0	Slew =,0.66	2R3	4	0	4,570,583:09:0
507	98	201	16:04:20.066		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 714.61 +/-	2R3	4	0	4,570,583:63:0
508	98	201	16:04:20.066	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	4,570,583:63:0
509	98	201	16:04:21.466		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 714.73 +/-	2R3	4	0	4,570,583:65:1
510	98	201	16:04:26.733		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 715.96 +/-	2R3	4	0	4,570,583:73:0
511	98	201	16:04:27.933		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC * 716.02 +/-	2R3	4	0	4,570,583:74:8
512	98	201	16:04:29.333		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC * 715.90 +/-	2R3	4	0	4,570,583:76:9
513	98	201	16:04:45.400		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC * 712.14 +/-	2R3	4	0	4,570,584:10:0
514	98	201	16:04:55.400	117GE105A106A4FF	7STRP	0.0015,0.00009,0	Slew =12.01	2R3	4	0	4,570,584:25:0
515	98	201	16:05:00.733	117GE105A106A4FG	7STRP	0.0,0.038022,0,0	Slew =,0.66	2R3	4	0	4,570,584:33:0
516	98	201	16:05:08.066	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,570,584:44:0
517	98	201	16:05:08.066		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC * 706.83 +/-	2R3	4	0	4,570,584:44:0
518	98	201	16:05:09.266		DMS:	: *READY	RDY, TRACK 2, REV, TIC * 706.77 +/-	2R3	4	0	4,570,584:45:8
519	98	201	16:06:12.066	117GE105A106A4FH	7STRP	0.0015,0.00009,0	Slew =12.01	2R3	4	0	4,570,585:49:0
520	98	201	16:06:17.400	117GE105A106A4FI	7STRP	0.0,0.038022,0,0	Slew =,0.66	2R3	4	0	4,570,585:57:0
521	98	201	16:07:28.733	117GE105A106A4FJ	7STRP	0.0015,0.00009,0	Slew =12.01	2R3	4	0	4,570,586:73:0
522	98	201	16:07:34.066	117GE105A106A4FK	7STRP	0.0,0.038022,0,0	Slew =,0.66	2R3	4	0	4,570,586:81:0
523	**98**	**201**	**16:07:44.733**	**16NNHOTMAP01-**		**-----START------**		**2R3**	**4**	**0**	**: :**
524	98	201	16:08:45.400	117GE105A106A4FL	7STRP	0.0015,0.00009,0	Slew =12.01	2R3	4	0	4,570,588:06:0
525	98	201	16:08:50.733	117GE105A106A4FM	7STRP	0.0,0.038022,0,0	Slew =,0.66	2R3	4	0	4,570,588:14:0
526	**98**	**201**	**16:09:46.066**	**20DC5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**2R3**	**4**	**0**	**4,570,589:06:0**
527	**98**	**201**	**16:09:47.400**	**20DC5B**	**37MRL**		**Memory Realocate (software operates from R**	**2R3**	**4**	**0**	**4,570,589:08:0**
528	**98**	**201**	**16:09:48.733**	**20DC6A**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**2R3**	**4**	**0**	**4,570,589:10:0**
529	**98**	**201**	**16:09:55.400**	**20DC5D**	**37MN**		**Memory Normal (software operates from ROM)**	**2R3**	**4**	**0**	**4,570,589:20:0**
530	**98**	**201**	**16:09:58.733**	**20DC6B**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**2R3**	**4**	**0**	**4,570,589:25:0**
531	98	201	16:10:02.066	117GE105A106A4FN	7STRP	0.0015,0.00009,0	Slew =12.01	2R3	4	0	4,570,589:30:0
532	98	201	16:10:07.400	117GE105A106A4FO	7STRP	0.0,0.038022,0,0	Slew =,0.66	2R3	4	0	4,570,589:38:0
533	**98**	**201**	**16:10:08.733**	**20DC5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**4,570,589:40:0**
534	**98**	**201**	**16:10:51.400**	**20DC4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**4,570,590:13:0**
535	98	201	16:11:18.733	117GE105A106A4FP	7STRP	0.0015,0.00009,0	Slew =12.01	2R0	4	0	4,570,590:54:0
536	98	201	16:11:24.066	117GE105A106A4FQ	7STRP	0.0,0.038022,0,0	Slew =,0.66	2R0	4	0	4,570,590:62:0
537	**98**	**201**	**16:11:47.400**	**16JNHOTMAP01-**		**-----START------**		**2R0**	**4**	**0**	**: :**
538	**98**	**201**	**16:11:47.400**	**16NNHOTMAP01-**		**-----STOP-------**		**2R0**	**4**	**0**	**: :**
539	98	201	16:12:35.400	117GE105A106A4FR	7STRP	0.0015,0.00009,0	Slew =12.01	2R0	4	0	4,570,591:78:0
540	98	201	16:12:40.733	117GE105A106A4FS	7STRP	0.0,0.038022,0,0	Slew =,0.66	2R0	4	0	4,570,591:86:0
541	**98**	**201**	**16:13:40.066**	**125DC4A**	**37IST**	**0,2,0,OFF,0,1,0**	**Gain State 2**	**2R0**	**4**	**0**	**4,570,592:84:0**
542	98	201	16:13:40.066	125DC	NIMSINIT	GS	##### GROUP START INIT	2R0	4	0	4,570,592:84:0
543	98	201	16:13:52.066	117GE105A106A4FT	7STRP	0.0015,0.00009,0	Slew =12.01	2R0	4	0	4,570,593:11:0
544	98	201	16:13:57.400	117GE105A106A4FU	7STRP	0.0,0.038022,0,0	Slew =,0.66	2R0	4	0	4,570,593:19:0
545	98	201	16:14:40.733	125DC11A	NIMSINIT	GE	##### GROUP END INIT	2R0	4	0	4,570,593:84:0
546	**98**	**201**	**16:14:40.733**	**125DC4B**	**37MB**	**0,0,0,0,0,0**	**Selects mirror (spatial) edit table**	**2R0**	**4**	**0**	**4,570,593:84:0**
547	98	201	16:15:08.733	117GE105A106A4FV	7STRP	0.0015,0.00009,0	Slew =12.01	2R0	4	0	4,570,594:35:0
548	98	201	16:15:14.066	117GE105A106A4FW	7STRP	0.0,0.038022,0,0	Slew =,0.66	2R0	4	0	4,570,594:43:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
549	98	201	16:16:25.400	117GE105A106A4FX	7STRP	0.0015,0.00009,0	Slew =12.01	2R0	4	0	4,570,595:59:0	
550	98	201	16:16:30.733	117GE105A106A4FY	7STRP	0.0,0.038022,0,0	Slew =,0.66	2R0	4	0	4,570,595:67:0	
551	98	201	16:17:22.066		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 706.77 +/-	2R0	4	0	4,570,596:53:0	
552	98	201	16:17:22.066	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R0	4	0	4,570,596:53:0	
553	98	201	16:17:23.466		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 706.89 +/-	2R0	4	0	4,570,596:55:1	
554	98	201	16:17:28.733		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 708.12 +/-	2R0	4	0	4,570,596:63:0	
555	98	201	16:17:29.933		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC * 708.18 +/-	2R0	4	0	4,570,596:64:8	
556	98	201	16:17:31.333		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC * 708.06 +/-	2R0	4	0	4,570,596:66:9	
557	98	201	16:17:42.066	117GE11A	**CSMOS**	GE	***** GROUP END CSMOS	2R0	4	0	4,570,596:83:0	
558	98	201	16:17:42.733	127DC	NIMSTAB	GS	%%%%% GROUP START TAB	2R0	4	0	4,570,596:84:0	
559	**98**	**201**	**16:17:42.733**	**127DC4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**4,570,596:84:0**	
560	**98**	**201**	**16:17:43.400**	**127DC4B**	**37ETB**		**Loads wavelength edit table**	**2R3**	**4**	**0**	**4,570,596:85:0**	
561	98	201	16:17:47.400		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC * 704.30 +/-	2R3	4	0	4,570,597:00:0	
562	98	201	16:17:47.400	176GE6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	4,570,597:00:0	
563	98	201	16:17:51.400	127DC11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	4,570,597:06:0	
564	98	201	16:18:09.400		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC * 699.14 +/-	2R3	4	0	4,570,597:33:0	
565	98	201	16:18:09.400	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,570,597:33:0	
566	98	201	16:18:10.600		DMS:	: *READY	RDY, TRACK 2, REV, TIC * 699.08 +/-	2R3	4	0	4,570,597:34:8	
567	98	201	16:18:47.400	165DC4A	7SCAN	NORM,307.081997,	Check S/P Position	2R3	4	0	4,570,597:90:0	
568	98	201	16:22:38.733		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 699.08 +/-	2R3	4	0	4,570,601:73:0	
569	98	201	16:22:38.733	175DC422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	4,570,601:73:0	
570	98	201	16:22:40.133		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 699.20 +/-	2R3	4	0	4,570,601:75:1	
571	98	201	16:22:41.400	117DC	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	4,570,601:77:0	
572	98	201	16:22:45.400		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 700.43 +/-	2R3	4	0	4,570,601:83:0	
573	98	201	16:22:46.600		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC * 700.49 +/-	2R3	4	0	4,570,601:84:8	
574	98	201	16:22:47.400	175DC176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R3	4	0	4,570,601:86:0	
575	98	201	16:22:48.000		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC * 700.37 +/-	2R3	4	0	4,570,601:86:9	
576	98	201	16:22:48.000		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC 700.37 +/-	2R3	4	0	4,570,601:86:9	
577	98	201	16:22:49.400	165DC4B	7VECT		Inert vect update UTC	2R3	4	0	4,570,601:89:0	
578	98	201	16:22:50.733	117DC105A106A4A	**7STRP**	**-0.021203,0.0,0,**	**Slew =,0.03**	2R3	4	0	4,570,602:00:0	
579	98	201	16:26:58.733	488AC6A	6TMSED	NORM,EL5	Sci, Eng, and D/L Chan	2R3	4	0	4,570,606:08:0	
580	**98**	**201**	**16:30:00.066**	**16JNHOTMAP01-**	**NIMPBK**	**301DB**	**JUPITER HOT MAP OBSERVATION**	**2R3**	**4**	**0**	**: :**	
581	**98**	**201**	**16:31:10.066**	**16JNHOTMAP01-**	**DESELC**	**300DB**	**JUPITER HOT MAP OBSERVATION**	**2R3**	**4**	**0**	**: :**	
582	98	201	16:34:42.066	117DC105A106A4B	**7STRP**	**0.034013,-0.004,**	**Slew =12.01**	2R3	4	0	4,570,613:66:0	
583	98	201	16:34:50.066	117DC105A106A4C	**7STRP**	**-0.021203,0.0,0,**	**Slew =,0.03**	2R3	4	0	4,570,613:78:0	
584	98	201	16:46:41.400	117DC11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	4,570,625:53:0	
585	98	201	16:46:46.733		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC * 363.17 +/-	2R3	4	0	4,570,625:61:0	
586	98	201	16:46:46.733	175DC422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,570,625:61:0	
587	98	201	16:46:46.733	175DC6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	4,570,625:61:0	
588	98	201	16:46:47.933		DMS:	: *READY	RDY, TRACK 2, REV, TIC * 363.11 +/-	2R3	4	0	4,570,625:62:8	
589	98	201	16:48:11.400	444UD443A4A	**7MODE**	**CRU**	AACS CRUISE MODE	2R3	4	0	4,570,627:06:0	
590	**98**	**201**	**16:52:14.066**	**16JNHOTMAP01-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**	
591	98	201	16:55:11.400	165GF4A	7SCAN	NORM,303.334,-20	Check S/P Position	2R3	4	0	4,570,633:90:0	
592	98	201	16:58:14.066	176GF6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R3	4	0	4,570,637:00:0	
593	98	201	16:59:05.400	117GF	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	4,570,637:77:0	
594	98	201	16:59:14.733	117GF105A106A4A	7STRP	-0.001,0.037525,	Slew =0,0.7	2R3	4	0	4,570,638:00:0	
595	98	201	17:00:33.400	117GF105A106A4B	7STRP	0.0018,0.0001,0,	Slew =12.01	2R3	4	0	4,570,639:27:0	
596	98	201	17:00:40.066	117GF105A106A4C	7STRP	-0.001,0.037525,	Slew =0,0.7	2R3	4	0	4,570,639:37:0	
597	98	201	17:01:58.733	117GF105A106A4D	7STRP	0.0018,0.0001,0,	Slew =12.01	2R3	4	0	4,570,640:64:0	
598	98	201	17:02:05.400	117GF105A106A4E	7STRP	-0.001,0.037525,	Slew =0,0.7	2R3	4	0	4,570,640:74:0	
599	98	201	17:03:24.066	117GF105A106A4F	7STRP	0.0018,0.0001,0,	Slew =12.01	2R3	4	0	4,570,642:10:0	
600	98	201	17:03:30.733	117GF105A106A4G	7STRP	-0.001,0.037525,	Slew =0,0.7	2R3	4	0	4,570,642:20:0	
601	98	201	17:04:49.400	117GF105A106A4H	7STRP	0.0018,0.0001,0,	Slew =12.01	2R3	4	0	4,570,643:47:0	
602	98	201	17:04:56.066	117GF105A106A4I	7STRP	-0.001,0.037525,	Slew =0,0.7	2R3	4	0	4,570,643:57:0	
603	98	201	17:06:14.733	117GF105A106A4J	7STRP	0.0018,0.0001,0,	Slew =12.01	2R3	4	0	4,570,644:84:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
604	98	201	17:06:21.400	117GF105A106A4K	7STRP	-0.001,0.037525,	Slew =0,0.7	2R3	4	0	4,570,645:03:0
605	98	201	17:07:40.066	117GF105A106A4L	7STRP	0.0018,0.0001,0,	Slew =12.01	2R3	4	0	4,570,646:30:0
606	98	201	17:07:46.733	117GF105A106A4M	7STRP	-0.001,0.037525,	Slew =0,0.7	2R3	4	0	4,570,646:40:0
607	98	201	17:09:05.400	117GF105A106A4N	7STRP	0.0018,0.0001,0,	Slew =12.01	2R3	4	0	4,570,647:67:0
608	98	201	17:09:12.066	117GF105A106A4O	7STRP	-0.001,0.037525,	Slew =0,0.7	2R3	4	0	4,570,647:77:0
609	98	201	17:10:30.733	117GF105A106A4P	7STRP	0.0018,0.0001,0,	Slew =12.01	2R3	4	0	4,570,649:13:0
610	98	201	17:10:37.400	117GF105A106A4Q	7STRP	-0.001,0.037525,	Slew =0,0.7	2R3	4	0	4,570,649:23:0
611	98	201	17:10:48.733		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 363.11 +/-	2R3	4	0	4,570,649:40:0
612	98	201	17:10:48.733	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	4,570,649:40:0
613	98	201	17:10:50.133		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 363.23 +/-	2R3	4	0	4,570,649:42:1
614	98	201	17:10:55.400		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 364.46 +/-	2R3	4	0	4,570,649:50:0
615	98	201	17:10:56.600		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC * 364.52 +/-	2R3	4	0	4,570,649:51:8
616	98	201	17:10:58.000		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC * 364.40 +/-	2R3	4	0	4,570,649:53:9
617	98	201	17:11:14.066		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC * 360.64 +/-	2R3	4	0	4,570,649:78:0
618	98	201	17:11:36.733		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC * 355.33 +/-	2R3	4	0	4,570,650:21:0
619	98	201	17:11:36.733	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,570,650:21:0
620	98	201	17:11:37.933		DMS:	: *READY	RDY, TRACK 2, REV, TIC * 355.27 +/-	2R3	4	0	4,570,650:22:8
621	98	201	17:11:56.066	117GF105A106A4R	7STRP	0.0018,0.0001,0,	Slew =12.01	2R3	4	0	4,570,650:50:0
622	98	201	17:12:02.733	117GF105A106A4S	7STRP	-0.001,0.037525,	Slew =0,0.7	2R3	4	0	4,570,650:60:0
623	98	201	17:13:21.400	117GF105A106A4T	7STRP	0.0018,0.0001,0,	Slew =12.01	2R3	4	0	4,570,651:87:0
624	98	201	17:13:28.066	117GF105A106A4U	7STRP	-0.001,0.037525,	Slew =0,0.7	2R3	4	0	4,570,652:06:0
625	98	201	17:14:46.733	117GF105A106A4V	7STRP	0.0018,0.0001,0,	Slew =12.01	2R3	4	0	4,570,653:33:0
626	98	201	17:14:53.400	117GF105A106A4W	7STRP	-0.001,0.037525,	Slew =0,0.7	2R3	4	0	4,570,653:43:0
627	98	201	17:16:12.066	117GF105A106A4X	7STRP	0.0018,0.0001,0,	Slew =12.01	2R3	4	0	4,570,654:70:0
628	98	201	17:16:18.733	117GF105A106A4Y	7STRP	-0.001,0.037525,	Slew =0,0.7	2R3	4	0	4,570,654:80:0
629	98	201	17:17:37.400	117GF105A106A4Z	7STRP	0.0018,0.0001,0,	Slew =12.01	2R3	4	0	4,570,656:16:0
630	98	201	17:17:44.066	117GF105A106A4AA	7STRP	-0.001,0.037525,	Slew =0,0.7	2R3	4	0	4,570,656:26:0
631	98	201	17:19:02.733	117GF105A106A4AB	7STRP	0.0018,0.0001,0,	Slew =12.01	2R3	4	0	4,570,657:53:0
632	98	201	17:19:09.400	117GF105A106A4AC	7STRP	-0.001,0.037525,	Slew =0,0.7	2R3	4	0	4,570,657:63:0
633	98	201	17:20:28.066	117GF105A106A4AD	7STRP	0.0018,0.0001,0,	Slew =12.01	2R3	4	0	4,570,658:90:0
634	98	201	17:20:34.733	117GF105A106A4AE	7STRP	-0.001,0.037525,	Slew =0,0.7	2R3	4	0	4,570,659:09:0
635	98	201	17:21:53.400	117GF105A106A4AF	7STRP	0.0018,0.0001,0,	Slew =12.01	2R3	4	0	4,570,660:36:0
636	98	201	17:22:00.066	117GF105A106A4AG	7STRP	-0.001,0.037525,	Slew =0,0.7	2R3	4	0	4,570,660:46:0
637	98	201	17:23:18.733	117GF105A106A4AH	7STRP	0.0018,0.0001,0,	Slew =12.01	2R3	4	0	4,570,661:73:0
638	98	201	17:23:25.400	117GF105A106A4AI	7STRP	-0.001,0.037525,	Slew =0,0.7	2R3	4	0	4,570,661:83:0
639	98	201	17:23:50.733		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 355.27 +/-	2R3	4	0	4,570,662:30:0
640	98	201	17:23:50.733	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	4,570,662:30:0
641	98	201	17:23:52.133		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 355.39 +/-	2R3	4	0	4,570,662:32:1
642	98	201	17:23:57.400		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 356.62 +/-	2R3	4	0	4,570,662:40:0
643	98	201	17:23:58.600		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC * 356.68 +/-	2R3	4	0	4,570,662:41:8
644	98	201	17:24:00.000		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC * 356.56 +/-	2R3	4	0	4,570,662:43:9
645	98	201	17:24:16.066		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC * 352.80 +/-	2R3	4	0	4,570,662:68:0
646	98	201	17:24:38.733	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,570,663:11:0
647	98	201	17:24:38.733		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC * 347.48 +/-	2R3	4	0	4,570,663:11:0
648	98	201	17:24:39.933		DMS:	: *READY	RDY, TRACK 2, REV, TIC * 347.42 +/-	2R3	4	0	4,570,663:12:8
649	98	201	17:24:44.066	117GF105A106A4AJ	7STRP	0.0018,0.0001,0,	Slew =12.01	2R3	4	0	4,570,663:19:0
650	98	201	17:24:50.733	117GF105A106A4AK	7STRP	-0.001,0.037525,	Slew =0,0.7	2R3	4	0	4,570,663:29:0
651	98	201	17:26:09.400	117GF105A106A4AL	7STRP	0.0018,0.0001,0,	Slew =12.01	2R3	4	0	4,570,664:56:0
652	98	201	17:26:16.066	117GF105A106A4AM	7STRP	-0.001,0.037525,	Slew =0,0.7	2R3	4	0	4,570,664:66:0
653	98	201	17:27:34.733	117GF105A106A4AN	7STRP	0.0018,0.0001,0,	Slew =12.01	2R3	4	0	4,570,666:02:0
654	98	201	17:27:41.400	117GF105A106A4AO	7STRP	-0.001,0.037525,	Slew =0,0.7	2R3	4	0	4,570,666:12:0
655	98	201	17:29:00.066	117GF105A106A4AP	7STRP	0.0018,0.0001,0,	Slew =12.01	2R3	4	0	4,570,667:39:0
656	98	201	17:29:06.733	117GF105A106A4AQ	7STRP	-0.001,0.037525,	Slew =0,0.7	2R3	4	0	4,570,667:49:0
657	98	201	17:30:25.400	117GF105A106A4AR	7STRP	0.0018,0.0001,0,	Slew =12.01	2R3	4	0	4,570,668:76:0
658	98	201	17:30:32.066	117GF105A106A4AS	7STRP	-0.001,0.037525,	Slew =0,0.7	2R3	4	0	4,570,668:86:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
659	98	201	17:31:50.733	117GF105A106A4AT	7STRP	0.0018,0.0001,0,	Slew =12.01	2R3	4	0	4,570,670:22:0	
660	98	201	17:31:57.400	117GF105A106A4AU	7STRP	-0.001,0.037525,	Slew =0,0.7	2R3	4	0	4,570,670:32:0	
661	98	201	17:33:16.066	117GF105A106A4AV	7STRP	0.0018,0.0001,0,	Slew =12.01	2R3	4	0	4,570,671:59:0	
662	98	201	17:33:22.733	117GF105A106A4AW	7STRP	-0.001,0.037525,	Slew =0,0.7	2R3	4	0	4,570,671:69:0	
663	98	201	17:34:41.400	117GF105A106A4AX	7STRP	0.0018,0.0001,0,	Slew =12.01	2R3	4	0	4,570,673:05:0	
664	98	201	17:34:48.066	117GF105A106A4AY	7STRP	-0.001,0.037525,	Slew =0,0.7	2R3	4	0	4,570,673:15:0	
665	98	201	17:35:46.066	117GF11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	4,570,674:11:0	
666	98	201	17:35:46.066	176GF6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	4,570,674:11:0	
667	98	201	17:35:48.066	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	4,570,674:14:0	
668	98	201	17:35:48.066		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 347.42 +/-	2R3	4	0	4,570,674:14:0	
669	98	201	17:35:49.466		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 347.54 +/-	2R3	4	0	4,570,674:16:1	
670	98	201	17:35:54.733		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 348.78 +/-	2R3	4	0	4,570,674:24:0	
671	98	201	17:35:55.933		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC * 348.84 +/-	2R3	4	0	4,570,674:25:8	
672	98	201	17:35:57.333		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC * 348.72 +/-	2R3	4	0	4,570,674:27:9	
673	98	201	17:35:58.066		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC * 348.55 +/-	2R3	4	0	4,570,674:29:0	
674	98	201	17:36:18.733		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC * 343.70 +/-	2R3	4	0	4,570,674:60:0	
675	98	201	17:36:18.733	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,570,674:60:0	
676	98	201	17:36:19.933		DMS:	: *READY	RDY, TRACK 2, REV, TIC * 343.64 +/-	2R3	4	0	4,570,674:61:8	
677	**98**	**201**	**20:58:56.733**	**16NNHOTMAP02-**		**-----START------**					**: :**	
678	**98**	**201**	**21:02:59.400**	**16NNHOTMAP02-**		**-----STOP-------**					**: :**	
679	**98**	**201**	**21:02:59.400**	**16JNHOTMAP02-**		**-----START------**					**: :**	
680	**98**	**201**	**21:29:16.733**	**16JNHOTMAP02-**		**-----STOP-------**					**: :**	
681	**98**	**202**	**04:28:53.400**	**16NNSUCOMP01-**		**-----START------**					**: :**	
682	**98**	**202**	**04:32:56.067**	**16NNSUCOMP01-**		**-----STOP-------**					**: :**	
683	**98**	**202**	**04:32:56.067**	**16ENSUCOMP01-**		**-----START------**					**: :**	
684	**98**	**202**	**04:35:40.000**	**16NNDAC___01-**		**-----START------**					**: :**	
685	**98**	**202**	**04:35:48.733**	**33B4A**	**37IST**	**0,2,0,OFF,0,1,2**	**Gain State 3**				**4,571,326:83:0**	
686	**98**	**202**	**04:36:40.000**	**16NNDAC___01-**		**-----STOP-------**					**: :**	
687	**98**	**202**	**05:00:14.067**	**16ENSUCOMP01-**		**-----STOP-------**					**: :**	
688	**98**	**202**	**05:10:20.733**	**16NNSUCOMP02-**		**-----START------**					**: :**	
689	**98**	**202**	**05:14:23.399**	**16ENSUCOMP02-**		**-----START------**					**: :**	
690	**98**	**202**	**05:14:23.399**	**16NNSUCOMP02-**		**-----STOP-------**					**: :**	
691	**98**	**202**	**05:33:36.066**	**16ENSUCOMP03-**		**-----START------**					**: :**	
692	**98**	**202**	**05:33:36.066**	**16ENSUCOMP02-**		**-----STOP-------**					**: :**	
693	**98**	**202**	**05:34:27.000**	**16NNDAC___02-**		**-----START------**					**: :**	
694	**98**	**202**	**05:34:27.400**	**33A4A**	**37IOP**	**4,0**	**Long Spectrometer, Grating Start Position**				**4,571,384:83:0**	
695	**98**	**202**	**05:34:28.000**	**16NNDAC___02-**		**-----STOP-------**					**: :**	
696	**98**	**202**	**05:49:46.733**	**16ENSUCOMP03-**		**-----STOP-------**					**: :**	
697	**98**	**202**	**06:22:08.066**	**16NNSUCOMP04-**		**-----START------**					**: :**	
698	**98**	**202**	**06:26:10.733**	**16NNSUCOMP04-**		**-----STOP-------**					**: :**	
699	**98**	**202**	**06:26:10.733**	**16ENSUCOMP04-**		**-----START------**					**: :**	
700	**98**	**202**	**06:49:26.066**	**16ENSUCOMP04-**		**-----STOP-------**					**: :**	
701	**98**	**202**	**10:03:34.066**	**16NNGLOBAL01-**		**-----START------**					**: :**	
702	**98**	**202**	**10:07:36.733**	**16NNGLOBAL01-**		**-----STOP-------**					**: :**	
703	**98**	**202**	**10:07:36.733**	**16ENGLOBAL01-**		**-----START------**					**: :**	
704	**98**	**202**	**11:04:14.066**	**16ENGLOBAL01-**		**-----STOP-------**					**: :**	
705	**98**	**202**	**11:55:48.066**	**16NNWHTOVL01-**		**-----START------**					**: :**	
706	**98**	**202**	**11:57:49.399**	**16NNWHTOVL01-**		**-----STOP-------**					**: :**	
707	**98**	**202**	**11:57:49.399**	**16JNWHTOVL01-**		**-----START------**					**: :**	
708	**98**	**202**	**12:38:16.066**	**16JNWHTOVL01-**		**-----STOP-------**					**: :**	
709	**98**	**202**	**13:26:48.066**	**16NNJUPRTS02-**		**-----START------**					**: :**	
710	**98**	**202**	**13:28:49.399**	**16NNJUPRTS02-**		**-----STOP-------**					**: :**	
711	**98**	**202**	**13:28:49.399**	**16JNJUPRTS02***		**-----START------**					**: :**	
712	**98**	**202**	**13:51:04.066**	**16JNJUPRTS02***		**-----STOP-------**					**: :**	
713	**98**	**202**	**15:20:02.732**	**16NNJUPRTS03-**		**-----START------**					**: :**	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
714	98	202	15:24:05.399	16NNJUPRTS03-		-----STOP-------					: :	
715	98	202	15:24:05.399	16JNJUPRTS03*		-----START------					: :	
716	98	202	15:52:24.066	16JNJUPRTS03*		-----STOP-------					: :	
717	98	202	16:33:51.400	16NNGLOBAL02-		-----START------					: :	
718	98	202	16:35:52.734	16NNGLOBAL02-		-----STOP-------					: :	
719	98	202	16:35:52.734	16GNGLOBAL01*		-----START------					: :	
720	98	202	17:44:38.067	16GNGLOBAL01*		-----STOP-------					: :	
721	98	202	20:25:24.066	16NNJUPWHT01-		-----START------					: :	
722	98	202	20:27:25.399	16NNJUPWHT01-		-----STOP-------					: :	
723	98	202	20:27:25.399	16JNJUPWHT01-		-----START------					: :	
724	98	202	20:32:10.733	33C4A	37IOP	5,1	Short Map, Grating Start Position =01				4,572,272:70:0	
725	98	202	20:32:19.000	16NNDAC___03-		-----START------					: :	
726	98	202	20:32:20.733	33D4A	37ETB	04,C4,0F,FF,FF	Loads wavelength edit table				4,572,272:85:0	
727	98	202	20:32:21.000	16NNDAC___03-		-----STOP-------					: :	
728	98	203	04:53:59.399	16JNJUPWHT01-		-----STOP-------					: :	
729	98	203	08:21:16.066	16NNCHOPOF01-		-----START------					: :	
730	98	203	08:31:22.732	16NNCHOPOF01-		-----STOP-------					: :	
731	98	205	15:12:01.266	20ZS6A	6CKSUM	MAG,4040,46F0					4,576,228:60:0	
732	98	205	15:12:41.266	20ZS6B	6MROH	12	read from LLM1A12,2282,0,A1				4,576,229:29:0	
733	98	205	15:12:41.266	20ZS6B	6MROH	12,2282,0,A10	read from LLM1A12,2282,0,A1				4,576,229:29:0	
734	98	205	15:19:59.933	20ZU3Q	37HR	1	Replacement Heaters OFF				4,576,236:50:0	
735	98	205	15:20:01.933	20ZU3S	37HR	2	Replacement Heaters OFF				4,576,236:53:0	
736	98	205	15:20:27.933	20ZU3R	37A	1	NIMS Power ON	260	4	0	4,576,237:01:0	
737	98	205	15:20:29.933	20ZU3T	37A	2	NIMS Power ON	260	4	0	4,576,237:04:0	
738	98	205	15:22:29.266	20ZU4A	37IST	1,2,0,OFF,0,0,0	Chopper ON, Sync, Chopper (Ref)	2R0	4	0	4,576,239:01:0	
739	98	205	15:52:59.933	41V99A	POWER	PWR MODE change	Change to Maneuver/Playback Mode	2R0	4	0	4,576,269:17:0	
740	98	205	15:54:53.933	41V3G	40T1P	1	PCT Heater 1 ON (primary relay)	2R0	4	0	4,576,271:06:0	
741	98	205	15:55:03.933	41V3H	40T1P	2	PCT Heater 1 ON (primary relay)	2R0	4	0	4,576,271:21:0	
742	98	205	15:55:13.933	41V3I	40T2	1	PCT Heater 2 ON	2R0	4	0	4,576,271:36:0	
743	98	205	15:55:23.933	41V3J	40T2	2	PCT Heater 2 ON	2R0	4	0	4,576,271:51:0	
744	98	205	16:00:03.933	20RA6A	6MROH	44,2266,0,A10	read from LLM2A44,2266,0,A1	2R0	4	0	4,576,276:16:0	
745	98	205	16:02:03.933	20RA6B	6MROH	45,2255,0,B10	read from LLM2B45,2255,0,B1	2R0	4	0	4,576,278:14:0	
746	98	208	19:36:05.733		DMS:	: *SLEW-TIC	P7, TRACK *1, *FWD, TIC 343.64 +/-	2R0	4	0	4,580,762:33:0	
747	98	208	19:36:05.733		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 343.64 +/-	2R0	4	0	4,580,762:33:0	
748	98	208	19:36:12.400		DMS:	: *RUNUP	P7, TRACK 1, FWD, TIC 343.64 +/-	2R0	4	0	4,580,762:43:0	
749	98	208	19:36:13.800		DMS:	: *AT_SPD	P7, TRACK 1, FWD, TIC * 343.76 +/-	2R0	4	0	4,580,762:45:1	
750	98	208	19:36:21.866		DMS:	: *RUNDOWN	P7, TRACK 1, FWD, TIC * 345.94 +/-	2R0	4	0	4,580,762:57:2	
751	98	208	19:36:23.066		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 346.00 +/-	2R0	4	0	4,580,762:59:0	
752	98	208	23:59:59.733		DMS:	: READY	RDY, TRACK 1, FWD, TIC 346.00 +/-	2R0	4	0	4,581,023:33:0	
753	98	209	00:00:00.000	20A3EW	37A	Final Condition	NIMS Power ON	2R0	4	0	4,581,023:33:4	
754	98	209	00:00:00.000	20A3EX	37HR	Final Condition	Replacement Heaters OFF	2R0	4	0	4,581,023:33:4	
755	98	209	00:00:00.000	20A3EY	37C1PR	Final Condition	Optics Heater 1 OFF (primary relay)	2R0	4	0	4,581,023:33:4	
756	98	209	00:00:00.000	20A3EZ	37C2PR	Final Condition	Optics Heater 2 OFF (primary relay)	2R0	4	0	4,581,023:33:4	
757	98	209	00:00:00.000	20A3FA	37F1PR	Final Condition	Radiator Flash Heater OFF (primary relay)	2R0	4	0	4,581,023:33:4	
758	98	209	00:00:00.000	20A3FB	37F2PR	Final Condition	Shield Flash Heater OFF (primary relay)	2R0	4	0	4,581,023:33:4	
759	98	209	00:00:00.000	20A3FD	40HRPR	Final Condition	RCT Heater OFF (primary relay)	2R0	4	0	4,581,023:33:4	
760	98	209	00:00:00.000	20A3FE	40T1P	Final Condition	PCT Heater 1 ON (primary relay)	2R0	4	0	4,581,023:33:4	
761	98	209	00:00:00.000	20A3FF	40T2	Final Condition	PCT Heater 2 ON	2R0	4	0	4,581,023:33:4	

Sequence: E16B-AR Created: 10/14/98 Begin: 98-209/00:00:00 Finish: 98-268/04:00:00

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1	98	208	23:59:59.733		DMS:	: READY	RDY, TRACK 1, FWD, TIC 346.00 +/-	2R0	4	0	4,581,023:33:0	
2	98	209	00:00:00.000	20A3FF	40T2	CMD,40T2,20A3FF,	PCT Heater 2 ON	2R0	4	0	4,581,023:33:4	
3	98	209	00:00:00.000	20A3EW	37A	CMD,37A,20A3EW,,	NIMS Power ON	2R0	4	0	4,581,023:33:4	
4	98	209	00:00:00.000	20A3EX	37HR	CMD,37HR,20A3EX,	Replacement Heaters OFF	2R0	4	0	4,581,023:33:4	
5	98	209	00:00:00.000	20A3EY	37C1PR	CMD,37C1PR,20A3E	Optics Heater 1 OFF (primary relay)	2R0	4	0	4,581,023:33:4	
6	98	209	00:00:00.000	20A3EZ	37C2PR	CMD,37C2PR,20A3E	Optics Heater 2 OFF (primary relay)	2R0	4	0	4,581,023:33:4	
7	98	209	00:00:00.000	20A3FA	37F1PR	CMD,37F1PR,20A3F	Radiator Flash Heater OFF (primary relay)	2R0	4	0	4,581,023:33:4	
8	98	209	00:00:00.000	20A3FB	37F2PR	CMD,37F2PR,20A3F	Shield Flash Heater OFF (primary relay)	2R0	4	0	4,581,023:33:4	
9	98	209	00:00:00.000	20A3FD	40HRPR	CMD,40HRPR,20A3F	RCT Heater OFF (primary relay)	2R0	4	0	4,581,023:33:4	
10	98	209	00:00:00.000	20A3FE	40T1P	CMD,40T1P,20A3FE	PCT Heater 1 ON (primary relay)	2R0	4	0	4,581,023:33:4	
11	98	210	16:00:59.666	432NA6B	6RTDS2	NIMDSL,AACNCG,RT	NIMS R/T DESELECT	2R0	4	0	4,583,397:89:0	
12	98	210	16:01:00.333	432NA431A6A	6RCDSL	DDSDSL,PLSDSL,EP	Record Deselect (DDS o	2R0	4	0	4,583,397:90:0	
13	98	210	16:01:01.000	432NA6D	6RTSL2	NIMNCG,AACSEL,RT	AACS SELECT	2R0	4	0	4,583,398:00:0	
14	98	210	16:01:01.000	432NA6C	6RTSL1		R/T Select of DDS and	2R0	4	0	4,583,398:00:0	
15	98	210	16:01:22.333	488AA6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2R0	4	0	4,583,398:32:0	
16	98	210	17:05:00.333	488AA6B	6TMSED	NORM,AH7	Sci, Eng, and D/L Chan	2R0	4	0	4,583,461:26:0	
17	98	210	17:08:45.666	176SH6A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	2R0	4	0	4,583,465:00:0	
18	98	210	17:39:00.333	20SQ4I	7MODE	INT	AACS INERTIAL MODE	2R0	4	0	4,583,494:83:0	
19	98	210	17:54:00.333	20SQ4K	7SLEW	INIT,POS,17.45	Stator movement	2R0	4	0	4,583,509:68:0	
20	98	210	18:06:00.333	20SQ4L	7SLEW	DIS,POS,0.0	Stator movement	2R0	4	0	4,583,521:56:0	
21	98	210	18:13:00.333	20SQ4M	7SLEW	INIT,NEG,17.45	Stator movement	2R0	4	0	4,583,528:49:0	
22	98	210	18:25:00.333	20SQ4N	7SLEW	DIS,POS,0.0	Stator movement	2R0	4	0	4,583,540:37:0	
23	98	210	18:37:00.333	20SQ4AH	7MODE	CRU	AACS CRUISE MODE	2R0	4	0	4,583,552:25:0	
24	98	210	18:53:04.333	20ST4A	7SAFE	STOP	S/P NO MOVEMENT	2R0	4	0	4,583,568:15:0	
25	98	210	18:53:54.333	20ST4B	7SLEW	DIS,POS,0.0	Stator movement	2R0	4	0	4,583,568:90:0	
26	98	210	18:54:55.666	176SJ6A	6TMREC	RPB	RESUME PLAYBACK (PB CONTROL) Record Mode	2R0	4	0	4,583,570:00:0	
27	98	210	19:13:00.333	488AA6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2R0	4	0	4,583,587:80:0	
28	98	210	20:51:30.333	488AA6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2R0	4	0	4,583,685:27:0	
29	98	210	21:57:38.333	488AB6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R0	4	0	4,583,750:64:0	
30	98	210	22:08:18.333	488AB6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2R0	4	0	4,583,761:23:0	
31	98	210	22:08:48.333	488AB6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	2R0	4	0	4,583,761:68:0	
32	98	210	22:29:38.333	488AB6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2R0	4	0	4,583,782:32:0	
33	98	211	11:41:54.266	488AC6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2R0	4	0	4,584,565:83:0	
34	98	211	12:49:22.266	488AC6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2R0	4	0	4,584,632:58:0	
35	98	211	13:17:02.266		DMS:	: READY	RDY, TRACK *2, *REV, TIC 346.00 +/-	2R0	4	0	4,584,660:00:0	
36	98	211	13:17:02.266	465KA6A	6DMSC	RDY,2	DMS Control Tape stop	2R0	4	0	4,584,660:00:0	
37	98	211	13:18:56.933	465KB6A	6DTRN	CMD,6DTRN,465KB6	DMS TRACK TURNAROUND	2R0	4	0	4,584,661:81:0	
38	98	211	13:18:56.933		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 346.00 +/-	2R0	4	0	4,584,661:81:0	
39	98	211	13:18:56.933		DMS:	: *DMS-TURN	P7, TRACK 2, REV, TIC 346.00 +/-	2R0	4	0	4,584,661:81:0	
40	98	211	13:18:58.333		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 346.12 +/-	2R0	4	0	4,584,661:83:1	
41	98	211	13:19:03.600		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 347.35 +/-	2R0	4	0	4,584,662:00:0	
42	98	211	13:19:04.800		DMS:	: *RUNUP	P7, TRACK *2, *REV, TIC * 347.41 +/-	2R0	4	0	4,584,662:01:8	
43	98	211	13:19:06.200		DMS:	: *AT_SPD	P7, TRACK 2, REV, TIC * 347.29 +/-	2R0	4	0	4,584,662:03:9	
44	98	211	13:29:35.133		DMS:	: *REVERSE	P7, TRACK 2, REV, TIC * 199.87 +/-	2R0	4	0	4,584,672:37:3	
45	98	211	13:29:36.333		DMS:	: *TURNARND	P7, TRACK *3, *FWD, TIC * 199.81 +/-	2R0	4	0	4,584,672:39:1	
46	98	211	13:29:36.333		DMS:	: *RUNUP	P7, TRACK 3, FWD, TIC 199.81 +/-	2R0	4	0	4,584,672:39:1	
47	98	211	13:29:37.733		DMS:	: *AT_SPD	P7, TRACK 3, FWD, TIC * 199.93 +/-	2R0	4	0	4,584,672:41:2	
48	98	211	13:29:49.733		DMS:	: *AUTOSTOP	P7, TRACK 3, FWD, TIC * 202.06 +/-	2R0	4	0	4,584,672:59:2	
49	98	211	13:29:50.933		DMS:	: *READY	RDY, TRACK 3, FWD, TIC * 202.12 +/-	2R0	4	0	4,584,672:61:0	
50	98	211	13:37:07.600		DMS:	: *E4-DELAY	RDY, TRACK *1, FWD, TIC 202.12 +/-	2R0	4	0	4,584,679:79:0	
51	98	211	13:37:07.600	465KC6A	6DMSC	P7,3	DMS Control Tape P/B 7.68kbps	2R0	4	0	4,584,679:79:0	
52	98	211	13:37:14.266		DMS:	: *RUNUP	P7, TRACK *3, FWD, TIC 202.12 +/-	2R0	4	0	4,584,679:89:0	
53	98	211	13:37:15.666		DMS:	: *P_SLEW	P7, TRACK 3, FWD, TIC * 202.24 +/-	2R0	4	0	4,584,680:00:1	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
54	98	211	13:37:15.666		DMS:	: *AT_SPD	P7, TRACK 3, FWD, TIC 202.24 +/-	2R0	4	0	4,584,680:00:1	
55	98	211	13:38:16.266		DMS:	: *RUNDOWN	P7, TRACK 3, FWD, TIC * 216.45 +/-	2R0	4	0	4,584,681:00:0	
56	98	211	13:38:16.266	465KC6B	6DMSC	RDY,3	DMS Control Tape stop	2R0	4	0	4,584,681:00:0	
57	98	211	13:38:17.466		DMS:	: *READY	RDY, TRACK 3, FWD, TIC * 216.51 +/-	2R0	4	0	4,584,681:01:8	
58	98	211	13:39:50.000	16HNDARKCL01-		-----START------		2R0	4	0	: :	
59	98	211	13:40:04.933	20DA5A	37PL		Program Load (halts microprocessor & unwri	260	4	0	4,584,682:72:0	
60	98	211	13:40:06.266	20DA5B	37MRL		Memory Realocate (software operates from R	260	4	0	4,584,682:74:0	
61	98	211	13:40:07.600	20DA6A	6MCOPY	NIMS	NIMS,1000,LLM1A,7300,77F7	260	4	0	4,584,682:76:0	
62	98	211	13:40:17.600	20DA6B	6MCOPY	NIMS	NIMS,1598,LLM1A,77F8,781D	260	4	0	4,584,683:00:0	
63	98	211	13:40:27.600	20DA5C	37IRT		Instrument Reset (goes into POR state)	260	4	0	4,584,683:15:0	
64	98	211	13:40:47.600	20DA5D	37MN		Memory Normal (software operates from ROM)	260	4	0	4,584,683:45:0	
65	98	211	13:41:02.933	20DA4A	37IST	1,2,0,OFF,0,0,0	Chopper ON, Sync, Chopper (Ref)	2R0	4	0	4,584,683:68:0	
66	98	211	13:42:14.266	125DA	NIMSINIT	GS	##### GROUP START INIT	2R0	4	0	4,584,684:84:0	
67	98	211	13:42:14.266	125DA4A	37IST	0,2,0,OFF,0,1,0	Gain State 2	2R0	4	0	4,584,684:84:0	
68	98	211	13:43:14.933	125DA4B	37MB	0,0,0,0,0,0	Selects mirror (spatial) edit table	2R0	4	0	4,584,685:84:0	
69	98	211	13:43:14.933	125DA11A	NIMSINIT	GE	##### GROUP END INIT	2R0	4	0	4,584,685:84:0	
70	98	211	13:45:10.266		DMS:	: *E4-DELAY	RDY, TRACK *1, FWD, TIC 216.51 +/-	2R0	4	0	4,584,687:75:0	
71	98	211	13:45:10.266	175DA422A6A	6DMSC	R28,3	DMS Control	2R0	4	0	4,584,687:75:0	
72	98	211	13:45:16.266	127DA	NIMSTAB	GS	%%%%% GROUP START TAB	2R0	4	0	4,584,687:84:0	
73	98	211	13:45:16.266	127DA4A	37IOP	3,0	Long Map, Grating Start Position =00	2R3	4	0	4,584,687:84:0	
74	98	211	13:45:16.933	127DA4B	37ETB	04,C4,35,FF,FF	Loads wavelength edit table	2R3	4	0	4,584,687:85:0	
75	98	211	13:45:16.933		DMS:	: *RUNUP	R28, TRACK *3, FWD, TIC 216.51 +/-	2R3	4	0	4,584,687:85:0	
76	98	211	13:45:20.266	175DA176A6A	6TMREC	MPW	28.8 KBPS PWS + NIMS RECORD Record Mode C	2R3	4	0	4,584,687:90:0	
77	98	211	13:45:20.933		DMS:	: *RECORD	R28, TRACK 3, FWD, TIC * 218.01 +/-	2R3	4	0	4,584,688:00:0	
78	98	211	13:45:20.933	16HNDARKCL01-	NIMPBK	301DE	DARK OBSERVATION	2R3	4	0	: :	
79	98	211	13:45:20.933		DMS:	: *AT_SPD	R28, TRACK 3, FWD, TIC 218.01 +/-	2R3	4	0	4,584,688:00:0	
80	98	211	13:45:54.933	127DA11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	4,584,688:51:0	
81	98	211	13:47:17.600	125DB4A	37IST	0,2,0,OFF,0,1,1	Gain State 4	4R3	4	0	4,584,689:84:0	
82	98	211	13:47:17.600	125DB11A	NIMSINIT	GE	##### GROUP END INIT	4R3	4	0	4,584,689:84:0	
83	98	211	13:47:17.600	125DB	NIMSINIT	GS	##### GROUP START INIT	4R3	4	0	4,584,689:84:0	
84	98	211	13:49:18.933	125DC4A	37IST	0,2,0,OFF,0,1,2	Gain State 3	3R3	4	0	4,584,691:84:0	
85	98	211	13:49:18.933	125DC	NIMSINIT	GS	##### GROUP START INIT	3R3	4	0	4,584,691:84:0	
86	98	211	13:49:18.933	125DC11A	NIMSINIT	GE	##### GROUP END INIT	3R3	4	0	4,584,691:84:0	
87	98	211	13:51:20.266	125DD11A	NIMSINIT	GE	##### GROUP END INIT	3R3	4	0	4,584,693:84:0	
88	98	211	13:51:20.266	125DD4A	37IST	0,2,0,OFF,0,1,3	Gain State 1	1R3	4	0	4,584,693:84:0	
89	98	211	13:51:20.266	125DD	NIMSINIT	GS	##### GROUP START INIT	1R3	4	0	4,584,693:84:0	
90	98	211	13:53:18.266	16HNDARKCL01-	NIMPBK	301ER	DARK OBSERVATION	1R3	4	0	: :	
91	98	211	13:53:25.600	16HNDARKCL01-	DESELC	300DE	DARK OBSERVATION	1R3	4	0	: :	
92	98	211	13:57:27.600	16HNDARKCL01-	DESELC	300ER	DARK OBSERVATION	1R3	4	0	: :	
93	98	211	13:58:18.266		DMS:	: *RUNDOWN	R28, TRACK 3, FWD, TIC * 901.21 +/-	1R3	4	0	4,584,700:74:0	
94	98	211	13:58:18.266	175DA422A6B	6DMSC	RDY,0	DMS Control Tape stop	1R3	4	0	4,584,700:74:0	
95	98	211	13:58:19.466		DMS:	: *READY	RDY, TRACK 3, FWD, TIC * 901.51 +/-	1R3	4	0	4,584,700:75:8	
96	98	211	14:00:00.000	16HNDARKCL01-		-----STOP-------		1R3	4	0	: :	
97	98	211	14:01:26.066	16NNCHOPOF02-		-----START------		1R3	4	0	: :	
98	98	211	14:01:26.933	127DN	NIMSTAB	GS	%%%%% GROUP START TAB	1R3	4	0	4,584,703:84:0	
99	98	211	14:01:26.933	127DN4A	37IOP	0,0	Safe, Grating Start Position =00	1R0	4	0	4,584,703:84:0	
100	98	211	14:01:27.600	127DN4B	37ETB	04,C4,02,00,00	Loads wavelength edit table	1R0	4	0	4,584,703:85:0	
101	98	211	14:02:05.600	127DN11A	NIMSTAB	GE	%%%%% GROUP END TAB	1R0	4	0	4,584,704:51:0	
102	98	211	14:03:28.266	125DN	NIMSINIT	GS	##### GROUP START INIT	1R0	4	0	4,584,705:84:0	
103	98	211	14:03:28.266	125DN4A	37IST	1,0,0,OFF,0,0,0	Chopper ON, Sync, 63Hz (Ref)	160	4	0	4,584,705:84:0	
104	98	211	14:04:28.933	125DN4B	37IST	1,1,0,OFF,0,0,0	Chopper OFF, N/A, 63Hz (Ref)	1O0	4	0	4,584,706:84:0	
105	98	211	14:05:29.600	125DN11A	NIMSINIT	GE	##### GROUP END INIT	1O0	4	0	4,584,707:84:0	
106	98	211	14:05:29.600	125DN4C	37MB	0,0,0,0,0,0	Selects mirror (spatial) edit table	1O0	4	0	4,584,707:84:0	
107	98	211	14:05:30.000	16NNCHOPOF02-		-----STOP-------		1O0	4	0	: :	
108	98	211	14:07:35.600		DMS:	: READY	RDY, TRACK *2, *REV, TIC 901.51 +/-	1O0	4	0	4,584,710:00:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
109	98	211	14:07:35.600	465KD6A	6DMSC	RDY,2	DMS Control Tape stop	1O0	4	0	4,584,710:00:0	
110	98	211	14:10:08.266	20WA4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	1O0	4	0	4,584,712:47:0	
111	98	211	14:10:58.266	20WA4B	7SLEW	DIS,POS,0.0	Stator movement	1O0	4	0	4,584,713:31:0	
112	98	211	14:12:38.933	176SA6A	6TMREC	**IPB**	INITIATE PLAYBACK (PB CONTROL) Record Mod	1O0	4	0	4,584,715:00:0	
113	98	211	20:47:14.266	488AD6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,585,105:23:0	
114	98	211	21:57:38.266	488AD6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	4,585,174:80:0	
115	98	211	22:14:42.266	488AD6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	4,585,191:69:0	
116	98	211	23:15:10.266	488AD6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	1O0	4	0	4,585,251:51:0	
117	98	211	23:44:16.933	488AD6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	4,585,280:32:0	
118	98	211	23:50:42.266	488AE6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,585,286:64:0	
119	98	212	05:12:50.266	488AE6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	4,585,605:27:0	
120	98	212	05:34:10.266	488AE6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	4,585,626:36:0	
121	98	212	06:29:38.266	488AF6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,585,681:23:0	
122	98	212	06:31:32.933	488AF6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,585,683:13:0	
123	98	212	07:03:22.266	488AF6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,585,714:56:0	
124	98	212	11:29:47.533	488AF6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,585,978:10:0	
125	98	212	11:32:34.200	488AF6E	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	1O0	4	0	4,585,980:78:0	
126	98	212	11:37:52.866	488AG6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	4,585,986:10:0	
127	98	212	12:35:07.533	488AG6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	1O0	4	0	4,586,042:66:0	
128	98	212	12:55:46.200	488AG6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,586,063:13:0	
129	98	212	13:05:56.866	488AG6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,586,073:19:0	
130	98	212	14:53:00.200	488AG6E	6TMSED	NORM,AH6	Sci, Eng, and D/L Chan	1O0	4	0	4,586,179:08:0	
131	98	212	14:57:58.200	176SB6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	1O0	4	0	4,586,184:00:0	
132	98	212	15:09:00.200	20AA4C	7STAT	17.45,269.0167,2	Stator inertial point	1O0	4	0	4,586,194:83:0	
133	98	212	15:30:00.200	474AA416A4B	**7MODE**	**INT**	AACS INERTIAL MODE	1O0	4	0	4,586,215:62:0	
134	98	212	15:32:00.200	474AA416A4D	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	1O0	4	0	4,586,217:60:0	
135	98	212	15:32:20.200	20AA4D	7STAT	17.45,269.0167,2	Stator inertial point	1O0	4	0	4,586,217:90:0	
136	98	212	15:36:14.200	474AA416A4E	7BURN	69.016697,21.599	ALERT -- Thruster fire	1O0	4	0	4,586,221:77:0	
137	98	212	16:35:32.200	20AA4F	7SLEW	DIS,POS,0.0	Stator movement	1O0	4	0	4,586,280:45:0	
138	98	212	16:40:24.200	20AA4G	**7MODE**	**CRU**	AACS CRUISE MODE	1O0	4	0	4,586,285:28:0	
139	98	212	17:59:56.200	20AB4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	1O0	4	0	4,586,363:88:0	
140	98	212	18:00:46.200	20AB4B	7SLEW	DIS,POS,0.0	Stator movement	1O0	4	0	4,586,364:72:0	
141	98	212	18:01:59.533	176AA6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	1O0	4	0	4,586,366:00:0	
142	98	212	20:01:00.200	488AH6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,586,483:64:0	
143	98	212	20:01:18.200	176SC6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	1O0	4	0	4,586,484:00:0	
144	98	212	20:53:38.200	488AH6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	4,586,535:69:0	
145	98	212	21:53:22.200	488AH6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	4,586,594:76:0	
146	98	212	22:14:42.200	488AH6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	4,586,615:85:0	
147	98	212	22:55:05.533	488AH6E	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	1O0	4	0	4,586,655:80:0	
148	98	212	23:39:11.533	488AI6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	4,586,699:45:0	
149	98	212	23:40:02.200	488AI6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,586,700:30:0	
150	98	213	05:12:50.200	488AI6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	4,587,029:43:0	
151	98	213	05:40:34.200	488AJ6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,587,056:82:0	
152	98	213	06:31:27.533	488AJ6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,587,107:21:0	
153	98	213	06:58:17.533	488AJ6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,587,133:70:0	
154	98	213	08:05:38.200	488AJ6D	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	4,587,200:34:0	
155	98	213	11:26:22.200	488AJ6E	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	1O0	4	0	4,587,398:82:0	
156	98	213	11:28:18.200	488AK6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,587,400:74:0	
157	98	213	11:37:04.200	488AK6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,587,409:44:0	
158	98	213	12:40:50.200	488AK6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	4,587,472:50:0	
159	98	213	20:42:58.133	488AL6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,587,949:35:0	
160	98	213	20:55:16.800	488AL6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,587,961:51:0	
161	98	214	11:32:08.133	488AM6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,588,828:71:0	
162	98	214	12:36:34.133	488AM6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	4,588,892:46:0	
163	98	214	20:38:42.133	488AN6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,589,369:31:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
164	98	214	21:46:58.133	488AN6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	4,589,436:78:0	
165	98	214	21:53:22.133	488AN6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	4,589,443:17:0	
166	98	214	21:54:06.800	488AN6D	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	1O0	4	0	4,589,443:84:0	
167	98	214	22:14:42.133	488AN6E	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	1O0	4	0	4,589,464:26:0	
168	98	215	00:00:00.133	481UC4A	7VECT		Inert vect update UTC	1O0	4	0	4,589,568:39:0	
169	98	215	11:28:06.733	488AO6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	4,590,248:89:0	
170	98	215	12:21:38.066	488AO6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,590,301:83:0	
171	98	215	12:26:17.400	488AO6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,590,306:47:0	
172	98	215	12:53:07.400	488AO6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,590,333:05:0	
173	98	215	13:35:12.066	31OB6B	6MROH		12 read from LLM1A12,2282,0,A2	1O0	4	0	4,590,374:61:0	
174	98	215	14:02:42.066	31OB6E	6MROH		12 read from LLM1A12,2282,0,A2	1O0	4	0	4,590,401:79:0	
175	98	215	20:42:58.066	488AP6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	4,590,797:67:0	
176	98	215	20:59:02.733	488AP6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	1O0	4	0	4,590,813:58:0	
177	98	215	21:06:26.066	488AP6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,590,820:86:0	
178	98	216	11:22:18.000	488AQ6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,591,667:37:0	
179	98	216	12:21:38.000	488AQ6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	4,591,726:08:0	
180	98	216	16:07:28.000	488AQ6C	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	1O0	4	0	4,591,949:40:0	
181	98	216	16:09:54.000	488AQ6D	6TMSED	FILL,AL8	Sci, Eng, and D/L Chan	1O0	4	0	4,591,951:77:0	
182	98	216	16:11:34.000	488AQ6E	6TMSED	NORM,AL8	Sci, Eng, and D/L Chan	1O0	4	0	4,591,953:45:0	
183	98	216	16:26:24.000	488AR6A	6TMSED	FILL,AL8	Sci, Eng, and D/L Chan	1O0	4	0	4,591,968:15:0	
184	98	216	16:26:58.000	488AR6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,591,968:66:0	
185	98	217	11:17:22.000	488AS6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,593,086:64:0	
186	98	217	12:15:14.000	488AS6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	4,593,143:85:0	
187	98	217	15:37:36.000	488AS6C	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	1O0	4	0	4,593,344:07:0	
188	98	217	15:40:02.000	488AS6D	6TMSED	FILL,AL8	Sci, Eng, and D/L Chan	1O0	4	0	4,593,346:44:0	
189	98	217	15:41:42.000	488AS6E	6TMSED	NORM,AL8	Sci, Eng, and D/L Chan	1O0	4	0	4,593,348:12:0	
190	98	217	17:07:30.000	488AT6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	4,593,432:90:0	
191	98	217	20:32:17.933	488AT6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,593,635:49:0	
192	98	217	21:32:01.933	488AT6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	4,593,694:56:0	
193	98	217	21:38:25.933	488AT6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	4,593,700:86:0	
194	98	217	21:41:25.266	488AT6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	1O0	4	0	4,593,703:82:0	
195	98	217	21:51:13.933	488AU6A	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	1O0	4	0	4,593,713:55:0	
196	98	218	11:13:20.600	488AV6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	4,594,506:82:0	
197	98	218	12:06:41.933	488AV6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,594,559:61:0	
198	98	218	12:16:03.933	488AV6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,594,568:85:0	
199	98	218	12:42:53.266	488AV6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,594,595:42:0	
200	98	218	20:38:41.933	488AW6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	4,595,066:04:0	
201	98	218	21:32:01.933	488AW6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	4,595,118:72:0	
202	98	218	21:33:45.266	488AW6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	1O0	4	0	4,595,120:45:0	
203	98	218	21:42:41.933	488AW6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	1O0	4	0	4,595,129:31:0	
204	98	218	21:57:37.933	488AW6E	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,595,144:10:0	
205	98	219	11:07:31.200	488AX6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,595,925:29:0	
206	98	219	12:06:41.866	488AX6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	4,595,983:77:0	
207	98	219	15:03:27.866	488AX6C	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	1O0	4	0	4,596,158:61:0	
208	98	219	15:05:53.866	488AX6D	6TMSED	FILL,AL8	Sci, Eng, and D/L Chan	1O0	4	0	4,596,161:07:0	
209	98	219	15:07:33.866	488AX6E	6TMSED	NORM,AL8	Sci, Eng, and D/L Chan	1O0	4	0	4,596,162:66:0	
210	98	219	17:22:25.866	488AY6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	4,596,296:10:0	
211	98	219	20:23:45.866	488AY6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,596,475:41:0	
212	98	219	20:39:55.866	488AY6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,596,491:40:0	
213	98	219	20:42:57.866	488AY6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	1O0	4	0	4,596,494:40:0	
214	98	220	21:30:17.133	488AZ6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	4,597,965:38:0	
215	98	220	21:40:33.800	488AZ6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	4,597,975:53:0	
216	98	220	22:39:29.800	488AZ6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	1O0	4	0	4,598,033:79:0	
217	98	220	23:01:37.800	488AZ6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,598,055:69:0	
218	98	220	23:06:56.466	488AZ6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,598,061:01:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
219	98	221	05:53:21.800	488BA6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	4,598,462:88:0	
220	98	221	07:08:01.800	488BA6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	4,598,536:74:0	
221	98	221	07:26:40.466	488BA6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	1O0	4	0	4,598,555:23:0	
222	98	221	07:35:45.800	488BA6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,598,564:22:0	
223	98	221	11:02:40.466	488BA6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,598,768:80:0	
224	98	221	11:56:01.800	488BB6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	4,598,821:59:0	
225	98	221	14:44:15.800	488BB6B	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	1O0	4	0	4,598,988:03:0	
226	98	221	14:46:41.800	488BB6C	6TMSED	FILL,AL8	Sci, Eng, and D/L Chan	1O0	4	0	4,598,990:40:0	
227	98	221	14:48:21.800	488BB6D	6TMSED	NORM,AL8	Sci, Eng, and D/L Chan	1O0	4	0	4,598,992:08:0	
228	98	221	17:28:49.733	488BB6E	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	4,599,150:72:0	
229	98	221	17:57:21.066	176ST6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	1O0	4	0	4,599,179:00:0	
230	98	221	18:01:59.733	20UQ4B	7SLEW	DIS,POS,0.0	Stator movement	1O0	4	0	4,599,183:54:0	
231	98	221	18:02:59.733	20UQ4D	**7MODE**	**SPNL**	AACS ALL-SPIN LOW	1O0	4	0	4,599,184:53:0	
232	98	221	18:04:59.733	20UQ4E	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	1O0	4	0	4,599,186:51:0	
233	98	221	18:10:29.733	20UQ4G	7VENT	0.611,1.333,8	ALERT -- Thruster fire	1O0	4	0	4,599,192:00:0	
234	98	221	18:10:30.400	20UQ4H	7VENT	0.611,10.989,8	ALERT -- Thruster fire	1O0	4	0	4,599,192:01:0	
235	98	221	18:10:50.400	20UQ4I	7VENT	0.611,1.333,6	ALERT -- Thruster fire	1O0	4	0	4,599,192:31:0	
236	98	221	18:10:51.066	20UQ4J	7VENT	0.611,10.989,6	ALERT -- Thruster fire	1O0	4	0	4,599,192:32:0	
237	98	221	18:11:11.066	20UQ4K	7VENT	0.611,1.333,4	ALERT -- Thruster fire	1O0	4	0	4,599,192:62:0	
238	98	221	18:11:11.733	20UQ4L	7VENT	0.611,0.666,5	ALERT -- Thruster fire	1O0	4	0	4,599,192:63:0	
239	98	221	18:11:21.733	20UQ4M	7VENT	0.611,1.333,4	ALERT -- Thruster fire	1O0	4	0	4,599,192:78:0	
240	98	221	18:11:22.400	20UQ4N	7VENT	0.611,0.666,5	ALERT -- Thruster fire	1O0	4	0	4,599,192:79:0	
241	98	221	18:11:32.400	20UQ4O	7VENT	1.211,1.333,10	ALERT -- Thruster fire	1O0	4	0	4,599,193:03:0	
242	98	221	18:11:33.066	20UQ4P	7VENT	1.211,0.666,12	ALERT -- Thruster fire	1O0	4	0	4,599,193:04:0	
243	98	221	18:13:19.733	20UQ4S	7VENT	0.611,1.333,7	ALERT -- Thruster fire	1O0	4	0	4,599,194:73:0	
244	98	221	18:13:20.400	20UQ4T	7VENT	0.611,10.989,7	ALERT -- Thruster fire	1O0	4	0	4,599,194:74:0	
245	98	221	18:13:40.400	20UQ4U	7VENT	0.611,1.333,1	ALERT -- Thruster fire	1O0	4	0	4,599,195:13:0	
246	98	221	18:13:41.066	20UQ4V	7VENT	0.611,10.989,1	ALERT -- Thruster fire	1O0	4	0	4,599,195:14:0	
247	98	221	18:14:01.066	20UQ4AC	7VENT	0.611,1.333,2	ALERT -- Thruster fire	1O0	4	0	4,599,195:44:0	
248	98	221	18:14:01.733	20UQ4AD	7VENT	0.611,0.666,3	ALERT -- Thruster fire	1O0	4	0	4,599,195:45:0	
249	98	221	18:14:11.733	20UQ4AE	7VENT	0.611,1.333,2	ALERT -- Thruster fire	1O0	4	0	4,599,195:60:0	
250	98	221	18:14:12.400	20UQ4AF	7VENT	0.611,0.666,3	ALERT -- Thruster fire	1O0	4	0	4,599,195:61:0	
251	98	221	18:14:22.400	20UQ4W	7VENT	1.211,1.333,9	ALERT -- Thruster fire	1O0	4	0	4,599,195:76:0	
252	98	221	18:14:23.066	20UQ4X	7VENT	1.211,0.666,11	ALERT -- Thruster fire	1O0	4	0	4,599,195:77:0	
253	98	221	18:15:19.733	20UQ4Z	**7MODE**	**CRU**	AACS CRUISE MODE	1O0	4	0	4,599,196:71:0	
254	98	221	18:40:03.733	20UJ4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	1O0	4	0	4,599,221:22:0	
255	98	221	18:40:53.733	20UJ4B	7SLEW	DIS,POS,0.0	Stator movement	1O0	4	0	4,599,222:06:0	
256	98	221	18:42:51.066	176SU6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	1O0	4	0	4,599,224:00:0	
257	98	221	20:17:21.733	488BC6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,599,317:43:0	
258	98	221	21:19:13.733	488BC6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	4,599,378:60:0	
259	98	221	21:26:43.066	488BC6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	1O0	4	0	4,599,386:06:0	
260	98	221	21:36:17.733	488BC6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,599,395:49:0	
261	98	222	10:57:44.400	488BD6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,600,188:16:0	
262	98	222	11:56:01.733	488BD6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	4,600,245:75:0	
263	98	222	14:48:31.733	488BD6C	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	1O0	4	0	4,600,416:39:0	
264	98	222	14:50:57.733	488BD6D	6TMSED	FILL,AL8	Sci, Eng, and D/L Chan	1O0	4	0	4,600,418:76:0	
265	98	222	14:52:37.733	488BD6E	6TMSED	NORM,AL8	Sci, Eng, and D/L Chan	1O0	4	0	4,600,420:44:0	
266	98	222	17:18:09.733	488BE6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	4,600,564:38:0	
267	98	222	20:13:05.733	488BE6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,600,737:39:0	
268	98	222	21:00:49.733	488BE6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,600,784:58:0	
269	98	222	21:04:17.733	488BE6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	1O0	4	0	4,600,788:06:0	
270	98	223	10:53:41.666	488BF6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	4,601,608:32:0	
271	98	223	11:41:05.666	488BF6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,601,655:21:0	
272	98	223	11:50:41.666	488BF6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,601,664:66:0	
273	98	223	12:17:31.000	488BF6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,601,691:23:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
274	98	223	15:45:59.666	488BF6E	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,601,897:40:0
275	98	224	10:47:52.933	488BG6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,603,026:71:0
276	98	224	11:45:21.600	488BG6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	4,603,083:57:0
277	98	224	15:03:27.600	488BG6C	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	1O0	4	0	4,603,279:50:0
278	98	224	15:05:53.600	488BG6D	6TMSED	FILL,AL8	Sci, Eng, and D/L Chan	1O0	4	0	4,603,281:87:0
279	98	224	15:07:33.600	488BG6E	6TMSED	NORM,AL8	Sci, Eng, and D/L Chan	1O0	4	0	4,603,283:55:0
280	98	224	16:44:01.600	488BH6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	4,603,379:01:0
281	98	224	20:04:33.600	488BH6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,603,577:31:0
282	98	224	21:08:33.600	488BH6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	4,603,640:58:0
283	98	224	21:13:00.933	488BH6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	1O0	4	0	4,603,645:04:0
284	98	224	21:17:05.600	488BH6E	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	1O0	4	0	4,603,649:07:0
285	98	224	21:32:01.600	488BI6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,603,663:77:0
286	98	225	10:42:56.933	488BJ6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,604,446:07:0
287	98	225	11:45:21.600	488BJ6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	4,604,507:73:0
288	98	225	19:58:09.533	488BK6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,604,995:17:0
289	98	225	21:04:17.533	488BK6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	4,605,060:54:0
290	98	225	21:10:33.533	488BK6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	1O0	4	0	4,605,066:72:0
291	98	225	21:12:49.533	488BK6D	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	1O0	4	0	4,605,069:03:0
292	98	225	21:23:29.533	488BK6E	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	1O0	4	0	4,605,079:53:0
293	98	226	10:38:54.866	488BL6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	4,605,866:24:0
294	98	226	11:30:25.533	488BL6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,605,917:19:0
295	98	226	11:40:29.533	488BL6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,605,927:15:0
296	98	226	12:07:19.533	488BL6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,605,953:64:0
297	98	226	20:04:33.533	488BM6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	4,606,425:63:0
298	98	226	20:34:49.533	488BM6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	1O0	4	0	4,606,455:57:0
299	98	226	20:40:49.533	488BM6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,606,461:51:0
300	98	227	10:38:05.466	488BN6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,607,289:57:0
301	98	227	11:41:05.466	488BN6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	4,607,351:85:0
302	98	227	19:49:37.466	488BO6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,607,835:09:0
303	98	227	20:53:37.466	488BO6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	4,607,898:36:0
304	98	227	21:02:07.466	488BO6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	1O0	4	0	4,607,906:73:0
305	98	227	21:10:41.466	488BO6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	1O0	4	0	4,607,915:25:0
306	98	228	10:34:02.733	488BP6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	4,608,709:73:0
307	98	228	11:26:09.400	488BP6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,608,761:31:0
308	98	228	11:30:21.400	488BP6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,608,765:45:0
309	98	228	11:57:11.400	488BP6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,608,792:03:0
310	98	228	19:49:37.400	488BQ6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	4,609,259:25:0
311	98	228	20:49:21.400	488BQ6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	4,609,318:32:0
312	98	228	20:55:44.066	488BQ6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	1O0	4	0	4,609,324:60:0
313	98	228	20:57:53.400	488BQ6D	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	1O0	4	0	4,609,326:72:0
314	98	228	21:08:33.400	488BQ6E	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,609,337:31:0
315	98	229	10:28:12.066	488BR6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,610,128:18:0
316	98	229	11:36:49.400	488BR6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	4,610,196:06:0
317	98	229	17:23:00.000	488BS6A	6TMSED	NORM,AH7	Sci, Eng, and D/L Chan	1O0	4	0	4,610,538:40:0
318	98	229	17:27:36.666	176TF6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	1O0	4	0	4,610,543:00:0
319	98	229	17:36:00.000	20WC4C	7STAT	17.45,175.70,3.1	Stator inertial point	1O0	4	0	4,610,551:27:0
320	98	229	17:55:02.000	490UA412A4B	**7MODE**	**INT**	AACS INERTIAL MODE	1O0	4	0	4,610,570:11:0
321	98	229	18:00:00.000	490UA412A4D	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	1O0	4	0	4,610,575:03:0
322	98	229	18:00:20.000	20WC4D	7STAT	17.45,175.70,3.1	Stator inertial point	1O0	4	0	4,610,575:33:0
323	98	229	18:04:10.000	490UA412A4E	7VECT		Inert vect update UTC	1O0	4	0	4,610,579:14:0
324	98	229	18:04:14.000	490UA412A4F	7TURN	2,RTH	ALERT Thruster	1O0	4	0	4,610,579:20:0
325	98	229	18:08:02.000	490UA412A406A4A	7STAR	16,217,100.73	Star catalog update	1O0	4	0	4,610,582:89:0
326	98	229	18:08:04.000	490UA412A406A4B	7STAR	2,178,256.88	Star catalog update	1O0	4	0	4,610,583:01:0
327	98	229	18:08:06.000	490UA412A406A4C	7STAR	3,111,99.056999,	Star catalog update	1O0	4	0	4,610,583:04:0
328	98	229	18:08:08.000	490UA412A406A4D	7STAR	4,0,0.0,0.0	Star catalog update	1O0	4	0	4,610,583:07:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
329	98	229	18:08:10.000	490UA412A406A4E	7STAR	5,0,0.0,0.0	Star catalog update	1O0	4	0	4,610,583:10:0
330	98	229	18:08:12.000	490UA412A406A4F	7STAR	6,0,0.0,0.0	Star catalog update	1O0	4	0	4,610,583:13:0
331	98	229	18:18:06.000	20WC4F	7SLEW	DIS,POS,0.0	Stator movement	1O0	4	0	4,610,592:85:0
332	98	229	18:26:10.000	490UA412A4G	**7MODE**	**CRU**	AACS CRUISE MODE	1O0	4	0	4,610,600:83:0
333	98	229	19:28:17.333	488BS6B	6TMSED	NORM,AH6	Sci, Eng, and D/L Chan	1O0	4	0	4,610,662:32:0
334	98	229	19:33:59.333	432ND431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	1O0	4	0	4,610,667:90:0
335	98	229	19:34:00.000	432ND6A	6RTSL1		R/T Select of DDS and	1O0	4	0	4,610,668:00:0
336	98	229	19:55:00.000	488BS6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,610,688:70:0
337	98	229	20:00:04.000	20TA4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	1O0	4	0	4,610,693:71:0
338	98	229	20:00:54.000	20TA4B	7SLEW	DIS,POS,0.0	Stator movement	1O0	4	0	4,610,694:55:0
339	98	229	20:02:18.666	176TG6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	1O0	4	0	4,610,696:00:0
340	98	229	20:42:57.333	488BS6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	4,610,736:18:0
341	98	229	21:06:25.333	488BS6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	4,610,759:37:0
342	98	229	21:58:53.333	488BT6A	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	1O0	4	0	4,610,811:27:0
343	98	229	22:27:59.333	488BT6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	4,610,840:07:0
344	98	229	22:36:01.333	488BT6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,610,848:02:0
345	98	230	04:13:05.333	488BU6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	4,611,181:35:0
346	98	230	05:17:05.333	488BU6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,611,244:62:0
347	98	230	05:20:14.666	488BU6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,611,247:73:0
348	98	230	05:52:04.000	488BU6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,611,279:25:0
349	98	230	10:16:25.333	488BV6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,611,540:66:0
350	98	230	10:23:16.000	488BV6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,611,547:45:0
351	98	230	11:25:13.333	488BV6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,611,608:70:0
352	98	230	11:45:21.333	488BV6D	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	1O0	4	0	4,611,628:62:0
353	98	230	11:49:56.000	488BV6E	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	4,611,633:19:0
354	98	230	15:27:22.666	488BW6A	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	1O0	4	0	4,611,848:24:0
355	98	230	15:29:21.333	488BW6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	1O0	4	0	4,611,850:20:0
356	98	230	20:44:11.333	488BW6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	4,612,161:54:0
357	98	230	21:21:21.333	488BW6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,612,198:32:0
358	98	231	03:53:53.266	488BX6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	4,612,586:52:0
359	98	231	04:15:13.266	488BX6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	4,612,607:61:0
360	98	231	05:02:09.266	488BX6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,612,654:08:0
361	98	231	05:20:11.933	488BX6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,612,671:85:0
362	98	231	05:47:01.266	488BX6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,612,698:42:0
363	98	231	10:11:29.933	488BY6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,612,960:03:0
364	98	231	10:18:19.933	488BY6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,612,966:72:0
365	98	231	11:20:10.600	488BY6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,613,027:87:0
366	98	231	11:41:05.266	488BY6D	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	1O0	4	0	4,613,048:58:0
367	98	231	11:45:08.600	488BY6E	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	4,613,052:59:0
368	98	231	19:24:01.266	488BZ6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,613,506:44:0
369	98	231	20:34:25.266	488BZ6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	4,613,576:10:0
370	98	231	21:17:05.266	488BZ6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,613,618:28:0
371	98	232	01:31:32.600	488CA6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,613,869:88:0
372	98	232	10:13:23.200	488CB6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,614,386:07:0
373	98	232	11:26:09.200	488CB6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	4,614,458:04:0
374	98	232	19:13:21.200	488CC6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,614,920:10:0
375	98	232	20:34:25.200	488CC6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	4,615,000:26:0
376	98	232	20:42:26.533	488CC6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	1O0	4	0	4,615,008:20:0
377	98	232	20:51:29.200	488CC6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	1O0	4	0	4,615,017:15:0
378	98	232	22:14:18.533	488CC6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	4,615,099:07:0
379	98	232	22:27:29.200	488CD6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,615,112:10:0
380	98	232	23:25:04.533	488CD6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,615,169:06:0
381	98	232	23:51:54.533	488CD6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,615,195:55:0
382	98	233	03:49:37.200	488CD6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	4,615,430:64:0
383	98	233	04:21:37.200	488CD6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,615,462:32:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
384	98	233	05:10:04.533	488CE6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,615,510:25:0	
385	98	233	05:36:54.533	488CE6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,615,536:74:0	
386	98	233	07:46:25.200	488CE6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	4,615,664:82:0	
387	98	233	10:02:52.533	488CE6D	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	1O0	4	0	4,615,799:78:0	
388	98	233	10:05:05.200	488CE6E	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,615,802:04:0	
389	98	233	10:08:27.200	488CF6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,615,805:34:0	
390	98	233	11:26:09.200	488CF6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	4,615,882:20:0	
391	98	233	19:04:49.133	488CG6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,616,335:77:0	
392	98	233	20:23:45.133	488CG6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	4,616,413:83:0	
393	98	233	20:47:13.133	488CG6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	4,616,437:11:0	
394	98	233	21:43:38.466	488CG6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	1O0	4	0	4,616,492:84:0	
395	98	233	22:12:44.466	488CG6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	4,616,521:64:0	
396	98	233	22:21:05.133	488CH6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,616,529:87:0	
397	98	234	00:01:09.800	488CH6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,616,628:85:0	
398	98	234	00:03:29.133	488CH6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	1O0	4	0	4,616,631:21:0	
399	98	234	10:04:23.800	488CI6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	4,617,225:49:0	
400	98	234	10:17:53.133	488CI6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,617,238:80:0	
401	98	234	11:32:33.133	488CI6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	4,617,312:66:0	
402	98	234	17:56:02.466	176SN6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	1O0	4	0	4,617,692:00:0	
403	98	234	18:02:06.466		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 901.51 +/-	1O0	4	0	4,617,698:00:0	
404	98	234	18:02:06.466		DMS:	: *SLEW-TIC	P7, TRACK *1, *FWD, TIC 901.51 +/-	1O0	4	0	4,617,698:00:0	
405	98	234	18:02:06.466	465SA6A	6DMST	5000	DMS Slew to TIC	1O0	4	0	4,617,698:00:0	
406	98	234	18:02:13.133		DMS:	: *RUNUP	P7, TRACK 1, FWD, TIC 901.51 +/-	1O0	4	0	4,617,698:10:0	
407	98	234	18:02:14.533		DMS:	: *AT_SPD	P7, TRACK 1, FWD, TIC * 901.63 +/-	1O0	4	0	4,617,698:12:1	
408	98	234	18:54:09.133	488CJ6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,617,749:43:0	
409	98	234	20:19:29.133	488CJ6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	4,617,833:79:0	
410	98	234	21:17:05.133	488CJ6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,617,890:76:0	
411	98	234	22:53:31.200		DMS:	**: *RUNDOWN**	P7, TRACK 1, FWD, TIC *4997.94 +/-	1O0	4	0	4,617,986:19:2	
412	98	234	22:53:32.400		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *4998.00 +/-	1O0	4	0	4,617,986:21:0	
413	98	234	23:55:47.733	465SB6A	6DMSC	P100,4	DMS Control Tape P/B 100.8kbps	1O0	4	0	4,618,047:73:0	
414	98	234	23:55:47.733		DMS:	: *US-RUNUP	P7, TRACK 1, FWD, TIC 4998.00 +/-	1O0	4	0	4,618,047:73:0	
415	98	234	23:55:49.133		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *4998.12 +/-	1O0	4	0	4,618,047:75:1	
416	98	234	23:55:54.400		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *4999.35 +/-	1O0	4	0	4,618,047:83:0	
417	98	234	23:55:55.600		DMS:	: *RUNUP	P100, TRACK *4, *REV, TIC *4999.41 +/-	1O0	4	0	4,618,047:84:8	
418	98	234	23:55:59.466		DMS:	: *P_SLEW	P100, TRACK 4, REV, TIC *4993.91 +/-	1O0	4	0	4,618,047:90:6	
419	98	234	23:55:59.466		DMS:	: *AT_SPD	P100, TRACK 4, REV, TIC 4993.91 +/-	1O0	4	0	4,618,047:90:6	
420	98	235	00:21:39.733		DMS:	**: *RUNDOWN**	P100, TRACK 4, REV, TIC * 255.79 +/-	1O0	4	0	4,618,073:35:0	
421	98	235	00:21:39.733	465SB6B	6DMSC	RDY,4	DMS Control Tape stop	1O0	4	0	4,618,073:35:0	
422	98	235	00:21:40.933		DMS:	: *READY	RDY, TRACK 4, REV, TIC * 254.99 +/-	1O0	4	0	4,618,073:36:8	
423	98	235	02:20:28.400	465SC6A	6DTRN	CMD,6DTRN,465SC6	DMS TRACK TURNAROUND	1O0	4	0	4,618,190:81:0	
424	98	235	02:20:28.400		DMS:	: *DMS-TURN	P7, TRACK 4, REV, TIC 254.99 +/-	1O0	4	0	4,618,190:81:0	
425	98	235	02:20:28.400		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 254.99 +/-	1O0	4	0	4,618,190:81:0	
426	98	235	02:20:29.800		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 255.11 +/-	1O0	4	0	4,618,190:83:1	
427	98	235	02:20:35.066		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 256.34 +/-	1O0	4	0	4,618,191:00:0	
428	98	235	02:20:36.266		DMS:	: *RUNUP	P7, TRACK *4, *REV, TIC * 256.40 +/-	1O0	4	0	4,618,191:01:8	
429	98	235	02:20:37.666		DMS:	: *AT_SPD	P7, TRACK 4, REV, TIC * 256.28 +/-	1O0	4	0	4,618,191:03:9	
430	98	235	02:24:38.333		DMS:	: *REVERSE	P7, TRACK 4, REV, TIC * 199.87 +/-	1O0	4	0	4,618,195:00:9	
431	98	235	02:24:39.533		DMS:	: *TURNARND	P7, TRACK *1, *FWD, TIC * 199.81 +/-	1O0	4	0	4,618,195:02:7	
432	98	235	02:24:39.533		DMS:	: *RUNUP	P7, TRACK 1, FWD, TIC 199.81 +/-	1O0	4	0	4,618,195:02:7	
433	98	235	02:24:40.933		DMS:	: *AT_SPD	P7, TRACK 1, FWD, TIC * 199.93 +/-	1O0	4	0	4,618,195:04:8	
434	98	235	02:24:52.933		DMS:	: *AUTOSTOP	P7, TRACK 1, FWD, TIC * 202.06 +/-	1O0	4	0	4,618,195:22:8	
435	98	235	02:24:54.133		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 202.12 +/-	1O0	4	0	4,618,195:24:6	
436	98	235	02:30:31.066		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 202.12 +/-	1O0	4	0	4,618,200:75:0	
437	98	235	02:30:31.066	465SD6A	6DMSC	P100,1	DMS Control Tape P/B 100.8kbps	1O0	4	0	4,618,200:75:0	
438	98	235	02:30:37.733		DMS:	: *RUNUP	P100, TRACK 1, FWD, TIC 202.12 +/-	1O0	4	0	4,618,200:85:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
439	98	235	02:30:41.600		DMS:	: *P_SLEW	P100, TRACK 1, FWD, TIC * 207.62 +/-	1O0	4	0	4,618,200:90:8	
440	98	235	02:30:41.600		DMS:	: *AT_SPD	P100, TRACK 1, FWD, TIC 207.62 +/-	1O0	4	0	4,618,200:90:8	
441	98	235	03:02:25.066		DMS:	**: *RUNDOWN**	P100, TRACK 1, FWD, TIC *6063.01 +/-	1O0	4	0	4,618,232:34:0	
442	98	235	03:02:25.066	465SD6B	6DMSC	RDY,1	DMS Control Tape stop	1O0	4	0	4,618,232:34:0	
443	98	235	03:02:26.266		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *6063.81 +/-	1O0	4	0	4,618,232:35:8	
444	98	235	03:18:01.066	465SE6A	6DMSC	P100,2	DMS Control Tape P/B 100.8kbps	1O0	4	0	4,618,247:73:0	
445	98	235	03:18:01.066		DMS:	: *US-RUNUP	P7, TRACK 1, FWD, TIC 6063.81 +/-	1O0	4	0	4,618,247:73:0	
446	98	235	03:18:02.466		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *6063.93 +/-	1O0	4	0	4,618,247:75:1	
447	98	235	03:18:07.733		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *6065.17 +/-	1O0	4	0	4,618,247:83:0	
448	98	235	03:18:08.933		DMS:	: *RUNUP	P100, TRACK *2, *REV, TIC *6065.23 +/-	1O0	4	0	4,618,247:84:8	
449	98	235	03:18:12.800		DMS:	: *AT_SPD	P100, TRACK 2, REV, TIC 6059.73 +/-	1O0	4	0	4,618,247:90:6	
450	98	235	03:18:12.800		DMS:	: *P_SLEW	P100, TRACK 2, REV, TIC *6059.73 +/-	1O0	4	0	4,618,247:90:6	
451	98	235	03:43:13.066	488CK6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	4,618,272:66:0	
452	98	235	03:50:09.066	465SF6A	6DMSC	P100,3	DMS Control Tape P/B 100.8kbps	1O0	4	0	4,618,279:53:0	
453	98	235	03:50:09.066		DMS:	**: *RUNDOWN**	P100, TRACK 2, REV, TIC * 164.96 +/-	1O0	4	0	4,618,279:53:0	
454	98	235	03:50:10.266		DMS:	: *RUNUP	P100, TRACK *3, *FWD, TIC * 164.16 +/-	1O0	4	0	4,618,279:54:8	
455	98	235	03:50:14.133		DMS:	: *AT_SPD	P100, TRACK 3, FWD, TIC 169.66 +/-	1O0	4	0	4,618,279:60:6	
456	98	235	03:50:14.133		DMS:	: *P_SLEW	P100, TRACK 3, FWD, TIC * 169.66 +/-	1O0	4	0	4,618,279:60:6	
457	98	235	04:17:21.066	488CK6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,618,306:44:0	
458	98	235	04:22:09.733		DMS:	**: *RUNDOWN**	P100, TRACK 3, FWD, TIC *6062.38 +/-	1O0	4	0	4,618,311:22:0	
459	98	235	04:22:09.733	465SF6B	6DMSC	RDY,3	DMS Control Tape stop	1O0	4	0	4,618,311:22:0	
460	98	235	04:22:10.933		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *6063.18 +/-	1O0	4	0	4,618,311:23:8	
461	98	235	04:36:53.066	465SG6A	6DMSC	P100,4	DMS Control Tape P/B 100.8kbps	1O0	4	0	4,618,325:73:0	
462	98	235	04:36:53.066		DMS:	: *US-RUNUP	P7, TRACK *1, FWD, TIC 6063.18 +/-	1O0	4	0	4,618,325:73:0	
463	98	235	04:36:54.466		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *6063.30 +/-	1O0	4	0	4,618,325:75:1	
464	98	235	04:36:59.733		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *6064.53 +/-	1O0	4	0	4,618,325:83:0	
465	98	235	04:37:00.933		DMS:	: *RUNUP	P100, TRACK *4, *REV, TIC *6064.59 +/-	1O0	4	0	4,618,325:84:8	
466	98	235	04:37:04.800		DMS:	: *AT_SPD	P100, TRACK 4, REV, TIC 6059.09 +/-	1O0	4	0	4,618,325:90:6	
467	98	235	04:37:04.800		DMS:	: *P_SLEW	P100, TRACK 4, REV, TIC *6059.09 +/-	1O0	4	0	4,618,325:90:6	
468	98	235	05:09:00.400		DMS:	**: *RUNDOWN**	P100, TRACK 4, REV, TIC * 166.38 +/-	1O0	4	0	4,618,357:52:0	
469	98	235	05:09:00.400	465SH6A	6DMSC	P100,3	DMS Control Tape P/B 100.8kbps	1O0	4	0	4,618,357:52:0	
470	98	235	05:09:01.600		DMS:	: *RUNUP	P100, TRACK *3, *FWD, TIC * 165.58 +/-	1O0	4	0	4,618,357:53:8	
471	98	235	05:09:05.466		DMS:	: *P_SLEW	P100, TRACK 3, FWD, TIC * 171.08 +/-	1O0	4	0	4,618,357:59:6	
472	98	235	05:09:05.466		DMS:	: *AT_SPD	P100, TRACK 3, FWD, TIC 171.08 +/-	1O0	4	0	4,618,357:59:6	
473	98	235	05:10:06.400	465SH6B	6DMSC	RDY,3	DMS Control Tape stop	1O0	4	0	4,618,358:60:0	
474	98	235	05:10:06.400		DMS:	**: *RUNDOWN**	P100, TRACK 3, FWD, TIC * 358.52 +/-	1O0	4	0	4,618,358:60:0	
475	98	235	05:10:07.600		DMS:	: *READY	RDY, TRACK 3, FWD, TIC * 359.32 +/-	1O0	4	0	4,618,358:61:8	
476	98	235	05:24:36.400		DMS:	: READY	RDY, TRACK *4, *REV, TIC 359.32 +/-	1O0	4	0	4,618,373:00:0	
477	98	235	05:24:36.400	465SI6A	6DMSC	RDY,4	DMS Control Tape stop	1O0	4	0	4,618,373:00:0	
478	98	235	05:25:30.400		DMS:	: *DMS-TURN	P7, TRACK 4, REV, TIC 359.32 +/-	1O0	4	0	4,618,373:81:0	
479	98	235	05:25:30.400		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 359.32 +/-	1O0	4	0	4,618,373:81:0	
480	98	235	05:25:30.400	465SJ6A	6DTRN	CMD,6DTRN,465SJ6	DMS TRACK TURNAROUND	1O0	4	0	4,618,373:81:0	
481	98	235	05:25:31.800		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 359.44 +/-	1O0	4	0	4,618,373:83:1	
482	98	235	05:25:37.066		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 360.67 +/-	1O0	4	0	4,618,374:00:0	
483	98	235	05:25:38.266		DMS:	: *RUNUP	P7, TRACK *4, *REV, TIC * 360.73 +/-	1O0	4	0	4,618,374:01:8	
484	98	235	05:25:39.666		DMS:	: *AT_SPD	P7, TRACK 4, REV, TIC * 360.61 +/-	1O0	4	0	4,618,374:03:9	
485	98	235	05:37:05.466		DMS:	: *REVERSE	P7, TRACK 4, REV, TIC * 199.87 +/-	1O0	4	0	4,618,385:31:6	
486	98	235	05:37:06.666		DMS:	: *TURNARND	P7, TRACK *1, *FWD, TIC * 199.81 +/-	1O0	4	0	4,618,385:33:4	
487	98	235	05:37:06.666		DMS:	: *RUNUP	P7, TRACK 1, FWD, TIC 199.81 +/-	1O0	4	0	4,618,385:33:4	
488	98	235	05:37:08.066		DMS:	: *AT_SPD	P7, TRACK 1, FWD, TIC * 199.93 +/-	1O0	4	0	4,618,385:35:5	
489	98	235	05:37:20.066		DMS:	: *AUTOSTOP	P7, TRACK 1, FWD, TIC * 202.06 +/-	1O0	4	0	4,618,385:53:5	
490	98	235	05:37:21.266		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 202.12 +/-	1O0	4	0	4,618,385:55:3	
491	98	235	05:55:03.733	20UG4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	1O0	4	0	4,618,403:11:0	
492	98	235	05:55:53.733	20UG4B	7SLEW	DIS,POS,0.0	Stator movement	1O0	4	0	4,618,403:86:0	
493	98	235	05:57:58.400	176SO6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	1O0	4	0	4,618,406:00:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
494	98	235	09:51:25.733	488CL6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,618,636:81:0	
495	98	235	09:54:25.066	488CL6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	1O0	4	0	4,618,639:77:0	
496	98	235	09:59:26.400	488CL6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	4,618,644:74:0	
497	98	235	10:11:29.066	488CL6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,618,656:66:0	
498	98	235	11:36:49.066	488CL6E	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	4,618,741:11:0	
499	98	235	18:39:13.066	488CM6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,619,158:80:0	
500	98	235	20:13:05.066	488CM6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	4,619,251:65:0	
501	98	235	20:19:29.066	488CM6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	4,619,258:04:0	
502	98	235	20:42:57.066	488CM6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	4,619,281:23:0	
503	98	235	21:33:32.400	488CM6E	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	1O0	4	0	4,619,331:26:0	
504	98	235	22:02:38.400	488CN6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	4,619,360:06:0	
505	98	235	22:42:25.066	488CN6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,619,399:37:0	
506	98	236	03:34:41.066	488CN6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	4,619,688:42:0	
507	98	236	03:56:01.066	488CN6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	4,619,709:51:0	
508	98	236	04:53:31.733	488CO6A	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	1O0	4	0	4,619,766:40:0	
509	98	236	05:14:57.000	488CO6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,619,787:57:0	
510	98	236	05:24:32.333	488CO6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,619,797:10:0	
511	98	236	09:51:29.000	488CO6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,620,061:11:0	
512	98	236	09:54:25.000	488CO6E	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	1O0	4	0	4,620,064:02:0	
513	98	236	09:59:30.333	488CP6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	4,620,069:05:0	
514	98	236	10:11:29.000	488CP6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,620,080:82:0	
515	98	236	10:59:53.666	488CP6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,620,128:71:0	
516	98	236	11:26:43.000	488CP6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,620,155:28:0	
517	98	236	11:47:29.000	488CP6E	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	4,620,175:77:0	
518	98	236	15:13:00.333	488CQ6A	6TMSED	NORM,AH7	Sci, Eng, and D/L Chan	1O0	4	0	4,620,379:10:0	
519	98	236	15:17:57.000	176SD6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	1O0	4	0	4,620,384:00:0	
520	98	236	15:29:00.333	20BA4C	7STAT	17.45,266.8195,1	Stator inertial point	1O0	4	0	4,620,394:85:0	
521	98	236	15:50:00.333	474BB416A4B	**7MODE**	**INT**	AACS INERTIAL MODE	1O0	4	0	4,620,415:64:0	
522	98	236	15:52:00.333	474BB416A4D	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	1O0	4	0	4,620,417:62:0	
523	98	236	15:52:20.333	20BA4D	7STAT	17.45,266.8195,1	Stator inertial point	1O0	4	0	4,620,418:01:0	
524	98	236	15:56:14.333	474BB416A4E	7BURN	Z,266.8195,19.76	ALERT -- Thruster fire	1O0	4	0	4,620,421:79:0	
525	98	236	16:08:15.000	20BA4F	7SLEW	DIS,POS,0.0	Stator movement	1O0	4	0	4,620,433:68:0	
526	98	236	16:14:07.000	20BA4G	**7MODE**	**CRU**	AACS CRUISE MODE	1O0	4	0	4,620,439:50:0	
527	98	236	16:38:23.000	20BA4J	7STAT	17.45,266.8195,1	Stator inertial point	1O0	4	0	4,620,463:50:0	
528	98	236	16:41:23.000	20BA4K	**7MODE**	**INT**	AACS INERTIAL MODE	1O0	4	0	4,620,466:47:0	
529	98	236	16:43:23.666	474BB416A4G	7BURN	LAT,266.8195,19.	ALERT -- Thruster fire	1O0	4	0	4,620,468:46:0	
530	98	236	16:55:28.333	20BA4M	7SLEW	DIS,POS,0.0	Stator movement	1O0	4	0	4,620,480:41:0	
531	98	236	17:00:20.333	20BA4N	**7MODE**	**CRU**	AACS CRUISE MODE	1O0	4	0	4,620,485:24:0	
532	98	236	18:07:52.333	20BB4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	1O0	4	0	4,620,552:05:0	
533	98	236	18:08:42.333	20BB4B	7SLEW	DIS,POS,0.0	Stator movement	1O0	4	0	4,620,552:80:0	
534	98	236	18:10:50.333	432BB431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	1O0	4	0	4,620,554:90:0	
535	98	236	18:10:51.000	432BB6A	6RTSL1		R/T Select of DDS and	1O0	4	0	4,620,555:00:0	
536	98	236	18:20:01.000	488CQ6B	6TMSED	NORM,AH6	Sci, Eng, and D/L Chan	1O0	4	0	4,620,564:06:0	
537	98	236	20:08:49.000	488CQ6C	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	1O0	4	0	4,620,671:61:0	
538	98	236	20:19:29.000	488CQ6D	6TMSED	NORM,AH4	Sci, Eng, and D/L Chan	1O0	4	0	4,620,682:20:0	
539	98	236	20:42:57.000	488CQ6E	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	1O0	4	0	4,620,705:39:0	
540	98	236	21:21:00.333	488CR6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	4,620,743:06:0	
541	98	236	21:21:57.000	176SE6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	1O0	4	0	4,620,744:00:0	
542	98	236	21:33:28.333	488CR6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	1O0	4	0	4,620,755:36:0	
543	98	236	22:02:34.333	488CR6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	4,620,784:16:0	
544	98	236	22:57:21.000	488CR6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,620,838:32:0	
545	98	237	03:34:41.000	488CS6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	4,621,112:58:0	
546	98	237	04:17:21.000	488CS6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,621,154:76:0	
547	98	237	04:54:50.333	488CS6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,621,191:83:0	
548	98	237	05:21:40.333	488CS6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,621,218:41:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
549	98	237	09:46:42.333	488CT6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,621,480:52:0	
550	98	237	09:50:09.000	488CT6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	1O0	4	0	4,621,483:89:0	
551	98	237	09:54:33.666	488CT6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	4,621,488:31:0	
552	98	237	10:07:13.000	488CT6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,621,500:78:0	
553	98	237	12:02:25.000	488CT6E	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	4,621,614:72:0	
554	98	237	17:58:40.933	488CU6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,621,967:13:0	
555	98	237	20:04:32.933	488CU6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	4,622,091:57:0	
556	98	237	20:19:28.933	488CU6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	4,622,106:36:0	
557	98	237	20:20:37.600	488CU6D	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	1O0	4	0	4,622,107:48:0	
558	98	237	20:40:48.933	488CU6E	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	1O0	4	0	4,622,127:45:0	
559	98	238	09:49:36.933	488CV6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	4,622,907:57:0	
560	98	238	10:02:56.933	488CV6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,622,920:74:0	
561	98	238	12:17:20.933	488CV6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	4,623,053:67:0	
562	98	238	17:28:48.933	488CW6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,623,361:71:0	
563	98	238	19:53:52.933	488CW6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	4,623,505:23:0	
564	98	238	20:08:48.933	488CW6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	4,623,520:02:0	
565	98	238	20:36:32.866	488CW6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	4,623,547:41:0	
566	98	238	21:23:22.200	488CW6E	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	1O0	4	0	4,623,593:69:0	
567	98	238	21:52:28.866	488CX6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	4,623,622:50:0	
568	98	238	23:46:24.866	488CX6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,623,735:21:0	
569	98	239	02:24:16.866	488CX6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	4,623,891:33:0	
570	98	239	05:00:32.200	488CY6A	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	1O0	4	0	4,624,045:82:0	
571	98	239	09:44:39.533	488CY6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	4,624,326:82:0	
572	98	239	09:56:32.866	488CY6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,624,338:60:0	
573	98	239	12:42:56.866	488CZ6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	4,624,503:21:0	
574	98	239	16:54:40.866	488CZ6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,624,752:18:0	
575	98	239	19:49:36.866	488DA6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	4,624,925:19:0	
576	98	239	20:08:48.866	488DA6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	4,624,944:18:0	
577	98	239	20:12:48.200	488DA6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	1O0	4	0	4,624,948:13:0	
578	98	239	20:21:36.866	488DA6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	1O0	4	0	4,624,956:78:0	
579	98	240	03:34:41.533	488DB6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	4,625,385:16:0	
580	98	240	04:17:20.800	488DB6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,625,427:33:0	
581	98	240	09:31:50.133	488DB6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,625,738:36:0	
582	98	240	09:35:12.800	488DC6A	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	1O0	4	0	4,625,741:67:0	
583	98	240	09:39:42.800	488DC6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	4,625,746:17:0	
584	98	240	09:52:16.800	488DC6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,625,758:56:0	
585	98	240	13:21:20.800	488DC6D	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	4,625,965:35:0	
586	98	240	14:47:02.800	488DC6E	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	1O0	4	0	4,626,050:13:0	
587	98	240	14:48:48.800	488DD6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	1O0	4	0	4,626,051:81:0	
588	98	240	20:06:30.133	488DD6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	4,626,366:08:0	
589	98	240	20:47:12.800	488DD6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	4,626,406:32:0	
590	98	240	21:13:17.466	488DE6A	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	1O0	4	0	4,626,432:13:0	
591	98	240	21:42:23.466	488DE6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	4,626,460:84:0	
592	98	241	04:38:40.800	488DF6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,626,872:58:0	
593	98	241	05:54:39.466	488DF6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,626,947:71:0	
594	98	241	06:21:29.466	488DF6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,626,974:29:0	
595	98	241	09:26:30.133	488DF6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,627,157:27:0	
596	98	241	09:28:48.800	488DF6E	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	1O0	4	0	4,627,159:53:0	
597	98	241	09:34:44.800	488DG6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	4,627,165:41:0	
598	98	241	09:52:16.800	488DG6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,627,182:72:0	
599	98	241	19:38:56.733	488DH6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	4,627,763:01:0	
600	98	241	19:53:52.733	488DH6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	4,627,777:71:0	
601	98	241	20:13:04.733	488DH6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	4,627,796:70:0	
602	98	241	21:27:44.733	488DH6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,627,870:56:0	
603	98	242	03:15:28.733	488DI6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	4,628,214:48:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
604	98	242	03:43:12.733	488DI6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	4,628,241:87:0	
605	98	242	04:33:13.400	488DI6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	1O0	4	0	4,628,291:38:0	
606	98	242	05:02:19.400	488DI6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	4,628,320:18:0	
607	98	242	05:42:40.733	488DI6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,628,360:10:0	
608	98	242	09:24:32.733	488DJ6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	4,628,579:49:0	
609	98	242	09:48:00.733	488DJ6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,628,602:68:0	
610	98	242	10:34:35.400	488DJ6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,628,648:74:0	
611	98	242	11:01:25.400	488DJ6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,628,675:32:0	
612	98	242	19:34:40.666	488DK6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	4,629,182:88:0	
613	98	242	19:53:52.666	488DK6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	4,629,201:87:0	
614	98	242	19:57:56.000	488DK6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	1O0	4	0	4,629,205:88:0	
615	98	242	20:06:40.666	488DK6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	1O0	4	0	4,629,214:56:0	
616	98	243	09:24:50.666	488DL6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	4,630,004:01:0	
617	98	243	09:41:36.666	488DL6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	4,630,020:54:0	
618	98	243	17:57:28.000	176SV6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	1O0	4	0	4,630,511:00:0	
619	98	243	18:02:00.000	20UR4B	7SLEW	DIS,POS,0.0	Stator movement	1O0	4	0	4,630,515:44:0	
620	98	243	18:03:00.000	20UR4D	**7MODE**	**SPNL**	AACS ALL-SPIN LOW	1O0	4	0	4,630,516:43:0	
621	98	243	18:05:00.000	20UR4E	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	1O0	4	0	4,630,518:41:0	
622	98	243	18:10:30.000	20UR4G	7VENT	0.611,1.333,8	ALERT -- Thruster fire	1O0	4	0	4,630,523:81:0	
623	98	243	18:10:30.666	20UR4H	7VENT	0.611,10.989,8	ALERT -- Thruster fire	1O0	4	0	4,630,523:82:0	
624	98	243	18:10:50.666	20UR4I	7VENT	0.611,1.333,6	ALERT -- Thruster fire	1O0	4	0	4,630,524:21:0	
625	98	243	18:10:51.333	20UR4J	7VENT	0.611,10.989,6	ALERT -- Thruster fire	1O0	4	0	4,630,524:22:0	
626	98	243	18:11:11.333	20UR4K	7VENT	0.611,1.333,4	ALERT -- Thruster fire	1O0	4	0	4,630,524:52:0	
627	98	243	18:11:12.000	20UR4L	7VENT	0.611,0.666,5	ALERT -- Thruster fire	1O0	4	0	4,630,524:53:0	
628	98	243	18:11:22.000	20UR4M	7VENT	0.611,1.333,4	ALERT -- Thruster fire	1O0	4	0	4,630,524:68:0	
629	98	243	18:11:22.666	20UR4N	7VENT	0.611,0.666,5	ALERT -- Thruster fire	1O0	4	0	4,630,524:69:0	
630	98	243	18:11:32.666	20UR4O	7VENT	1.211,1.333,10	ALERT -- Thruster fire	1O0	4	0	4,630,524:84:0	
631	98	243	18:11:33.333	20UR4P	7VENT	1.211,0.666,12	ALERT -- Thruster fire	1O0	4	0	4,630,524:85:0	
632	98	243	18:13:20.000	20UR4S	7VENT	0.611,1.333,7	ALERT -- Thruster fire	1O0	4	0	4,630,526:63:0	
633	98	243	18:13:20.666	20UR4T	7VENT	0.611,10.989,7	ALERT -- Thruster fire	1O0	4	0	4,630,526:64:0	
634	98	243	18:13:40.666	20UR4U	7VENT	0.611,1.333,1	ALERT -- Thruster fire	1O0	4	0	4,630,527:03:0	
635	98	243	18:13:41.333	20UR4V	7VENT	0.611,10.989,1	ALERT -- Thruster fire	1O0	4	0	4,630,527:04:0	
636	98	243	18:14:01.333	20UR4AC	7VENT	0.611,1.333,2	ALERT -- Thruster fire	1O0	4	0	4,630,527:34:0	
637	98	243	18:14:02.000	20UR4AD	7VENT	0.611,0.666,3	ALERT -- Thruster fire	1O0	4	0	4,630,527:35:0	
638	98	243	18:14:12.000	20UR4AE	7VENT	0.611,1.333,2	ALERT -- Thruster fire	1O0	4	0	4,630,527:50:0	
639	98	243	18:14:12.666	20UR4AF	7VENT	0.611,0.666,3	ALERT -- Thruster fire	1O0	4	0	4,630,527:51:0	
640	98	243	18:14:22.666	20UR4W	7VENT	1.211,1.333,9	ALERT -- Thruster fire	1O0	4	0	4,630,527:66:0	
641	98	243	18:14:23.333	20UR4X	7VENT	1.211,0.666,11	ALERT -- Thruster fire	1O0	4	0	4,630,527:67:0	
642	98	243	18:15:20.000	20UR4Z	**7MODE**	**CRU**	AACS CRUISE MODE	1O0	4	0	4,630,528:61:0	
643	98	243	18:30:49.333	432NF431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	1O0	4	0	4,630,543:90:0	
644	98	243	18:30:50.000	432NF6A	6RTSL1		R/T Select of DDS and	1O0	4	0	4,630,544:00:0	
645	98	243	18:40:04.000	20UK4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	1O0	4	0	4,630,553:12:0	
646	98	243	18:40:54.000	20UK4B	7SLEW	DIS,POS,0.0	Stator movement	1O0	4	0	4,630,553:87:0	
647	98	243	18:42:58.000	176SW6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	1O0	4	0	4,630,556:00:0	
648	98	243	19:30:24.666	488DM6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	4,630,602:84:0	
649	98	243	19:49:36.666	488DM6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	4,630,621:83:0	
650	98	243	20:06:40.666	488DM6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	4,630,638:72:0	
651	98	243	21:00:32.666	41XE99A	**POWER**	**PWR MODE change**	Change to Calib/Decon Mode	1O0	4	0	4,630,692:06:0	
652	**98**	**243**	**21:00:32.666**	**16NNRCTRLT01-**		**-----START------**		**1O0**	**4**	**0**	**: :**	
653	**98**	**243**	**21:00:36.666**	**41XE3I**	**40T1PR**	**1**	**PCT Heater 1 OFF (primary relay)**	**1O0**	**4**	**0**	**4,630,692:12:0**	
654	**98**	**243**	**21:00:46.666**	**41XE3J**	**40T1PR**	**2**	**PCT Heater 1 OFF (primary relay)**	**1O0**	**4**	**0**	**4,630,692:27:0**	
655	**98**	**243**	**21:00:56.666**	**41XE3K**	**40T2R**	**1**	**PCT Heater 2 OFF**	**1O0**	**4**	**0**	**4,630,692:42:0**	
656	**98**	**243**	**21:01:06.666**	**41XE3L**	**40T2R**	**2**	**PCT Heater 2 OFF**	**1O0**	**4**	**0**	**4,630,692:57:0**	
657	98	243	21:11:36.000	176XU6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	1O0	4	0	4,630,703:00:0	
658	98	243	21:14:42.000	20XE4A	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	1O0	4	0	4,630,706:06:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters		Description	GCM	GO	GS	RIM	MF I
659	98	243	21:17:04.666	488DM6D	6TMSED	NORM,AL6		Sci, Eng, and D/L Chan	1O0	4	0	4,630,708:38:0	
660	98	243	21:18:48.666	20DX4A	**7SAFE**	**STOP**		S/P NO MOVEMENT	1O0	4	0	4,630,710:12:0	
661	98	243	21:19:38.666	20DX4B	7SLEW	DIS,POS,0.0		Stator movement	1O0	4	0	4,630,710:87:0	
662	98	243	21:21:42.666	176XV6A	6TMREC	**RPB**		RESUME PLAYBACK (PB CONTROL) Record Mode	1O0	4	0	4,630,713:00:0	
663	**98**	**243**	**21:22:43.333**	**185XE10A3A**	**40HRP**		**1**	**RCT Heater ON (primary relay)**	**1O0**	**4**	**0**	**4,630,714:00:0**	
664	**98**	**243**	**21:22:48.666**	**185XE10B3A**	**40HRP**		**2**	**RCT Heater ON (primary relay)**	**1O0**	**4**	**0**	**4,630,714:08:0**	
665	98	244	04:15:12.600	488DN6A	6TMSED	NORM,AL5		Sci, Eng, and D/L Chan	1O0	4	0	4,631,121:87:0	
666	98	244	05:23:28.600	488DN6B	6TMSED	NORM,AL6		Sci, Eng, and D/L Chan	1O0	4	0	4,631,189:43:0	
667	98	244	09:11:37.266	488DN6C	6TMSED	FILL,AL6		Sci, Eng, and D/L Chan	1O0	4	0	4,631,415:10:0	
668	98	244	09:13:52.600	488DN6D	6TMSED	FILL,AL5		Sci, Eng, and D/L Chan	1O0	4	0	4,631,417:31:0	
669	98	244	09:17:29.933	125XE	NIMSINIT	GS		##### GROUP START INIT	1O0	4	0	4,631,420:84:0	
670	**98**	**244**	**09:17:29.933**	**125XE4A**	**37IST**	**1,0,0,OFF,0,0,0**		**Chopper ON, Sync, 63Hz (Ref)**	**160**	**4**	**0**	**4,631,420:84:0**	
671	**98**	**244**	**09:18:30.600**	**125XE4B**	**37IST**	**1,2,0,OFF,0,0,0**		**Chopper ON, Sync, Chopper (Ref)**	**1R0**	**4**	**0**	**4,631,421:84:0**	
672	**98**	**244**	**09:19:31.266**	**125XE4C**	**37IST**	**0,2,0,OFF,0,1,3**		**Gain State 1**	**1R0**	**4**	**0**	**4,631,422:84:0**	
673	98	244	09:19:52.600	488DN6E	6TMSED	NORM,AL5		Sci, Eng, and D/L Chan	1R0	4	0	4,631,423:25:0	
674	98	244	09:20:31.933	125XE11A	NIMSINIT	GE		##### GROUP END INIT	1R0	4	0	4,631,423:84:0	
675	**98**	**244**	**09:20:31.933**	**125XE4D**	**37MB**	**1B,1B,0,0,0,0**		**Selects mirror (spatial) edit table**	**1R0**	**4**	**0**	**4,631,423:84:0**	
676	98	244	09:22:33.266	127XE	NIMSTAB	GS		%%%%% GROUP START TAB	1R0	4	0	4,631,425:84:0	
677	**98**	**244**	**09:22:33.266**	**127XE4A**	**37IOP**	**3,0**		**Long Map, Grating Start Position =00**	**1R3**	**4**	**0**	**4,631,425:84:0**	
678	**98**	**244**	**09:22:33.933**	**127XE4B**	**37ETB**	**0A,CA,18,03,FF,1**		**Loads wavelength edit table**	**1R3**	**4**	**0**	**4,631,425:85:0**	
679	98	244	09:22:41.933	127XE11A	NIMSTAB	GE		%%%%% GROUP END TAB	1R3	4	0	4,631,426:06:0	
680	98	244	09:26:40.600	176XE6A	6TMREC	**PPB**		PAUSE PLAYBACK (PB CONTROL) Record Mode C	1R3	4	0	4,631,430:00:0	
681	98	244	09:32:44.600	192XE4A	**7CONE**	**17.0,119.7**		Check S/P Position	1R3	4	0	4,631,436:00:0	
682	**98**	**244**	**09:35:05.933**	**432XE6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**		**NIMS R/T SELECT**	**1R3**	**4**	**0**	**4,631,438:30:0**	
683	**98**	**244**	**09:36:05.266**	**432XF6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**		**NIMS R/T DESELECT**	**1R3**	**4**	**0**	**4,631,439:28:0**	
684	98	244	09:37:20.600	488DO6A	6TMSED	NORM,AL6		Sci, Eng, and D/L Chan	1R3	4	0	4,631,440:50:0	
685	98	244	09:38:48.600	192XE4B	**7CONE**	**17.0,0.0**		Check S/P Position	1R3	4	0	4,631,442:00:0	
686	**98**	**244**	**09:41:09.933**	**432XU6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**		**NIMS R/T SELECT**	**1R3**	**4**	**0**	**4,631,444:30:0**	
687	**98**	**244**	**09:43:09.933**	**432XV6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**		**NIMS R/T DESELECT**	**1R3**	**4**	**0**	**4,631,446:28:0**	
688	98	244	09:44:52.600	192XE4C	**7CONE**	**17.0,119.7**		Check S/P Position	1R3	4	0	4,631,448:00:0	
689	**98**	**244**	**09:46:53.933**	**185XE10C3A**	**40HRPR**		**1**	**RCT Heater OFF (primary relay)**	**1R3**	**4**	**0**	**4,631,450:00:0**	
690	**98**	**244**	**09:46:59.266**	**185XE10D3A**	**40HRPR**		**2**	**RCT Heater OFF (primary relay)**	**1R3**	**4**	**0**	**4,631,450:08:0**	
691	**98**	**244**	**09:47:13.933**	**432XW6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**		**NIMS R/T SELECT**	**1R3**	**4**	**0**	**4,631,450:30:0**	
692	**98**	**244**	**09:48:13.266**	**432XY6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**		**NIMS R/T DESELECT**	**1R3**	**4**	**0**	**4,631,451:28:0**	
693	**98**	**244**	**09:49:51.266**	**125DX4A**	**37IST**	**0,2,0,OFF,0,1,1**		**Gain State 4**	**4R3**	**4**	**0**	**4,631,452:84:0**	
694	98	244	09:49:51.266	125DX	NIMSINIT	GS		##### GROUP START INIT	4R3	4	0	4,631,452:84:0	
695	98	244	09:49:51.266	125DX11A	NIMSINIT	GE		##### GROUP END INIT	4R3	4	0	4,631,452:84:0	
696	98	244	09:50:51.933	127DC	NIMSTAB	GS		%%%%% GROUP START TAB	4R3	4	0	4,631,453:84:0	
697	**98**	**244**	**09:50:51.933**	**127DC4A**	**37IOP**	**3,0**		**Long Map, Grating Start Position =00**	**4R3**	**4**	**0**	**4,631,453:84:0**	
698	**98**	**244**	**09:50:52.600**	**127DC4B**	**37ETB**	**07,C7,31,80,00,0**		**Loads wavelength edit table**	**4R3**	**4**	**0**	**4,631,453:85:0**	
699	98	244	09:50:56.600	192XE4D	**7CONE**	**17.0,153.0**		Check S/P Position	4R3	4	0	4,631,454:00:0	
700	98	244	09:51:00.600	127DC11A	NIMSTAB	GE		%%%%% GROUP END TAB	4R3	4	0	4,631,454:06:0	
701	**98**	**244**	**09:51:16.600**	**432DC6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**		**NIMS R/T SELECT**	**4R3**	**4**	**0**	**4,631,454:30:0**	
702	98	244	09:51:52.600	125DY	NIMSINIT	GS		##### GROUP START INIT	4R3	4	0	4,631,454:84:0	
703	98	244	09:51:52.600	125DY11A	NIMSINIT	GE		##### GROUP END INIT	4R3	4	0	4,631,454:84:0	
704	**98**	**244**	**09:51:52.600**	**125DY4A**	**37IST**	**0,2,1,OFF,1,0,1**		**OPCAL**	**4R3**	**4**	**0**	**4,631,454:84:0**	
705	98	244	09:53:53.933	125DE11A	NIMSINIT	GE		##### GROUP END INIT	4R3	4	0	4,631,456:84:0	
706	**98**	**244**	**09:53:53.933**	**125DE4A**	**37IST**	**0,2,1,OFF,1,0,1**		**OPCAL**	**4R3**	**4**	**0**	**4,631,456:84:0**	
707	98	244	09:53:53.933	125DE	NIMSINIT	GS		##### GROUP START INIT	4R3	4	0	4,631,456:84:0	
708	**98**	**244**	**09:54:17.266**	**432DE6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**		**NIMS R/T DESELECT**	**4R3**	**4**	**0**	**4,631,457:28:0**	
709	98	244	09:57:56.600	127XF	NIMSTAB	GS		%%%%% GROUP START TAB	4R3	4	0	4,631,460:84:0	
710	**98**	**244**	**09:57:56.600**	**127XF4A**	**37IOP**	**0,0**		**Safe, Grating Start Position =00**	**4R0**	**4**	**0**	**4,631,460:84:0**	
711	**98**	**244**	**09:57:57.266**	**127XF4B**	**37ETB**	**04,C4,02,00,00**		**Loads wavelength edit table**	**4R0**	**4**	**0**	**4,631,460:85:0**	
712	98	244	09:58:05.266	127XF11A	NIMSTAB	GE		%%%%% GROUP END TAB	4R0	4	0	4,631,461:06:0	
713	98	244	10:00:58.600	125XF	NIMSINIT	GS		##### GROUP START INIT	4R0	4	0	4,631,463:84:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
714	98	244	10:00:58.600	125XF4A	37MB	0,0,0,0,0,0	Selects mirror (spatial) edit table	4R0	4	0	4,631,463:84:0
715	98	244	10:01:59.266	125XF4B	37IST	1,0,0,OFF,0,0,0	Chopper ON, Sync, 63Hz (Ref)	460	4	0	4,631,464:84:0
716	98	244	10:02:59.933	125XF4C	37IST	1,1,0,OFF,0,0,0	Chopper OFF, N/A, 63Hz (Ref)	4O0	4	0	4,631,465:84:0
717	98	244	10:02:59.933	125XF11A	NIMSINIT	GE	##### GROUP END INIT	4O0	4	0	4,631,465:84:0
718	98	244	10:09:12.600	41XU99A	POWER	PWR MODE change	Change to Maneuver/Playback Mode	4O0	4	0	4,631,472:06:0
719	98	244	10:11:06.600	41XU3G	40T1P	1	PCT Heater 1 ON (primary relay)	4O0	4	0	4,631,473:86:0
720	98	244	10:11:16.600	41XU3H	40T1P	2	PCT Heater 1 ON (primary relay)	4O0	4	0	4,631,474:10:0
721	98	244	10:11:26.600	41XU3I	40T2	1	PCT Heater 2 ON	4O0	4	0	4,631,474:25:0
722	98	244	10:11:36.600	41XU3J	40T2	2	PCT Heater 2 ON	4O0	4	0	4,631,474:40:0
723	98	244	10:16:17.332	16NNRCTRLT01-		-----STOP-------		4O0	4	0	: :
724	98	244	10:19:23.266	20DB4A	7SAFE	STOP	S/P NO MOVEMENT	4O0	4	0	4,631,482:12:0
725	98	244	10:20:13.266	20DB4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,631,482:87:0
726	98	244	10:22:17.266	176XF6A	6TMREC	RPB	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	4,631,485:00:0
727	98	244	14:31:06.600	488DO6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,631,731:08:0
728	98	244	14:33:52.600	488DO6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,631,733:75:0
729	98	244	19:51:40.600	488DP6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,632,048:12:0
730	98	244	20:17:20.600	488DP6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,632,073:47:0
731	98	244	20:58:06.600	488DP6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,632,113:76:0
732	98	244	21:27:12.600	488DP6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,632,142:56:0
733	98	245	02:54:08.600	488DQ6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,632,465:87:0
734	98	245	03:15:28.600	488DQ6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,632,487:05:0
735	98	245	04:02:24.600	488DQ6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,632,533:43:0
736	98	245	04:14:29.933	488DQ6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,632,545:39:0
737	98	245	04:41:19.266	488DQ6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,632,571:87:0
738	98	245	09:11:38.600	488DR6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,632,839:28:0
739	98	245	09:13:52.600	488DR6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,632,841:47:0
740	98	245	09:19:54.600	488DR6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,632,847:44:0
741	98	245	09:33:04.600	488DR6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,632,860:46:0
742	98	245	15:19:22.533	176RA6A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	4O0	4	0	4,633,203:00:0
743	98	245	19:24:00.533	488DS6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,633,444:86:0
744	98	245	19:45:20.533	488DS6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,633,466:04:0
745	98	245	19:48:03.200	488DS6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,633,468:66:0
746	98	246	03:06:43.200	488DT6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,633,902:52:0
747	98	246	03:17:36.533	488DT6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,633,913:31:0
748	98	246	03:51:44.533	488DT6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,633,947:09:0
749	98	246	09:02:03.200	488DT6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,634,254:00:0
750	98	246	09:05:20.533	488DT6E	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,634,257:23:0
751	98	246	09:09:57.866	488DU6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,634,261:75:0
752	98	246	09:26:40.533	488DU6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,634,278:32:0
753	98	246	12:51:28.533	488DU6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,634,480:82:0
754	98	246	16:05:36.533	488DV6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,634,672:82:0
755	98	246	19:19:44.466	488DV6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,634,864:82:0
756	98	246	19:38:56.466	488DV6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,634,883:81:0
757	98	246	19:43:06.466	488DV6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,634,888:01:0
758	98	247	03:01:45.133	488DW6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,635,321:76:0
759	98	247	03:17:36.466	488DW6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,635,337:47:0
760	98	247	03:29:13.133	176RB6A	6TMREC	RPB	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	4,635,349:00:0
761	98	247	04:08:01.800	488DW6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,635,387:35:0
762	98	247	04:37:07.800	488DW6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,635,416:15:0
763	98	247	04:51:28.466	488DW6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,635,430:32:0
764	98	247	09:02:04.466	488DX6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,635,678:18:0
765	98	247	09:05:20.466	488DX6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,635,681:39:0
766	98	247	09:09:59.800	488DX6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,635,686:03:0
767	98	247	09:22:24.466	488DX6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,635,698:28:0
768	98	247	10:09:24.466	488DX6E	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,635,744:72:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
769	98	247	10:36:14.466	488DY6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,635,771:30:0	
770	98	247	12:02:24.466	488DY6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,635,856:50:0	
771	98	247	16:14:59.800	20RA6A	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,636,106:33:0	
772	98	247	16:39:44.466	488DZ6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,636,130:76:0	
773	98	247	16:39:46.466	20RA6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,636,130:79:0	
774	98	247	18:42:02.466	488DZ6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,636,251:72:0	
775	98	247	18:45:36.466	488DZ6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,636,255:29:0	
776	98	247	19:31:47.133	488DZ6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,636,300:90:0	
777	98	247	19:43:12.466	488DZ6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,636,312:26:0	
778	98	247	20:42:56.466	488EA6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,636,371:33:0	
779	98	248	04:19:28.400	488EB6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,636,822:80:0	
780	98	248	05:19:12.400	488EB6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,636,881:87:0	
781	98	248	05:23:09.066	488EB6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,636,885:78:0	
782	98	248	05:32:00.400	488EB6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,636,894:56:0	
783	98	248	09:05:01.733	488EB6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,637,105:27:0	
784	98	248	09:18:08.400	488EC6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,637,118:24:0	
785	98	248	11:32:32.400	488EC6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,637,251:17:0	
786	98	248	16:59:57.066	176RC6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	4O0	4	0	4,637,575:00:0	
787	98	248	17:05:20.400	488ED6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,637,580:30:0	
788	98	248	19:19:44.400	488ED6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,637,713:23:0	
789	98	248	19:34:40.400	488ED6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,637,728:02:0	
790	98	248	19:36:05.733	488ED6D	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,637,729:39:0	
791	98	248	19:56:00.400	488ED6E	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,637,749:11:0	
792	98	249	09:00:03.733	488EE6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,638,524:51:0	
793	98	249	09:11:44.400	488EE6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,638,536:10:0	
794	98	249	11:06:56.333	488EE6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,638,650:04:0	
795	98	249	11:06:58.333	20RG6A	6TMSED	NORM,GL7	Sci, Eng, and D/L Chan	4O0	4	0	4,638,650:07:0	
796	98	249	17:20:16.333	488EF6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,639,019:25:0	
797	98	249	19:15:28.333	488EF6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,639,133:19:0	
798	98	249	19:30:24.333	488EF6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,639,147:89:0	
799	98	249	19:31:07.666	488EF6D	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,639,148:63:0	
800	98	249	19:51:44.333	488EF6E	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,639,169:07:0	
801	98	250	08:55:05.666	488EG6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,639,943:75:0	
802	98	250	08:59:19.000	176RD6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	4,639,948:00:0	
803	98	250	09:07:28.333	488EG6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,639,956:06:0	
804	98	250	10:47:44.333	488EG6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,640,055:21:0	
805	98	250	17:05:00.333	488EH6A	6TMSED	NORM,AH7	Sci, Eng, and D/L Chan	4O0	4	0	4,640,428:32:0	
806	98	250	17:08:41.666	176GC6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	4O0	4	0	4,640,432:00:0	
807	98	250	17:28:48.333	488EH6B	6TMSED	NORM,AH6	Sci, Eng, and D/L Chan	4O0	4	0	4,640,451:81:0	
808	98	250	17:34:30.333	20NY4I	**7MODE**	**INT**	AACS INERTIAL MODE	4O0	4	0	4,640,457:48:0	
809	98	250	17:49:30.266	20NY4K	7SLEW	INIT,POS,17.45	Stator movement	4O0	4	0	4,640,472:33:0	
810	98	250	18:01:30.266	20NY4L	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,640,484:21:0	
811	98	250	18:08:30.266	20NY4M	7SLEW	INIT,NEG,17.45	Stator movement	4O0	4	0	4,640,491:14:0	
812	98	250	18:20:30.266	20NY4N	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,640,503:02:0	
813	98	250	18:27:30.266	20NY4O	7SLEW	INIT,POS,4.36	Stator movement	4O0	4	0	4,640,509:86:0	
814	98	250	18:39:30.266	20NY4P	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,640,521:74:0	
815	98	250	18:46:30.266	20NY4Q	7SLEW	INIT,NEG,4.36	Stator movement	4O0	4	0	4,640,528:67:0	
816	98	250	18:58:30.266	20NY4R	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,640,540:55:0	
817	98	250	19:10:30.266	20NY4AH	**7MODE**	**CRU**	AACS CRUISE MODE	4O0	4	0	4,640,552:43:0	
818	98	250	19:13:20.266	488EH6C	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	4O0	4	0	4,640,555:25:0	
819	98	250	19:19:44.266	488EH6D	6TMSED	NORM,AH4	Sci, Eng, and D/L Chan	4O0	4	0	4,640,561:55:0	
820	98	250	19:24:04.266	20SK4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	4O0	4	0	4,640,565:81:0	
821	98	250	19:24:54.266	20SK4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,640,566:65:0	
822	98	250	19:26:12.266	176GD6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	4,640,568:00:0	
823	98	250	19:28:00.266	488EH6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,640,569:71:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
824	98	250	19:36:48.266	488EI6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,640,578:44:0	
825	98	250	20:32:54.266	488EI6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,640,633:88:0	
826	98	250	21:02:00.933	488EI6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,640,662:69:0	
827	98	250	21:32:00.266	488EI6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,640,692:38:0	
828	98	250	23:32:16.266	488EI6E	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,640,811:33:0	
829	98	250	23:35:44.266	488EJ6A	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,640,814:72:0	
830	98	251	02:40:06.933	488EJ6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,640,997:13:0	
831	98	251	03:13:20.266	488EJ6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,641,030:00:0	
832	98	251	08:41:50.266	488EK6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,641,354:81:0	
833	98	251	08:44:00.266	488EK6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,641,357:03:0	
834	98	251	08:50:07.600	488EK6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,641,363:08:0	
835	98	251	09:03:12.266	488EK6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,641,376:02:0	
836	98	251	10:28:32.266	488EK6E	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,641,460:38:0	
837	98	251	14:02:40.933	488EL6A	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,641,672:19:0	
838	98	251	14:04:00.266	488EL6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,641,673:47:0	
839	98	251	19:20:07.600	488EL6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,641,986:15:0	
840	98	251	20:02:24.266	488EL6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,642,027:89:0	
841	98	251	23:59:01.600	176RE6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	4O0	4	0	4,642,262:00:0	
842	98	252	02:42:25.533	488EM6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,642,423:55:0	
843	98	252	02:47:44.200	488EM6B	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,642,428:78:0	
844	98	252	15:08:22.866	488EN6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,643,161:33:0	
845	98	252	15:59:34.866	176RF6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	4,643,212:00:0	
846	98	252	17:45:52.200	488EN6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,643,317:11:0	
847	98	252	19:09:04.200	488EN6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,643,399:37:0	
848	98	252	19:15:28.200	488EN6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,643,405:67:0	
849	98	252	19:18:17.533	488EN6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,643,408:48:0	
850	98	252	19:28:16.200	488EO6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,643,418:36:0	
851	98	252	22:59:16.200	488EO6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,643,627:07:0	
852	98	253	00:09:13.533	488EO6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,643,696:24:0	
853	98	253	00:36:03.533	488EO6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,643,722:73:0	
854	98	253	03:15:28.200	488EP6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,643,880:42:0	
855	98	253	04:47:12.200	488EP6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,643,971:17:0	
856	98	253	04:55:44.200	488EP6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,643,979:57:0	
857	98	253	05:54:13.533	488EP6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,644,037:43:0	
858	98	253	06:21:03.533	488EP6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,644,064:01:0	
859	98	253	06:46:40.200	488EQ6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,644,089:31:0	
860	98	253	08:29:04.200	488EQ6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,644,190:56:0	
861	98	253	08:32:14.866	488EQ6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,644,193:69:0	
862	98	253	08:35:28.200	488EQ6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,644,196:86:0	
863	98	253	08:40:10.866	488EQ6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,644,201:55:0	
864	98	253	08:52:32.200	488ER6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,644,213:75:0	
865	98	253	10:02:56.133	488ER6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,644,283:41:0	
866	98	253	17:45:52.133	488ES6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,644,741:27:0	
867	98	253	19:04:48.133	488ES6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,644,819:33:0	
868	98	253	19:47:28.133	488ES6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,644,861:51:0	
869	**98**	**253**	**23:59:59.466**	**432NB6B**	**6RTDS2**	**NIMDSL,AACDSL,RT**	**NIMS R/T DESELECTAACS DESELECT**	**4O0**	**4**	**0**	**4,645,111:28:0**	
870	98	254	00:01:42.133	431MA6A	6RCSEL	DDSSEL,PLSNCG,EP	Record Select (DDS onl	4O0	4	0	4,645,113:00:0	
871	98	254	02:34:56.133	488ET6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,645,264:50:0	
872	98	254	02:54:08.133	488ET6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,645,283:49:0	
873	98	254	05:57:36.133	488ET6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,645,464:90:0	
874	98	254	06:45:08.133	176RG6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	4O0	4	0	4,645,512:00:0	
875	98	254	08:28:06.133	488ET6D	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,645,613:76:0	
876	98	254	08:29:04.133	488ET6E	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,645,614:72:0	
877	98	254	08:34:18.133	488EU6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,645,619:88:0	
878	98	254	09:48:00.133	488EU6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,645,692:78:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
879	98	254	17:50:08.066	488EV6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,646,169:63:0
880	98	254	19:00:32.066	488EV6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,646,239:29:0
881	98	254	19:43:12.066	488EV6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,646,281:47:0
882	**98**	**255**	**00:00:34.733**	**16NNPCTRLT01-**		**-----START------**		**4O0**	**4**	**0**	**: :**
883	**98**	**255**	**00:00:38.733**	**41FB3A**	**40T1PR**		**1 PCT Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**4,646,536:12:0**
884	**98**	**255**	**00:00:48.733**	**41FB3B**	**40T1PR**		**2 PCT Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**4,646,536:27:0**
885	**98**	**255**	**00:00:58.733**	**41FB3C**	**40T2R**		**1 PCT Heater 2 OFF**	**4O0**	**4**	**0**	**4,646,536:42:0**
886	**98**	**255**	**00:01:08.733**	**41FB3D**	**40T2R**		**2 PCT Heater 2 OFF**	**4O0**	**4**	**0**	**4,646,536:57:0**
887	98	255	04:15:12.066	488EW6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,646,787:81:0
888	98	255	04:49:20.066	488EW6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,646,821:59:0
889	98	255	05:59:10.733	488EW6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,646,890:66:0
890	98	255	06:04:30.733	176FB6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	4O0	4	0	4,646,896:00:0
891	98	255	06:07:39.400	444FB443A4A	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	4O0	4	0	4,646,899:10:0
892	98	255	06:11:39.400	444FB443A4B	**7MODE**	**SPNL**	AACS ALL-SPIN LOW	4O0	4	0	4,646,903:06:0
893	98	255	06:20:39.400	444FB443A4C	**7CLK**	**17.45,0.0**	Check S/P Position	4O0	4	0	4,646,911:88:0
894	**98**	**255**	**06:23:38.733**	**125FB4A**	**37IST**	**1,0,0,OFF,0,0,0**	**Chopper ON, Sync, 63Hz (Ref)**	**460**	**4**	**0**	**4,646,914:84:0**
895	98	255	06:23:38.733	125FB	NIMSINIT	GS	##### GROUP START INIT	460	4	0	4,646,914:84:0
896	**98**	**255**	**06:24:39.400**	**125FB4B**	**37IST**	**1,2,0,OFF,0,1,1**	**Chopper ON, Sync, Chopper (Ref)Gain State**	**4R0**	**4**	**0**	**4,646,915:84:0**
897	**98**	**255**	**06:25:40.066**	**125FB4C**	**37MB**	**1B,1B,0,0,0,0**	**Selects mirror (spatial) edit table**	**4R0**	**4**	**0**	**4,646,916:84:0**
898	98	255	06:25:40.066	125FB11A	NIMSINIT	GE	##### GROUP END INIT	4R0	4	0	4,646,916:84:0
899	98	255	06:26:00.066	488EW6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4R0	4	0	4,646,917:23:0
900	**98**	**255**	**06:28:42.066**	**127FB4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**4R3**	**4**	**0**	**4,646,919:84:0**
901	98	255	06:28:42.066	127FB	NIMSTAB	GS	%%%%% GROUP START TAB	4R3	4	0	4,646,919:84:0
902	**98**	**255**	**06:28:42.733**	**127FB4B**	**37ETB**	**0A,CA,19,FF,C0,1**	**Loads wavelength edit table**	**4R3**	**4**	**0**	**4,646,919:85:0**
903	98	255	06:28:50.733	127FB11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	4,646,920:06:0
904	**98**	**255**	**06:29:06.733**	**432FB6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**	**NIMS R/T SELECT**	**4R3**	**4**	**0**	**4,646,920:30:0**
905	**98**	**255**	**06:31:06.733**	**432FC6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**4R3**	**4**	**0**	**4,646,922:28:0**
906	98	255	06:31:48.733	192FC4A	**7CONE**	**17.0,54.88**	Check S/P Position	4R3	4	0	4,646,923:00:0
907	98	255	06:31:49.400	192FC4B	**7CLK**	**17.0,244.07**	Check S/P Position	4R3	4	0	4,646,923:01:0
908	**98**	**255**	**06:35:10.733**	**432FD6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**	**NIMS R/T SELECT**	**4R3**	**4**	**0**	**4,646,926:30:0**
909	**98**	**255**	**06:45:16.066**	**432FE6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**4R3**	**4**	**0**	**4,646,936:28:0**
910	**98**	**255**	**06:45:53.400**	**127FE4A**	**37IOP**	**0,0**	**Safe, Grating Start Position =00**	**4R0**	**4**	**0**	**4,646,936:84:0**
911	98	255	06:45:53.400	127FE	NIMSTAB	GS	%%%%% GROUP START TAB	4R0	4	0	4,646,936:84:0
912	**98**	**255**	**06:45:54.066**	**127FE4B**	**37ETB**	**04,C4,02,00,00**	**Loads wavelength edit table**	**4R0**	**4**	**0**	**4,646,936:85:0**
913	98	255	06:46:02.066	127FE11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R0	4	0	4,646,937:06:0
914	98	255	06:46:02.066	20FE4A	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	4R0	4	0	4,646,937:06:0
915	**98**	**255**	**06:47:54.733**	**125FE4A**	**37IST**	**1,0,0,OFF,0,0,0**	**Chopper ON, Sync, 63Hz (Ref)**	**460**	**4**	**0**	**4,646,938:84:0**
916	98	255	06:47:54.733	125FE	NIMSINIT	GS	##### GROUP START INIT	460	4	0	4,646,938:84:0
917	**98**	**255**	**06:48:55.400**	**125FE4B**	**37IST**	**1,1,0,OFF,0,0,0**	**Chopper OFF, N/A, 63Hz (Ref)**	**4O0**	**4**	**0**	**4,646,939:84:0**
918	**98**	**255**	**06:49:56.066**	**125FE4C**	**37MB**	**0,0,0,0,0,0**	**Selects mirror (spatial) edit table**	**4O0**	**4**	**0**	**4,646,940:84:0**
919	98	255	06:49:56.066	125FE11A	NIMSINIT	GE	##### GROUP END INIT	4O0	4	0	4,646,940:84:0
920	98	255	06:51:08.066	444FF443A4A	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	4O0	4	0	4,646,942:10:0
921	98	255	06:55:08.066	444FF443A4B	**7MODE**	**CRU**	AACS CRUISE MODE	4O0	4	0	4,646,946:06:0
922	98	255	07:05:14.733	41FG99A	**POWER**	**PWR MODE change**	Change to Maneuver/Playback Mode	4O0	4	0	4,646,956:06:0
923	**98**	**255**	**07:07:08.733**	**41FG3G**	**40T1P**		**1 PCT Heater 1 ON (primary relay)**	**4O0**	**4**	**0**	**4,646,957:86:0**
924	**98**	**255**	**07:07:18.733**	**41FG3H**	**40T1P**		**2 PCT Heater 1 ON (primary relay)**	**4O0**	**4**	**0**	**4,646,958:10:0**
925	**98**	**255**	**07:07:28.733**	**41FG3I**	**40T2**		**1 PCT Heater 2 ON**	**4O0**	**4**	**0**	**4,646,958:25:0**
926	**98**	**255**	**07:07:38.733**	**41FG3J**	**40T2**		**2 PCT Heater 2 ON**	**4O0**	**4**	**0**	**4,646,958:40:0**
927	98	255	07:09:21.400	20FH4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	4O0	4	0	4,646,960:12:0
928	98	255	07:10:11.400	20FH4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,646,960:87:0
929	98	255	07:11:14.733	176FH6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	4,646,962:00:0
930	**98**	**255**	**07:50:44.733**	**16NNPCTRLT01-**		**-----STOP-------**		**4O0**	**4**	**0**	**: :**
931	98	255	08:22:29.400	488EW6E	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,647,032:42:0
932	98	255	08:29:20.066	488EX6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,647,039:21:0
933	98	255	09:29:10.733	488EX6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,647,098:38:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
934	98	255	09:50:08.066	488EX6C	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,647,119:13:0	
935	98	255	09:54:09.400	488EX6D	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,647,123:11:0	
936	98	255	17:50:08.066	488EY6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,647,593:79:0	
937	98	255	19:00:32.066	488EY6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,647,663:45:0	
938	98	255	19:06:54.066	488EY6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,647,669:72:0	
939	98	255	19:09:04.066	488EY6D	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,647,671:85:0	
940	98	255	19:19:44.066	488EY6E	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,647,682:44:0	
941	98	256	08:29:21.333	488EZ6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,648,463:39:0	
942	98	256	09:33:04.000	488EZ6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,648,526:40:0	
943	98	256	13:43:22.666	176RH6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	4O0	4	0	4,648,774:00:0	
944	98	256	17:50:08.000	488FA6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,649,018:04:0	
945	98	256	18:54:08.000	488FA6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,649,081:31:0	
946	98	256	19:00:32.000	488FA6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,649,087:61:0	
947	98	256	19:01:18.666	488FA6D	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,649,088:40:0	
948	98	256	19:21:52.000	488FA6E	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,649,108:70:0	
949	98	257	08:24:21.933	488FB6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,649,882:61:0	
950	98	257	09:22:23.933	488FB6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,649,940:06:0	
951	98	257	17:45:51.933	488FC6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,650,438:00:0	
952	**98**	**257**	**17:58:59.266**	**432RA6B**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**4O0**	**4**	**0**	**4,650,450:89:0**	
953	98	257	17:58:59.933	432RA431A6A	6RCDSL	DDSDSL,PLSDSL,EP	Record Deselect (DDS o	4O0	4	0	4,650,450:90:0	
954	98	257	17:59:00.600	432RA6C	6RTSL1		R/T Select of DDS and	4O0	4	0	4,650,451:00:0	
955	**98**	**257**	**17:59:00.600**	**432RA6D**	**6RTSL2**	**NIMNCG,AACSEL,RT**	**AACS SELECT**	**4O0**	**4**	**0**	**4,650,451:00:0**	
956	98	257	18:49:51.933	488FC6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,650,501:27:0	
957	98	257	19:06:55.933	488FC6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,650,518:16:0	
958	98	257	20:02:43.266	488FC6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,650,573:32:0	
959	98	257	20:23:43.933	488FC6E	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,650,594:12:0	
960	98	257	20:29:53.266	488FD6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,650,600:20:0	
961	98	257	20:34:43.266	176RI6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	4,650,605:00:0	
962	98	258	02:05:03.933	488FD6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,650,931:65:0	
963	98	258	02:32:47.933	488FE6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,650,959:13:0	
964	98	258	03:24:06.600	488FE6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,651,009:81:0	
965	98	258	03:50:55.933	488FE6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,651,036:38:0	
966	98	258	04:47:11.933	488FE6D	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,651,092:06:0	
967	98	258	07:07:40.600	176SX6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	4O0	4	0	4,651,231:00:0	
968	98	258	07:11:59.933	20US4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,651,235:25:0	
969	98	258	07:12:59.933	20US4D	**7MODE**	**SPNL**	AACS ALL-SPIN LOW	4O0	4	0	4,651,236:24:0	
970	98	258	07:14:59.933	20US4E	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	4O0	4	0	4,651,238:22:0	
971	98	258	07:20:29.933	20US4G	7VENT	0.611,1.333,8	ALERT -- Thruster fire	4O0	4	0	4,651,243:62:0	
972	98	258	07:20:30.600	20US4H	7VENT	0.611,10.989,8	ALERT -- Thruster fire	4O0	4	0	4,651,243:63:0	
973	98	258	07:20:50.600	20US4I	7VENT	0.611,1.333,6	ALERT -- Thruster fire	4O0	4	0	4,651,244:02:0	
974	98	258	07:20:51.266	20US4J	7VENT	0.611,10.989,6	ALERT -- Thruster fire	4O0	4	0	4,651,244:03:0	
975	98	258	07:21:11.266	20US4K	7VENT	0.611,1.333,4	ALERT -- Thruster fire	4O0	4	0	4,651,244:33:0	
976	98	258	07:21:11.933	20US4L	7VENT	0.611,0.666,5	ALERT -- Thruster fire	4O0	4	0	4,651,244:34:0	
977	98	258	07:21:21.933	20US4M	7VENT	0.611,1.333,4	ALERT -- Thruster fire	4O0	4	0	4,651,244:49:0	
978	98	258	07:21:22.600	20US4N	7VENT	0.611,0.666,5	ALERT -- Thruster fire	4O0	4	0	4,651,244:50:0	
979	98	258	07:21:32.600	20US4O	7VENT	1.211,1.333,10	ALERT -- Thruster fire	4O0	4	0	4,651,244:65:0	
980	98	258	07:21:33.266	20US4P	7VENT	1.211,0.666,12	ALERT -- Thruster fire	4O0	4	0	4,651,244:66:0	
981	98	258	07:23:19.933	20US4S	7VENT	0.611,1.333,7	ALERT -- Thruster fire	4O0	4	0	4,651,246:44:0	
982	98	258	07:23:20.600	20US4T	7VENT	0.611,10.989,7	ALERT -- Thruster fire	4O0	4	0	4,651,246:45:0	
983	98	258	07:23:40.600	20US4U	7VENT	0.611,1.333,1	ALERT -- Thruster fire	4O0	4	0	4,651,246:75:0	
984	98	258	07:23:41.266	20US4V	7VENT	0.611,10.989,1	ALERT -- Thruster fire	4O0	4	0	4,651,246:76:0	
985	98	258	07:24:01.266	20US4AC	7VENT	0.611,1.333,2	ALERT -- Thruster fire	4O0	4	0	4,651,247:15:0	
986	98	258	07:24:01.933	20US4AD	7VENT	0.611,0.666,3	ALERT -- Thruster fire	4O0	4	0	4,651,247:16:0	
987	98	258	07:24:11.933	20US4AE	7VENT	0.611,1.333,2	ALERT -- Thruster fire	4O0	4	0	4,651,247:31:0	
988	98	258	07:24:12.600	20US4AF	7VENT	0.611,0.666,3	ALERT -- Thruster fire	4O0	4	0	4,651,247:32:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
989	98	258	07:24:22.600	20US4W	7VENT	1.211,1.333,9	ALERT -- Thruster fire	4O0	4	0	4,651,247:47:0	
990	98	258	07:24:23.266	20US4X	7VENT	1.211,0.666,11	ALERT -- Thruster fire	4O0	4	0	4,651,247:48:0	
991	98	258	07:25:19.933	20US4Z	**7MODE**	**CRU**	AACS CRUISE MODE	4O0	4	0	4,651,248:42:0	
992	98	258	07:50:03.933	20UL4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	4O0	4	0	4,651,272:84:0	
993	98	258	07:50:53.933	20UL4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,651,273:68:0	
994	98	258	07:52:09.933	176SY6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	4,651,275:00:0	
995	98	258	07:54:10.600	432RD431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	4O0	4	0	4,651,276:90:0	
996	98	258	07:54:11.266	432RD6A	6RTSL1		R/T Select of DDS and	4O0	4	0	4,651,277:00:0	
997	98	258	08:13:11.933	488FE6E	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,651,295:73:0	
998	98	258	08:14:07.933	488FF6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,651,296:66:0	
999	98	258	08:19:23.933	488FF6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,651,301:85:0	
1000	98	258	09:18:07.933	488FF6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,651,360:02:0	
1001	98	258	13:38:23.266	488FF6D	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,651,617:38:0	
1002	98	258	13:40:31.933	488FF6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,651,619:49:0	
1003	98	258	18:52:04.533	488FG6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,651,927:60:0	
1004	98	258	19:02:39.866	488FG6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,651,938:12:0	
1005	98	258	19:43:11.866	488FG6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,651,978:20:0	
1006	98	258	20:52:59.866	488FG6D	6TMSED	NORM,AH6	Sci, Eng, and D/L Chan	4O0	4	0	4,652,047:23:0	
1007	98	258	20:57:47.866	176TH6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	4O0	4	0	4,652,052:00:0	
1008	98	258	21:05:59.866	20WD4C	7STAT	17.45,170.31,5.8	Stator inertial point	4O0	4	0	4,652,060:10:0	
1009	98	258	21:25:01.866	490UB412A4B	**7MODE**	**INT**	AACS INERTIAL MODE	4O0	4	0	4,652,078:85:0	
1010	98	258	21:29:59.866	490UB412A4D	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	4O0	4	0	4,652,083:77:0	
1011	98	258	21:30:19.866	20WD4D	7STAT	17.45,170.31,5.8	Stator inertial point	4O0	4	0	4,652,084:16:0	
1012	98	258	21:34:09.866	490UB412A4E	7VECT		Inert vect update UTC	4O0	4	0	4,652,087:88:0	
1013	98	258	21:34:13.866	490UB412A4F	7TURN	2,RTH	ALERT Thruster	4O0	4	0	4,652,088:03:0	
1014	98	258	21:38:01.866	490UB412A406A4A	7STAR	11,338,218.95	Star catalog update	4O0	4	0	4,652,091:72:0	
1015	98	258	21:38:03.866	490UB412A406A4B	7STAR	2,111,99.056999,	Star catalog update	4O0	4	0	4,652,091:75:0	
1016	98	258	21:38:05.866	490UB412A406A4C	7STAR	3,295,88.964,44.	Star catalog update	4O0	4	0	4,652,091:78:0	
1017	98	258	21:38:07.866	490UB412A406A4D	7STAR	4,191,248.601,-1	Star catalog update	4O0	4	0	4,652,091:81:0	
1018	98	258	21:38:09.866	490UB412A406A4E	7STAR	5,0,0.0,0.0	Star catalog update	4O0	4	0	4,652,091:84:0	
1019	98	258	21:38:11.866	490UB412A406A4F	7STAR	6,0,0.0,0.0	Star catalog update	4O0	4	0	4,652,091:87:0	
1020	98	258	21:48:05.866	20WD4F	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,652,101:68:0	
1021	98	258	21:56:09.866	490UB412A4G	**7MODE**	**CRU**	AACS CRUISE MODE	4O0	4	0	4,652,109:66:0	
1022	98	258	23:24:59.866	488FG6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,652,197:53:0	
1023	98	258	23:30:03.866	20TB4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	4O0	4	0	4,652,202:54:0	
1024	98	258	23:30:53.866	20TB4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,652,203:38:0	
1025	98	258	23:32:29.866	176TI6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	4,652,205:00:0	
1026	98	258	23:34:30.533	432RF431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	4O0	4	0	4,652,206:90:0	
1027	98	258	23:34:31.200	432RF6A	6RTSL1		R/T Select of DDS and	4O0	4	0	4,652,207:00:0	
1028	98	259	01:54:23.866	488FH6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,652,345:31:0	
1029	98	259	02:22:07.866	488FH6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,652,372:70:0	
1030	98	259	03:17:42.533	488FH6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,652,427:67:0	
1031	98	259	03:38:55.866	488FH6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,652,448:66:0	
1032	98	259	03:44:55.200	488FH6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,652,454:59:0	
1033	98	259	08:06:48.533	488FI6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,652,713:60:0	
1034	98	259	08:09:51.866	488FI6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,652,716:62:0	
1035	98	259	08:17:05.200	488FI6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,652,723:75:0	
1036	98	259	08:26:55.866	488FI6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,652,733:51:0	
1037	98	259	09:07:42.533	488FI6E	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,652,773:81:0	
1038	98	259	09:28:47.866	488FJ6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,652,794:68:0	
1039	98	259	09:38:38.533	488FJ6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,652,804:44:0	
1040	98	259	15:04:59.866	488FJ6C	6TMSED	NORM,AH6	Sci, Eng, and D/L Chan	4O0	4	0	4,653,127:23:0	
1041	98	259	15:08:47.200	176NV6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	4O0	4	0	4,653,131:00:0	
1042	98	259	15:38:59.866	20NV4I	**7MODE**	**INT**	AACS INERTIAL MODE	4O0	4	0	4,653,160:80:0	
1043	98	259	15:53:59.866	20NV4K	7SLEW	INIT,POS,17.45	Stator movement	4O0	4	0	4,653,175:65:0	

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Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1044	98	259	16:05:59.866	20NV4L	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,653,187:53:0	
1045	98	259	16:12:59.866	20NV4M	7SLEW	INIT,NEG,17.45	Stator movement	4O0	4	0	4,653,194:46:0	
1046	98	259	16:24:59.866	20NV4N	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,653,206:34:0	
1047	98	259	16:36:59.866	20NV4AH	**7MODE**	**CRU**	AACS CRUISE MODE	4O0	4	0	4,653,218:22:0	
1048	98	259	16:53:03.866	20SU4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	4O0	4	0	4,653,234:12:0	
1049	98	259	16:53:53.866	20SU4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,653,234:87:0	
1050	98	259	16:54:57.200	176GF6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	4,653,236:00:0	
1051	98	259	17:12:59.866	488FK6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,653,253:77:0	
1052	98	259	17:24:31.866	488FK6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,653,265:23:0	
1053	98	259	18:01:12.533	488FK6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,653,301:48:0	
1054	98	259	18:07:11.866	488FK6D	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,653,307:41:0	
1055	98	260	16:28:33.133	488FL6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,654,634:06:0	
1056	98	260	16:28:35.133	20RB6A	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,654,634:09:0	
1057	98	260	17:20:15.800	488FL6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,654,685:19:0	
1058	98	260	17:20:17.800	20RB6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,654,685:22:0	
1059	98	260	18:34:55.800	488FL6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,654,759:05:0	
1060	98	260	18:34:57.800	20RB6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,654,759:08:0	
1061	98	260	18:58:23.800	488FL6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,654,782:24:0	
1062	98	260	19:47:40.466	488FL6E	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,654,831:00:0	
1063	98	260	20:16:46.466	488FM6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,654,859:71:0	
1064	98	260	20:38:39.800	488FM6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,654,881:39:0	
1065	98	261	01:54:23.800	488FM6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,655,193:63:0	
1066	98	261	02:28:31.800	488FN6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,655,227:41:0	
1067	98	261	03:09:03.800	488FN6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,655,267:49:0	
1068	98	261	03:35:53.133	488FN6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,655,294:06:0	
1069	98	261	05:27:43.800	488FN6D	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,655,404:62:0	
1070	98	261	07:57:52.400	488FN6E	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,655,553:16:0	
1071	98	261	07:59:11.733	488FO6A	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,655,554:44:0	
1072	98	261	08:05:20.400	488FO6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,655,560:51:0	
1073	98	261	08:18:23.733	488FO6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,655,573:43:0	
1074	98	261	09:18:07.733	488FO6D	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,655,632:50:0	
1075	98	261	17:20:15.733	488FP6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,656,109:35:0	
1076	98	261	18:30:39.733	488FP6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,656,179:01:0	
1077	98	261	19:17:35.733	488FP6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,656,225:39:0	
1078	98	262	01:44:25.066	176RJ6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	4O0	4	0	4,656,608:00:0	
1079	**98**	**262**	**02:59:13.066**	**432RB6B**	**6RTDS2**	**NIMDSL,AACDSL,RT**	**NIMS R/T DESELECTAACS DESELECT**	**4O0**	**4**	**0**	**4,656,681:89:0**	
1080	98	262	03:01:15.733	431RA6A	6RCSEL	DDSSEL,PLSNCG,EP	Record Select (DDS onl	4O0	4	0	4,656,684:00:0	
1081	98	262	03:41:03.733	488FQ6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,656,723:33:0	
1082	98	262	04:18:55.066	488FQ6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,656,760:73:0	
1083	98	262	04:19:27.733	488FQ6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,656,761:31:0	
1084	98	262	04:27:59.733	488FQ6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,656,769:71:0	
1085	98	262	07:59:28.400	488FQ6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,656,978:85:0	
1086	98	262	09:07:27.733	488FR6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,657,046:16:0	
1087	98	262	17:20:15.666	488FS6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,657,533:51:0	
1088	98	262	18:24:15.666	488FS6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,657,596:78:0	
1089	98	262	18:34:55.666	488FS6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,657,607:37:0	
1090	98	262	18:35:45.000	488FS6D	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,657,608:20:0	
1091	98	262	18:45:35.666	488FS6E	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	4,657,617:87:0	
1092	98	262	19:21:51.666	488FT6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,657,653:75:0	
1093	98	262	23:59:04.333	432MC431A6A	6RCDSL	DDSDSL,PLSNCG,EP	Record Deselect (DDS o	4O0	4	0	4,657,927:90:0	
1094	98	262	23:59:05.000	432MC6A	6RTSL1		R/T Select of DDS and	4O0	4	0	4,657,928:00:0	
1095	98	263	07:54:29.000	488FU6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,658,398:16:0	
1096	98	263	07:54:31.000	20RC6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,658,398:19:0	
1097	98	263	09:03:11.666	488FU6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,658,466:12:0	
1098	98	263	09:03:13.666	20RC6B	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,658,466:15:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1099	98	263	17:15:59.666	488FV6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,658,953:47:0	
1100	98	263	17:16:01.666	20RC6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,658,953:50:0	
1101	98	263	18:24:15.666	488FV6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,659,021:03:0	
1102	98	263	18:24:17.666	20RC6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,659,021:06:0	
1103	98	263	18:43:27.666	488FV6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,659,040:02:0	
1104	98	263	18:43:29.666	20RC6E	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,659,040:05:0	
1105	98	263	19:37:37.666	488FV6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,659,093:54:0	
1106	98	263	20:06:43.666	488FV6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,659,122:34:0	
1107	98	263	20:08:47.666	488FW6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,659,124:38:0	
1108	98	263	20:09:23.000	176RK6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	4,659,125:00:0	
1109	98	264	02:30:39.600	488FX6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,659,502:08:0	
1110	98	264	04:00:15.600	488FX6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,659,590:64:0	
1111	98	264	04:13:30.933	488FX6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,659,603:74:0	
1112	98	264	04:23:43.600	488FX6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,659,613:83:0	
1113	98	264	07:49:30.266	488FX6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,659,817:39:0	
1114	98	264	08:58:55.600	488FY6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,659,886:08:0	
1115	98	264	17:15:59.600	488FZ6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,660,377:63:0	
1116	98	264	18:19:59.600	488FZ6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,660,440:90:0	
1117	98	264	18:37:03.600	488FZ6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,660,457:79:0	
1118	98	264	19:32:36.266	488FZ6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,660,512:73:0	
1119	98	264	20:01:42.933	488FZ6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,660,541:54:0	
1120	98	264	20:02:23.600	488GA6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,660,542:24:0	
1121	98	265	01:45:51.600	488GA6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,660,881:87:0	
1122	98	265	02:43:27.600	488GB6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,660,938:84:0	
1123	98	265	02:48:59.600	488GB6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,660,944:36:0	
1124	98	265	03:20:48.933	488GB6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,660,975:79:0	
1125	98	265	07:44:42.200	488GB6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,661,236:78:0	
1126	98	265	07:48:31.533	488GB6E	6TMSED	FILL,AL8	Sci, Eng, and D/L Chan	4O0	4	0	4,661,240:58:0	
1127	98	265	07:50:11.533	488GC6A	6TMSED	NORM,AL8	Sci, Eng, and D/L Chan	4O0	4	0	4,661,242:26:0	
1128	98	265	11:49:35.533	488GC6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,661,479:05:0	
1129	98	265	12:35:21.533	488GC6C	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,661,524:29:0	
1130	98	265	12:59:54.866	488GC6D	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,661,548:55:0	
1131	98	265	13:23:00.200	488GC6E	6TMSED	NORM,AH7	Sci, Eng, and D/L Chan	4O0	4	0	4,661,571:40:0	
1132	98	265	13:27:36.866	176SF6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	4O0	4	0	4,661,576:00:0	
1133	98	265	13:39:00.200	20CA4C	7STAT	17.45,261.6943,1	Stator inertial point	4O0	4	0	4,661,587:24:0	
1134	98	265	14:00:00.200	474CA416A4B	**7MODE**	**INT**	AACS INERTIAL MODE	4O0	4	0	4,661,608:03:0	
1135	98	265	14:02:00.200	474CA416A4D	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	4O0	4	0	4,661,610:01:0	
1136	98	265	14:02:20.200	20CA4D	7STAT	17.45,261.6943,1	Stator inertial point	4O0	4	0	4,661,610:31:0	
1137	98	265	14:06:14.200	474CA416A4E	7BURN	,261.694298,13.3	ALERT -- Thruster fire	4O0	4	0	4,661,614:18:0	
1138	98	265	14:14:00.200	20CA4F	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,661,621:80:0	
1139	98	265	14:19:52.200	20CA4G	**7MODE**	**CRU**	AACS CRUISE MODE	4O0	4	0	4,661,627:62:0	
1140	98	265	14:44:08.200	20CA4J	7STAT	17.45,261.6943,1	Stator inertial point	4O0	4	0	4,661,651:62:0	
1141	98	265	14:47:08.200	20CA4K	**7MODE**	**INT**	AACS INERTIAL MODE	4O0	4	0	4,661,654:59:0	
1142	98	265	14:49:08.200	474CA416A4G	7BURN	,261.694298,13.3	ALERT -- Thruster fire	4O0	4	0	4,661,656:57:0	
1143	98	265	14:56:02.866	20CA4M	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,661,663:42:0	
1144	98	265	15:00:54.866	20CA4N	**7MODE**	**CRU**	AACS CRUISE MODE	4O0	4	0	4,661,668:25:0	
1145	98	265	16:08:26.866	20CB4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	4O0	4	0	4,661,735:06:0	
1146	98	265	16:09:16.866	20CB4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,661,735:81:0	
1147	98	265	16:10:24.200	176CA6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	4,661,737:00:0	
1148	98	265	17:09:35.533	488GD6A	6TMSED	NORM,AH6	Sci, Eng, and D/L Chan	4O0	4	0	4,661,795:49:0	
1149	98	265	18:15:43.533	488GD6B	6TMSED	NORM,AH4	Sci, Eng, and D/L Chan	4O0	4	0	4,661,860:86:0	
1150	98	265	18:32:47.533	488GD6C	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	4O0	4	0	4,661,877:75:0	
1151	98	265	19:01:00.200	488GD6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,661,905:66:0	
1152	98	265	19:01:16.866	176SG6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	4,661,906:00:0	
1153	98	265	19:27:35.533	488GD6E	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,661,932:02:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1154	98	265	19:53:51.533	488GE6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,661,958:00:0	
1155	98	265	19:56:04.200	488GE6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,661,960:17:0	
1156	98	266	00:00:00.200	481UD4A	7VECT		Inert vect update UTC	4O0	4	0	4,662,201:40:0	
1157	98	266	01:39:27.533	488GE6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,662,299:73:0	
1158	98	266	02:37:03.533	488GF6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,662,356:70:0	
1159	98	266	02:43:57.533	488GF6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,662,363:54:0	
1160	98	266	03:15:47.533	488GF6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,662,395:07:0	
1161	98	266	07:37:41.533	488GF6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,662,654:09:0	
1162	98	266	07:44:32.200	488GF6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,662,660:79:0	
1163	98	266	08:43:57.533	488GG6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,662,719:58:0	
1164	98	266	09:03:11.533	488GG6B	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,662,738:60:0	
1165	98	266	09:08:22.200	488GG6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,662,743:71:0	
1166	98	266	13:13:01.533	488GG6D	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,662,985:68:0	
1167	98	266	13:14:55.533	488GG6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,662,987:57:0	
1168	98	266	18:17:13.466	488GH6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,663,286:55:0	
1169	98	266	18:28:31.466	488GH6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,663,297:71:0	
1170	98	266	19:22:34.800	488GH6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,663,351:22:0	
1171	98	266	19:51:40.800	488GH6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,663,380:02:0	
1172	98	266	19:53:51.466	488GH6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,663,382:16:0	
1173	98	267	00:00:00.133	481UA4A	7VECT	BB1	Inert vect update UTC	4O0	4	0	4,663,625:56:0	
1174	98	267	02:19:59.466	488GI6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,663,764:06:0	
1175	98	267	03:01:20.800	488GI6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,663,804:88:0	
1176	98	267	03:06:55.466	488GI6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,663,810:44:0	
1177	98	267	07:39:34.133	488GI6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,664,080:12:0	
1178	98	267	08:26:57.466	176SP6A	6TMREC	**TPB**	TERMINATE PLAYBACK (PB CONTROL) Record Mo	4O0	4	0	4,664,127:00:0	
1179	98	267	08:33:01.466		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 202.12 +/-	4O0	4	0	4,664,133:00:0	
1180	98	267	08:33:01.466		DMS:	: *SLEW-TIC	P7, TRACK 1, FWD, TIC 202.12 +/-	4O0	4	0	4,664,133:00:0	
1181	98	267	08:33:01.466		DMS:	: *TURNARND	P7, TRACK 1, FWD, TIC 202.12 +/-	4O0	4	0	4,664,133:00:0	
1182	98	267	08:33:01.466	465TA6A	6DMST	5000	DMS Slew to TIC	4O0	4	0	4,664,133:00:0	
1183	98	267	08:33:08.133		DMS:	: *RUNUP	P7, TRACK 1, FWD, TIC 202.12 +/-	4O0	4	0	4,664,133:10:0	
1184	98	267	08:33:09.533		DMS:	: *AT_SPD	P7, TRACK 1, FWD, TIC * 202.24 +/-	4O0	4	0	4,664,133:12:1	
1185	98	267	08:48:15.466	488GJ6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,664,148:06:0	
1186	98	267	14:14:10.266		DMS:	**: *RUNDOWN**	P7, TRACK 1, FWD, TIC *4997.94 +/-	4O0	4	0	4,664,470:36:2	
1187	98	267	14:14:11.466		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *4998.00 +/-	4O0	4	0	4,664,470:38:0	
1188	98	267	14:26:42.800		DMS:	: *US-RUNUP	P7, TRACK 1, FWD, TIC 4998.00 +/-	4O0	4	0	4,664,482:73:0	
1189	98	267	14:26:42.800	465TB6A	6DMSC	P100,4	DMS Control Tape P/B 100.8kbps	4O0	4	0	4,664,482:73:0	
1190	98	267	14:26:44.200		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *4998.12 +/-	4O0	4	0	4,664,482:75:1	
1191	98	267	14:26:49.466		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *4999.35 +/-	4O0	4	0	4,664,482:83:0	
1192	98	267	14:26:50.666		DMS:	: *RUNUP	P100, TRACK *4, *REV, TIC *4999.41 +/-	4O0	4	0	4,664,482:84:8	
1193	98	267	14:26:54.533		DMS:	: *AT_SPD	P100, TRACK 4, REV, TIC 4993.91 +/-	4O0	4	0	4,664,482:90:6	
1194	98	267	14:26:54.533		DMS:	: *P_SLEW	P100, TRACK 4, REV, TIC *4993.91 +/-	4O0	4	0	4,664,482:90:6	
1195	98	267	14:52:34.800	465TB6B	6DMSC	RDY,4	DMS Control Tape stop	4O0	4	0	4,664,508:35:0	
1196	98	267	14:52:34.800		DMS:	**: *RUNDOWN**	P100, TRACK 4, REV, TIC * 255.79 +/-	4O0	4	0	4,664,508:35:0	
1197	98	267	14:52:36.000		DMS:	: *READY	RDY, TRACK 4, REV, TIC * 254.99 +/-	4O0	4	0	4,664,508:36:8	
1198	98	267	16:46:07.466	488GK6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,664,620:62:0	
1199	98	267	16:50:22.800		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 254.99 +/-	4O0	4	0	4,664,624:81:0	
1200	98	267	16:50:22.800		DMS:	: *DMS-TURN	P7, TRACK 4, REV, TIC 254.99 +/-	4O0	4	0	4,664,624:81:0	
1201	98	267	16:50:22.800	465TC6A	6DTRN	CMD,6DTRN,465TC6	DMS TRACK TURNAROUND	4O0	4	0	4,664,624:81:0	
1202	98	267	16:50:24.200		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 255.11 +/-	4O0	4	0	4,664,624:83:1	
1203	98	267	16:50:29.466		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 256.34 +/-	4O0	4	0	4,664,625:00:0	
1204	98	267	16:50:30.666		DMS:	: *RUNUP	P7, TRACK *4, *REV, TIC * 256.40 +/-	4O0	4	0	4,664,625:01:8	
1205	98	267	16:50:32.066		DMS:	: *AT_SPD	P7, TRACK 4, REV, TIC * 256.28 +/-	4O0	4	0	4,664,625:03:9	
1206	98	267	16:54:32.733		DMS:	: *REVERSE	P7, TRACK 4, REV, TIC * 199.87 +/-	4O0	4	0	4,664,629:00:9	
1207	98	267	16:54:33.933		DMS:	: *RUNUP	P7, TRACK 1, FWD, TIC 199.81 +/-	4O0	4	0	4,664,629:02:7	
1208	98	267	16:54:33.933		DMS:	: *TURNARND	P7, TRACK *1, *FWD, TIC * 199.81 +/-	4O0	4	0	4,664,629:02:7	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1209	98	267	16:54:35.333		DMS:	: *AT_SPD	P7, TRACK 1, FWD, TIC * 199.93 +/-	4O0	4	0	4,664,629:04:8	
1210	98	267	16:54:47.333		DMS:	: *AUTOSTOP	P7, TRACK 1, FWD, TIC * 202.06 +/-	4O0	4	0	4,664,629:22:8	
1211	98	267	16:54:48.533		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 202.12 +/-	4O0	4	0	4,664,629:24:6	
1212	98	267	17:00:25.466		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 202.12 +/-	4O0	4	0	4,664,634:75:0	
1213	98	267	17:00:25.466	465TD6A	6DMSC	P100,1	DMS Control Tape P/B 100.8kbps	4O0	4	0	4,664,634:75:0	
1214	98	267	17:00:32.133		DMS:	: *RUNUP	P100, TRACK 1, FWD, TIC 202.12 +/-	4O0	4	0	4,664,634:85:0	
1215	98	267	17:00:36.000		DMS:	: *AT_SPD	P100, TRACK 1, FWD, TIC 207.62 +/-	4O0	4	0	4,664,634:90:8	
1216	98	267	17:00:36.000		DMS:	: *P_SLEW	P100, TRACK 1, FWD, TIC * 207.62 +/-	4O0	4	0	4,664,634:90:8	
1217	98	267	17:32:19.466	465TD6B	6DMSC	RDY,1	DMS Control Tape stop	4O0	4	0	4,664,666:34:0	
1218	98	267	17:32:19.466		DMS:	**: *RUNDOWN**	P100, TRACK 1, FWD, TIC *6063.01 +/-	4O0	4	0	4,664,666:34:0	
1219	98	267	17:32:20.666		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *6063.81 +/-	4O0	4	0	4,664,666:35:8	
1220	98	267	17:47:55.466		DMS:	: *US-RUNUP	P7, TRACK 1, FWD, TIC 6063.81 +/-	4O0	4	0	4,664,681:73:0	
1221	98	267	17:47:55.466	465TE6A	6DMSC	P100,2	DMS Control Tape P/B 100.8kbps	4O0	4	0	4,664,681:73:0	
1222	98	267	17:47:56.866		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *6063.93 +/-	4O0	4	0	4,664,681:75:1	
1223	98	267	17:48:02.133		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *6065.17 +/-	4O0	4	0	4,664,681:83:0	
1224	98	267	17:48:03.333		DMS:	: *RUNUP	P100, TRACK *2, *REV, TIC *6065.23 +/-	4O0	4	0	4,664,681:84:8	
1225	98	267	17:48:07.200		DMS:	: *AT_SPD	P100, TRACK 2, REV, TIC 6059.73 +/-	4O0	4	0	4,664,681:90:6	
1226	98	267	17:48:07.200		DMS:	: *P_SLEW	P100, TRACK 2, REV, TIC *6059.73 +/-	4O0	4	0	4,664,681:90:6	
1227	98	267	18:05:03.466	488GK6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,664,698:68:0	
1228	98	267	18:14:24.800	488GK6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,664,708:00:0	
1229	98	267	18:15:43.466	488GK6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,664,709:27:0	
1230	98	267	18:20:03.466	465TF6A	6DMSC	P100,3	DMS Control Tape P/B 100.8kbps	4O0	4	0	4,664,713:53:0	
1231	98	267	18:20:03.466		DMS:	**: *RUNDOWN**	P100, TRACK 2, REV, TIC * 164.96 +/-	4O0	4	0	4,664,713:53:0	
1232	98	267	18:20:04.666		DMS:	: *RUNUP	P100, TRACK *3, *FWD, TIC * 164.16 +/-	4O0	4	0	4,664,713:54:8	
1233	98	267	18:20:08.533		DMS:	: *P_SLEW	P100, TRACK 3, FWD, TIC * 169.66 +/-	4O0	4	0	4,664,713:60:6	
1234	98	267	18:20:08.533		DMS:	: *AT_SPD	P100, TRACK 3, FWD, TIC 169.66 +/-	4O0	4	0	4,664,713:60:6	
1235	98	267	18:24:15.466	488GK6E	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,664,717:67:0	
1236	98	267	18:52:04.133		DMS:	**: *RUNDOWN**	P100, TRACK 3, FWD, TIC *6062.38 +/-	4O0	4	0	4,664,745:22:0	
1237	98	267	18:52:04.133	465TF6B	6DMSC	RDY,3	DMS Control Tape stop	4O0	4	0	4,664,745:22:0	
1238	98	267	18:52:05.333		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *6063.18 +/-	4O0	4	0	4,664,745:23:8	
1239	98	267	19:06:47.466	465TG6A	6DMSC	P100,4	DMS Control Tape P/B 100.8kbps	4O0	4	0	4,664,759:73:0	
1240	98	267	19:06:47.466		DMS:	: *US-RUNUP	P7, TRACK *1, FWD, TIC 6063.18 +/-	4O0	4	0	4,664,759:73:0	
1241	98	267	19:06:48.866		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *6063.30 +/-	4O0	4	0	4,664,759:75:1	
1242	98	267	19:06:54.133		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *6064.53 +/-	4O0	4	0	4,664,759:83:0	
1243	98	267	19:06:55.333		DMS:	: *RUNUP	P100, TRACK *4, *REV, TIC *6064.59 +/-	4O0	4	0	4,664,759:84:8	
1244	98	267	19:06:59.200		DMS:	: *AT_SPD	P100, TRACK 4, REV, TIC 6059.09 +/-	4O0	4	0	4,664,759:90:6	
1245	98	267	19:06:59.200		DMS:	: *P_SLEW	P100, TRACK 4, REV, TIC *6059.09 +/-	4O0	4	0	4,664,759:90:6	
1246	98	267	19:38:54.800	465TH6A	6DMSC	P100,3	DMS Control Tape P/B 100.8kbps	4O0	4	0	4,664,791:52:0	
1247	98	267	19:38:54.800		DMS:	**: *RUNDOWN**	P100, TRACK 4, REV, TIC * 166.38 +/-	4O0	4	0	4,664,791:52:0	
1248	98	267	19:38:56.000		DMS:	: *RUNUP	P100, TRACK *3, *FWD, TIC * 165.58 +/-	4O0	4	0	4,664,791:53:8	
1249	98	267	19:38:59.866		DMS:	: *AT_SPD	P100, TRACK 3, FWD, TIC 171.08 +/-	4O0	4	0	4,664,791:59:6	
1250	98	267	19:38:59.866		DMS:	: *P_SLEW	P100, TRACK 3, FWD, TIC * 171.08 +/-	4O0	4	0	4,664,791:59:6	
1251	98	267	19:40:00.800	465TH6B	6DMSC	RDY,3	DMS Control Tape stop	4O0	4	0	4,664,792:60:0	
1252	98	267	19:40:00.800		DMS:	**: *RUNDOWN**	P100, TRACK 3, FWD, TIC * 358.52 +/-	4O0	4	0	4,664,792:60:0	
1253	98	267	19:40:02.000		DMS:	: *READY	RDY, TRACK 3, FWD, TIC * 359.32 +/-	4O0	4	0	4,664,792:61:8	
1254	98	267	19:54:30.800	465TI6A	6DMSC	RDY,4	DMS Control Tape stop	4O0	4	0	4,664,807:00:0	
1255	98	267	19:54:30.800		DMS:	: READY	RDY, TRACK *4, *REV, TIC 359.32 +/-	4O0	4	0	4,664,807:00:0	
1256	98	267	19:55:24.800		DMS:	: *DMS-TURN	P7, TRACK 4, REV, TIC 359.32 +/-	4O0	4	0	4,664,807:81:0	
1257	98	267	19:55:24.800		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 359.32 +/-	4O0	4	0	4,664,807:81:0	
1258	98	267	19:55:24.800	465TJ6A	6DTRN	CMD,6DTRN,465TJ6	DMS TRACK TURNAROUND	4O0	4	0	4,664,807:81:0	
1259	98	267	19:55:26.200		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 359.44 +/-	4O0	4	0	4,664,807:83:1	
1260	98	267	19:55:31.466		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 360.67 +/-	4O0	4	0	4,664,808:00:0	
1261	98	267	19:55:32.666		DMS:	: *RUNUP	P7, TRACK *4, *REV, TIC * 360.73 +/-	4O0	4	0	4,664,808:01:8	
1262	98	267	19:55:34.066		DMS:	: *AT_SPD	P7, TRACK 4, REV, TIC * 360.61 +/-	4O0	4	0	4,664,808:03:9	
1263	98	267	20:06:59.866		DMS:	: *REVERSE	P7, TRACK 4, REV, TIC * 199.87 +/-	4O0	4	0	4,664,819:31:6	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1264	98	267	20:07:01.066		DMS:	: *TURNARND	P7, TRACK *1, *FWD, TIC * 199.81 +/-	4O0	4	0	4,664,819:33:4	
1265	98	267	20:07:01.066		DMS:	: *RUNUP	P7, TRACK 1, FWD, TIC 199.81 +/-	4O0	4	0	4,664,819:33:4	
1266	98	267	20:07:02.466		DMS:	: *AT_SPD	P7, TRACK 1, FWD, TIC * 199.93 +/-	4O0	4	0	4,664,819:35:5	
1267	98	267	20:07:14.466		DMS:	: *AUTOSTOP	P7, TRACK 1, FWD, TIC * 202.06 +/-	4O0	4	0	4,664,819:53:5	
1268	98	267	20:07:15.666		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 202.12 +/-	4O0	4	0	4,664,819:55:3	
1269	98	268	02:20:28.733	488GL6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,665,188:66:0	
1270	98	268	02:47:43.400	488GL6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,665,215:61:0	
1271	98	268	03:28:55.400	488GL6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,665,256:38:0	
1272	98	268	03:55:45.400	488GL6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,665,282:87:0	
1273	**98**	**268**	**04:00:00.000**	**20A3EW**	**37A**	**Final Condition**	**NIMS Power ON**	**4O0**	**4**	**0**	**4,665,287:13:9**	
1274	**98**	**268**	**04:00:00.000**	**20A3EX**	**37HR**	**Final Condition**	**Replacement Heaters OFF**	**4O0**	**4**	**0**	**4,665,287:13:9**	
1275	**98**	**268**	**04:00:00.000**	**20A3EY**	**37C1PR**	**Final Condition**	**Optics Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**4,665,287:13:9**	
1276	**98**	**268**	**04:00:00.000**	**20A3EZ**	**37C2PR**	**Final Condition**	**Optics Heater 2 OFF (primary relay)**	**4O0**	**4**	**0**	**4,665,287:13:9**	
1277	**98**	**268**	**04:00:00.000**	**20A3FA**	**37F1PR**	**Final Condition**	**Radiator Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**4,665,287:13:9**	
1278	**98**	**268**	**04:00:00.000**	**20A3FB**	**37F2PR**	**Final Condition**	**Shield Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**4,665,287:13:9**	
1279	**98**	**268**	**04:00:00.000**	**20A3FD**	**40HRPR**	**Final Condition**	**RCT Heater OFF (primary relay)**	**4O0**	**4**	**0**	**4,665,287:13:9**	
1280	**98**	**268**	**04:00:00.000**	**20A3FE**	**40T1P**	**Final Condition**	**PCT Heater 1 ON (primary relay)**	**4O0**	**4**	**0**	**4,665,287:13:9**	
1281	**98**	**268**	**04:00:00.000**	**20A3FF**	**40T2**	**Final Condition**	**PCT Heater 2 ON**	**4O0**	**4**	**0**	**4,665,287:13:9**	
1282	98	268	04:00:00.066		DMS:	: READY	RDY, TRACK 1, FWD, TIC 202.12 +/-	4O0	4	0	4,665,287:14:0	

16INHRSPEC01

OAPEL:	16INHRSPEC01	ALIAS:	16INHRSPEC01
EXT:	A	PSID:	DA
SCLK1:	04569992:00:0	SCLK2:	04569994:90:0
SCET1:	98-201/06:06:04.066	SCET2:	98-201/06:09:05.400
TARGET:	IO	PARTITION:	1

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

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

THRESHOLD_SEL: 2
THRESHOLD_VALUES: 030, 030, 030, 000, 030, 029, 028, 028, 029
028, 032, 034, 031, 031, 032, 030, 029

WETGID: 0326228001 03 26 228 001
WTGRP_SIZ: 26

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	02580	0,0010,0101,1000,0000
1	1BDFF	1,1011,1101,1111,1111
2	02580	0,0010,0101,1000,0000
3	1BDFF	1,1011,1101,1111,1111
4	02580	0,0010,0101,1000,0000
5	1BDFF	1,1011,1101,1111,1111
6	02580	0,0010,0101,1000,0000
7	1BDFF	1,1011,1101,1111,1111
8	02580	0,0010,0101,1000,0000
9	1BDFF	1,1011,1101,1111,1111
10	02580	0,0010,0101,1000,0000
11	1BDFF	1,1011,1101,1111,1111
12	02580	0,0010,0101,1000,0000
13	1BDFF	1,1011,1101,1111,1111
14	02580	0,0010,0101,1000,0000
15	1BDFF	1,1011,1101,1111,1111
16	02580	0,0010,0101,1000,0000
17	1BDFF	1,1011,1101,1111,1111
18	02580	0,0010,0101,1000,0000
19	1BDFF	1,1011,1101,1111,1111
20	02580	0,0010,0101,1000,0000
21	1BDFF	1,1011,1101,1111,1111
22	02580	0,0010,0101,1000,0000
23	1BDFF	1,1011,1101,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

16INHRSPEC01

```
OAPEL:  16INHRSPEC01               ALIAS:  16INHRSPEC01
EXT:    B                          PSID:   DA
SCLK1:  04569992:00:0              SCLK2:  04569994:90:0
SCET1:    98-201/06:06:04.066      SCET2:    98-201/06:09:05.400
TARGET: IO                         PARTITION: 1

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

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

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

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

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	02580	0,0010,0101,1000,0000
1	1BDFF	1,1011,1101,1111,1111
2	02580	0,0010,0101,1000,0000
3	1BDFF	1,1011,1101,1111,1111
4	02580	0,0010,0101,1000,0000
5	1BDFF	1,1011,1101,1111,1111
6	02580	0,0010,0101,1000,0000
7	1BDFF	1,1011,1101,1111,1111
8	02580	0,0010,0101,1000,0000
9	1BDFF	1,1011,1101,1111,1111
10	02580	0,0010,0101,1000,0000
11	1BDFF	1,1011,1101,1111,1111
12	02580	0,0010,0101,1000,0000
13	1BDFF	1,1011,1101,1111,1111
14	02580	0,0010,0101,1000,0000
15	1BDFF	1,1011,1101,1111,1111
16	02580	0,0010,0101,1000,0000
17	1BDFF	1,1011,1101,1111,1111
18	02580	0,0010,0101,1000,0000
19	1BDFF	1,1011,1101,1111,1111
20	02580	0,0010,0101,1000,0000
21	1BDFF	1,1011,1101,1111,1111
22	02580	0,0010,0101,1000,0000
23	1BDFF	1,1011,1101,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

16JNJUPRTS01

OAPEL:	16JNJUPRTS01	ALIAS:	16JNJUPRTS01
EXT:	R	PSID:	DB
SCLK1:	04570336:06:0	SCLK2:	04570346:04:0
SCET1:	1998-201/11:53:57.400	SCET2:	1998-201/12:04:02.733
TARGET:	JUPITER	PARTITION:	1

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

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

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

WETGID: 0302408000 03 02 408 000
WTGRP_SIZ: 2

EDIT TABLE

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

16JNHOTMAP01

OAPEL:	16JNHOTMAP01	ALIAS:	16JNHOTMAP01
EXT:	A	PSID:	DC
SCLK1:	04570609:06:0	SCLK2:	04570610:20:0
SCET1:	98-201/16:30:00.066	SCET2:	98-201/16:31:10.066
TARGET:	JUPITER	PARTITION:	1

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

MB_DOWN:	00000	MB_UP:	00000
COMP_FLAG:	1		
EST_COMP:	2.0	EST_COMPV:	0.3
RATE_CON1:	00000	RATE_CON2:	65525
NWAVETOT:	238	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: 0326238001 03 26 238 001
WTGRP_SIZ: 26

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	19E27	1,1001,1110,0010,0111
1	19E27	1,1001,1110,0010,0111
2	19E27	1,1001,1110,0010,0111
3	19E27	1,1001,1110,0010,0111
4	19C27	1,1001,1100,0010,0111
5	19C27	1,1001,1100,0010,0111
6	19C27	1,1001,1100,0010,0111
7	19C27	1,1001,1100,0010,0111
8	1BC27	1,1011,1100,0010,0111
9	1BC27	1,1011,1100,0010,0111
10	1BC27	1,1011,1100,0010,0111
11	1BC27	1,1011,1100,0010,0111
12	1BC27	1,1011,1100,0010,0111
13	1BC27	1,1011,1100,0010,0111
14	1BC27	1,1011,1100,0010,0111
15	1BC27	1,1011,1100,0010,0111
16	1BC27	1,1011,1100,0010,0111
17	1BC27	1,1011,1100,0010,0111
18	1BC67	1,1011,1100,0110,0111
19	1BC67	1,1011,1100,0110,0111
20	13C67	1,0011,1100,0110,0111
21	13C67	1,0011,1100,0110,0111
22	13C67	1,0011,1100,0110,0111
23	13C67	1,0011,1100,0110,0111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

16HNDARKCL02

OAPEL:	16HNDARKCL02	ALIAS:	16HNDARKCL01
EXT:	A	PSID:	A
SCLK1:	04584688:00:0	SCLK2:	04584689:90:0
SCET1:	98-211/13:45:20.933	SCET2:	98-211/13:47:21.400
TARGET:	SKY	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:	408	TLMFMT:	MPW

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

WETGID: 0326408001 03 26 408 001
WTGRP_SIZ: 26

EDIT TABLE

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

16HNDARKCL04

OAPEL:	16HNDARKCL04	ALIAS:	16HNDARKCL01
EXT:	A	PSID:	A
SCLK1:	04584690:00:0	SCLK2:	04584691:90:0
SCET1:	98-211/13:47:22.066	SCET2:	98-211/13:49:22.733
TARGET:	SKY	PARTITION:	1
MODE:	3	GAIN:	4
CHOP:	1	GRAT_OFF:	4
PTAB_A:	1 1 0 0 124	PTAB_B:	1 1 0 0 124
ECAL:	0	OPCAL:	0
R/T:	0	RECORD:	1
MB_DOWN:	00000	MB_UP:	00000
COMP_FLAG:	1		
EST_COMP:	2.0	EST_COMPV:	0.3
RATE_CON1:	00000	RATE_CON2:	65525
NWAVETOT:	408	TLMFMT:	MPW

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

WETGID: 0326408001 03 26 408 001
WTGRP_SIZ: 26

EDIT TABLE

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

16HNDARKCL03

OAPEL:	16HNDARKCL03	ALIAS:	16HNDARKCL01
EXT:	A	PSID:	A
SCLK1:	04584692:00:0	SCLK2:	04584693:90:0
SCET1:	98-211/13:49:23.400	SCET2:	98-211/13:51:24.066
TARGET:	SKY	PARTITION:	1
MODE:	3	GAIN:	3
CHOP:	1	GRAT_OFF:	4
PTAB_A:	1 1 0 0 124	PTAB_B:	1 1 0 0 124
ECAL:	0	OPCAL:	0
R/T:	0	RECORD:	1
MB_DOWN:	00000	MB_UP:	00000
COMP_FLAG:	1		
EST_COMP:	2.0	EST_COMPV:	0.3
RATE_CON1:	00000	RATE_CON2:	65525
NWAVETOT:	408	TLMFMT:	MPW

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

WETGID: 0326408001 03 26 408 001
WTGRP_SIZ: 26

EDIT TABLE

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

16HNDARKCL01

OAPEL:	16HNDARKCL01	ALIAS:	16HNDARKCL01
EXT:	A	PSID:	A
SCLK1:	04584694:00:0	SCLK2:	04584699:89:0
SCET1:	98-211/13:51:24.733	SCET2:	98-211/13:57:27.600
TARGET:	SKY	PARTITION:	1
MODE:	3	GAIN:	1
CHOP:	1	GRAT_OFF:	4
PTAB_A:	1 1 0 0 124	PTAB_B:	1 1 0 0 124
ECAL:	0	OPCAL:	0
R/T:	0	RECORD:	1
MB_DOWN:	00000	MB_UP:	00000
COMP_FLAG:	1		
EST_COMP:	2.0	EST_COMPV:	0.3
RATE_CON1:	00000	RATE_CON2:	65525
NWAVETOT:	408	TLMFMT:	MPW

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

WETGID: 0326408001 03 26 408 001
WTGRP_SIZ: 26

EDIT TABLE

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

16NNRCTRLT01

OAPEL:	16NNRCTRLT01	ALIAS:	LSNNRCTRTA01
EXT:	R	PSID:	XU
SCLK1:	04631439:00:0	SCLK2:	04631439:12:0
SCET1:	1998-244/09:35:46.600	SCET2:	1998-244/09:35:54.600
TARGET:	CAL	PARTITION:	1

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

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

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

WETGID: 0303252000 03 03 252 000
WTGRP_SIZ: 3

EDIT TABLE

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

16NNRCTRLT01

OAPEL:	16NNRCTRLT01	ALIAS:	LSNNRCTRTA01
EXT:	S	PSID:	XU
SCLK1:	04631445:00:0	SCLK2:	04631446:12:0
SCET1:	1998-244/09:41:50.600	SCET2:	1998-244/09:42:59.266
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

16NNRCTRLT01

OAPEL:	16NNRCTRLT01	ALIAS:	LSNNRCTRTA01
EXT:	T	PSID:	XU
SCLK1:	04631451:00:0	SCLK2:	04631451:12:0
SCET1:	1998-244/09:47:54.600	SCET2:	1998-244/09:48:02.600
TARGET:	CAL	PARTITION:	1

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

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

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

WETGID: 0303252000 03 03 252 000
WTGRP_SIZ: 3

EDIT TABLE

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

16NNOPCAL_01

OAPEL:	16NNOPCAL_01	ALIAS:	LSNNOPCAL_01
EXT:	R	PSID:	DC
SCLK1:	04631455:00:0	SCLK2:	04631457:12:0
SCET1:	1998-244/09:51:57.266	SCET2:	1998-244/09:54:06.600
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

16NNPCTRLT01

OAPEL:	16NNPCTRLT01	ALIAS:	LSNNPCTRLT01
EXT:	R	PSID:	FB
SCLK1:	04646921:00:0	SCLK2:	04646922:12:0
SCET1:	1998-255/06:29:47.400	SCET2:	1998-255/06:30:56.066
TARGET:	CAL	PARTITION:	1

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

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

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

WETGID: 0303252000 03 03 252 000
WTGRP_SIZ: 3

EDIT TABLE

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

16NNPCTRLT01

OAPEL:	16NNPCTRLT01	ALIAS:	LSNNPCTRLT01
EXT:	S	PSID:	FB
SCLK1:	04646927:00:0	SCLK2:	04646936:12:0
SCET1:	1998-255/06:35:51.400	SCET2:	1998-255/06:45:05.400
TARGET:	CAL	PARTITION:	1

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

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

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

WETGID: 0303252000 03 03 252 000
WTGRP_SIZ: 3

EDIT TABLE

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

NIMS E16 OBSTAB

This is a time-ordered ASCII TABLE (listing) of GALILEO NIMS observation parameters for use by downlink data processing of the NIMS E16 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: mmeelllnnn where
                                   mm  = instrument mode (0-15)
                                   ee  = # entries in group
                                   lll = number of wavelengths selected
                                   nnn = sequence number
* WETGRPSIZ     2 329 - 330     .# Wavelength Edit entries (1-26)               PBK: ED_GRP_LEN (realtime SEF: 37ETB <tbd>)
* WETGRP      182 331 - 512     .Wavelength Edit Table group:  WETGRPSIZ        PBK: ED_GRP     (realtime SEF: 37ETB data bytes 2..)
                                  entries, each one has 7 characters.  The
                                  first 2 characters are the repeat count
                                  (01-26).  The other 5 characters contain
                                  5 hex digits, representing the detector
                                  mask in the form BHHHH where B is 0 or 1
                                  and H has range 0-15.  (These entries are
                                  from the 37ETB instrument edit group for
                                  realtime data and from the logical AND of
                                  corresponding entries in the instrument
                                  and playback edit groups for playback data.)
--------------------------------
.The TARGET names used are:
   CAL      - N - non-science targets, usually calibration targets
   EARTH    - W - Earth
   MOON     - L - Moon
   SKY      - H - Stellar Space (space and stars)
   VENUS    - V - Venus
   GASPRA   - P - Gaspra
   IDA      - U - Ida
   JUPITER  - J - Jupiter
   IO       - I - Io
   EUROPA   - E - Europa
   GANYMEDE - G - Ganymede
   CALLISTO - C - Callisto
   J_RING   - R - Jupiter rings
   (the single letter abbreviation appears as the third character in the OAPEL name ).
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--------------------------------------------------------------------------------------------------------------------------------
16INHRSPEC0116INHRSPEC01ADA04569992:00:004569994:90:01         IO       3214 1 1 0 0 124 1 1 0 0 12400012 0000000000 1 2.00.3000
0065525                 228LPU  98-201/06:06:04.066  98-201/06:09:05.400
           03003003000003002902802802902803203403103103203002903262280012601025800118DFF0102580011BDFF0102580011BDFF0102580011BD
FF0102580011BDFF0102580011BDFF0102580011BDFF0102580011BDFF0102580011BDFF0102580011BDFF0102580011BDFF0102580011BDFF01000000100000
16INHRSPEC0116INHRSPEC01BDA04569992:00:004569994:90:01         IO       3214 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                 228LPU  98-201/06:06:04.066  98-201/06:09:05.400
           00000000000000000000000000000000000000000000000000003262280012601025800118DFF0102580011BDFF0102580011BDFF0102580011BD
FF0102580011BDFF0102580011BDFF0102580011BDFF0102580011BDFF0102580011BDFF0102580011BDFF0102580011BDFF0102580011BDFF01000000100000
16JNJUPRTS0116JNJUPRTS01RDB04570336:06:004570346:04:01         JUPITER  3214 1 1 0 0 124 1 1 0 0 12400100 1101111011 0 0.00.0000
0000000                 408RT 1998-201/11:53:57.4001998-201/12:04:02.733
           0000000000000000000000000000000000000000000000000000302408000 2241FFFF0200000

16JNHOTMAP0116JNHOTMAP01ADC04570609:06:004570610:20:01         JUPITER  3214 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                 238LPU  98-201/16:30:00.066  98-201/16:31:10.066
           0000000000000000000000000000000000000000000000000000326238001260119E270119E270119E270119E270119C270119C270119C270119C
27011BC27011BC27011BC27011BC27011BC27011BC27011BC27011BC27011BC27011BC27011BC67011BC670113C670113C670113C670113C6701000000100000
16HNDARKCL0216HNDARKCL01AA 04584688:00:004584689:90:01         SKY      3214 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                 408MPW  98-211/13:45:20.933  98-211/13:47:21.400
           000000000000000000000000000000000000000000000000000032640800126011FFFF011FFFF011FFFF011FFFF011FFFF011FFFF011FFFF011FF
FF011FFFF011FFFF011FFFF011FFFF011FFFF011FFFF011FFFF011FFFF011FFFF011FFFF011FFFF011FFFF011FFFF011FFFF011FFFF011FFFF01000000100000
16HNDARKCL0416HNDARKCL01AA 04584690:00:004584691:90:01         SKY      3414 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                 408MPW  98-211/13:47:22.066  98-211/13:49:22.733
           000000000000000000000000000000000000000000000000000032640800126011FFFF011FFFF011FFFF011FFFF011FFFF011FFFF011FFFF011FF
FF011FFFF011FFFF011FFFF011FFFF011FFFF011FFFF011FFFF011FFFF011FFFF011FFFF011FFFF011FFFF011FFFF011FFFF011FFFF011FFFF01000000100000
16HNDARKCL0316HNDARKCL01AA 04584692:00:004584693:90:01         SKY      3314 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                 408MPW  98-211/13:49:23.400  98-211/13:51:24.066
           000000000000000000000000000000000000000000000000000032640800126011FFFF011FFFF011FFFF011FFFF011FFFF011FFFF011FFFF011FF
FF011FFFF011FFFF011FFFF011FFFF011FFFF011FFFF011FFFF011FFFF011FFFF011FFFF011FFFF011FFFF011FFFF011FFFF011FFFF011FFFF01000000100000
16HNDARKCL0116HNDARKCL01AA 04584694:00:004584699:89:01         SKY      3114 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                 408MPW  98-211/13:51:24.733  98-211/13:57:27.600
           000000000000000000000000000000000000000000000000000032640800126011FFFF011FFFF011FFFF011FFFF011FFFF011FFFF011FFFF011FF
FF011FFFF011FFFF011FFFF011FFFF011FFFF011FFFF011FFFF011FFFF011FFFF011FFFF011FFFF011FFFF011FFFF011FFFF011FFFF011FFFF01000000100000
16NNRCTRLT01LSNNRCTRTA01RXU04631439:00:004631439:12:01         CAL      3114 1 1 0 0 124 1 1 0 0 12400100 1101111011 0 0.00.0000
0000000                 252RT 1998-244/09:35:46.6001998-244/09:35:54.600
           0000000000000000000000000000000000000000000000000000303252000 312003FF12007FF0200000

16NNRCTRLT01LSNNRCTRTA01SXU04631445:00:004631446:12:01         CAL      3114 1 1 0 0 124 1 1 0 0 12400100 1101111011 0 0.00.0000
0000000                 252RT 1998-244/09:41:50.6001998-244/09:42:59.266
           0000000000000000000000000000000000000000000000000000303252000 312003FF12007FF0200000

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16NNRCTRLT01LSNNRCTRTA01TXU04631451:00:004631451:12:01         CAL      3114 1 1 0 0 124 1 1 0 0 12400100 1101111011 0 0.00.0000
0000000                 252RT 1998-244/09:47:54.6001998-244/09:48:02.600
           00000000000000000000000000000000000000000000000000000303252000 312003FF12007FF0200000

16NNOPCAL_01LSNNOPCAL_01RDC04631455:00:004631457:12:01         CAL      3414 1 1 0 0 124 1 1 0 0 12401100 1101111011 0 0.00.0000
0000000                 048RT 1998-244/09:51:57.2661998-244/09:54:06.600
           00000000000000000000000000000000000000000000000000000302048000 224180000200000

16NNPCTRLT01LSNNPCTRLT01RFB04646921:00:004646922:12:01         CAL      3414 1 1 0 0 124 1 1 0 0 12400100 1101111011 0 0.00.0000
0000000                 252RT 1998-255/06:29:47.4001998-255/06:30:56.066
           00000000000000000000000000000000000000000000000000000303252000 3121FFC0121FF800200000

16NNPCTRLT01LSNNPCTRLT01SFB04646927:00:004646936:12:01         CAL      3414 1 1 0 0 124 1 1 0 0 12400100 1101111011 0 0.00.0000
0000000                 252RT 1998-255/06:35:51.4001998-255/06:45:05.400
           00000000000000000000000000000000000000000000000000000303252000 3121FFC0121FF800200000

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